INSTRUMENT/DEVICE FUNCTION SYMBOLS

- LOCALLY MOUNTED INSTRUMENT
- BEHIND PANEL (REMOTE) OR RACK MOUNTED INSTRUMENT
- REMOTE CONTROL PANEL MOUNTED INSTRUMENT
- BAS — REMOTE DATA ACQUISITION BUILDING AUTOMATION SYSTEM OR PROCESS/ FACILITY CONTROL SYSTEM
- PROGRAMMABLE LOGIC CONTROLLER
- CP-XX — LOCAL PANEL MOUNTED INSTRUMENT ON PANEL No. XX
- CP-XX — LOCAL PANEL MOUNTED INSTRUMENT MOUNTED INSIDE OR BEHIND PANEL No. XX

INSTRUMENT SYMBOL LEGEND

EQUIPMENT ABBREVIATION — EQUIPMENT NUMBER OR ROOM NUMBER
AAA-XXX
AAA-XXX
INSTRUMENT TYPE (SEE TABLE) — SEQUENTIAL LOOP NUMBER (3 DIGIT)

TABLE FOR INSTRUMENT IDENTIFICATION LETTERS

	FIRST LETTER(S)		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	VARIABLE MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM	ALTERNATE	
B	BURNER, COMBUSTION				
C	CONDUCTIVITY	CHOICE		CONTROL	CLOSE
D	DENSITY	DIFFERENTIAL			DEVIATION
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	RECIPE		GLASS, GAUGE, VIEWING	SEQUENCE	
H	HAND (MANUAL INIT.)				HIGH
I	CURRENT (ELECTRICAL)	INITIATION	INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE/HUMIDITY				MID / INTERMEDIATE
N					
O			ORIFICE (RESTRICTION)		OPEN
P	PRESSURE		POINT (TEST CONNECT.)		
Q	QUANTITY	INTEGRATE / TOTALIZE	INTEGRATE / TOTALIZE		
R	RADIATION	REGULATION	RECORD		RUN
S	SPEED OR FREQUENCY	SAFETY		SWITCH	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
V	VIBRATION, MECHANICAL ANALYSIS			VALVE/DAMPER	MULTIFUNCTION
W	WEIGHT OR FORCE		WELL / PROBE		
X	USE AS NOTED	X-AXIS	USE AS NOTED	USE AS NOTED	USE AS NOTED
Y	EVENT, STATE, PRESENCE	Y-AXIS		RELAY	
Z	POSITION, DIMENSION	Z-AXIS, SAFETY INSTRUMENTED SYSTEM		DRIVE, ACTUATE OR USE AS NOTED	

CONTROL VALVE SYMBOLS

- PRESSURE REDUCING VALVE (SELF-CONTAINED) WITH INTERNAL SENSING PORT
- BACK-PRESSURE REGULATOR (SELF-CONTAINED) WITH INTERNAL SENSING PORT
- DIFFERENTIAL PRESSURE VALVE (SELF-CONTAINED) WITH INTERNAL SENSING PORT
- BACK-PRESSURE REGULATOR (LINE-ACTUATED)
- PRESSURE REDUCING REGULATOR (LINE-ACTUATED)
- DIFFERENTIAL PRESSURE VALVE (LINE-ACTUATED)
- S — 3-WAY SOLENOID VALVE (PILOT) LOCAL
- S 4R — 4-WAY PILOT SOLENOID VALVE REMOTE (MANIFOLD STYLE)
- I/P — CURRENT TO PNEUMATIC TRANSDUCER
- I/P R — CURRENT TO PNEUMATIC TRANSDUCER REMOTE (MANIFOLD STYLE)
- FUSIBLE LINK (AUTOMATED)

VALVE ABBREVIATIONS

LC	LOCKED CLOSED
LO	LOCKED OPEN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
FC	FAIL CLOSED
FO	FAIL OPEN
FL	FAIL LOCKED IN LAST POSITION
CSC	CAR SEALED CLOSED
CSO	CAR SEALED OPEN

ACTUATOR FOR CONTROL VALVE SYMBOLS

- ON/OFF ACTUATOR
- MODULATING/PNEUMATIC ACTUATOR
- M — ELECTRIC ACTUATOR
- S — SOLENOID ACTUATOR

FUNCTION IDENTIFICATION / CONTROL LOGIC

X = FUNCTION DESIGNATION

ANALYZER FUNCTION - USE APPROPRIATE SYMBOL

- C — CONDUCTIVITY
- DO — DISSOLVED OXYGEN
- UV — ULTRAVIOLET
- pH — pH
- R — RESISTIVITY
- P — PARTICLE COUNT
- NOX — NITROGEN OXIDE
- TOC — TOTAL ORGANIC CARBON
- O2 — OXYGEN

CONTROL LOGIC SYMBOLS

- REMOTE/LOCAL
- SCR — SILICON CONTROLLED RECTIFIER
- SOFTWARE INTERLOCK LOGIC CONFIGURED OR PROGRAMMED IN A CONTROL SYSTEM.
- INTERLOCK LOGIC
- SEQUENTIALLY NUMBERED PER UNIQUE INTERLOCK FUNCTION

INLINE INSTRUMENT SYMBOLS

- FE — GENERAL FLOW ELEMENT
- CORIOLIS FLOWMETER
- DIFFERENTIAL PRESSURE FLOW METER
- M — MAGNETIC FLOW METER
- PITOT TUBE
- AVERAGING PITOT
- POSITIVE DISPLACEMENT FLOWMETER
- RESTRICTION ORIFICE
- ROTAMETER
- ROTAMETER WITH MANUAL FLOW CONTROL VALVE
- THERMAL MASS FLOWMETER
- TURBINE, PROPELLER FLOW METER
- ULTRASONIC FLOWMETER SONIC FLOWMETER
- VENTURI OR FLOW NOZZLE
- VORTEX SHEDDING FLOWMETER
- SINGLE ELEMENT SENSING PROBE
- DUAL ELEMENT SENSING PROBE
- FLAME DETECTOR SENSING PROBE
- LOAD CELL
- THERMOWELL (PIPE OR TANK)

SIGNAL PROCESSING FUNCTIONS

- Σ — SUMMATION
- Σ/n — AVERAGE
- △ — DIFFERENCE
- X — MATHEMATICAL (ANY)
- I/P — SIGNAL CONVERSION (I,P,V, ETC)
- > — HIGH/LOW LIMIT (HIGH SHOWN)
- H — HIGH/MID/LOW SIGNAL MONITOR (HIGH SHOWN)
- > — HIGH/LOW SELECT (HIGH SHOWN)

SERVICE INDEX

BCA	BOTTLED COMPRESSED AIR
BD	BOILER BLOWDOWN
BFW	BOILER FEEDWATER
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CF	CHEMICAL FEED
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO2	CARBON DIOXIDE
CR	CONDENSER WATER RETURN
CS	CLEAN STEAM
CUSP	COLD USP WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER SUPPLY
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DTWR	DOMESTIC TEMPERED WATER RETURN
DTWS	DOMESTIC TEMPERED WATER SUPPLY
E	EXPANSION
EXH	EXHAUST
FL	FILL LINE
FOD	FUEL OIL DISCHARGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FP	FIRE PROTECTION
GV	GAS VENT
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HE	HELIUM
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HUSP	HOT USP WATER
HW	DOMESTIC HOT WATER
IA	INSTRUMENT AIR
IA-[ ]	INSTRUMENT AIR
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MU	MAKEUP WATER
N2	NITROGEN
NCW	NON-CONTACT WATER
NG	NATURAL GAS
NPW	NON-POTABLE WATER
OF	OVERFLOW
PA	PROCESS AIR
PC	PUMPED CONDENSATE
PCR	PUMPED CONDENSATE RETURN
PV	PROCESS VENT
PW	PROCESS WASTE
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RO	REVERSE OSMOSIS
RS	REFRIGERANT SUCTION
SFW	SOFTENED WATER
SV	SANITARY VENT
SW	SOFTENED WATER
TWR	TOWER WATER RETURN
TWS	TOWER WATER SUPPLY
USP	USP WATER
V	VENT PIPING
VAC	VACUUM
W	SANITARY WASTE

MATERIAL SPECIFICATIONS

CU	COPPER
PP	POLYPROPYLENE
PVC	POLYVINYLCHLORIDE
SS	STAINLESS STEEL
CS	CARBON STEEL

LINE NUMBERING CODE-PIPING

SERVICE — PIPING SCHEDULE — INSULATION SCHEDULE — MATERIAL OF CONST. — LINE SIZE — LINE NUMBER
3"CS S40(2)(101)8865 — XXX-XX-XXX-XXX

EQUIPMENT ABBREVIATIONS

AHU	AIR HANDLING UNIT
AT	ATTENUATOR
AC	AIR COMPRESSOR
AD	COMPRESSED AIR DRYER
ACU	AIR CONDITIONING UNIT
AS	AIR SEPARATOR
AR	AIR RECEIVER
AW	ACID WASTE
B	BOILER
BDS	BLOWDOWN SEPARATOR
BFP	BOILER FEED PUMP
BD	BALANCING DAMPER
BAS	BUILDING AUTOMATION SYSTEM
BF	BACKFLOW PREVENTER
BT	BRINE TANK
C	CONDENSER
CBF	CARBON FILTER
CC	COOLING COIL
CCLR	CONDENSATE COOLER
CRU	CONDENSATE RETURN UNIT
CP	CONDENSATE PUMP
CWP	CONDENSER WATER PUMP
CFP	CHEMICAL FEED PUMP
CF	CHEMICAL FEED TANK
CH	CHILLER
COMP	COMPRESSOR
CSG	CLEAN STEAM GENERATOR
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
DA	DEAERATOR
DC	DUST COLLECTOR
DH	DEHUMIDIFIER
DWP	DOMESTIC WATER PUMP
DI	DEIONIZED WATER
E	EVAPORATOR
EF	EXHAUST FAN
EG	EMERGENCY GENERATOR
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
F	FILTER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FH	FUME HOOD
FP	FIRE PUMP
GRV	GRAVITY ROOF VENT
H	HUMIDIFIER
HC	HEATING COIL
HF	HEPA FILTER
HP	HEAT PUMP
HWG	HOT WATER GENERATOR
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
IAC	INSTRUMENT AIR COMPRESSOR
IAF	INSTRUMENT AIR FILTER
MMF	MULTIMEDIA FILTER
OBD	OPPOSED BLADE DAMPER
OGEN	OZONE GENERATOR
P	PUMP
PCV	PRESSURE CONTROL VALVE
RAD	REFRIGERATED AIR DRYER
RF	RETURN/RELIEF FAN
RHC	REHEAT COIL
RO	REVERSE OSMOSIS
SF	SUPPLY FAN
SFT	SOFTENER
SMD	SMOKE DAMPER
SRV	SAFETY RELIEF VALVE
SSF	SIDE STREAM FILTER
STR	STRAINER
TA	TANK
UH	UNIT HEATER
UV	ULTRA VIOLET LAMP
VAV	VARIABLE AIR VOLUME
VE	VESSEL
VFD	VARIABLE FREQUENCY DRIVE
WH	WATER HEATER
WS	WATER SOFTENER

REFERENCE SYMBOLS

- X — INDICATES REVISION & NUMBER
- # — LOCATION POINT FOR COORDINATION BETWEEN FLOOR PLANS & PIPING DIAGRAMS (NUMBER)
- SERVICE SOURCE/DESTINATION FLOW REFERENCE — PIPING/DUCTWORK CONTINUATION ACROSS DRAWINGS
- SERVICE SOURCE/DESTINATION FLOW — UTILITY BLOCK
- INST. TAG DWG # — SIGNAL CONTINUATION ACROSS DRAWINGS
- TIE-IN POINT
- TERMINATION POINT OF DEMOLITION
- CONNECT TO MANUFACTURER'S PREPIPED CONNECTION
- (X) — SHEET NOTE NUMBER (SN)
- (X) — ON-SHEET ELECTRICAL SIGNAL CONTINUATION (WHERE X IS REFERENCE LETTER)
- (X) — ON-SHEET LINE CONNECTION (WHERE X IS REFERENCE LETTER)
- XXX ### OR XXX-### — EQUIPMENT IDENTITY ABBREVIATION — EQUIPMENT NUMBER
- X — INDICATES TYPICAL DETAIL NUMBER
- X / X — INDICATES SECTION NUMBER — INDICATES ON WHICH DRAWING SECTION APPEARS
- A - XX / CFM — DIFFUSER IDENTIFICATION — NECK SIZE; DIFFUSER SIZE FOR SIDEWALL — CFM REQUIRED

LINE SYMBOLOGY

- CONTROL SIGNAL (SOFTWARE OR DATA LINK)
- ELECTRICAL DISCONNECT
- ELECTRICAL SIGNAL
- ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)
- ELECTROMAGNETIC OR SONIC SIGNAL (NOT GUIDED)
- FUTURE
- E E E — HEAT TRACED LINE E=ELECTRIC S=STEAM
- S S S
- HYDRAULIC SIGNAL
- INSTRUMENT AIR SUPPLY
- INSTRUMENT CAPILLARY TUBING
- INSTRUMENT PNEUMATIC SIGNAL
- MANUAL TRANSFER
- MECHANICAL LINKAGE
- PRIMARY PROCESS FLOW
- V V — VENDOR BOUNDARY
- X" — INSULATED PIPE

DUCTWORK ACCESSORIES SYMBOLS

- OR — FIRE DAMPER-WALL MOUNTED
- FIRE DAMPER-FLOOR MOUNTED
- SD — SMOKE DAMPER
- FSD — COMBINATION FIRE/SMOKE DAMPER
- FSD — FIRE/SMOKE DAMPER-FLOOR MOUNTED
- OR — VOLUME DAMPER / BLAST GATE
- T — TEMPERATURE SENSOR
- H — HUMIDITY SENSOR
- TH — TEMPERATURE AND HUMIDITY SENSOR
- O2 — OXYGEN LEVEL SENSOR
- SD — SMOKE DETECTOR
- PT — STATIC PRESSURE TRANSMITTER
- S — SWITCH
- HL — HUMIDITY HIGH LIMIT SENSOR
- UC — UNDERCUT
- DL — DOOR LOUVER (FREE AREA REQUIRED INDICATED IN SQUARE FEET)
- RETURN/TRANSFER AIRFLOW
- L — PLENUM LIGHT

DUCTWORK

DOUBLE LINE	SINGLE LINE	
		EXHAUST AIR DUCTWORK
		RETURN AIR DUCTWORK
		SUPPLY AIR DUCTWORK
		EXISTING DUCTWORK
		TRANSFER AIR
		DEMOLISHED ITEM
		SHORT RADIUS ELBOW
		LONG RADIUS ELBOW
		VANED ELBOW
		BRANCH DUCT TAKE-OFF
R D	R D	RISE OR DROP DIRECTION OF AIR FLOW
		DIFFUSER
		CEILING RETURN REGISTER (R) OR GRILLE (G)
		CEILING EXHAUST REGISTER (R) OR GRILLE (G)
		RECTANGULAR TO ROUND TRANSITION
AD OR AD		ACCESS DOOR, BOTTOM OR SIDE

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- PRESSURE INDEPENDENT VALVE
- OR — TERMINAL BOX WITHOUT REHEAT
- OR — TERMINAL BOX WITH REHEAT

GENERAL NOTES

1. PROVIDE ALL WORK, EQUIPMENT SERVICES, LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND FUNCTIONAL MECHANICAL SYSTEM, EQUIPMENT AND MATERIAL AS DESCRIBED OR IMPLIED BY THE DOCUMENT DRAWINGS.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODE, AND NFPA 70, "NATIONAL ELECTRICAL CODE".
3. ALL EQUIPMENT AND MATERIAL SHALL BE UL-LISTED AND LABELED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
4. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES AND COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCES.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SHOW EQUIVALENCE OF ANY PRODUCT SUBSTITUTIONS.
7. WHERE A PRODUCT SUBSTITUTION RESULTS IN RECONFIGURATION OR REWORK OF DESIGN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THOSE CHANGES TO THE ENGINEER FOR APPROVAL.
8. THE CONTRACTOR SHALL COORDINATE FINAL LAYOUT OF EQUIPMENT BASED ON THE EQUIPMENT ACTUALLY PURCHASED BY OWNER OR CONTRACTOR AS APPLICABLE. MAKE ALL NECESSARY CHANGES TO FEATURES INDICATED ON DESIGN DOCUMENTS TO ACCOMMODATE PHYSICAL SIZE OF EQUIPMENT, MAINTENANCE ACCESS, FINISH CONNECTIONS TO ADJOINING SURFACES, UTILITY TIE-INS, CONNECTED SYSTEMS, VENTS, DRAINS, EXHAUSTS, ELECTRICAL POWER AND CONTROLS. THE CONTRACTOR SHALL SUBMIT CHANGES IN THE FORM OF MARKED-UP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE MAKING CHANGES TO WORK INDICATED ON DRAWINGS.
9. ALL DUCTWORK SHALL BE FABRICATED TO MEET THE GAUGES AND CONSTRUCTION METHODS OF THE LATEST SMACNA, ASHRAE AND NFPA STANDARDS. THE EXHAUST DUCTWORK SHALL BE FABRICATED AS DESCRIBED IN THE SPECIFICATIONS.
10. CONTRACTOR SHALL USE LONG RADIUS ELBOWS OF R/D=1.5 OR TURNING VANES WHEN CHANGING DUCT DIRECTION OF 45 DEGREES OR MORE.
11. FLEXIBLE DUCTWORK SHALL ONLY BE USED ON SUPPLY FOR FINAL CONNECTION OF RIGID DUCTWORK TO DIFFUSERS. FLEXIBLE DUCTWORK SHALL BE AS DESCRIBED IN THE SPECIFICATIONS AND SHALL NOT EXCEED A MAXIMUM LENGTH OF 4 FEET.
12. ACCESS DOORS SHALL BE OF SAME MATERIAL AS THE DUCTWORK AND PROVIDED AT ALL DUCT MOUNTED INSTRUMENTATION, TURNING VANES, SMOKE DETECTORS AND DAMPERS. INSTALL ACCESS DOORS AWAY FROM OBSTRUCTIONS FOR FULL ACCESS TO OPENING. ACCESS DOORS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO BALANCE THE AIR HANDLER WITH ALL CONNECTING DIFFUSERS, EXHAUST FANS AND GRILLES AS DESCRIBED IN THE SPECIFICATIONS TO AIR FLOW VOLUMES AS INDICATED ON THE DRAWINGS. ANY ADDITIONAL MANUAL BALANCING DAMPERS NOT SHOWN ON CONSTRUCTION DRAWINGS AND REQUIRED TO COMPLETE THE FINAL TEST AND BALANCE WILL BE COORDINATED WITH THE TAB CONTRACTOR AND PROVIDED BY THE MECHANICAL CONTRACTOR.
14. THERE IS NO KNOWN ASBESTOS ON THIS PROJECT, HOWEVER THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY IF DURING THE COURSE OF THIS PROJECT THE CONTRACTOR SUSPECTS THAT ANY MATERIAL MAY CONTAIN ASBESTOS AND SHALL NOT CONTINUE TO RESUME WORK UNTIL DIRECTED TO DO SO IN WRITING BY THE OWNER. THERE IS NO ASBESTOS ABATEMENT UNDER THIS PROJECT AND IS THE SOLE RESPONSIBILITY OF THE OWNER IF ANY ASBESTOS IS ENCOUNTERED.
15. CLEAN THE JOB SITE CONTINUOUSLY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
16. ALL ELEVATIONS TAKEN FROM FINISHED FLOOR UNLESS OTHERWISE NOTED.
17. PROVIDE MANUAL VOLUME DAMPERS WITH QUADRANT LOCKS AT ALL BRANCH TAKE-OFFS WHEREVER REQUIRED FOR BALANCING THE SYSTEM AND WHERE INDICATED ON DRAWINGS AND SPECIFICATIONS.
18. IN THE EVENT OF A CONFLICT BETWEEN THESE NOTES AND THE PROJECT SPECIFICATIONS, SPECIFICATIONS SHALL GOVERN.
19. IN THE EVENT OF A CONFLICT BETWEEN THE PLANS AND THE P&IDS, THE P&IDS SHALL GOVERN.

PIPING ELEMENTS/VALVING

- GATE VALVE
- OS&Y VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- VERTICAL VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- DIAPHRAGM VALVE
- BALANCING VALVE
- TRIPLE DUTY VALVE
- PRESSURE RELIEF/SAFETY VALVE
- VACUUM RELIEF/SAFETY VALVE
- RUPTURE DISC FOR PRESSURE RELIEF
- RUPTURE DISC FOR VACUUM RELIEF
- GAS COCK
- FUSIBLE LINK VALVE - QUICK CLOSING
- FUSIBLE LINK VALVE - QUICK OPENING
- 3-WAY VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- TEE OUTLET UP
- TEE OUTLET DOWN

- QUICK DISCONNECT
- DIRECTION OF FLOW
- SLOPE
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION - SCREWED
- UNION - FLANGED
- UNION - DIELECTRIC
- PIPE SUPPORT
- A — ANCHOR
- GUIDE
- FLEXIBLE CONNECTION
- EXPANSION JOINT
- GAUGE WITH SIPHON AND BLOCK VALVE (STEAM)
- AQUASTAT
- GAS PRESSURE REGULATOR
- FLOAT OPERATED CONTROL VALVE
- BASKET STRAINER
- T — STEAM TRAP
- THERMODYNAMIC STEAM TRAP
- FT — FLOAT AND THERMOSTATIC STEAM TRAP
- STEAM LEAK DETECTOR
- FLEXIBLE HOSE

- NON SANITARY COUPLING
- SANITARY TRI-CLAMP
- EV — EMERGENCY VENT
- CV — CONSERVATION VENT
- IQ — INJECTION QUILL (CHEMICAL TREATMENT)
- BFP — BACKFLOW PREVENTER
- CAM LOCK CAP
- SCREWED CAP
- WELDED CAP
- FLANGED CONNECTION
- DIAPHRAGM
- SANITARY TRI CLAMP DIAPHRAGM
- FD — FLOOR DRAIN (OPEN)
- FD — FLOOR DRAIN (CLOSED)
- SG — SIGHT GLASS
- SP — SAMPLE PORT
- LIGHT
- LP — LOW POINT DRAIN
- HP — HIGH POINT VENT - MANUAL
- HIGH POINT VENT - AUTOMATIC
- FA — FLAME ARRESTOR

SIGNAL TYPE AND CONTROL DEVICE DESIGNATOR

SIGNAL TYPE/MODE
AI = ANALOG INPUT
AO = ANALOG OUTPUT
DI = DISCRETE INPUT
DO = DISCRETE OUTPUT

TECHNOLOGY
CN = CONTROLNET
DN = DEVICENET
IP = TCP/IP
SR = SERIAL

SM (T) — S = SIGNAL TYPE; M = MODE; D = DEVICE; # = SYSTEM NUMBER; T = TECHNOLOGY

DEVICE
B = BUILDING MANAGEMENT SYSTEM (BMS)
P1 = UTILITY MANAGEMENT SYSTEM
F = FIRE ALARM OR ACCESS CONTROL SYSTEM
MC = MOTOR CONTROL CENTER
P = PROGRAMMABLE LOGIC CONTROLLER
SI = SAFETY INSTRUMENTED SYSTEM
Q = QUALIFIED BUILDING MANAGEMENT SYSTEM (QBMS)

EQUIPMENT

- AIR SEPARATOR
- CHEMICAL FEEDER
- EXPANSION TANK
- CENTRIFUGAL PUMP
- DIAPHRAGM PUMP
- LOBE/GEAR PUMP
- METERING PUMP
- PERISTALTIC PUMP
- QUADRAFLOW PUMP
- CAVITY PUMP
- M — MOTOR
- INLINE AIR FILTER
- SANITARY FILTER
- CONDENSATE COOLER
- DRIP PAN ELBOWS
- AGITATOR
- SCALE
- HEAT EXCHANGER
- CONDENSER
- INSULATED EQUIPMENT

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	EQ	EQUAL	LIQ	LIQUID	RAC	RUN ABOVE CEILING	VA	VALVE
ABV	ABOVE	EQUIP	EQUIPMENT	LRA	LOCK ROTOR AMPS	RAF	RUN ABOVE FLOOR	VB	VACUUM BREAKER
AD	ACCESS DOOR	EQUIV	EQUIVALENT	LVG	LEAVING	RATC	RUN AT CEILING	VD	VOLUME DAMPER
ADR	AREA DRAIN (SEE SYMBOLS)	ES	END SWITCH	LVR	LOUVER	RBC	RUN BELOW CEILING	VEL	VELOCITY
AFF	ABOVE FINISHED FLOOR	ESP	EXTERNAL STATIC PRESSURE	LWT	LEAVING WATER TEMPERATURE	RBF	RUN BELOW FLOOR	VI	VIBRATION ISOLATOR
ALUM	ALUMINUM	ETC	AND SO FORTH	MC	MECHANICAL CONTRACTOR	RBG	RUN BELOW GRADE	VOLT	VOLTAGE
AP	ACCESS PANEL	EWT	ENTERING WATER TEMPERATURE	MBH	THOUSANDS OF BTU PER HOUR	RBJ	RUN BETWEEN JOIST	VTR	VENT THRU ROOF
ASC	APPLICATION SPECIFIC CONTROLLER	EXH	EXHAUST	MED	MEDIUM	RCP	REINFORCED CONCRETE PIPE	W	WIDTH
ATC	AUTOMATIC TEMPERATURE CONTROL	EXPAN	EXPANSION	MFR	MANUFACTURER	RD	ROOF DRAIN	W/	WITH
ATM	ATMOSPHERIC PRESSURE	EXT	EXTERNAL	MH	MANHOLE	RE	ROUNDED ENTRANCE/EXIT	W/O	WITHOUT
AVER	AVERAGE	EW	EYE WASH	MIN	MINIMUM	REL	RELIEF	WB	WET BULB
AWT	AVERAGE WATER TEMPERATURE	ET	ELEPHANT TRUNK	MISC	MISCELLANEOUS	REQD	REQUIRED	WC	WATER COLUMN
BDD	BACK DRAFT DAMPER	°F	DEGREES FAHRENHEIT	MTD	MOUNTED	RET	RETURN	WG	WATER GAUGE
BFP	BACK FLOW PREVENTOR	FA	FROM ABOVE	NC	NORMALLY CLOSED	RH	RELATIVE HUMIDITY	WT	WEIGHT
BG	BLAST GATE	FB	FROM BELOW	NEG	NEGATIVE	RICW	RUN IN CASEWORK		
BLDG	BUILDING	FC	FAIL CLOSED	NIC	NOT IN CONTRACT	RIE	RUN IN ENCLOSURE		
BLW	BELOW	FCV	FLOW CONTROL VALVE	No	NUMBER	RIW	RISE IN WALL		
BM	BELL MOUTH	FD	FLOOR DRAIN	NO	NORMALLY OPEN	RLA	RATED LOAD AMPS		
BOD	BOTTOM OF DUCT	F/D	FIRE DAMPER	NOM	NOMINAL	RM	ROOM		
BSMT	BASEMENT	FG	FILTER GRILLE	NTS	NOT TO SCALE	ROD	ROOF OVERFLOW DRAIN		
BTU	BRITISH THERMAL UNIT	FIN	FINISHED	OA	OUTSIDE AIR	RPM	REVOLUTIONS PER MINUTE		
BTUH	BRITISH THERMAL UNIT PER HOUR	FL	FLANGE	OB	OFF BOTTOM	SA	SUPPLY AIR		
BV	BALANCE VALVE	FLA	FULL LOAD AMPS	OC	ON CENTER	SCH	SCHEDULE		
CAP	CAPACITY	FLEX	FLEXIBLE	OCC	OCCUPIED	SCEM	SCHEMATIC		
CBV	CIRCUIT BALANCING VALVE	FLR	FLOOR	OD	OUTSIDE DIMENSION	SH	SENSIBLE HEAT		
CFH	CUBIC FEET PER HOUR	FO	FAIL OPEN	OGH	OUTSIDE GROUND HYDRANT	SIP	STEAM IN PLACE		
CFM	CUBIC FEET PER MINUTE	FOB	FLAT ON BOTTOM	OPG	OPENING	SP	STATIC PRESSURE		
CHP	CONCRETE HOUSEKEEPING PAD	FOT	FLAT ON TOP	OS	OPEN SITE	SPEC	SPECIFICATION		
CI	CAST IRON	FP	FIRE PROTECTION	OT	OFF TOP	SQ	SQUARE		
CIP	CLEAN IN PLACE	FPH	FEET PER HOUR	OV	OUTLET VELOCITY	SS	STAINLESS STEEL		
℄	CENTER LINE	FPM	FEET PER MINUTE	OZ	OUNCE	SST	SUPPORT STEEL		
CLG	CEILING	FPS	FEET PER SECOND	PART	PARTIAL	STD	STANDARD		
CM	CONSTRUCTION MANAGER	FRICT	FRICTION	PDR	PLENUM DRAIN	STL	STEEL		
CMU	CONCRETE MASONRY UNIT	FS	FLOW SWITCH	PD	PRESSURE DROP (SEE SCHEDULE)	STM	STEAM		
CO	CLEAN OUT	FSD	COMBINATION FIRE AND SMOKE WITH ACCESS DOOR	PERF	PERFORATED	STR	STRUCTURAL		
COL	COLUMN	FT	FEET	PH	PHASE	SUCT	SUCTION		
COMP	COMPRESSOR	FTB	FLOOR TO BOTTOM	PNEU	PNEUMATIC	SUP	SUPPLY		
CON	CONCENTRIC	FTC	FLOOR TO CENTERLINE	POS	POSITIVE	SYS	SYSTEM		
CONC	CONCRETE	FTR	FINNED TUBE RADIATION	PRESS	PRESSURE	TAD	TRANSFER AIR DUCT		
COND	CONDENSATE	FV	FACE VELOCITY	PS	PRESSURE SWITCH	TDH	TOTAL DYNAMIC HEAD		
CONN	CONNECTION	FWE	FURNISHED WITH EQUIPMENT	PSI	POUNDS PER SQUARE INCH	TEMP	TEMPERATURE		
CONTN	CONTINUATION	FXC	FLEXIBLE CONNECTION	PSIG	POUNDS PER SQUARE INCH GAUGE	TOT	TOTAL		
CONTR	CONTRACTOR	GA	GAUGE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	THT	TOTAL HEAT		
CVS	CONTROL VALVE STATION	GAL	GALLON	PT	PRESSURE TRANSMITTER	TP	TOTAL PRESSURE		
DA	DIRECT ACTING	GALV	GALVANIZED	PV	PLUG VALVE	TS	TEMPERATURE SWITCH		
DAMP	DAMPER	GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE	TSP	TOTAL STATIC PRESSURE		
DB	DRY BULB	GPD	GALLONS PER DAY	PVS	POLYVINYL COATED STEEL	TT	TEMPERATURE TRANSMITTER		
DEPT	DEPARTMENT	GPH	GALLONS PER HOUR	QUAN	QUANTITY	TYP	TYPICAL		
DI	DEIONIZED WATER	GPM	GALLONS PER MINUTE	R	REGISTER	UC	UNDERCUT		
DIA	DIAMETER	GR	GRILLE	RA	RETURN AIR	UNOCC	UNOCCUPIED		
DIAG	DIAGRAM	GRS/LB	GRAINS PER POUND			V	VOLTS		
DIFF	DIFFERENTIAL	HT	HEIGHT						
DISCH	DISCHARGE	H2O	WATER						
DIV	DIVISION	HB	HOSE BIBB						
DIW	DOWN IN WALL	HD	HEAD (SEE SCHEDULES)						
DL	DOOR LOUVER	HP	HORSEPOWER						
DN	DOWN	HR	HOUR						
DWG	DRAWING	HTR	HEATER						
DX	DIRECT EXPANSION	HZ	HERTZ						
E	EXISTING	ID	INSIDE DIMENSION						
EA	EACH	IN	INCHES						
EAT	ENTERING AIR TEMPERATURE	INCL	INCLUDING						
EC	ELEC

PVF MECHANICAL MATRIX

SERVICE	ABBREVIATION	ELI LILLY SPEC	FITTING PRESSURE CLASS	GRADE	TRADE	SIZE MIN.	PIPE TYPE	SIZE MAX.	FAB CONNECTION TYPE	FIELD CONNECTION TYPE	ASME WELD SPEC	FAB BRANCH TYPE	FIELD BRANCH TYPE	UNIONS	FLANGE CONNECTION	SHUT OFF VALVE TYPE	HANDLE TYPE	CHECK VALVE TYPE	GLOBE VALVE	BALANCING VALVE TYPE	VENT VALVE TYPE	DRAIN VALVE TYPE	STRAINER
CHILLED WATER	CHWR/CWHS	6,7	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-STD ERW GRADE B	12"	BUTTWELDED	BUTTWELDED	B31.9	TEE OLET	TEE OLET	N/A	BUTTWELDED	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	N	SPRING CHECK (FLANGED – 150# - LF) NIBCO F-910-W-LF		B&G FLANGED CALIBRATED BALANCING VALVE - LF	T585-70-66-HC	T585-70-66-HC	NIBCO F-721-A
CHILLED WATER	CHWR/CWHS	6,7	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	PRESS (CTS)	BALL VALVE (2PC - LEAD FREE – PRESS) NIBCO PC585-70-66	NIBSEAL - EXTENDED FOR INSULATION	HORIZONTAL SWING CHECK(SOLDERED-125#)NIBCO S-413-B		B&G SOLDERED CALIBRATED BALANCING VALVE - LF	PC-585-70-66-HC	PC-585-70-66-HC	NIBCO S-221-A
HEATING HOT WATER	HHWR/HHWS	6,7	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	PRESS (CTS)	BALL VALVE (2PC - LEAD FREE – PRESS) NIBCO PC585-70-66	NIBSEAL - EXTENDED FOR INSULATION	HORIZONTAL SWING CHECK(SOLDERED-125#)NIBCO S-413-B		B&G SOLDERED CALIBRATED BALANCING VALVE - LF	PC-585-70-66-HC	PC-585-70-66-HC	NIBCO S-221-A
HEATING HOT WATER MAINS TO RHC'S	HHWR/HHWS	6,7	150#	ABOVEGROUND	MECH	3"	COPPER-TYPE_L-HARD	4"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	PRESS (CTS)	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	LEVER/GEAR (NOTE 1)				PC-585-70-66-HC	PC-585-70-66-HC	NIBCO S-221-A
HEATING HOT WATER	HHWR/HHWS	6,7	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-STD ERW GRADE B	12"	BUTTWELDED	BUTTWELDED	B31.9	TEE OLET	TEE OLET	N/A	BUTTWELDED	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	N	SPRING CHECK (FLANGED – 150# - LF) NIBCO F-910-W-LF		B&G FLANGED CALIBRATED BALANCING VALVE - LF	T585-70-66-HC	T585-70-66-HC	NIBCO F-721-A
HIGH PRESSURE STEAM (125 PSI AND ABOVE)	S125	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD.ERW GRADE B	6"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	CAST STEEL
HIGH PRESSURE STEAM (125 PSI AND ABOVE)	S125	2	150#	ABOVEGROUND	MECH	1/2"	CS-A106-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
HIGH PRESSURE CONDENSATE (125 PSI AND ABOVE)	SC125	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD ERW GRADE B	4"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	CAST STEEL
HIGH PRESSURE CONDENSATE (125 PSI AND ABOVE)	SC125	2	150#	ABOVEGROUND	MECH	1/2"	CS-A106-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
MEDIUM PRESSURE STEAM (FROM 50 PSI TO 125 PSI)	S50	2	150#	ABOVEGROUND	MECH	1/2"	CS-A106-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
MEDIUM PRESSURE STEAM (FROM 50 PSI TO 125 PSI)	S50	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD ERW GRADE B	6"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	300#- KECKLEY- CAST CARBON STEEL Y-STRAINER- 3/16" SS PERFORATED SCREEN- MODEL SA-7
MEDIUM PRESSURE CONDENSATE (FROM 50 PSI TO 125 PSI)	SC50	2	150#	ABOVEGROUND	MECH	1/2"	CS-A106-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
MEDIUM PRESSURE CONDENSATE (FROM 50 PSI TO 125 PSI)	SC50	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD ERW GRADE B	4"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	300#- KECKLEY- CAST CARBON STEEL Y-STRAINER- 3/16" SS PERFORATED SCREEN- MODEL SA-7
STEAM VENT	SV	2	150#	ABOVEGROUND	MECH	1/2"	CS-A53-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
STEAM VENT	SV	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD ERW GRADE B	6"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	300#- KECKLEY- CAST CARBON STEEL Y-STRAINER- 3/16" SS PERFORATED SCREEN-MODEL SA-7
PUMPED CONDENSATE	P-SC	2	150#	ABOVEGROUND	MECH	2-1/2"	CS-A53-SCH40 STD ERW GRADE B	4"	BUTTWELDED	BUTTWELDED	B31.3	TEE OLET	TEE OLET	N/A	BUTTWELDED	GATE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1503	N	HORIZONTAL SWING CHECK (FLANGED-300#)POWELL-API 600 FIG. 3061	GLOBE VALVE(FLANGED- RISING STEM-150#) POWELL- API 600 FIG. 1531	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	300#- KECKLEY- CAST CARBON STEEL Y-STRAINER- 3/16" SS PERFORATED SCREEN-MODEL SA-7
PUMPED CONDENSATE	P-SC	2	150#	ABOVEGROUND	MECH	1/2"	CS-A106-SCH80 GRADE B	2"	SOCKET WELDED	SOCKET WELDED	B31.3	TEE	TEE	N/A	SOCKET WELDED 3000#	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL- API 602 FIG. GA08SA58GB-S	N	HORIZONTAL SWING CHECK (SOCKET-WELDED-800#)POWELL-API 602 PC08SA58GB	GLOBE VALVE (SOCKET-WELD-RISING STEM-150#)POWELL- API 602 FIG. GL01	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	#600- KECKLEY- CAST CARBON STEEL Y-STRAINER- STYLE SB-78C- SOCKET WELD BOLTED COVER
EQUIPMENT AIR	EA100	55	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	150#	BALL VALVE (2 PC PRESS) NIBCO PC585-70-66	N	N/A		N/A	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	N/A
EQUIPMENT AIR	EA100	55	150#	ABOVEGROUND	MECH	2-1/2"	COPPER-TYPE_L-HARD	4"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	150#	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	N	SPRING CHECK (FLANGED – 150# - LF) NIBCO F-910-W-LF		N/A	N/A	GATE VALVE (SOCKET-WELD-RISING STEM-800#)POWELL GA08SA58GB-S	NIBCO F-721-A
EQUIPMENT AIR	EA100	7	150#	ABOVEGROUND	MECH	6"	COPPER-TYPE_L-HARD	6"	BRAZED 15%	BRAZED 15%	N/A	TEE	TEE	N/A	150#	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	STANDARD	SPRING CHECK (FLANGED – 150# - LF) NIBCO F-910-W-LF		N/A	N/A		
VACUUM	VAC	55	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	150#	BALL VALVE (2 PC PRESS) NIBCO PC585-70-66	N	HORIZONTAL SWING CHECK(SOLDERED-125#)NIBCO S-413-B		N/A	N/A	PC-585-66-LF-HC	NIBCO S-221-A
VACUUM	VAC	55	150#	ABOVEGROUND	MECH	2-1/2"	COPPER-TYPE_L-HARD	4"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	150#	BUTTERFLY VALVE (FLANGED - 150#) NIBCO LD2000	N	SPRING CHECK (FLANGED – 150# - LF) NIBCO F-910-W-LF		N/A	N/A	PC-585-66-LF-HC	NIBCO F-721-A
VACUUM (PRODUCTION AREAS)	VAC	38	150#	ABOVEGROUND	MECH	1/2"	SS-A312-SCH 10 ANSI/NSF-61	2"	COMPRESSION FITTINGS	COMPRESSION FITTINGS					TYCO GRINNELL SERIES 466	BALL VALVE (TYCO GRINNELL SERIES 469)		HORIZONTAL SWING CHECK(THREADED) POWELL #560	GLOBE VALVE (THREADED) POWELL #150				
MAKE UP WATER	MU	55	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	PRESS (CTS)	BALL VALVE (2 PC PRESS) NIBCO PC585-70-66	Y	HORIZONTAL SWING CHECK(SOLDERED-125#)NIBCO S-413-B		B&G SOLDERED CALIBRATED BALANCING VALVE - LF	BALL VALVE (2 PC SOLDERED) NIBCO S585-70-66-HC	PC-585-66-LF-HC	NIBCO S-221-A
EQUIPMENT CONDENSATE	EC	7	150#	ABOVEGROUND	MECH	1/2"	COPPER-TYPE_L-HARD	2"	PRESS FITTINGS	PRESS FITTINGS	N/A	TEE	TEE	N/A	N/A	N/A	Y	N/A		N/A	N/A	N/A	N/A
CHILLED WATER (TRANSITIONING OPTIONS)	CHWR/CWHS	6,7	150#	ABOVEGROUND	MECH	1/2"	CS-A53-STD ERW GRADE B	2"	THREADED	THREADED		TEE	TEE	ANVIL NO459 - UNION 300# MALLEABLE IRON FPT 300STANDARD									
HEATING HOT WATER (TRANSITIONING OPTIONS)	HHWR/HHWS	6,7	150#	ABOVEGROUND	MECH	1/2"	CS-A53-STD ERW GRADE B	2"	THREADED	THREADED		TEE	TEE	ANVIL NO459 - UNION 300# MALLEABLE IRON FPT 300STANDARD									
REFRIGERANT PIPING	RD/RL	14	150#	ABOVEGROUND	MECH	1/4"	COPPER-TYPE_K-HARD-ACR	3"	BRAZED 15%	BRAZED 15%		TEE	TEE										

NOTES:

1. CHAIN OPERATOR WHERE LADDER OR LIFT REQUIRED. ALSO 6" & UP TO BE GEAR OPERATED.

INSULATION SCHEDULE - DUCTWORK

SERVICE	LOCATION	SYSTEMS	TYPE	THICKNESS	COMMENTS
SUPPLY AIR	INDOORS EXPOSED IN MECHANICAL ROOM FROM 8'-0" ABOVE FINISHED FLOOR, OR INDOORS, CONCEALED ABOVE CEILING	AHU-4900 THRU 4907, AHU-4910, AHU-4911, AHU-5900 FCU-4941A THRU 4941C, FCU-4950 THRU 4953, FCU-4955 THRU 4958, FCU-5901A THRU 5901H, FCU-5901J THRU 5901N, FCU-5901P THRU 5901J	BLANKET	2"	
	INDOORS EXPOSED IN MECHANICAL ROOM OR PROCESS SPACES TO 8'-0" ABOVE FINISHED FLOOR	AHU-4900 THRU 4907, AHU-4910, AHU-4911, AHU-5900 FCU-4941A THRU 4941C, FCU-4950 THRU 4953, FCU-4955 THRU 4958	BOARD	2"	
RETURN AIR	ALL	AHU-4900 THRU 4907, AHU-4910, AHU-4911, AHU-5900 FCU-4941A THRU 4941C, FCU-4950 THRU 4953, FCU-4955 THRU 4958, FCU-5901A THRU 5901H, FCU-5901J THRU 5901N, FCU-5901P THRU 5901J	NONE		
OUTDOOR AIR	INDOORS EXPOSED IN MECHANICAL ROOM FROM 8'-0" ABOVE FINISHED FLOOR	AHU-4900, AHU-5900	BLANKET	4"	
REGEN EXHAUST AIR	INDOORS EXPOSED IN MECHANICAL ROOM TO 8'-0" ABOVE FINISHED FLOOR	AHU-4911	BOARD	1"	PERSONNEL PROTECTION

INSULATION SCHEDULE - PIPING

SERVICE	LINE SIZE	LOCATION	SPEC	MATERIAL	THICKNESS	COMMENTS
CHILLED WATER	≤1-1/2"	INDOORS	107	FIBERGLASS	1-1/2"	WITH ALL-SERVICE JACKET
	≥2"					
HEATING HOT WATER	≤1-1/2"	INDOORS	101	FIBERGLASS	1-1/2"	WITH ALL-SERVICE JACKET
	≥2"				2"	
STEAM & CONDENSATE	≤3"	INDOORS	101	FIBERGLASS	3"	WITH ALL-SERVICE JACKET
	≥4"				4"	

INSULATION SCHEDULE - EQUIPMENT

SERVICE	TAG #	LOCATION	MATERIAL	THICKNESS	COMENTS
STEAM-WDH CONVERTER	WH-4610	PENTHOUSE	MINERAL FIBER	2"	
CONDENSATE PUMP SKID	X-4620A	PENTHOUSE	MINERAL FIBER	2"	
DWH RETURN PUMP	P-4610A	PENTHOUSE	MINERAL FIBER	2"	
DWH EXP TANK	-	PENTHOUSE	MINERAL FIBER	1"	

NOTES:

1. INSULATION & FITTINGS SHALL BE JOHNS MANVILLE SPIN GLASS 800 RIGID FIBERGLASS BOARD.
2. COVERINGS SHALL BE JOHNS MANVILLE MICRO FLEX PIPE AND TANK WRAP.
3. TAPE SHALL BE VENTURE TAPE 1540CW ASJ TAPE.
4. VAPOR BARRIER SHALL BE DP WATER BASED VAPOR BARRIER

BG&H

KIRLIN WAY

HIPP DESIGN + CONSULTING

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

MECHANICAL SERVICE AND INSULATION INDEX

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
/0\		ISSUED FOR CONSTRUCTION		08-FEB-2023

REVISIONS

CONFIDENTIAL INFORMATION

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR:
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE
CRITICAL BUSINESS: NO	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MJ-00000002	
NON-CRITICAL: YES	ENGINEERING AGENCY DOC ID		

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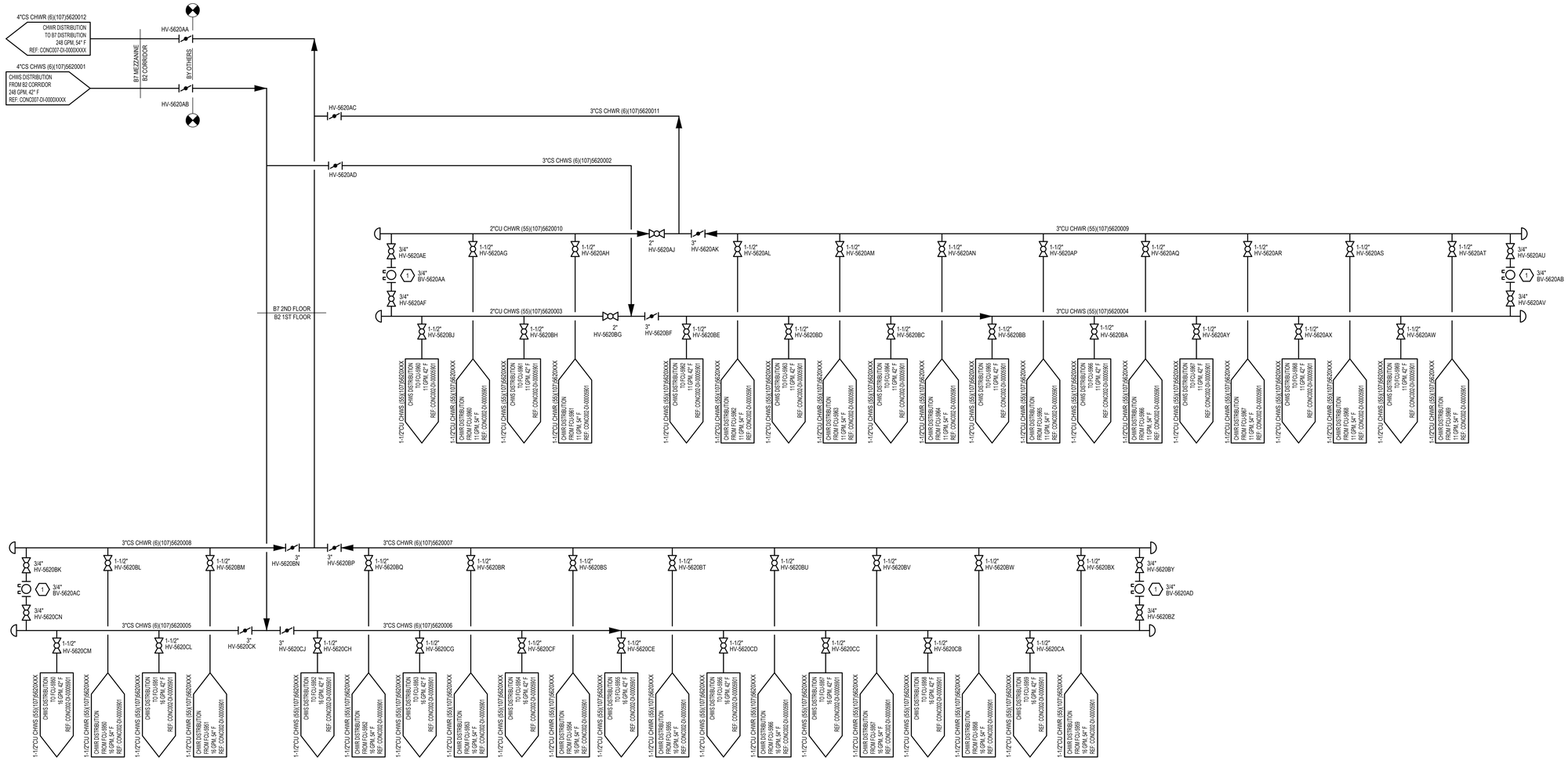
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KEY NOTES

1. 3/4" FLOW CONTROL VALVE (GRISWOLD 1 GPM)



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LILLY ELECTRONIC SIGNATURES

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING
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RALEIGH, NC 27607
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NC FIRM LICENSE #: C-3148
WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEAL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

CHILLED WATER DISTRIBUTION P&ID - B2

ZONE	DESCRIPTION	CHANGE CONTROL	DATE
1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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SYSTEM TYPE	CONC002
SUB-DISCIPLINE / LOCATION CODE	DI / CONC
LOCATION/GRID	N/A
LEVEL/FLOOR	YELLOW
PROJECT NAME	CONC-300-6068
CRITICAL QUALITY	NO
ENTERPRISE GROUP	UTILITIES
DRAWING INTENTION	
DRAWING SCALE	NTS
CRITICAL BUSINESS	YES
EQUIPMENT CLASSIFICATION	
ALTERNATE DOCUMENT ID	
MERIDIAN REV.	
CRITICAL USE	NO
VENDOR	
DOCUMENT ID	CONC002-DI-00005620
NON-CRITICAL	NO
ENGINEERING AGENCY DOC ID	

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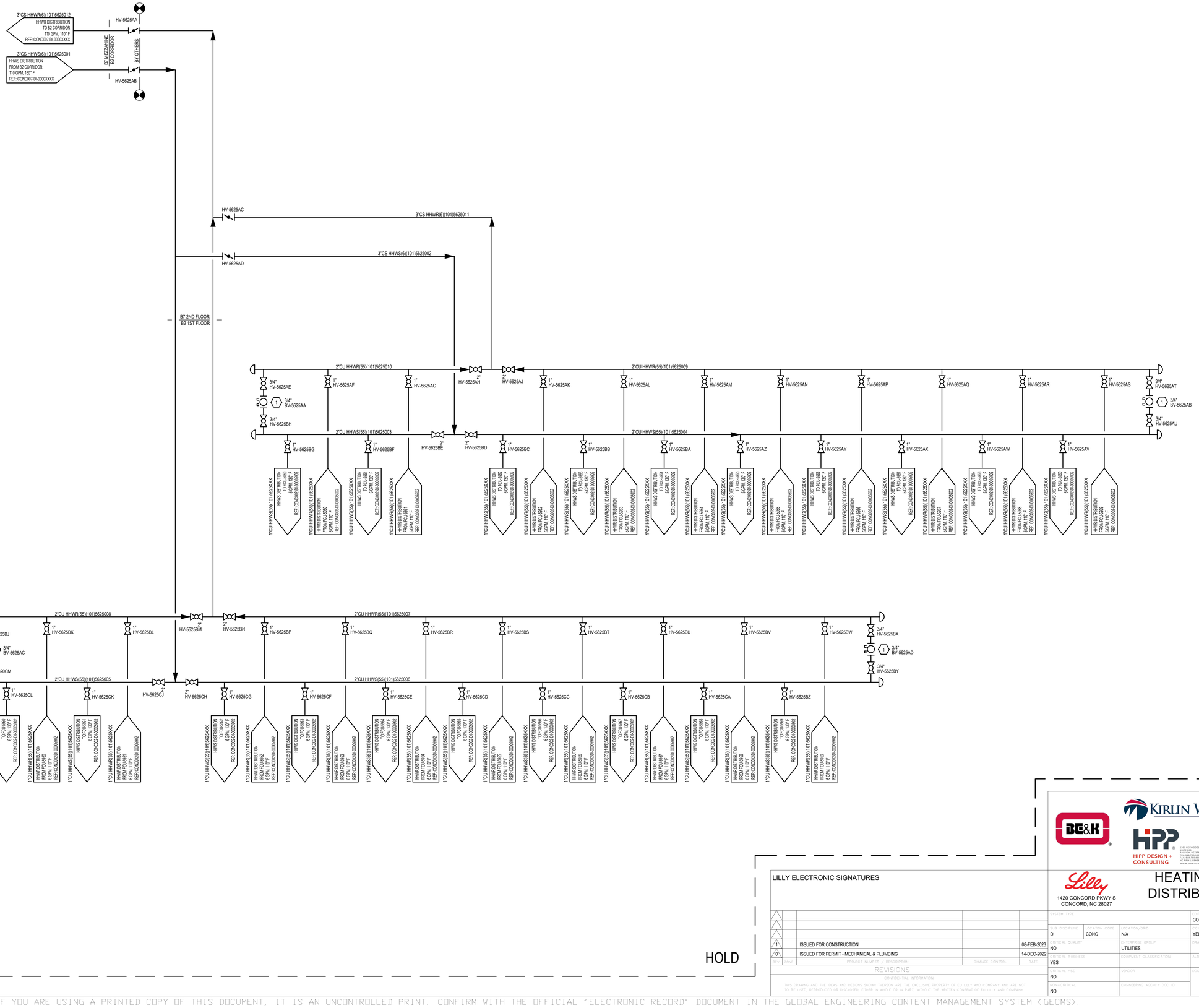
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KEY NOTES

1. 3/4" FLOW CONTROL VALVE (GRISWOLD 1 GPM)



LILLY ELECTRONIC SIGNATURES

1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022
REV	ZONE / PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE

REVISIONS

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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HEATING HOT WATER DISTRIBUTION P&ID - B2

SYSTEM TYPE: CONC002			LEVEL/FLOOR:
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	ECC CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO	CONSTRUCTION GROUP: UTILITIES	DRAWING INTENTION:	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	MERRIMAC REV:
CRITICAL ASE: NO	VENDOR:	DOCUMENT ID: CONC002-DI-00005625	
CRITICAL: NO	ENGINEERING AGENCY DOC ID:		

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EQUIPMENT AIR 100 PSIG
FROM 2ND FLOOR BUILDING 4
569 SCFM (1534 SCFM FUTURE)
REF: CONC004-DI-00004606

4" CU EA100(55)(N/A)4606011

GENERAL NOTES

1. MAIN HEADER VALVES USED TO ISOLATE THE LOOP SECTIONS FOR MAINTENANCE. QUANTITY TO BE DETERMINED.
2. COMPRESSED AIR DROPS ARE ONLY BEING SUPPLIED FOR RBA WET, RBA PACKAGING AND B3 WET. ALL OTHER LOCATIONS ARE NOT DROPS, THEY ARE FUTURE VALVES IN THE CEILING SPACE ABOVE.
3. EACH BRANCH OF PIPING FOR A DROP SHOULD HAVE A BALL VALVE AT THE BRANCH FOR ISOLATION. ALL COMPRESSED AIR PIPING ABOVE THE CEILING SHALL BE TYPE L COPPER WITH SOLDER FITTINGS PER THE "CDR" SPECIFICATION. A TRANSITION FROM COPPER TO STAINLESS STEEL SHALL BE MADE ABOVE THE CEILING. STAINLESS STEEL PIPING SHOULD DROP THROUGH THE CEILING INTO THE CLEAN SPACE. A THREADED FNPT STAINLESS STEEL END CONNECTION SHALL BE PROVIDED AT TERMINATION AT ABOUT 5 FT AFF. PIPING SHOULD BE SUPPORTED AT THE FLOOR LEVEL.

KEY NOTES

1. DROP DOWN TO EQUIPMENT. USE GENERAL NOTE 3 FOR GUIDANCE.
2. FUTURE EQUIPMENT NOT IN CURRENT SCOPE. INSTALL BRANCH ISOLATION VALVE AND CAP ABOVE CEILING.
3. COMPRESSED AIR SERVICE TO POLYFEED SYSTEM TO BE CONFIRMED WITH APPROVED OWNER EQUIPMENT DRAWINGS.

HV-4605AG → HV-4605AA — 2" CU EA100(55)(N/A)4605001

- 1" HV-4605AF — EQPT R10 WET FINAL THU — PEAK USAGE RATE: 29 SCFM @ 87 PSI
- 1" HV-4605AE — EQPT R10 WET BODY LOWER AND RNS PULLER LOADING — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605AD — EQPT R10 WET RETRACTION LOADING — PEAK USAGE RATE: 65 SCFM @ 87 PSI
- 1" HV-4605AC — EQPT R10 WET RETRACTION THU — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605AB — EQPT R10 WET SYRINGE DENNESTER — PEAK USAGE RATE: 21 SCFM @ 87 PSI

FUTURE SCOPE (2)

HV-4605BG → HV-4605BA — 2" CU EA100(55)(N/A)4605002

- 1" HV-4605BF — EQPT R9 WET FINAL THU — PEAK USAGE RATE: 29 SCFM @ 87 PSI
- 1" HV-4605BE — EQPT R9 WET BODY LOWER AND RNS PULLER LOADING — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605BD — EQPT R9 WET RETRACTION LOADING — PEAK USAGE RATE: 65 SCFM @ 87 PSI
- 1" HV-4605BC — EQPT R9 WET RETRACTION THU — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605BB — EQPT R9 WET SYRINGE DENNESTER — PEAK USAGE RATE: 21 SCFM @ 87 PSI

FUTURE SCOPE (2)

HV-4605CG → HV-4605CA — 2" CU EA100(55)(N/A)4605003

- 1" HV-4605CF (1) — EQPT R8 WET FINAL THU — PEAK USAGE RATE: 29 SCFM @ 87 PSI
- 1" HV-4605CE (1) — EQPT R8 WET BODY LOWER AND RNS PULLER LOADING — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605CD (1) — EQPT R8 WET RETRACTION LOADING — PEAK USAGE RATE: 65 SCFM @ 87 PSI
- 1" HV-4605CC (1) — EQPT R8 WET RETRACTION THU — PEAK USAGE RATE: 35 SCFM @ 87 PSI
- 1" HV-4605CB (1) — EQPT R8 WET SYRINGE DENNESTER — PEAK USAGE RATE: 21 SCFM @ 87 PSI

HV-4605DM → HV-4605DA — 2" CU EA100(55)(N/A)4605004

- 3/4" HV-4605DL (1) — VALVE FOR TEST STATION IN B3 WET
- 1" HV-4605DK (1) — EQPT B3 WET TRAY HANDLER 1 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DJ (1) — EQPT B3 WET CELL 1 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DH (1) — EQPT B3 WET TRAY HANDLER 2 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DG (1) — EQPT B3 WET TRAY HANDLER 3 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DF (1) — EQPT B3 WET CELL 2 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DE (1) — EQPT B3 WET TRAY HANDLER 4 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DD (1) — EQPT B3 WET CELL 3 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DC (1) — EQPT B3 WET CELL 4 — PEAK USAGE RATE: 20 SCFM @ 90 PSI
- 1" HV-4605DB (1) — EQPT B3 WET TRAY HANDLER 5 — PEAK USAGE RATE: 20 SCFM @ 90 PSI

(3)

HV-4605EM → HV-4605EA — 2" CU EA100(55)(N/A)4605005

- 1" HV-4605EL (1) — EQPT R8A TRAY UNLOADER — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 3/4" HV-4605EK (1) — EQPT R8A LABELER — PEAK USAGE RATE: 1 CFM @ 70 PSI
- 1" HV-4605EJ (1) — EQPT R8A ACCUMULATOR — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 1" HV-4605EH (1) — EQPT R8A CARTONER — PEAK USAGE RATE: 14.5 CFM @ 87 PSI
- 3/4" HV-4605EG (1) — EQPT R8A LIT LOADING STN 300 — PEAK USAGE RATE: 13.4 SCFM
- 3/4" HV-4605EF (1) — EQPT R8A LIT LOADING STN 200 — PEAK USAGE RATE: 13.4 SCFM
- 3/4" HV-4605EE (1) — EQPT R8A LIT LOADING STN 100 — PEAK USAGE RATE: 108.4 SCFM
- 3/4" HV-4605ED (1) — EQPT R8A CHECK WEIGHER — PEAK USAGE RATE: 2 CFM @ 87 PSI
- 3/4" HV-4605EC (1) — EQPT R8A CASE PACKER — PEAK USAGE RATE: 5 CFM @ 87 PSI
- 3/4" HV-4605EB (1) — EQPT R8A CENTRAL PALLETIZER — PEAK USAGE RATE: 1 CFM @ 90 PSI

HV-4605FM → HV-4605FA — 2" CU EA100(55)(N/A)4605006

- 3/4" HV-4605FL — EQPT R8B CENTRAL PALLETIZER — PEAK USAGE RATE: 1 CFM @ 90 PSI
- 3/4" HV-4605FK — EQPT R8B CASE PACKER — PEAK USAGE RATE: 5 CFM @ 87 PSI
- 3/4" HV-4605FJ — EQPT R8B CHECK WEIGHER — PEAK USAGE RATE: 2 CFM @ 87 PSI
- 3/4" HV-4605FH — EQPT R8B LIT LOADING STN 100 — PEAK USAGE RATE: 108.4 SCFM
- 3/4" HV-4605FG — EQPT R8B LIT LOADING STN 200 — PEAK USAGE RATE: 13.4 SCFM
- 3/4" HV-4605FF — EQPT R8B LIT LOADING STN 300 — PEAK USAGE RATE: 13.4 SCFM
- 1" HV-4605FE — EQPT R8B CARTONER — PEAK USAGE RATE: 14.5 CFM @ 87 PSI
- 1" HV-4605FD — EQPT R8B ACCUMULATOR — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 3/4" HV-4605FC — EQPT R8B LABELER — PEAK USAGE RATE: 1 CFM @ 70 PSI
- 1" HV-4605FB — EQPT R8B TRAY UNLOADER — PEAK USAGE RATE: 20 CFM @ 70 PSI

FUTURE SCOPE (2)

HV-4605GJ → HV-4605GA — 2" CU EA100(55)(N/A)4605007

- 1" HV-4605GH — EQPT R10A TRAY UNLOADER — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 3/4" HV-4605GG — EQPT R10A LABELER — PEAK USAGE RATE: 1 CFM @ 70 PSI
- 1" HV-4605GF — EQPT R10A ACCUMULATOR — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 1" HV-4605GE — EQPT R10A CARTONER — PEAK USAGE RATE: 14.5 CFM @ 87 PSI
- 3/4" HV-4605GD — EQPT R10A CHECK WEIGHER — PEAK USAGE RATE: 2 CFM @ 87 PSI
- 3/4" HV-4605GC — EQPT R10A CASE PACKER — PEAK USAGE RATE: 5 CFM @ 87 PSI
- 3/4" HV-4605GB — EQPT R10A CENTRAL PALLETIZER — PEAK USAGE RATE: 1 CFM @ 90 PSI

FUTURE SCOPE (2)

HV-4605HJ → HV-4605HA → HV-4605MH — 2" CU EA100(55)(N/A)4605008

- 3/4" HV-4605HH — EQPT R10B CENTRAL PALLETIZER — PEAK USAGE RATE: 1 CFM @ 90 PSI
- 3/4" HV-4605HG — EQPT R10B CASE PACKER — PEAK USAGE RATE: 5 CFM @ 87 PSI
- 3/4" HV-4605HF — EQPT R10B CHECK WEIGHER — PEAK USAGE RATE: 2 CFM @ 87 PSI
- 1" HV-4605HE — EQPT R10B CARTONER — PEAK USAGE RATE: 14.5 CFM @ 87 PSI
- 1" HV-4605HD — EQPT R10B ACCUMULATOR — PEAK USAGE RATE: 20 CFM @ 70 PSI
- 3/4" HV-4605HC — EQPT R10B LABELER — PEAK USAGE RATE: 1 CFM @ 70 PSI
- 1" HV-4605HB — EQPT R10B TRAY UNLOADER — PEAK USAGE RATE: 20 CFM @ 70 PSI

FUTURE SCOPE (2)

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NORTH CAROLINA LICENSED ENGINEER ALEXANDER D. STONE

08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

EQUIPMENT AIR DISTRIBUTION P&ID - B4 -1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

SYSTEM TYPE		PROJECT NUMBERING	LEVEL/FLOOR
		CONC004	
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	PURPOSE GROUP: CDAP	DRAWING INTENTION:	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	VERSION REV:
CRITICAL RISK: NO	VENDOR:	DOCUMENT ID: CONC004-DI-00004605	
HYPERCRITICAL: NO	ENGINEERING AGENCY DOC ID:		

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GENERAL NOTES

1. MAIN HEADER VALVES USED TO ISOLATE THE LOOP SECTIONS FOR MAINTENANCE. QUANTITY TO BE DETERMINED.
2. COMPRESSED AIR DROPS ARE ONLY BEING SUPPLIED FOR R8A WET AND R8A PACKAGING. ALL OTHER LOCATIONS ARE NOT DROPS, THEY ARE FUTURE VALVES IN THE CEILING SPACE ABOVE.
3. EACH BRANCH OF PIPING FOR A DROP SHOULD HAVE A BALL VALVE AT THE BRANCH FOR ISOLATION. ALL COMPRESSED AIR PIPING ABOVE THE CEILING SHALL BE TYPE L COPPER WITH SOLDER FITTINGS PER THE "CDR" SPECIFICATION. A TRANSITION FROM COPPER TO STAINLESS STEEL SHALL BE MADE ABOVE THE CEILING. STAINLESS STEEL PIPING SHOULD DROP THROUGH THE CEILING INTO THE CLEAN SPACE. A THREADED FNPT STAINLESS STEEL END CONNECTION SHALL BE PROVIDED AT TERMINATION AT ABOUT 5 FT AFF. PIPING SHOULD BE SUPPORTED AT THE FLOOR LEVEL.

KEY NOTES

1. DROP DOWN TO EQUIPMENT. USE GENERAL NOTE 3 FOR GUIDANCE.
2. FUTURE EQUIPMENT NOT IN CURRENT SCOPE. INSTALL BRANCH ISOLATION VALVE AND CAP ABOVE CEILING.
3. 3/8" OD TUBING, 1/4" FNPT CONNECTION IF FITTING IS REMOVED.
4. P1 = UMS004 (BUILDING 4 UMS PLC). REMOTE I/O PANEL LOCATED IN BUILDING 4 PENTHOUSE. WITH CONNECTION BACK TO CENTRAL UTILITY PLANT PLC.

6" SS A100(55)(N/A)0003XXX
COMPRESSED AIR 100 PSIG
FROM EXISTING HEADER (BLDG 2)
647 SCFM (2759 SCFM FUTURE)
REF: CONC002-MP-00000003

6"-SS-A100

B2 PIPE RACK
B4 PENTHOUSE

6"-CU-EA100

HV-4606MA

CV-4606MA

FIT 4606YA — 4000 SCFM

AI P1 — 4

FE 4606YA

PIT 4606YA

AI P1 — 4

HV-4606YA 1/2"

6" CU EA100(55)(N/A)4606001

HV-4606MB 1-1/2"

1-1/2" CU EA100(55)(N/A)4606002

EQUIPMENT AIR 100 PSIG
TO CONDENSATE RETURN UNIT
9 SCFM
REF: CONC004-DI-00004620

HV-4606MG 6"

B4 PENTHOUSE
B4 2ND FLOOR

B4 PENTHOUSE
B4 1ST FLOOR

HV-4606MC 4"

HV-4606MF 4"

4" CU EA100(55)(N/A)4606011

EQUIPMENT AIR 100 PSIG
TO 1ST FLOOR BUILDING 4
985 SCFM (1534 SCFM FUTURE)
REF: CONC004-DI-00004605

HV-4606AP 2"

2" CU EA100(55)(N/A)4606004

HV-4606CH 2"

1" HV-4606AN — EQPT R10 WET CENTRAL TOTE HANDLING UNIT PEAK USAGE RATE: 24 SCFM @ 87 PSI
1" HV-4606AM — EQPT R10 WET BODY LOWER PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606AL — EQPT R10 WET RETRACTION PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606AK — EQPT R10 WET PFS PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606AJ — EQPT R10 WET DRIVE PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI

FUTURE SCOPE 2

HV-4606BP 2"

2" CU EA100(55)(N/A)4606005

HV-4606BH 2"

4" CU EA100 (55)(N/A)4606003

1" HV-4606BN — EQPT R9 WET CENTRAL TOTE HANDLING UNIT PEAK USAGE RATE: 24 SCFM @ 87 PSI
1" HV-4606BM — EQPT R9 WET BODY LOWER PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606BL — EQPT R9 WET RETRACTION PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606BK — EQPT R9 WET PFS PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606BJ — EQPT R9 WET DRIVE PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI

FUTURE SCOPE 2

HV-4606CP 2"

2" CU EA100(55)(N/A)4606006

HV-4606CH 2"

1" HV-4606CN — EQPT R8 WET CENTRAL TOTE HANDLING UNIT PEAK USAGE RATE: 24 SCFM @ 87 PSI
1" HV-4606CM — EQPT R8 WET BODY LOWER PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606CL — EQPT R8 WET RETRACTION PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606CK — EQPT R8 WET PFS PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI
1" HV-4606CJ — EQPT R8 WET DRIVE PALLETIZER PEAK USAGE RATE: 12 SCFM @ 87 PSI

HV-4606MD 2"

2" CU EA100(55)(N/A)4606007

B4 2ND FLOOR
B6 2ND FLOOR

EQUIPMENT AIR 100 PSIG
TO 2ND FLOOR BUILDING 6
255 SCFM (287 SCFM FUTURE)
REF: CONC006-DI-00004681

HV-4606JU 2"

2" CU EA100(55)(N/A)4606008

HV-4606JA 2"

1" HV-4606JH — EQPT R9A TRAY UNLOADER PEAK USAGE RATE: 20 CFM @ 70 PSI
3/4" HV-4606JG — EQPT R9A LABELER PEAK USAGE RATE: 1 CFM @ 70 PSI
1" HV-4606JF — EQPT R9A ACCUMULATOR PEAK USAGE RATE: 20 CFM @ 70 PSI
1" HV-4606JE — EQPT R9A CARTONER PEAK USAGE RATE: 14.5 CFM @ 87 PSI
3/4" HV-4606JD — EQPT R9A CHECK WEIGHER PEAK USAGE RATE: 2 CFM @ 87 PSI
3/4" HV-4606JC — EQPT R9A CASE PACKER PEAK USAGE RATE: 5 CFM @ 87 PSI
3/4" HV-4606JB — EQPT R9A CENTRAL PALLETIZER PEAK USAGE RATE: 1 CFM @ 90 PSI

FUTURE SCOPE 2

HV-4606KJ 2"

2" CU EA100(55)(N/A)4606009

HV-4606KA 2"

3/4" HV-4606KH — EQPT R9B CENTRAL PALLETIZER PEAK USAGE RATE: 1 CFM @ 90 PSI
3/4" HV-4606KG — EQPT R9B CASE PACKER PEAK USAGE RATE: 5 CFM @ 87 PSI
3/4" HV-4606KF — EQPT R9B CHECK WEIGHER PEAK USAGE RATE: 2 CFM @ 87 PSI
1" HV-4606KE — EQPT R9B CARTONER PEAK USAGE RATE: 14.5 CFM @ 87 PSI
1" HV-4606KD — EQPT R9B ACCUMULATOR PEAK USAGE RATE: 20 CFM @ 70 PSI
3/4" HV-4606KC — EQPT R9B LABELER PEAK USAGE RATE: 1 CFM @ 70 PSI
1" HV-4606KB — EQPT R9B TRAY UNLOADER PEAK USAGE RATE: 20 CFM @ 70 PSI

FUTURE SCOPE 2

HV-4606LH 1-1/2"

1-1/2" CU EA100(55)(N/A)4606010

HV-4606LA 1 1/2"

4" HV-4606ME

1" HV-4606LG — VALVE FOR FUTURE
1" HV-4606LF — VALVE FOR FUTURE
1" HV-4606LE — EQPT PACK 2 PEAK USAGE RATE: 200 SCFM
1" HV-4606LD — EQPT PACK 1 PEAK USAGE RATE: 200 SCFM
1" HV-4606LC — EQPT VIAL PEAK USAGE RATE: 200 SCFM
3/8" HV-4606LB — RETRACTABLE CONVEYOR PEAK USAGE RATE: 1 CFM @ 80 PSI

FUTURE SCOPE 2

BG&K

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NC FIRM LICENSE # C-3146
www.HIPP-USA.com

NORTH CAROLINA — 049954 — PROFESSIONAL ENGINEER — ALEXANDER D. SMITH

08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

EQUIPMENT AIR DISTRIBUTION P&ID - B4 - 2ND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

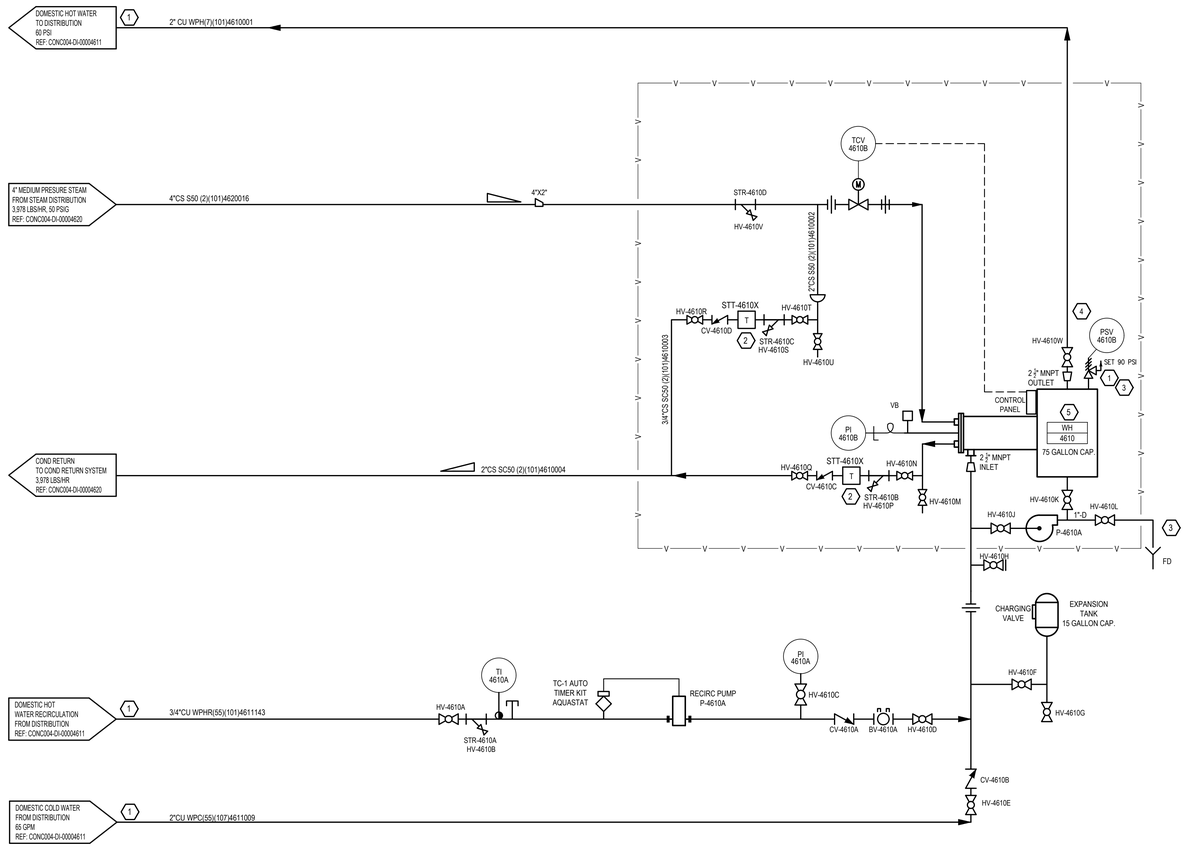
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	COLOR: YELLOW
DRAWING QUALITY: NO	DRAWING GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERTHAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-DI-00004606	
CRITICAL: NO	ENGINEERING AGENCY DOC ID		

P:\Greenville Projects\G22131 - Eli Lilly - Project Concord\Drawings\Mechanical\CONC004-DI-00004606 EQUIPMENT AIR DISTRIBUTION P&ID - B4 - 2ND FLOOR.dwg

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KEY NOTES

1. PIPE SPEC 007: USE VIEGA PRESS FIT JOINTS AND FITTINGS IN LIEU OF GROOVED.
2. STEAM TRAP SIZING BASED ON SUPERVISED START-UP.
3. PIPE ALL RELIEF VALVES AND DRIP LEGS TO FLOOR DRAIN.
4. TEMPERATURE OF CIRCULATED WATER SHALL BE ADJUSTABLE AND ADJUSTED TO NO GREATER THAN 140 DEG F.
5. MOUNT UNIT ON ELEVATED STAND TO ALLOW GRAVITY DRAINAGE OF CONDENSATE TO RETURN PUMP UNIT. COORDINATE WITH ELEVATION OF CONDENSATE RETURN UNIT.

DOMESTIC HOT WATER HEATER SPECIFICATION NOTES:

STAINLESS STEEL SEMI-INSTANTANEOUS PACKAGED STEAM WATER HEATER SHALL BE CEMLINE SERIES "SSH" FACTORY ASSEMBLED & PACKAGED, RATED TO HEAT SPECIFIC GPM OF WATER FROM 40° TO 140°F, TEMP. RISE & CONTROL THE OUTLET WITHIN 5° OF THE SELECTED TEMP. WHEN SUPPLIED W/ 50 PSIG SATURATED STEAM BEFORE THE CONTROL VALVE, THE PACKAGED WATER HEATER SHALL BE CONSTRUCTED WITH A 316L STAINLESS STEEL TANK, W/ STAINLESS STEEL THREADED OPENINGS, COPPER COIL, ¾" TUBES, COPPER LINED TUBE SHEET & FABRICATED STEEL STEAM CHAMBER.

HEATER SHALL BE MOUNTED ON A STEEL SUPPORT SKID & SHALL HAVE LIFTING LUGS. HEATER SHALL BE INSULATED & PROTECTED BY AN ENAMELED METAL JACKET, 20 GAUGE MIN. THICKNESS. HEATER SHALL BE FACTORY ASSEMBLED AND PIPED INCLUDING:

1. INCOMING STEAM STRAINER, PILOT- OPERATED TEMP. REGULATOR, MAIN & AUXILIARY FLOAT AND THERMOSTATIC STEAM TRAPS.
2. COIL SHALL BE BAFFLED & SHALL HAVE AN INTEGRAL BRONZE VALVED CIRCULATOR WITH SHUT OFF VALVES TO CIRCULATE THE WATER ACROSS THE COIL.
3. HEATER SHALL BE FURNISHED WITH A.S.M.E. PRESSURE TEMPERATURE RELIEF VALVE OF SUFFICIENT SIZE TO RELIEVE TOTAL BTU INPUT OF THE COIL, WATER THERMOMETER, WATER PRESSURE GAUGE, AND STEAM PRESSURE GAUGE.
4. MANUFACTURER SHALL ASSUME RESPONSIBILITY FOR CORRECT SIZING OF COMPONENTS TO ASSURE PERFORMANCE DESIGNATED IN DESIGN CRITERIA.
5. HEATER SHALL BE CEMLINE CORP. MODEL NO. 4SSSH830.
6. RECIRCULATION PUMP P-4610A. SEE SCHEDULE ON DRAWING CONC004-DR-00000600.

BE&K

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NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

DOMESTIC HOT WATER GENERATION P&ID - B4

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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SYSTEM TYPE		ENVELOPE/BUILDING	LEVEL/FLOOR
		CONC004	
DSR DISCIPLINE	DESIGN CODE	PLAN/ISO/GRID	
DI	CONC	N/A	YELLOW
CONC-300-6070			
CRITICAL QUALITY	ENTERPRISE GROUP	DRAWING INTENTION	PRINTING SCALE
NO	CDAP		NTS
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES			
CRITICAL HSE	VENDOR	DOCUMENT ID	
NO		CONC004-DI-00004610	
NON-CRITICAL	ENGINEERING AGENCY DOC ID		
NO			

p:\greenville projects\g22131 - eli lilly - project concord\Drawings\Plumbing\CONC004-DI-00004610 DOMESTIC HOT WATER GENERATION P&ID - B4.dwg

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KEY NOTES

1. PLUMBING FIXTURE STOP VALVES ARE NOT SHOWN.
2. P1 = UMS004 (BUILDING 4 UMS PLC). REMOTE I/O PANEL LOCATED IN BUILDING 4 PENTHOUSE WITH CONNECTION BACK TO CENTRAL UTILITY PLANT PLC.
3. FUTURE STRUCTURE NOT IN CURRENT SCOPE.
4. GUARDIAN G6040 THERMOSTATIC MIXING VALVE. SEE PLUMBING SCHEDULES.

3"CU WPC(55)(107)4611001 DOMESTIC COLD WATER FROM BLDG 2 CORRIDOR REF: CONC002-MP-00000003

2"CU WPH(55)(101)4610001 DOMESTIC HOT WATER FROM GENERATION REF: CONC004-DI-00004610

3/4"CU WPHR(55)(101)4611142 DOMESTIC HOT WATER RECIRCULATION TO GENERATION REF: CONC004-DI-00004610

2"CU WPC(55)(107)4611009 DOMESTIC COLD WATER TO DOMESTIC HOT WATER GENERATION, 65 GPM REF:CONC004-DI-00004610

B2 PIPE RACK, B4 PENTHOUSE

BY OTHERS

HV-4611AA HV-4611AB HV-4611AC HV-4611AD HV-4611AE HV-4611AF HV-4611AG HV-4611AH HV-4611AJ HV-4611AK HV-4611AL HV-4611AM HV-4611AN HV-4611AP HV-4611AQ HV-4611AR HV-4611AS HV-4611AT HV-4611AU HV-4611AV HV-4611AW HV-4611AX HV-4611AY HV-4611AZ HV-4611BA HV-4611BB HV-4611BC HV-4611BD HV-4611BE HV-4611BF HV-4611BG HV-4611BH HV-4611BJ HV-4611BK HV-4611BL HV-4611BM HV-4611BN HV-4611BP HV-4611BQ HV-4611BR HV-4611BS HV-4611BT HV-4611BU HV-4611BV HV-4611BW HV-4611BX HV-4611BY HV-4611BZ HV-4611CA HV-4611CB HV-4611CC HV-4611CD HV-4611CE HV-4611CF HV-4611CG HV-4611CH HV-4611CJ HV-4611CK HV-4611CL HV-4611CM HV-4611CN HV-4611CP HV-4611CQ HV-4611CR HV-4611CS HV-4611CT HV-4611CU HV-4611CV HV-4611CW HV-4611CX HV-4611DA HV-4611DB HV-4611DC HV-4611DD HV-4611DE HV-4611DF HV-4611DG HV-4611DH HV-4611DJ HV-4611DK HV-4611DL HV-4611DM HV-4611DN HV-4611DP HV-4611DQ HV-4611DR HV-4611DS HV-4611DT HV-4611DU HV-4611DV HV-4611DW HV-4611DX HV-4611DY HV-4611DZ HV-4611EA HV-4611EB

1"CU WPC(55)(107)4611002 1"CU WPC(55)(107)4611004 3/4"CU WPC(55)(107)4611003 3/4"CU WPC(55)(107)4611005 3/4"CU WPC(55)(107)4611006 3/4"CU WPC(55)(107)4611007 3/4"CU WPC(55)(107)4611010 1/2"CU WPC(55)(107)4611011 1/2"CU WPC(55)(107)4611008 1/2"CU WPHR(55)(101)4611143 1/2"CU WPHR(55)(101)4611144 1/2"CU WPH(55)(101)4611092 1/2"CU WPH(55)(101)4611093 2"CU WPC(55)(107)4611039 1-1/2"CU WPH(55)(101)4611104 1-1/2"CU WPC(55)(107)4611028 1-1/2"CU WPC(55)(107)4611014 1-1/2"CU WPH(55)(101)4611096 1-1/2"CU WPH(55)(101)4611105 1-1/2"CU WPH(55)(101)4611109 1-1/2"CU WPH(55)(101)4611121 1-1/2"CU WPH(55)(101)4611126 1-1/2"CU WPH(55)(101)4611137 1-1/4"CU WPC(55)(107)4611051 1/2"CU WPHR(55)(101)4611141 1/2"CU WPHR(55)(101)4611138 3/4"CU WPH(55)(101)4611133 3/4"CU WPC(55)(107)4611080 3/4"CU WPC(55)(107)4611081 3/4"CU WPH(55)(101)4611094 3/4"CU WPC(55)(107)4611012 3/4"CU WPH(55)(101)4611095 3/4"CU WPC(55)(107)4611013 3/4"CU WPC(55)(107)4611029 3/4"CU WPC(55)(107)4611015 3/4"CU WPC(55)(107)4611018 3/4"CU WPH(55)(101)4611097 3/4"CU WPC(55)(107)4611020 3/4"CU WPH(55)(101)4611099 3/4"CU WPC(55)(107)4611022 3/4"CU WPC(55)(107)4611025 3/4"CU WPH(55)(101)4611101 3/4"CU WPC(55)(107)4611026 3/4"CU WPH(55)(101)4611102 3/4"CU WPC(55)(107)4611027 3/4"CU WPH(55)(101)4611103 3/4"CU WPC(55)(107)4611045 3/4"CU WPC(55)(107)4611046 3/4"CU WPC(55)(107)4611047 3/4"CU WPC(55)(107)4611048 3/4"CU WPC(55)(107)4611049 3/4"CU WPC(55)(107)4611050 3/4"CU WPH(55)(101)4611114 3/4"CU WPC(55)(107)4611041 3/4"CU WPC(55)(107)4611042 3/4"CU WPC(55)(107)4611043 3/4"CU WPC(55)(107)4611044 3/4"CU WPH(55)(101)4611110 3/4"CU WPH(55)(101)4611111 3/4"CU WPH(55)(101)4611112 3/4"CU WPH(55)(101)4611113 3/4"CU WPC(55)(107)4611064 3/4"CU WPC(55)(107)4611065 3/4"CU WPC(55)(107)4611066 3/4"CU WPC(55)(107)4611067 3/4"CU WPH(55)(101)4611122 3/4"CU WPH(55)(101)4611123 3/4"CU WPH(55)(101)4611124 3/4"CU WPH(55)(101)4611125 3/4"CU WPC(55)(107)4611082 3/4"CU WPC(55)(107)4611083 3/4"CU WPC(55)(107)4611084 3/4"CU WPC(55)(107)4611085 3/4"CU WPH(55)(101)4611134 3/4"CU WPH(55)(101)4611135 3/4"CU WPH(55)(101)4611136 1/2"CU WPC(55)(107)4611030 1/2"CU WPC(55)(107)4611031 1/2"CU WPC(55)(107)4611032 1/2"CU WPH(55)(101)4611106 1/2"CU WPH(55)(101)4611107 1/2"CU WPH(55)(101)4611108 1/2"CU WPH(55)(101)4611115 1/2"CU WPC(55)(107)4611057 1/2"CU WPH(55)(101)4611116 1/2"CU WPC(55)(107)4611056 1/2"CU WPH(55)(101)4611118 1/2"CU WPC(55)(107)4611054 1/2"CU WPH(55)(101)4611120 1/2"CU WPC(55)(107)4611053 1/2"CU WPH(55)(101)4611127 1/2"CU WPC(55)(107)4611079 1/2"CU WPH(55)(101)4611128 1/2"CU WPC(55)(107)4611078 1/2"CU WPH(55)(101)4611130 1/2"CU WPC(55)(107)4611076 1/2"CU WPH(55)(101)4611132 1/2"CU WPC(55)(107)4611075 1/2"CU WPC(55)(107)4611059 1/2"CU WPC(55)(107)4611060 1/2"CU WPC(55)(107)4611061 1/2"CU WPC(55)(107)4611062 1/2"CU WPC(55)(107)4611016 1/2"CU WPC(55)(107)4611017 1/2"CU WPH(55)(101)4611098 1/2"CU WPC(55)(107)4611019 1/2"CU WPC(55)(107)4611021 1/2"CU WPH(55)(101)4611100 1/2"CU WPC(55)(107)4611023 1/2"CU WPC(55)(107)4611024 1/2"CU WPC(55)(107)4611039 1/2"CU WPH(55)(101)4611139 1/2"CU WPC(55)(107)4611068 1/2"CU WPC(55)(107)4611069 1/2"CU WPC(55)(107)4611070 1/2"CU WPC(55)(107)4611071 1/2"CU WPC(55)(107)4611072 1/2"CU WPC(55)(107)4611073 1/2"CU WPC(55)(107)4611086 1/2"CU WPC(55)(107)4611087 1/2"CU WPC(55)(107)4611088 1/2"CU WPC(55)(107)4611089 1/2"CU WPC(55)(107)4611090 1/2"CU WPC(55)(107)4611091 1/2"CU WPH(55)(101)4611142 1/2"CU WPHR(55)(101)4611143 1/2"CU WPHR(55)(101)4611144 1/2" (TYP.) 1/2" WPHR

WHA-4611AA WHA-4611AB WHA-4611AC WHA-4611AE WHA-4611AG WHA-4611AH WHA-4611AJ WHA-4611AK WHA-4611AL WHA-4611AM WHA-4611AN WHA-4611AP WHA-4611AQ WHA-4611AT WHA-4611AU WHA-4611AV WHA-4611AW WHA-4611AX WHA-4611AY WHA-4611BH WHA-4611BJ WHA-4611BK WHA-4611BL WHA-4611BM WHA-4611BN WHA-4611BP WHA-4611BU WHA-4611CE WHA-4611CH WHA-4611CL WHA-4611CM WHA-4611CN WHA-4611CP WHA-4611CR WHA-4611CS WHA-4611CT WHA-4611CU WHA-4611CV WHA-4611CW WHA-4611CX WHA-4611DA WHA-4611DB WHA-4611DC WHA-4611DD WHA-4611DE WHA-4611DF WHA-4611DG WHA-4611DH WHA-4611DJ WHA-4611DK WHA-4611DL WHA-4611DM WHA-4611DN WHA-4611DP WHA-4611DQ WHA-4611DR WHA-4611DS WHA-4611DT WHA-4611DU WHA-4611DV WHA-4611DW WHA-4611DX WHA-4611DY

MECH 4-216 HOSE BIB

B4 PENTHOUSE B4 2ND FLOOR B4 2ND FLOOR B6 2ND FLOOR B4 1ST FLOOR B4 2ND FLOOR B4 PENTHOUSE B4 2ND FLOOR B4 2ND FLOOR B4 1ST FLOOR B4 2ND FLOOR B4 2ND FLOOR B6 2ND FLOOR B4 2ND FLOOR B4 1ST FLOOR B4 2ND FLOOR B4 1ST FLOOR

SAFETY SHOWER (4)

MOP SINK B6 RM 6-203

DRINKING FOUNTAINS B4 CORRIDOR (3) (2)

BRADLEY SINKS B4 CORRIDOR (2)

MOP SINK B4 RM 4-119

MOP SINK B4 RM 4-219

LAVATORIES MEN'S RR

LAVATORIES WOMEN'S RR

SHOWERS MEN'S RR

SHOWERS WOMEN'S RR

WATER CLOSETS MEN'S RR (1) (TYP)

WATER CLOSETS WOMEN'S RR (1) (TYP)

URINALS MEN'S RR (1) (TYP)

1/2" (TYP.)

LILLY ELECTRONIC SIGNATURES

1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022
NO.	ZONE	PROJECT, PHASE OR REVISION	CHANGE CONTROL	DATE

REVISIONS

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NC FIRM LICENSE #: C-3148
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

DOMESTIC WATER DISTRIBUTION P&ID - B4

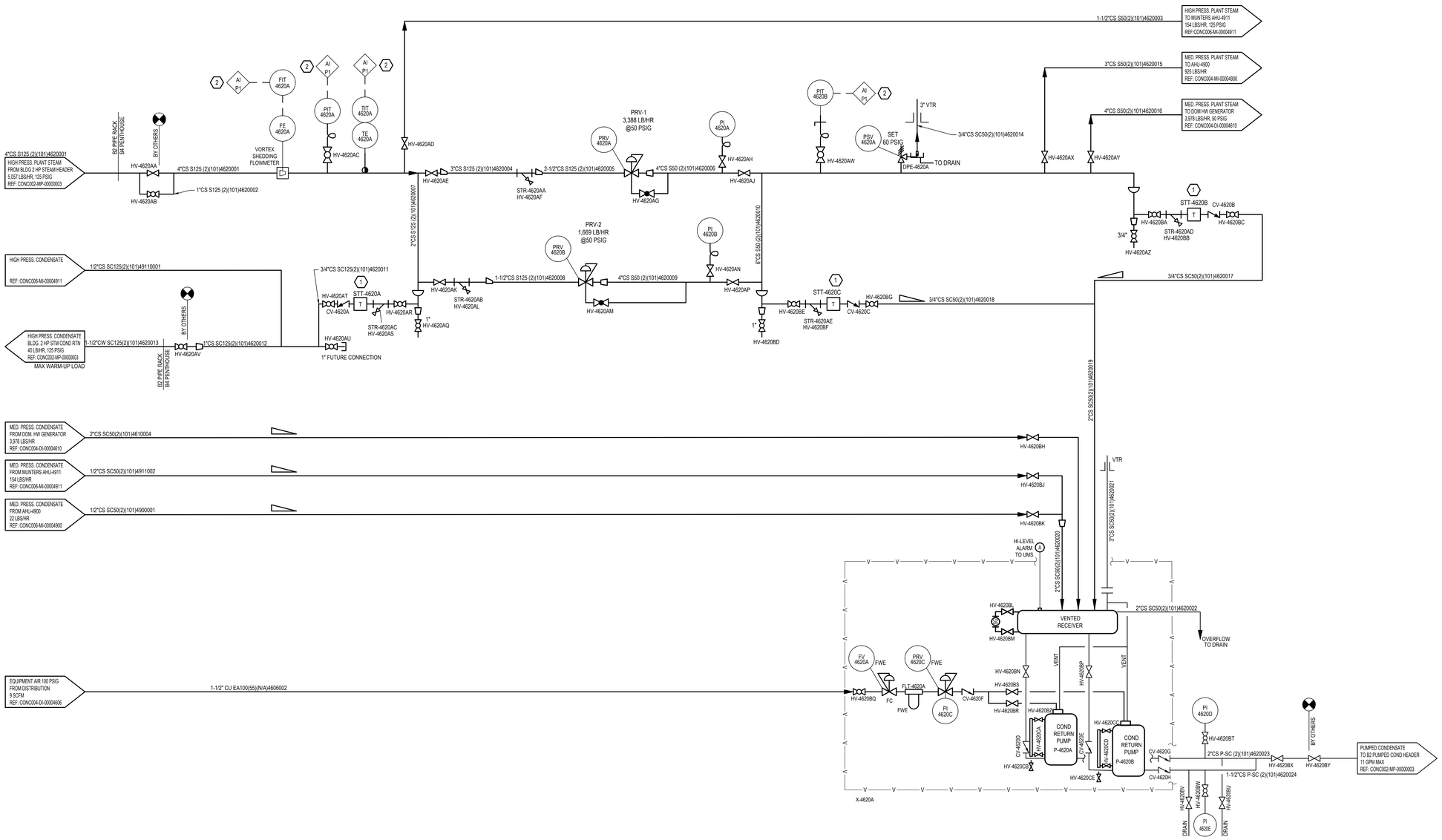
SYSTEM TYPE		BUILDING/PLANT	LEVEL/FLOOR
		CONC004	
DIV. DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
DI	CONC	N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV.
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-DI-00004611	
NON-CRITICAL		ENGINEERING AGENCY DOC. ID		
NO				

p:\greenville projects\g22131 - eli lilly - project concord\Drawings\Plumbing\CONC004-DI-00004611 DOMESTIC WATER DISTRIBUTION P&ID - B4.dwg

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KEY NOTES

1. STEAM SYSTEM START-UP WILL BE SUPERVISED.
2. P1 = UMS204 (BUILDING 4 UMS PLC). REMOTE I/O PANEL LOCATED IN BUILDING 4 PENTHOUSE WITH CONNECTION BACK TO CENTRAL UTILITY PLANT PLC.



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NORTH CAROLINA PROFESSIONAL SEAL SE 40778 ENGINEER ANDREW T. NELL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

STEAM AND CONDENSATE DISTRIBUTION P&ID - B4

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

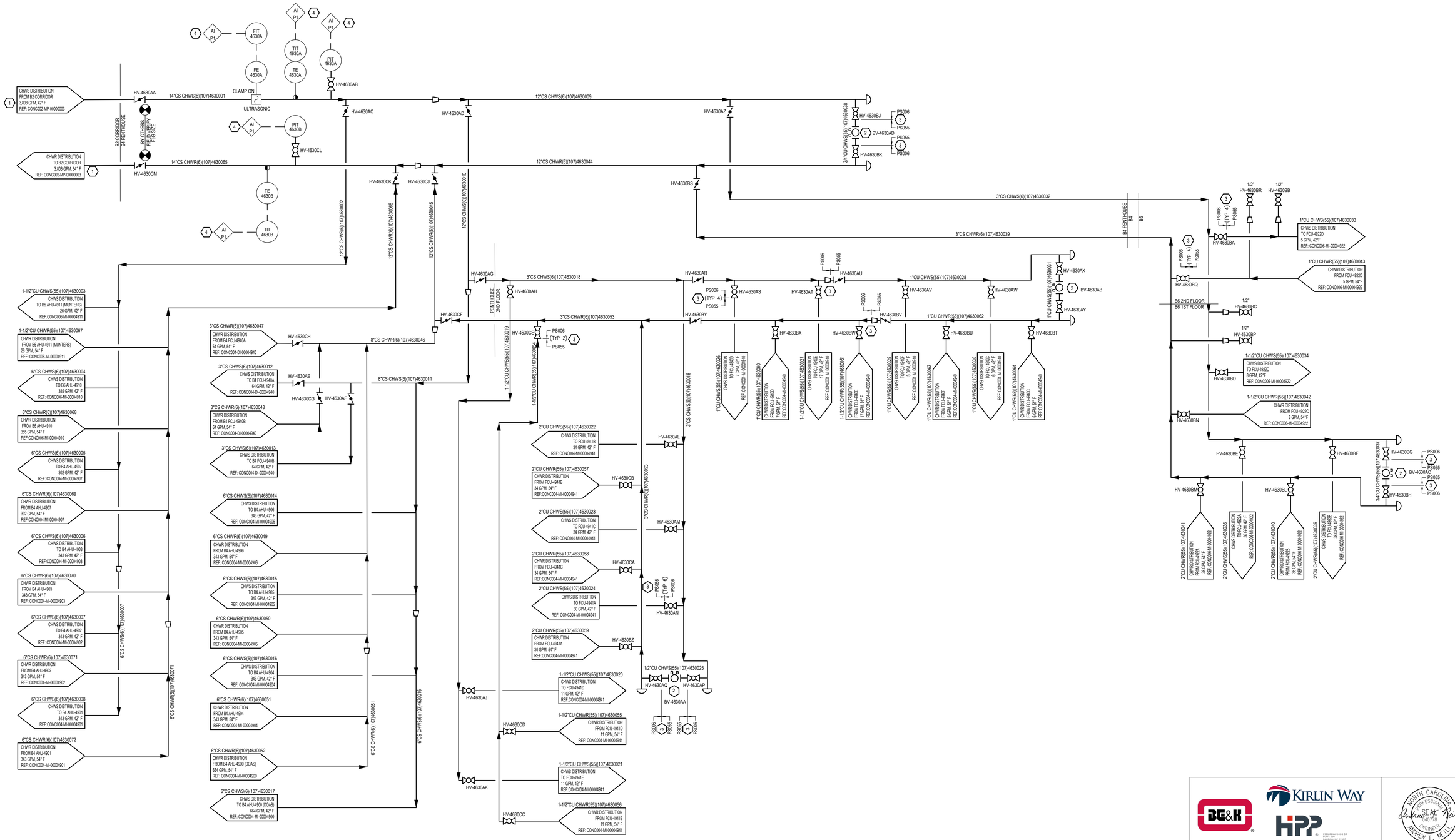
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SYSTEM TYPE		BSMP/PBR/TNG	CONC004	LEVEL/PLOSE	
SUB DISCIPLINE	DI	LOCATION CODE	CONC	LOCATION/GRID	N/A	CONC-CODE	YELLOW	PROJECT NAME	CONC-300-6070
CRITICAL QUALITY	NO	DRAWING GROUP	CDAP	DRAWING INTENTION		DRAWING SCALE	NTS
CRITICAL BUSINESS	YES	EQUIPMENT CLASSIFICATION		ALTERNATE DOCUMENT ID		MERIDIAN REV	
CRITICAL HSE	NO	VENDOR		DOCUMENT ID	CONC004-DI-00004620		
CRITICAL IC	NO	ENGINEERING AGENCY DOC ID					

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KEY NOTES

1. FLOW RATE IS MAX TOTAL (NO DIVERSITY.) ESTIMATED DIVERSIFIED FLOW = 2,575 GPM.
2. 3/4" FLOW CONTROL VALVE (GRISWOLD 1 GPM)
3. PROVIDE DI-ELECTRIC FITTING.
4. P1 = UMS004 (BUILDING 4 UMS PLC). REMOTE I/O PANEL LOCATED IN BUILDING 4 PENTHOUSE WITH CONNECTION BACK TO CENTRAL UTILITY PLANT PLC.



p:\greenville projects\gr22131 - eli lilly - project concord\Drawings\Mechanical\CONC004-DI-00004630 CHILLED WATER DISTRIBUTION P&ID - B4.dwg

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KIRLIN WAY

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WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

LILLY ELECTRONIC SIGNATURES

1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022
NO.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE

REVISIONS

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1420 CONCORD PKWY S
CONCORD, NC 28027

CHILLED WATER DISTRIBUTION P&ID - B4

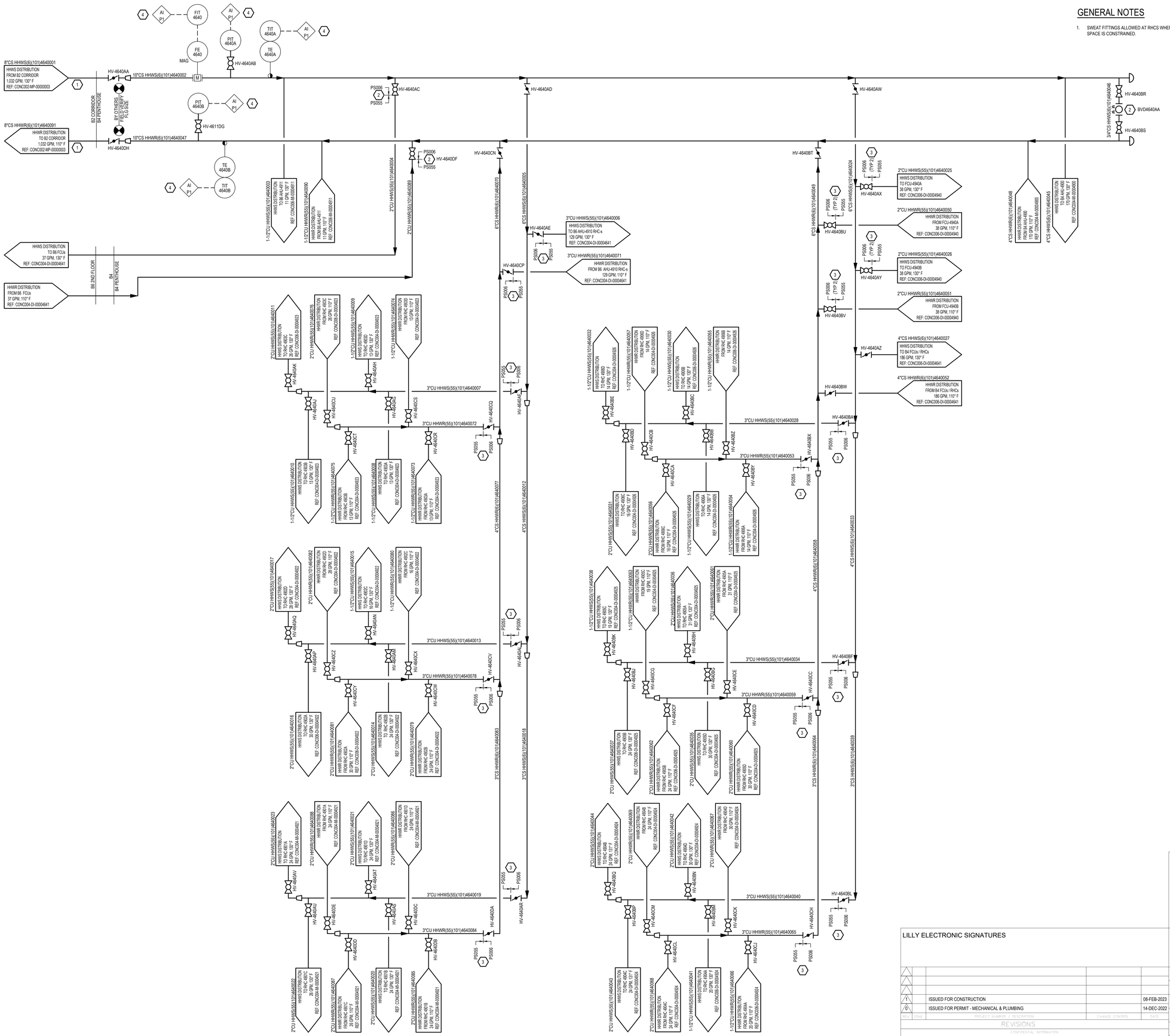
SYSTEM - TYPE				PLANT BUILDING	LEVEL/FLOOR
				CONC004	
DCR - DISCIPLINE	DCR - LOCATION CODE	LOCATION/GRID		PRINT COLOR	
DI	CONC	N/A		YELLOW	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP		DRAWING INTENTION	DRAWING SCALE
NO		CDAP			NTS
SMALL BUSINESS		EQUIPMENT CLASSIFICATION		ALTERNATE DOCUMENT ID	MERIDIAN REV
YES					
CRITICAL HSE		VENDOR			
NO					
NON-CRITICAL		ENGINEERING AGENCY DOC ID		DOCUMENT ID	
NO				CONC004-DI-00004630	

GENERAL NOTES

1. SWEAT FITTINGS ALLOWED AT RHCS WHERE SPACE IS CONSTRAINED.

KEY NOTES

1. FLOW RATE IS MAX TOTAL (NO DIVERSITY.) ESTIMATED DIVERSIFIED FLOW = 791 GPM.
2. 3/4" FLOW CONTROL VALVE (GRISWOLD 1 GPM)
3. PROVIDE DI-ELECTRIC FLANGE / FITTING.
4. P1 = UMS004 (BUILDING 4 UMS PLC). REMOTE I/O PANEL LOCATED IN BUILDING 4 PENTHOUSE WITH CONNECTION BACK TO CENTRAL UTILITY PLANT PLC.



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p:\greenville projects\gr22131 - eli lilly - project concord\Drawings\Mechanical\CONC004-DI-00004640 HEATING HOT WATER DISTRIBUTION P&ID - B4.dwg

LILLY ELECTRONIC SIGNATURES

REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

1420 CONCORD PKWY S
CONCORD, NC 28027

HEATING HOT WATER DISTRIBUTION P&ID - B4

SYSTEM TYPE			BDAP/E/BUILDING		LEVEL/FLOOR
			CONC004		
SUB-DISCIPLINE	LOCATION CODE	LOCATION/GRID	CONC CODE		PROJECT NAME
DI	CONC	N/A	YELLOW		CONC-300-6070
CRITICAL QUALITY		SYSTEM GROUP	DRAWING INTENTION		DRAWING SCALE
NO		CDAP			NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID		MERIDIAN REV
YES					
CRITICAL HSE		VENDOR			
NO					
CRITICAL		ENGINEERING AGENCY DOC ID	DOCUMENT ID		
NO			CONC004-DI-00004640		

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p:\greenville projects\g22131 - eli lilly - project concord\Drawings\Plumbing\VOID\CONC004-DI-00004641 HEATING HOT WATER DISTRIBUTION P&ID CONT. - B4.dwg

KEY NOTES

1. 3/4" FLOW CONTROL VALVE (GRISWOLD 1 GPM)
2. PROVIDE DI-ELECTRIC FITTING.
3. SEE ADJACENT FOR CONTINUATION.

4"CS HHWS(6)(101)4640027 — HHWS DISTRIBUTION FROM B4 PENTHOUSE 186 GPM, 130° F REF: CONC004-DI-4640

4"CS HHWR(6)(101)4640052 — HHWR DISTRIBUTION TO B4 PENTHOUSE 186 GPM, 110° F REF: CONC004-DI-4640

3"CS HHWS(6)(101)4641018 — HV-4641AS — HV-4641BX — 1-1/2"CU HHWS(55)(101)4641052

3"CS HHWR(6)(101)4641108 — HV-4641EH — HV-4641DC — 1-1/2"CU HHWR(55)(101)4641070

HV-4641AA, HV-4641EX

B4 2ND FLOOR
B4 1ST FLOOR

3"CS HHWS(6)(101)4641019 — HV-4641AT

3"CS HHWR(6)(101)4641075

2"CS HHWS(6)(101)4641001

2"CS HHWR(6)(101)4641109

HV-4641AB — 1-1/2"CU HHWS(55)(101)4641002 — HV-4641AC, HV-4641AD

HV-4641EW — 1-1/2"CU HHWR(55)(101)4641110 — HV-4641EV, HV-4641EU

3/4"CU HHWS(55)(101)4641003 — HHWS DISTRIBUTION TO RHC 4212 3 GPM, 130° F REF: CONC004-MI-00004928

3/4"CU HHWR(55)(101)4641111 — HHWR DISTRIBUTION FROM RHC 4212 3 GPM, 110° F REF: CONC004-MI-00004928

1"CU HHWS(55)(101)4641004 — HHWS DISTRIBUTION TO FCU-4641D 3 GPM, 130° F REF: CONC004-MI-00004941

1"CU HHWR(55)(101)4641112 — HHWR DISTRIBUTION FROM FCU-4641D 3 GPM, 110° F REF: CONC004-MI-00004941

HV-4641AE — 1-1/2"CU HHWS(55)(101)4641005 — HHWS DISTRIBUTION TO RHC 4211C 8 GPM, 130° F REF: CONC004-MI-00004928

HV-4641ET — 1-1/2"CU HHWR(55)(101)4641113 — HHWR DISTRIBUTION FROM RHC 4211C 8 GPM, 110° F REF:CONC004-MI-00004928

HV-4641AF — 3/4"CU HHWS(55)(101)4641006 — HHWS DISTRIBUTION TO RHC 4211A 3 GPM, 130° F REF: CONC004-MI-00004928

HV-4641ES — 3/4"CU HHWR(55)(101)4641114 — HHWR DISTRIBUTION FROM RHC 4211A 3 GPM, 110° F REF:CONC004-MI-00004928

HV-4641AG — 3/4"CU HHWS(55)(101)4641008 — HHWS DISTRIBUTION TO RHC 4210 1 GPM, 130° F REF:CONC004-MI-00004928

HV-4641ER — 3/4"CU HHWR(55)(101)4641116 — HHWR DISTRIBUTION FROM RHC 4210 1 GPM, 110° F REF: CONC004-MI-00004928

1-1/2"CU HHWS(55)(101)4641007

1-1/2"CU HHWR(55)(101)4641115

HV-4641AH — 1/2"CU HHWS(55)(101)4641009 — HHWS DISTRIBUTION TO RHC 4208 1 GPM, 130° F REF:CONC004-MI-00004928

HV-4641EQ — 1/2"CU HHWR(55)(101)4641117 — HHWR DISTRIBUTION FROM RHC 4208 1 GPM, 110° F REF: CONC004-MI-00004928

HV-4641AJ — 3/4"CU HHWS(55)(101)4641010 — HHWS DISTRIBUTION TO RHC 4207 3 GPM, 130° F REF:CONC004-MI-00004928

HV-4641EP — 3/4"CU HHWR(55)(101)4641118 — HHWR DISTRIBUTION FROM RHC 4207 3 GPM, 110° F REF: CONC004-MI-00004928

HV-4641AK — 1/2"CU HHWS(55)(101)4641011 — HHWS DISTRIBUTION TO RHC 4203 2 GPM, 130° F REF:CONC004-MI-00004928

HV-4641EN — 1/2"CU HHWR(55)(101)4641119 — HHWR DISTRIBUTION FROM RHC 4203 2 GPM, 110° F REF: CONC004-MI-00004928

HV-4641AL — 1"CU HHWS(55)(101)4641012 — HV-4641AM, HV-4641AK

1"CU HHWR(55)(101)4641120 — HV-4641EM, HV-4641EL, HV-4641EK

1"CU HHWS(55)(101)4641013 — HHWS DISTRIBUTION TO RHC 4211B 6 GPM, 130° F REF: CONC004-MI-00004928

1"CU HHWR(55)(101)4641121 — HHWR DISTRIBUTION FROM RHC 4211B 6 GPM, 110° F REF:CONC004-MI-00004928

1/2"CU HHWS(55)(101)4641014 — HHWS DISTRIBUTION TO RHC 4202 1 GPM, 130° F REF: CONC004-MI-00004928

1/2"CU HHWR(55)(101)4641122 — HHWR DISTRIBUTION FROM RHC 4202 1 GPM, 110° F REF: CONC004-MI-00004928

1"CU HHWS(55)(101)4641015

1"CU HHWR(55)(101)4641123

HV-4641AP — 1"CU HHWS(55)(101)4641016 — HHWS DISTRIBUTION TO FCU-4641E 5 GPM, 130° F REF:CONC004-MI-00004941

HV-4641EJ — 1"CU HHWR(55)(101)4641124 — HHWR DISTRIBUTION FROM FCU-4641E 5 GPM, 110° F REF: CONC004-MI-00004941

HV-4641AQ, HV-4641AA, HV-4641AR — 1" BV-4641AA — 1"CU HHWS(55)(101)4641017

1

PS006, PS055 (2)

HV-4641AU, HV-4641AV, HV-4641AW, HV-4641AX, HV-4641AY

1-1/2"CU HHWS(55)(101)4641020

1-1/2"CU HHWR(55)(101)4641076

HV-4641EG, HV-4641EF, HV-4641EE, HV-4641ED, HV-4641EC, HV-4641EB

3/4"CU HHWS(55)(101)4641021 — HHWS DISTRIBUTION TO RHC 4101 3 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641077 — HHWR DISTRIBUTION FROM RHC 4101 3 GPM, 110° F REF: CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641022 — HHWS DISTRIBUTION TO RHC 4105 6 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641078 — HHWR DISTRIBUTION FROM RHC 4105 6 GPM, 110° F REF: CONC004-MI-00004927

1/2"CU HHWS(55)(101)4641023 — HHWS DISTRIBUTION TO RHC 4109 1 GPM, 130° F REF: CONC004-MI-00004927

1/2"CU HHWR(55)(101)4641079 — HHWR DISTRIBUTION FROM RHC 4109 1 GPM, 110° F REF: CONC004-MI-00004927

1"CU HHWS(55)(101)4641024 — HHWS DISTRIBUTION TO RHC 4120A 3 GPM, 130° F REF: CONC004-MI-00004927

1"CU HHWR(55)(101)4641080 — HHWR DISTRIBUTION FROM RHC 4120A 3 GPM, 110° F REF:CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641025 — HHWS DISTRIBUTION TO RHC 4109 1 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641081 — HHWR DISTRIBUTION FROM RHC 4109 1 GPM, 110° F REF: CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641053 — HHWS DISTRIBUTION FROM B4 PENTHOUSE 3 GPM, 130° F REF: CONC004-MI-00004940

3/4"CU HHWR(55)(101)4641071 — HHWR DISTRIBUTION FROM FCU-4640F 3 GPM, 110° F REF:CONC004-MI-00004940

1"CU HHWS(55)(101)4641054 — HHWS DISTRIBUTION TO FCU-4640C 4 GPM, 130° F REF: CONC004-MI-00004936

1"CU HHWR(55)(101)4641072 — HHWR DISTRIBUTION FROM FCU-4640C 4 GPM, 110° F REF:CONC004-MI-00004936

3/4"CU HHWS(55)(101)4641055 — HHWS DISTRIBUTION TO RHC 4213 1 GPM, 130° F REF: CONC004-MI-00004928

3/4"CU HHWR(55)(101)4641073 — HHWR DISTRIBUTION FROM RHC 4213 1 GPM, 110° F REF:CONC004-MI-00004928

3/4"CU HHWS(55)(101)4641056 — HHWS DISTRIBUTION TO RHC 4218 3 GPM, 130° F REF: CONC004-MI-00004928

3/4"CU HHWR(55)(101)4641074 — HHWR DISTRIBUTION FROM RHC 4218 3 GPM, 110° F REF:CONC004-MI-00004928

HV-4641CY

PS006, PS055 (2)

HV-4641AZ — 2"CU HHWS(55)(101)4641026 — 1-1/2"CU HHWS(55)(101)4641032 — 1"CU HHWS(55)(101)4641036

HV-4641BK — HV-4641BA, HV-4641BB, HV-4641BC, HV-4641BE, HV-4641BF, HV-4641BG, HV-4641BH, HV-4641BJ

HV-4641CQ — 2"CU HHWS(55)(101)4641082 — 1-1/2"CU HHWR(55)(101)4641088 — 1"CU HHWR(55)(101)4641092

1"CU HHWS(55)(101)4641027 — HHWS DISTRIBUTION TO RHC 4309 1 GPM, 130° F REF:CONC004-MI-00004927

1"CU HHWR(55)(101)4641083 — HHWR DISTRIBUTION FROM RHC 4309 1 GPM, 110° F REF: CONC004-MI-00004927

1"CU HHWS(55)(101)4641028 — HHWS DISTRIBUTION TO RHC 4118 6 GPM, 130° F REF:CONC004-MI-00004927

1"CU HHWR(55)(101)4641084 — HHWR DISTRIBUTION FROM RHC 4118 6 GPM, 110° F REF: CONC004-MI-00004927

1"CU HHWS(55)(101)4641029 — HHWS DISTRIBUTION TO RHC 4113C 5 GPM, 130° F REF: CONC004-MI-00004927

1"CU HHWR(55)(101)4641085 — HHWR DISTRIBUTION FROM RHC 4113C 5 GPM, 110° F REF:CONC004-MI-00004927

1"CU HHWS(55)(101)4641030 — HHWS DISTRIBUTION TO RHC 4113C 5 GPM, 130° F REF: CONC004-MI-00004927

HV-4641BD — 1"CU HHWR(55)(101)4641086 — HHWR DISTRIBUTION FROM RHC 4113C 5 GPM, 110° F REF:CONC004-MI-00004927

HV-4641DW — 1"CU HHWS(55)(101)4641031 — HHWS DISTRIBUTION TO RHC 4112 7 GPM, 130° F REF: CONC004-DI-00004640

1"CU HHWR(55)(101)4641087 — HHWR DISTRIBUTION FROM RHC 4112 7 GPM, 110° F REF: CONC004-DI-00004640

3/4"CU HHWS(55)(101)4641033 — HHWS DISTRIBUTION TO RHC 4134 2 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641089 — HHWR DISTRIBUTION FROM RHC 4134 2 GPM, 110° F REF:CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641034 — HHWS DISTRIBUTION TO RHC 4117 2 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641090 — HHWR DISTRIBUTION FROM RHC 4117 2 GPM, 110° F REF:CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641035 — HHWS DISTRIBUTION TO RHC 4119 2 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641091 — HHWR DISTRIBUTION FROM RHC 4119 2 GPM, 110° F REF:CONC004-MI-00004927

1/2"CU HHWS(55)(101)4641037 — HHWS DISTRIBUTION TO RHC 4115 1 GPM, 130° F REF: CONC004-MI-00004927

1/2"CU HHWR(55)(101)4641093 — HHWR DISTRIBUTION FROM RHC 4115 1 GPM, 110° F REF:CONC004-MI-00004927

1/2"CU HHWS(55)(101)4641038 — HHWS DISTRIBUTION TO RHC 4114 1 GPM, 130° F REF: CONC004-MI-00004927

1/2"CU HHWR(55)(101)4641094 — HHWR DISTRIBUTION FROM RHC 4114 1 GPM, 110° F REF:CONC004-MI-00004927

HV-4641BL — 1-1/2"CU HHWS(55)(101)4641040 — HV-4641BM, HV-4641BN

HV-4641DP — 1-1/2"CU HHWR(55)(101)4641096 — HV-4641DN, HV-4641DM

1"CU HHWS(55)(101)4641041 — HHWS DISTRIBUTION TO RHC 4108 1 GPM, 130° F REF: CONC004-MI-00004927

1"CU HHWR(55)(101)4641097 — HHWR DISTRIBUTION FROM RHC 4108 1 GPM, 110° F REF: CONC004-MI-00004927

3/4"CU HHWS(55)(101)4641042 — HHWS DISTRIBUTION TO RHC 4124 2 GPM, 130° F REF: CONC004-MI-00004927

3/4"CU HHWR(55)(101)4641098 — HHWR DISTRIBUTION FROM RHC 4124 2 GPM, 110° F REF:CONC004-MI-00004927

1-1/2"CU HHWS(55)(101)4641043

1-1/2"CU HHWR(55)(101)4641099

HV-4641BP — 1"CU HHWS(55)(101)4641044 — HHWS DISTRIBUTION TO RHC 4101B 8 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DL — 1"CU HHWR(55)(101)4641100 — HHWR DISTRIBUTION FROM RHC 4101B 8 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BQ — 3/4"CU HHWS(55)(101)4641045 — HHWS DISTRIBUTION TO RHC 4101C 2 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DK — 3/4"CU HHWR(55)(101)4641101 — HHWR DISTRIBUTION FROM RHC 4101C 2 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BR — 1/2"CU HHWS(55)(101)4641046 — HHWS DISTRIBUTION TO RHC 4110 1 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DJ — 1/2"CU HHWR(55)(101)4641102 — HHWR DISTRIBUTION FROM RHC 4110 1 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BS — 1/2"CU HHWS(55)(101)4641047 — HHWS DISTRIBUTION TO RHC 4108 1 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DH — 1/2"CU HHWR(55)(101)4641103 — HHWR DISTRIBUTION FROM RHC 4108 1 GPM, 110° F REF: CONC004-MI-00004927

3

1"CU HHWS(55)(101)4641051

1"CU HHWR(55)(101)4641107

HV-4641BT — 3/4"CU HHWS(55)(101)4641048 — HHWS DISTRIBUTION TO RHC 4107 3 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DG — 3/4"CU HHWR(55)(101)4641104 — HHWR DISTRIBUTION FROM RHC 4107 3 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BU — 3/4"CU HHWS(55)(101)4641049 — HHWS DISTRIBUTION TO RHC 4103 2 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DF — 3/4"CU HHWR(55)(101)4641105 — HHWR DISTRIBUTION FROM RHC 4103 2 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BV — 1/2"CU HHWS(55)(101)4641050 — HHWS DISTRIBUTION TO RHC 4102 1 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DE — 1/2"CU HHWR(55)(101)4641106 — HHWR DISTRIBUTION FROM RHC 4102 1 GPM, 110° F REF: CONC004-MI-00004927

HV-4641BW — 1"CU HHWS(55)(101)4641051 — HHWS DISTRIBUTION TO RHC 4101A 8 GPM, 130° F REF:CONC004-MI-00004927

HV-4641DD — 1"CU HHWR(55)(101)4641107 — HHWR DISTRIBUTION FROM RHC 4101A 8 GPM, 110° F REF: CONC004-MI-00004927

HV-4641CE 1/2", HV-4641CV 1/2"

1-1/2"CU HHWR(55)(101)4641059

1-1/2" HV-4641CH

1-1/2" BV-4641AB

1-1/2" HV-4641CJ

1-1/2"CU HHWS(55)(101)4641061

HV-4641CS, HV-4641CF, HV-4641CC

B5 1ST FLOOR
B6 2ND FLOOR

1-1/2"CU HHWR(55)(101)4641062

HV-4641CT, HV-4641CU, HV-4641CW

1-1/2"CU HHWS(55)(101)4641060 — HHWS DISTRIBUTION TO FCU-4602B 17 GPM, 130° F REF: CONC004-MI-00004952

1-1/2"CU HHWR(55)(101)4641063 — HHWR DISTRIBUTION FROM FCU-4602B 17 GPM, 110° F REF: CONC004-MI-00004952

1-1/2"CU HHWS(55)(101)4641058 — HHWS DISTRIBUTION TO RHC 4202 11 GPM, 130° F REF: CONC006-MI-00004922

1-1/2"CU HHWR(55)(101)4641064 — HHWR DISTRIBUTION FROM RHC 4202 11 GPM, 110° F REF: CONC006-MI-00004922

3/4"CU HHWS(55)(101)4641057 — HHWS DISTRIBUTION TO FCU-4602D 3 GPM, 130° F REF: CONC004-MI-00004932

3/4"CU HHWR(55)(101)4641065 — HHWR DISTRIBUTION FROM FCU-4602D 3 GPM, 110° F REF: CONC004-MI-00004932

2"CU HHWS(55)(101)4640004 — HHWS DISTRIBUTION FROM B4 PENTHOUSE 37 GPM, 130° F REF: CONC004-DI-00004640

2"CU HHWR(55)(101)4640089 — HHWR DISTRIBUTION FROM B4 PENTHOUSE 37 GPM, 110° F REF: CONC004-DI-00004640

HV-4641CX 1/2", HV-4641CD 1/2"

2"CU HHWS(55)(101)4641065 — HHWS DISTRIBUTION TO RHC 4101C 26 GPM, 130° F REF: CONC004-MI-00004928

2"CU HHWR(55)(101)4641089 — HHWR DISTRIBUTION FROM RHC 4101C 26 GPM, 110° F REF:CONC004-MI-00004928

HV-4641CN — HV-4641CM, HV-4641CP, HV-4641CQ

2"CU HHWS(55)(101)4641064 — HHWS DISTRIBUTION TO RHC 4101D 33 GPM, 130° F REF: CONC006-MI-00004920

2"CU HHWR(55)(101)4641068 — HHWR DISTRIBUTION FROM RHC 4101D 33 GPM, 110° F REF:CONC006-MI-00004920

3"CU HHWS(55)(101)4640006 — HHWS DISTRIBUTION LOCATED IN B4 PENTHOUSE 124 GPM, 130° F REF: CONC004-DI-00004640

3"CU HHWR(55)(101)4640071 — HHWR DISTRIBUTION LOCATED IN B4 PENTHOUSE 124 GPM, 110° F REF: CONC004-DI-00004640

2"CU HHWS(55)(101)4641062 — HHWS DISTRIBUTION TO RHC 4910A 26 GPM, 130° F REF: CONC006-MI-00004920

2"CU HHWR(55)(101)4641066 — HHWR DISTRIBUTION FROM RHC 4910A 26 GPM, 110° F REF: CONC006-MI-00004920

HV-4641CK, HV-4641CR, HV-4641CL

2"CU HHWS(55)(101)4641063 — HHWS DISTRIBUTION TO RHC 4910B 27 GPM, 130° F REF: CONC006-MI-00004920

2"CU HHWR(55)(101)4641067 — HHWR DISTRIBUTION FROM RHC 4910B 27 GPM, 110° F REF: CONC006-MI-00004920

HV-4641CS

LILLY ELECTRONIC SIGNATURES

BG&K — KIRLIN WAY — HIPP DESIGN + CONSULTING — 3101 RDU HOUSE DR RALEIGH, NC 27607 TEL: 919.755.1818 FAX: 919.755.1828 NC FIRM LICENSE # C-3144 WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL — 08 Feb 2023

Lilly — 1420 CONCORD PKWY S CONCORD, NC 28027

HEATING HOT WATER DISTRIBUTION P&ID CONT. - B4

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

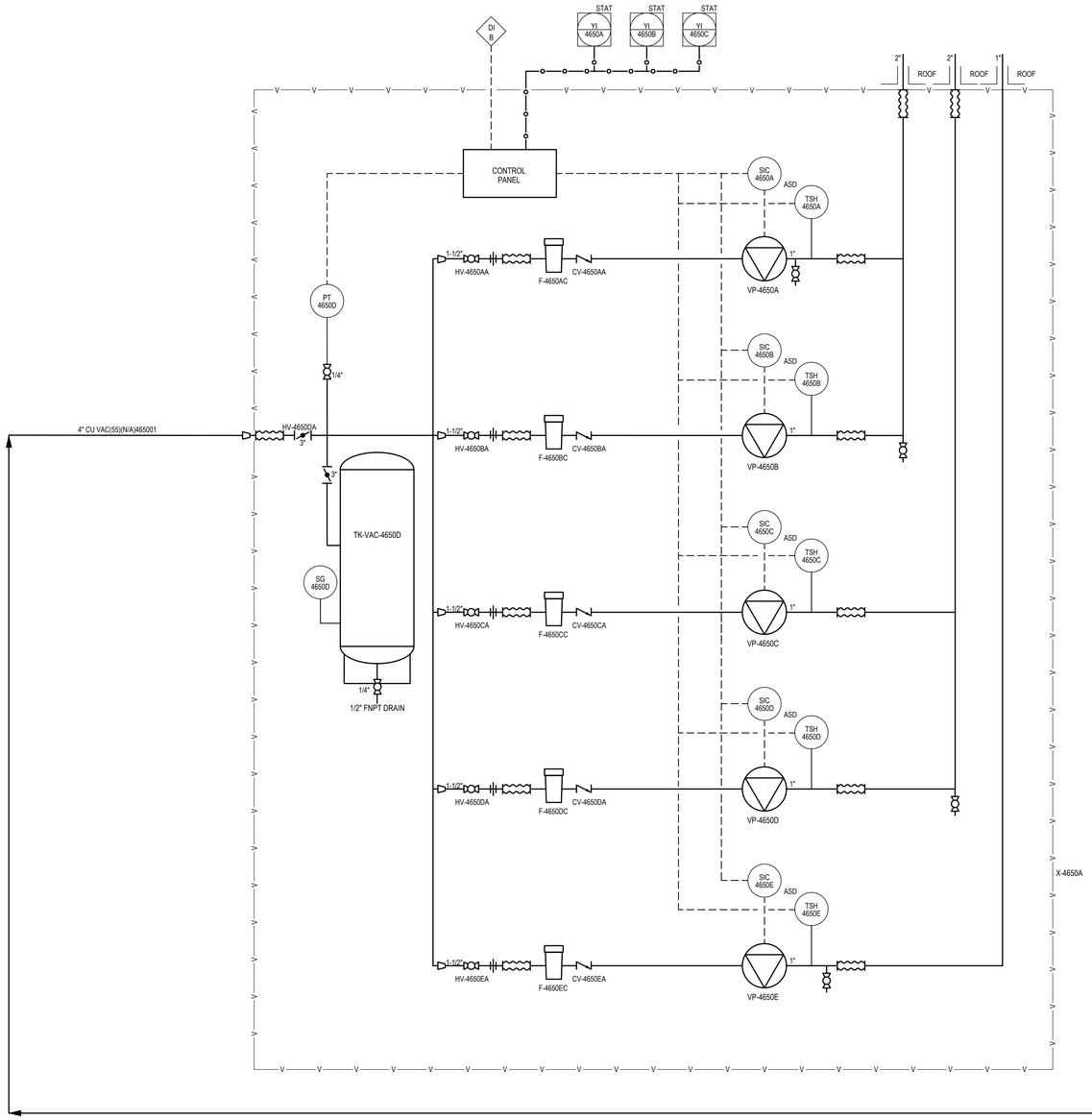
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SYSTEM TYPE		DISCIPLINE/BUILDING	LEVEL/FLOOR
		CONC004	
SUB-DISCIPLINE	LOCATION CODE	LOCATION/GRID	SCC CODE	PROJECT NAME
DI	CONC	N/A	YELLOW	CONC-300-6070
VITAL QUALITY		DESIGN GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		NTS
CRITICAL BUSINESS		DOCUMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MATERIAL REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-DI-00004641	
CRITICAL EAL		ENGINEERING AGENCY DOC ID		
NO				

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GENERAL NOTES

1. VACUUM SKID P&ID TO BE COORDINATED WITH APPROVED VENDOR SHOP DRAWING.



EQUIPMENT NUMBER	X-4650A	VP-4650A	VP-4650B	VP-4650C	VP-4650D	VP-4650E	TK-VAC-4650D
EQUIPMENT NAME	VACUUM PUMP SKID	VACUUM PUMP	VACUUM PUMP	VACUUM PUMP	VACUUM PUMP	VACUUM PUMP (N+1)	RECEIVER-SEPARATOR
PUMP TYPE	ROTARY CLAW	ROTARY CLAW	ROTARY CLAW	ROTARY CLAW	ROTARY CLAW	ROTARY CLAW	200 GALLON
MANUFACTURER	POWEREX	BUSCH MINK	BUSCH MINK	BUSCH MINK	BUSCH MINK	BUSCH MINK	ASME VACUUM RATED
MODEL NUMBER	CVPP0505B4R1-SPL	MODEL NO. MM1142.BV	MODEL NO. MM1142.BV	MODEL NO. MM1142.BV	MODEL NO. MM1142.BV	MODEL NO. MM1142.BV	CARBON STEEL-EPOXY LINED
DESIGN FLOW	515 ACFM / 85 SCFM @ 25" HGV	103 ACFM / 17 SCFM @ 25" HGV	103 ACFM / 17 SCFM @ 25" HGV	103 ACFM / 17 SCFM @ 25" HGV	103 ACFM / 17 SCFM @ 25" HGV	103 ACFM / 17 SCFM @ 25" HGV	-
DESIGN VACUUM	28.4 IN HG VAC	28.4 IN HG VAC	28.4 IN HG VAC	28.4 IN HG VAC	28.4 IN HG VAC	28.4 IN HG VAC	200 PSIG MAWP
MOTOR DRIVE	PROVIDE WITH ASD	PROVIDE WITH ASD	PROVIDE WITH ASD	PROVIDE WITH ASD	PROVIDE WITH ASD	PROVIDE WITH ASD	-
ELECTRICAL	460 VAC / 3 PH / 60 HZ	460 VAC 5 HP	460 VAC 5 HP	460 VAC 5 HP	460 VAC 5 HP	460 VAC 5 HP	-

LILLY ELECTRONIC SIGNATURES

REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA
049954
ENGINEER
ALEXANDER D. SHIVE

08 Feb 2023

Lilly

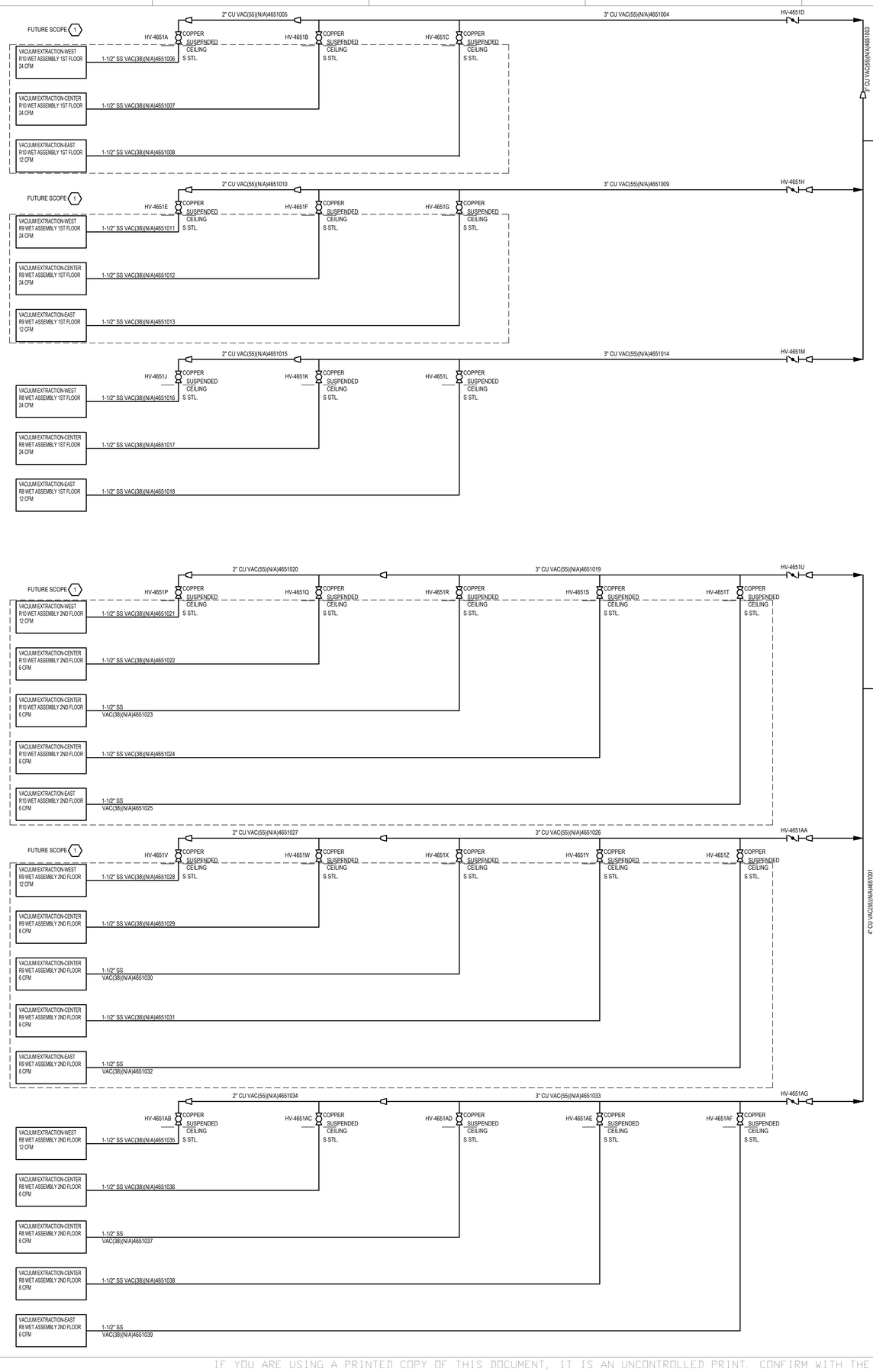
1420 CONCORD PKWY S
CONCORD, NC 28027

VACUUM SYSTEM GENERATION P&ID - B4

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB-DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCC CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		DESIGN GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-DI-00004650
CRITICAL: NO		ENGINEERING AGENCY DOC ID	

P:\Greenville Projects\G22131 - Eli Lilly - Project Concord\Drawings\Mechanical\CONC004-DI-00004650 VACUUM SYSTEM GENERATION P&ID - B4.dwg

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GENERAL NOTES

1. EACH BRANCH OF PIPING FOR A DROP SHOULD HAVE A BALL VALVE AT THE BRANCH FOR ISOLATION. ALL VACUUM PIPING ABOVE THE CEILING SHALL BE TYPE L COPPER WITH SOLDER FITTINGS PER THE "CDR" SPECIFICATION. A TRANSITION FROM COPPER TO STAINLESS STEEL SHALL BE MADE ABOVE THE CEILING. STAINLESS STEEL PIPING SHOULD DROP THROUGH THE CEILING INTO THE CLEAN SPACE. A THREADED FNPT STAINLESS STEEL END CONNECTION SHALL BE PROVIDED AT TERMINATION AT ABOUT 5 FT AFF. PIPING SHOULD BE SUPPORTED AT THE FLOOR LEVEL.

⑥ KEY NOTES

1. FUTURE EQUIPMENT NOT IN CURRENT SCOPE. INSTALL BRANCH ISOLATION VALVE AND CAP ABOVE CEILING.

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WWW.HIPP-USA.COM
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049954 ALEXANDER D. STONE

08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

VACUUM SYSTEM DISTRIBUTION P&ID - B4

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM / TYPE		ENTITY/BUILDING: CONC004	LEVEL/FLOOR:
DIV. DISCIPLINE: DI	FUNCTION CODE: CONC	NATION/GRID: N/A	ENTITY/BUILDING: YELLOW
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION:	FOLDING SCALE: CONC-300-6070
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	FOLDING SCALE: NTS
CRITICAL HSE: NO	VENDOR:		MERIDIAN REV:
NON-CRITICAL: NO	ENGINEERING AGENCY DOC. ID:	DOCUMENT ID: CONC004-DI-00004651	

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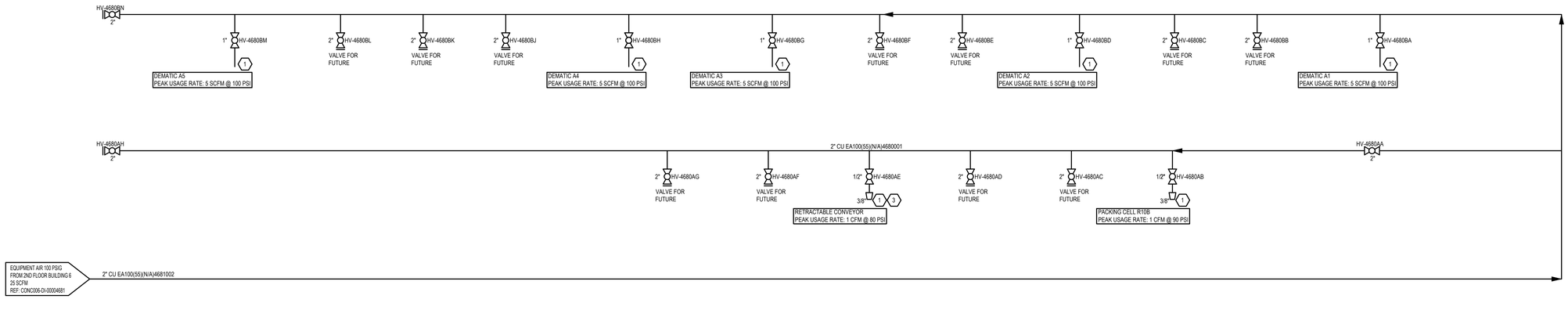
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GENERAL NOTES

1. MAIN HEADER VALVES USED TO ISOLATE THE LOOP SECTIONS FOR MAINTENANCE. FOUR SHOWN, QUANTITY TO BE DETERMINED.
2. COMPRESSED AIR DROPS ARE SPACED 20 FT APART FOR FUTURE COMPRESSED AIR NEEDS. FUTURE VALVES IN THE CEILING SPACE ABOVE.
3. EACH BRANCH OF PIPING FOR A DROP SHOULD HAVE A BALL VALVE AT THE BRANCH FOR ISOLATION. ALL COMPRESSED AIR PIPING ABOVE THE CEILING SHALL BE TYPE L COPPER WITH SOLDER FITTINGS PER THE "CDP" SPECIFICATION. A TRANSITION FROM COPPER TO STAINLESS STEEL SHALL BE MADE ABOVE THE CEILING. STAINLESS STEEL PIPING SHOULD DROP THROUGH THE CEILING INTO THE CLEAN SPACE. A THREADED FNPT STAINLESS STEEL END CONNECTION SHALL BE PROVIDED AT TERMINATION AT ABOUT 5 FT AFF. PIPING SHOULD BE SUPPORTED AT THE FLOOR LEVEL.

(#) KEY NOTES

1. DROP DOWN TO EQUIPMENT. USE GENERAL NOTE 3 FOR GUIDANCE.
2. FUTURE EQUIPMENT NOT IN CURRENT SCOPE. INSTALL BRANCH ISOLATION VALVE AND CAP ABOVE CEILING.
3. 3/8" OD TUBING, 1/4" FNPT CONNECTION IF FITTING IS REMOVED.



LILLY ELECTRONIC SIGNATURES

1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022
REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE

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WWW.HIPP-USA.COM

NORTH CAROLINA
049954
ENGINEER
KENNER D. HIPP
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

EQUIPMENT AIR DISTRIBUTION P&ID - B6 - 1ST FLOOR

SYSTEM TYPE:		PROJECT CODING: CONC006	LEVEL/FLOOR:
DCR DISCIPLINE: DI	DCR LOCATION CODE: CONC	DCR LOCATION/GRID: N/A	PRINT COLOR: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION:
DRAWING SCALE: NTS		CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:
ALTERNATE DOCUMENT ID:	MERIDIAN REV:	CRITICAL HSE: NO	VENDOR:
DOCUMENT ID: CONC006-DI-00004680		NON-CRITICAL: NO	ENGINEERING AGENCY DOC. ID:

P:\Greenville Projects\G22131 - Eli Lilly - Project Concord\Drawings\Mechanical\CONC006-DI-00004680 EQUIPMENT AIR DISTRIBUTION P&ID - B6 - 1ST FLOOR.dwg

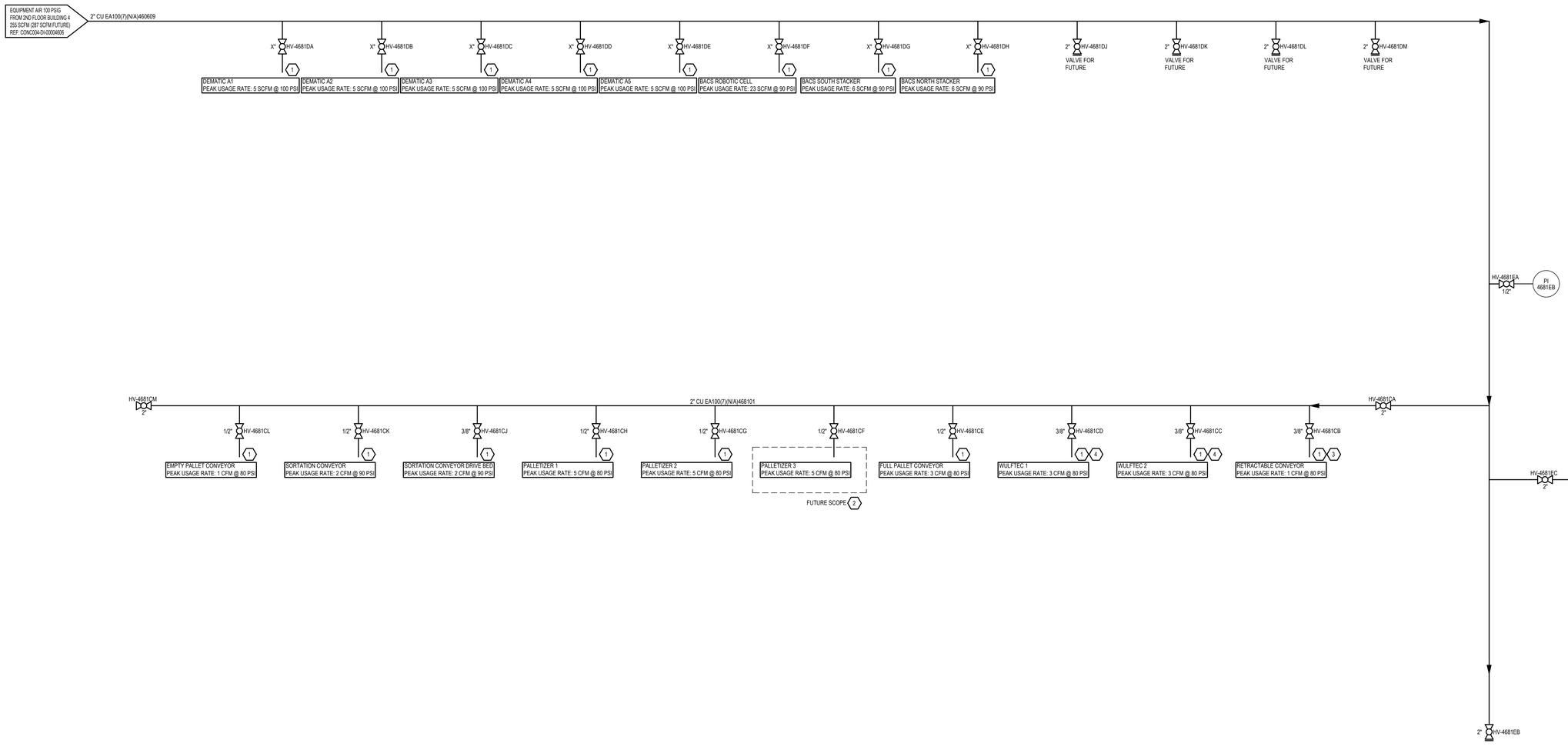
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2. FUTURE EQUIPMENT NOT IN CURRENT SCOPE. INSTALL BRANCH ISOLATION VALVE AND CAP ABOVE CEILING.
3. 3/8" OD TUBING, 1/4" FNPT CONNECTION IF FITTING IS REMOVED.
4. 3/8" ID FLEXIBLE HOSE.



LILLY ELECTRONIC SIGNATURES

2				
1				
0	ISSUED FOR CONSTRUCTION		08-FEB-2023	
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022	
REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE

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NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER ALEXANDER D. STONE
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

EQUIPMENT AIR DISTRIBUTION P&ID - B6 - 2ND FLOOR

SYSTEM TYPE				PHYSICAL BUILDING: CONC006	LEVEL/FLOOR
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A		CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		PURPOSE GROUP: CDAP		DRAWING INTENTION	SCALING SCALE: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION		ALTERNATE DOCUMENT ID	VERSION REV
CRITICAL HSE: NO		VENDOR		DOCUMENT ID: CONC006-DI-00004681	
CRITICAL: NO		ENGINEERING AGENCY DOC ID			

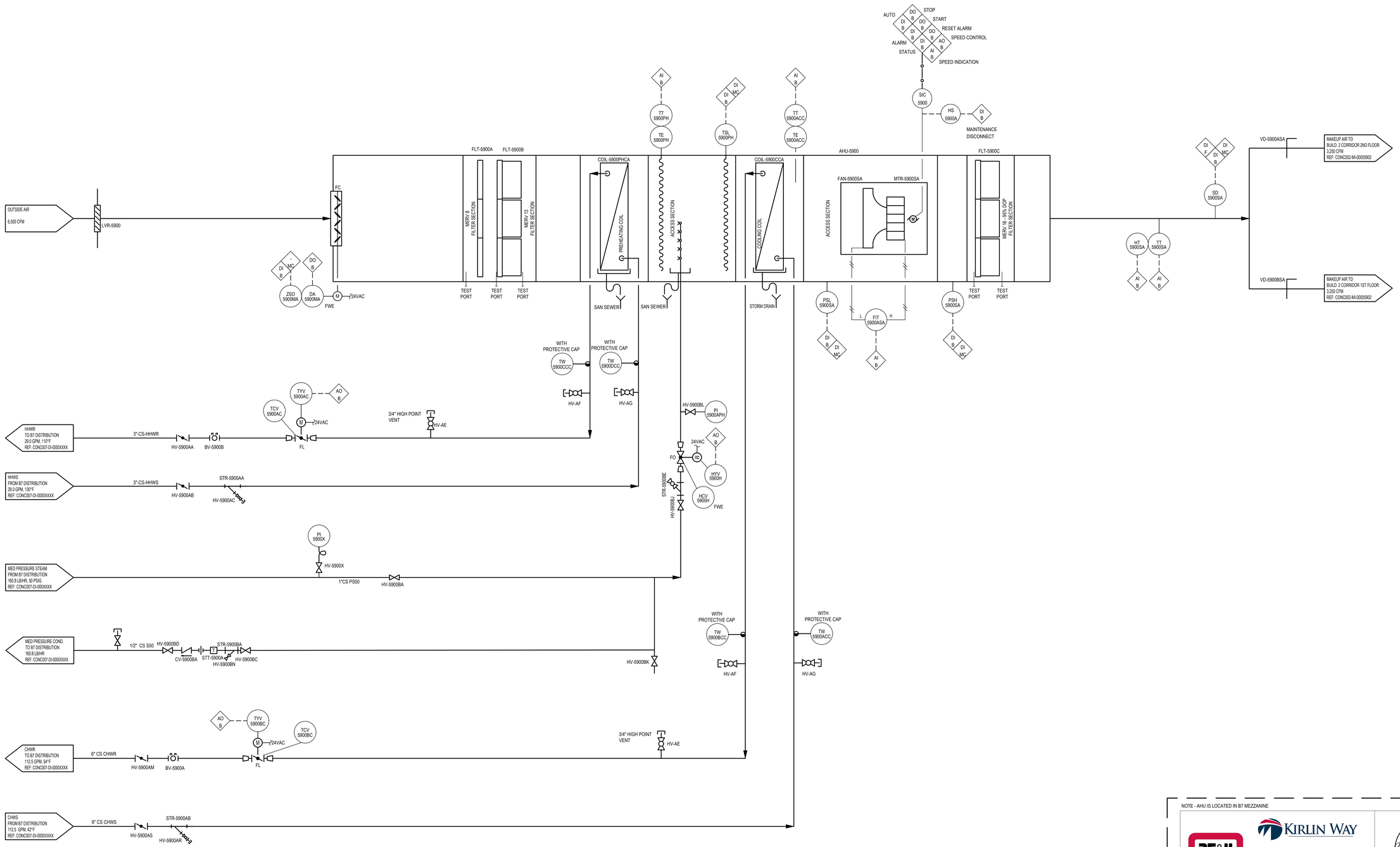
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HOLD

HOLD



HOLD

NOTE - AHU IS LOCATED IN B7 MEZZANINE

LILLY ELECTRONIC SIGNATURES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-5900 AF&ID

SYSTEM TYPE:		SPEC/BUILDING: CONC002	LEVEL/FLOOR:
DISC/PLANE: MI	DISCIPLINE CODE: CONC	LOCATION/GRID: N/A	COLOR: YELLOW
CRITICAL QUALITY: NO	DRAWING GROUP: UTILITIES	DRAWING INTENTION:	SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	MEMRAN REV:
CRITICAL HSE: NO	VENDOR:	DOCUMENT ID: CONC002-MI-00005900	
CRITICAL: NO	ENGINEERING AGENCY DOC ID:		

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HOLD

HHWS
FROM HH WATER DIST.
101.0 GPM, 130° F
REF: CONC004-DI-00004641

HHWR
TO HH WATER DIST.
101.0 GPM, 110° F
REF: CONC004-DI-00004641

CHWS
FROM CHILLED WATER DIST.
262.0 GPM, 42° F
REF: CONC004-DI-0004630

CHWR
TO CHILLED WATER DIST.
262.0 GPM, 54° F
REF: CONC004-DI-0004630

MAKEUP AIR
FROM AHU-5900
3,250 CFM
REF: CONC002-MI-00005900

EXHAUST AIR
FROM: JANITOR'S CLOSET E-203
100 CFM
REF: CONC006-MI-00004920

3"CS HHWS(6)(XXX)4641XXX

3"CS HHWR (6)(XXX)4641XXX

4"CS CHWS(6)(XXX)4630XXX

4"CS CHWR(6)(XXX)4630XXX

VD-2200AOA

FCU 5901L — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901M — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901N — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901P — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901Q — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901R — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901S — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901T — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901U — HW CC CW CC — MERV 13 FILTER — 1,700 CFM
FCU 5901V — HW CC CW CC — MERV 13 FILTER — 1,700 CFM

3,250 CFM

AI B — TT 5960A
AI B — TT 5961A
AI B — TT 5962A
AI B — TT 5963A
AI B — TT 5964A
AI B — TT 5965A
AI B — TT 5966A
AI B — TT 5967A
AI B — TT 5968A
AI B — TT 5969A

235 CFM

TRANSFER AIR
FROM: AGV CORRIDORS NE 4-200
235 CFM
REF: CONC004-MI-00004925

NC-HALLWAY

2-200		
17,000	CFM	
17,000	CFM	(MAX)
0.00	"WG	

VOL: 162,624 CU. FT
ACH: 6.3

START/STOP
DO B
DI B
AO B
FAULT
SPEED REF.
ECM
#
SIC 5902AEX
FAN 5901AEX
3,585 CFM
EXHAUST FAN
ROOF

START/STOP
DO B
DI B
AO B
FAULT
SPEED REF.
ECM
#
SIC 5901BEX
FAN 5901BEX
3,130 CFM
EXHAUST FAN
ROOF

HOLD

MAKEUP AIR
FROM AHU-5900
3,250 CFM
REF: CONC002-MI-00005900

HOLD

VD-2200BOA

FCU 5901A — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901B — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901C — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901D — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901E — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901F — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901G — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901H — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901J — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM
FCU 5901K — HW CC CW CC — MERV-8 PRE-FILTER, AND MERV 15 FINAL FILTER — 2,500 CFM

3,250 CFM

AI B — TT 5950A
AI B — TT 5951A
AI B — TT 5952A
AI B — TT 5953A
AI B — TT 5954A
AI B — TT 5955A
AI B — TT 5956A
AI B — TT 5957A
AI B — TT 5958A
AI B — TT 5959A

120 CFM

TRANSFER AIR
TO: CNC CORRIDOR 4-112
120 CFM
REF: CONC004-MI-00004927

CNC HALLWAY

2-102		
25,000	CFM	
25,000	CFM	(MAX)
0.00	"WG	

VOL: 191,075 CU. FT
ACH: 7.9 (10 FT CEILING)

HOLD

HOLD

HOLD

HOLD

LILLY ELECTRONIC SIGNATURES

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040718 ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE	
PRIMARY BUILDING	CONC002
LEVEL/FLOOR	
SUB DISCIPLINE	MI
LOCATION CODE	CONC
LOCATION/GRID	N/A
COLOR CODE	YELLOW
PROJECT NAME	CONC-300-6068
CRITICAL QUALITY	NO
LIFECYCLE GROUP	UTILITIES
DRAWING INTENTION	
DRAWING SCALE	NTS
CRITICAL BUSINESS	YES
EQUIPMENT CLASSIFICATION	
ALTERNATE DOCUMENT ID	
VERSION REV.	
CRITICAL ASE	NO
VENDOR	
DOCUMENT ID	CONC002-MI-00005901
CRITICAL	NO
ENGINEERING AGENCY DOC ID	

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HOLD

HOLD

HOLD

HOLD

HOLD

HOLD

HOLD

TYPICAL CNC FAN COIL

FCU
5560-5569

RETURN AIR FROM
BUILDING 2 CORRIDOR 1ST FLOOR
2,500 CFM
REF: CONC002-MI-00005902

2,500 CFM

SD
595XRA

DI
F

DI
MC

DI
B

MERV 8 FILTER

MERV 15 FILTER

COOLING COIL

HEATING COIL

M

AI
B

TT
595XSA

TE
595XSA

SUPPLY AIR TO
BUILDING 2 CORRIDOR 1ST FLOOR
2,500 CFM
REF: CONC002-MI-00005902

AO
B

TYV
595XCC

TCV
595XCC

24VAC

M

FL

CHWR
TO DISTRIBUTION
15.6 GPM, 54° F
REF: CONC002-DI-00005620

1-1/2"CS CHWR(55)(XXX)5620XXX

BV/HV-595XXA

DI
B

LS
595X

FD

HIGH POINT
VENT

ECM

#

SIC
595XSA

START/STOP

DO
B

SPEED REF.

AO
B

DI
B

FAULT

CHWS
FROM DISTRIBUTION
15.6 GPM, 42° F
REF: CONC002-DI-00005620

1-1/2"CS CHWS(55)(XXX)5620XXX

HV/STR-595XXA

3/4" LOW POINT
DRAIN

TYV
595XHC

AO
B

TCV
595XHC

24VAC

M

FC

HIGH POINT
VENT

HHWR
TO DISTRIBUTION
6 GPM, 110° F
REF: CONC002-DI-00005625

1"CS HHWR(55)(XXX)5625XXX

BV/HV-595XXB

HHWS
FROM DISTRIBUTION
6 GPM, 130° F
REF: CONC002-DI-00005625

1"CS HHWS(55)(XXX)5625XXX

HV/STR-595XXB

3/4" LOW POINT
DRAIN

TYPICAL NC FAN COIL

FCU
5560-5569

RETURN AIR FROM
BUILDING 2 CORRIDOR 2ND FLOOR
1,700 CFM
REF: CONC002-MI-00005902

1,700 CFM

SD
596XRA

DI
F

DI
MC

DI
B

MERV 8 FILTER

MERV 13 FILTER

COOLING COIL

HEATING COIL

M

AI
B

TT
596XSA

TE
596XSA

SUPPLY AIR TO
BUILDING 2 CORRIDOR 2ND FLOOR
1,700 CFM
REF: CONC002-MI-00005902

AO
B

TYV
596XCC

TCV
596XCC

24VAC

M

FL

CHWR
TO DISTRIBUTION
10.6 GPM, 54° F
REF: CONC002-DI-00005620

1-1/2"CS CHWR(55)(XXX)5620XXX

BV/HV-596XXA

DI
B

LS
596X

FD

HIGH POINT
VENT

ECM

#

SIC
596XSA

START/STOP

DO
B

SPEED REF.

AO
B

DI
B

FAULT

CHWS
FROM DISTRIBUTION
10.6 GPM, 42° F
REF: CONC002-DI-00005620

1-1/2"CS CHWS(55)(XXX)5620XXX

HV/STR-596XXA

3/4" LOW POINT
DRAIN

TYV
596XHC

AO
B

TCV
596XHC

24VAC

M

FC

HIGH POINT
VENT

HHWR
TO DISTRIBUTION
4.1 GPM, 110° F
REF: CONC002-DI-00005625

1"CS HHWR(55)(XXX)5625XXX

BV/HV-596XXB

HHWS
FROM DISTRIBUTION
4.1 GPM, 130° F
REF: CONC002-DI-00005625

1"CS HHWS(55)(XXX)5625XXX

HV/STR-596XXB

V-XXX

3/4" LOW POINT
DRAIN

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

2301 ROCKWOOD DR.
SUITE 200
RALEIGH, NC 27607
PH: 919.755.8800
FAX: 919.755.8900
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NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
040778
ANDREW T. NEILL

08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

FCU AF&ID - B2

ZONE	PROJECT PHASE / DESCRIPTION	CHANGE CONTROL	DATE
1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

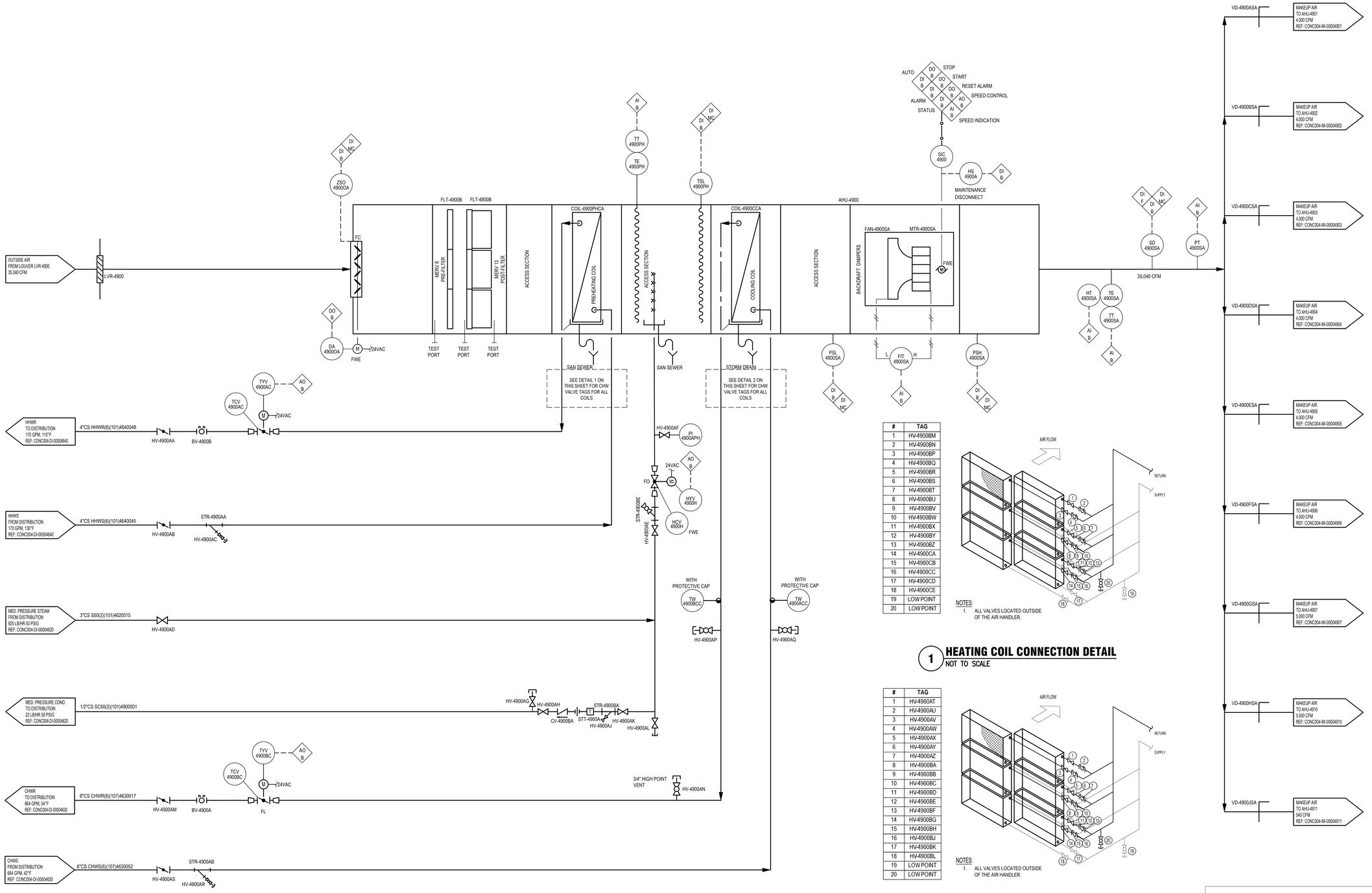
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SYSTEM TYPE		BUILDING/PHASING	LEVEL/FLOOR
		CONC002	
DISCIPLINE / LOCATION CODE		LOCATION/GRID	PROJECT NAME
MI	CONC	N/A	YELLOW	CONC-300-6068
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		UTILITIES		NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC002-MI-00005950	
NON-CRITICAL		ENGINEERING AGENCY PROC ID		
NO				

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#	TAG
1	HV-4900BM
2	HV-4900BN
3	HV-4900BP
4	HV-4900BQ
5	HV-4900BR
6	HV-4900BS
7	HV-4900BT
8	HV-4900BU
9	HV-4900BV
10	HV-4900BW
11	HV-4900BX
12	HV-4900BY
13	HV-4900BZ
14	HV-4900CA
15	HV-4900CB
16	HV-4900CC
17	HV-4900CD
18	HV-4900CE
19	LOW POINT
20	LOW POINT

NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 HEATING COIL CONNECTION DETAIL
NOT TO SCALE

#	TAG
1	HV-4900AT
2	HV-4900AU
3	HV-4900AV
4	HV-4900AW
5	HV-4900AX
6	HV-4900AY
7	HV-4900AZ
8	HV-4900BA
9	HV-4900BB
10	HV-4900BC
11	HV-4900BD
12	HV-4900BE
13	HV-4900BF
14	HV-4900BG
15	HV-4900BH
16	HV-4900BJ
17	HV-4900BK
18	HV-4900BL
19	LOW POINT
20	LOW POINT

NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

2 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040718 ANDREW T. NEILL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4900 AF&ID

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

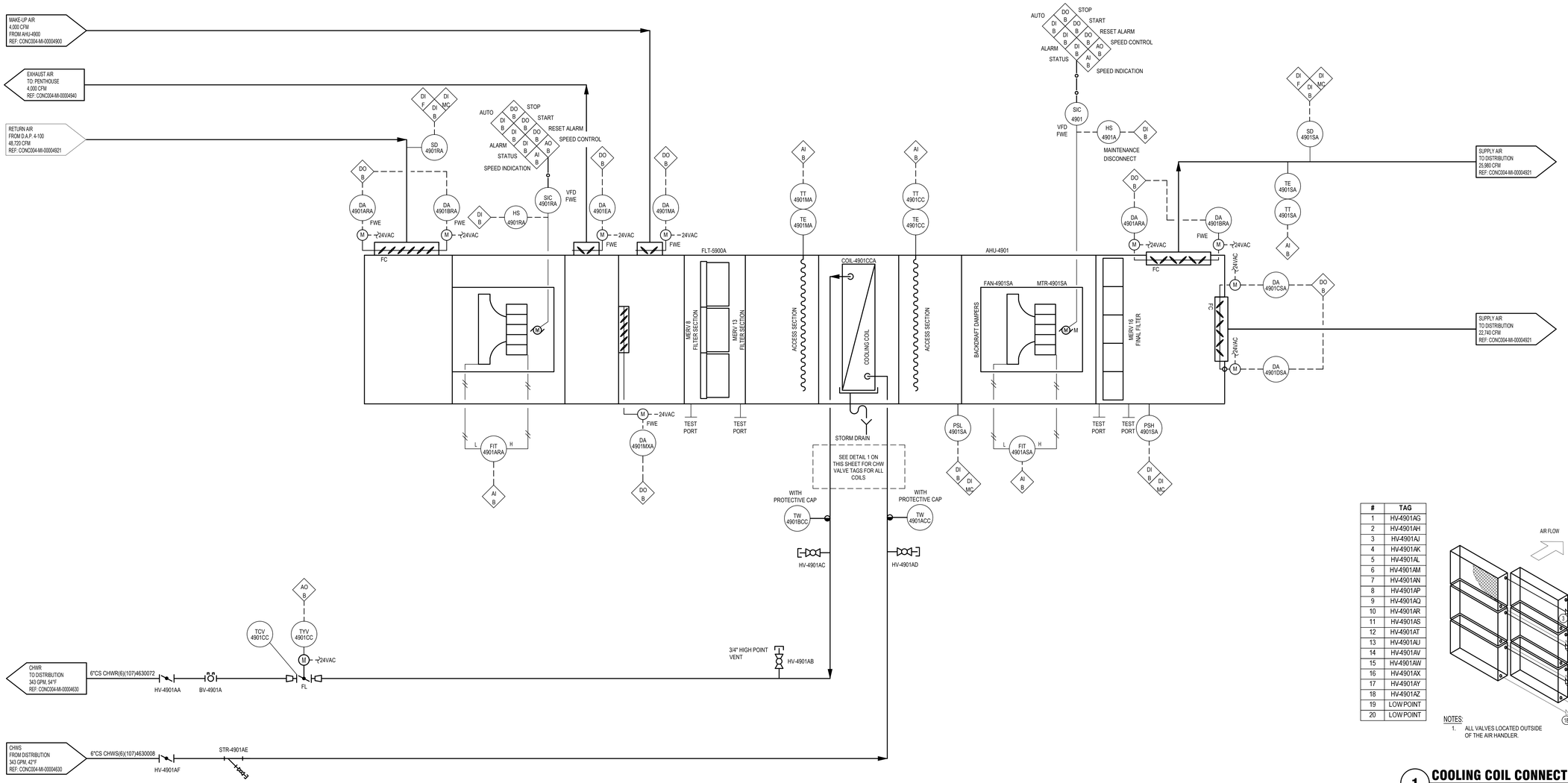
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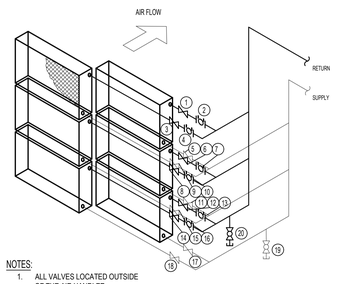
SYSTEM TYPE:		ENTITY/BUILDING: CONC004	LEVEL/FLOOR:
DISCIPLINE: MI	DOCUMENT CODE: CONC	LOCATION/GRID: N/A	SHEET: YELLOW
CRITICAL QUALITY: NO		PURPOSE GROUP: CDAP	DRAWING NUMBER: CONC-300-6070
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION:	DRAWING INTENTION: NTS
CRITICAL HSE: NO		VENDOR:	ALTERNATE DOCUMENT ID:
NON-CRITICAL: NO		ENGINEERING AGENCY DOC. ID:	MERIDIAN REV:
			DOCUMENT ID: CONC004-MI-00004900

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#	TAG
1	HV-4901AG
2	HV-4901AH
3	HV-4901AJ
4	HV-4901AK
5	HV-4901AL
6	HV-4901AM
7	HV-4901AN
8	HV-4901AP
9	HV-4901AQ
10	HV-4901AR
11	HV-4901AS
12	HV-4901AT
13	HV-4901AU
14	HV-4901AV
15	HV-4901AW
16	HV-4901AX
17	HV-4901AY
18	HV-4901AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

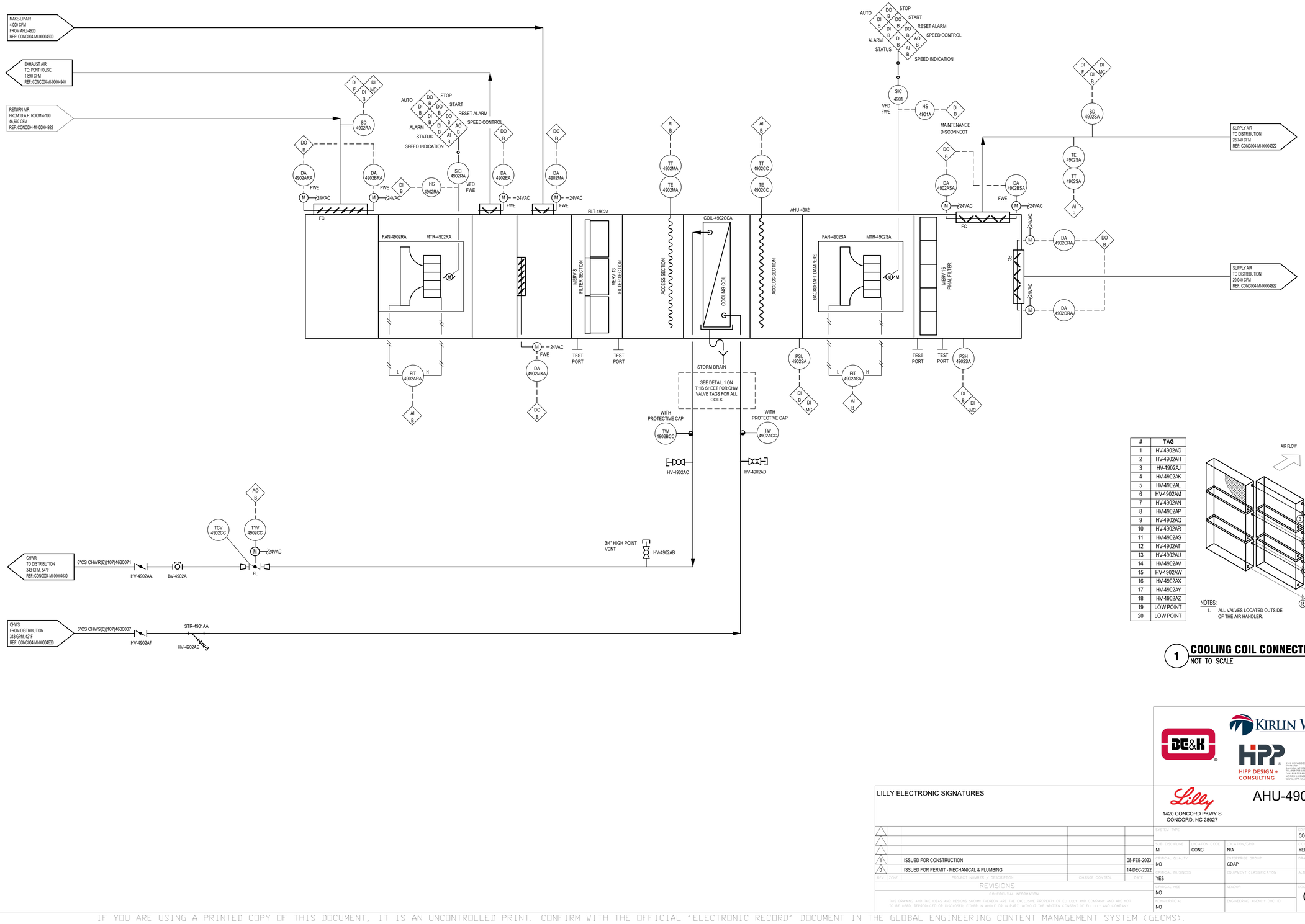
Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4901 AF&ID

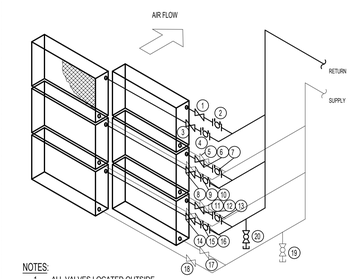
SYSTEM TYPE		BUILDING/PHASING: CONC004	LEVEL/FLOOR
FLW DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	PROJECT X-NAME: YELLOW
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: NTS
VITAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MI-00004901	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

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#	TAG
1	HV-4902AG
2	HV-4902AH
3	HV-4902AJ
4	HV-4902AK
5	HV-4902AL
6	HV-4902AM
7	HV-4902AN
8	HV-4902AP
9	HV-4902AQ
10	HV-4902AR
11	HV-4902AS
12	HV-4902AT
13	HV-4902AU
14	HV-4902AV
15	HV-4902AW
16	HV-4902AX
17	HV-4902AY
18	HV-4902AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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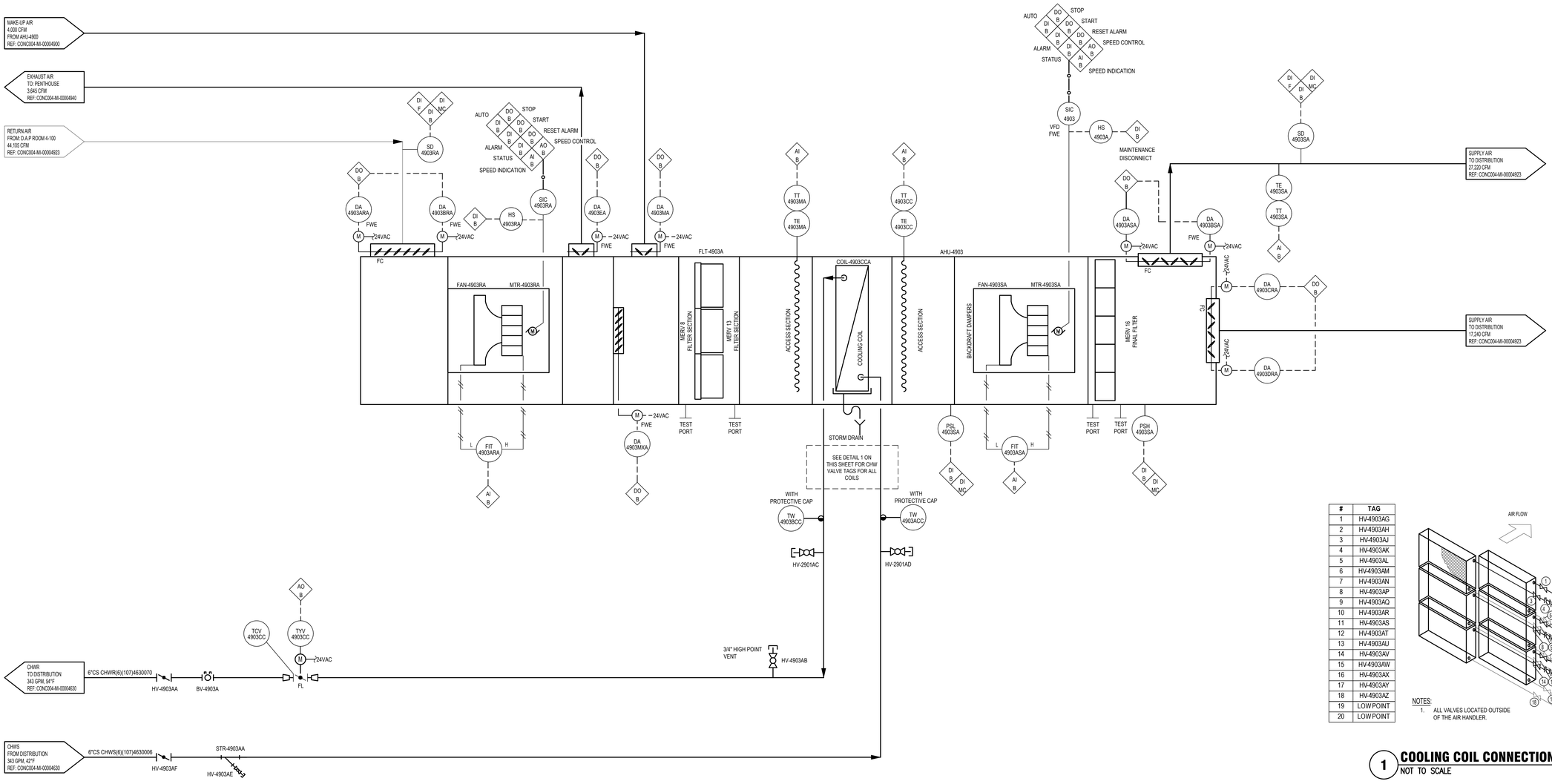
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HPP DESIGN + CONSULTING
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RALEIGH, NC 27607
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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL
08 Feb 2023

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CONCORD, NC 28027

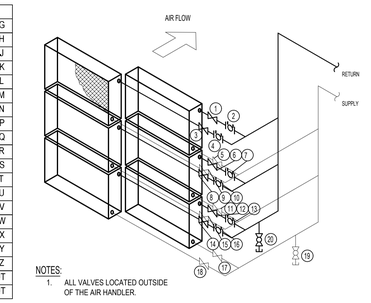
AHU-4902 AF&ID

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
FUNC. DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	COLOR: YELLOW
DRAWING: CONC-300-6070			
CRITICAL QUALITY: NO		DRAWING GROUP: CDAP	DRAWING INTENTION:
DRAWING SCALE: NTS			
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:
MERIDIAN REV:			
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MI-00004902
CGMP CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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#	TAG
1	HV-4903AG
2	HV-4903AH
3	HV-4903AJ
4	HV-4903AK
5	HV-4903AL
6	HV-4903AM
7	HV-4903AN
8	HV-4903AP
9	HV-4903AQ
10	HV-4903AR
11	HV-4903AS
12	HV-4903AT
13	HV-4903AU
14	HV-4903AV
15	HV-4903AW
16	HV-4903AX
17	HV-4903AY
18	HV-4903AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
4		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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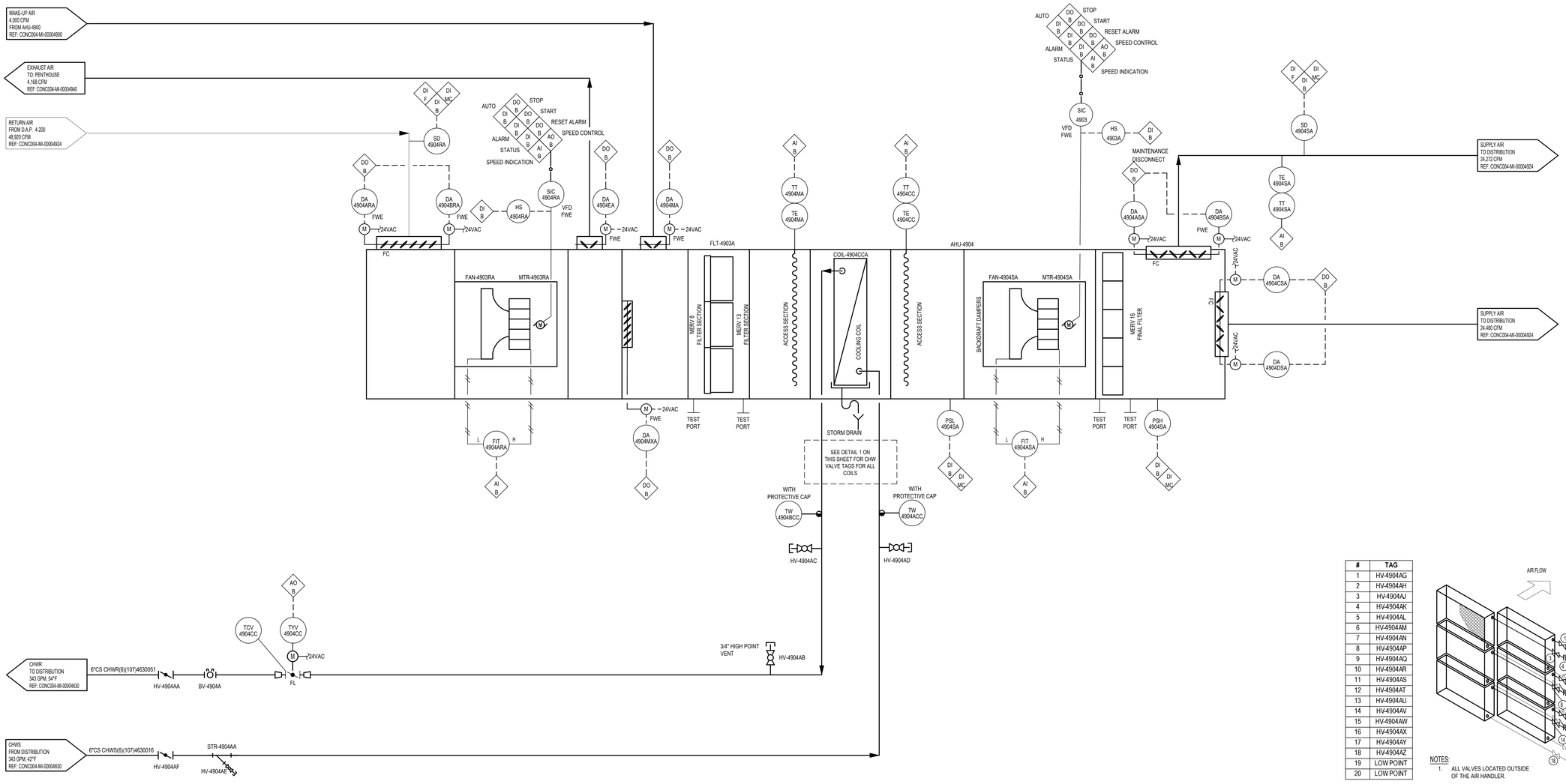
Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4903 AF&ID

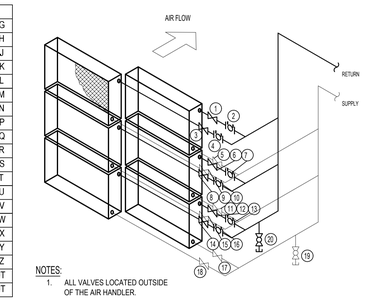
SYSTEM TYPE		CONSTRUCTION/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CONSTRUCTION PHASE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		DRAWING GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MI-00004903	
CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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#	TAG
1	HV-4904AG
2	HV-4904AH
3	HV-4904AJ
4	HV-4904AK
5	HV-4904AL
6	HV-4904AM
7	HV-4904AN
8	HV-4904AP
9	HV-4904AQ
10	HV-4904AR
11	HV-4904AS
12	HV-4904AT
13	HV-4904AU
14	HV-4904AV
15	HV-4904AW
16	HV-4904AX
17	HV-4904AY
18	HV-4904AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING
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FAX: 919.781.8990
NC FIRM LICENSE #: C-1146
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NORTH CAROLINA PROFESSIONAL SEAL 040756 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4904 AF&ID

ZONE	REVISIONS: PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ISSUED FOR CONSTRUCTION		08-FEB-2023
0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

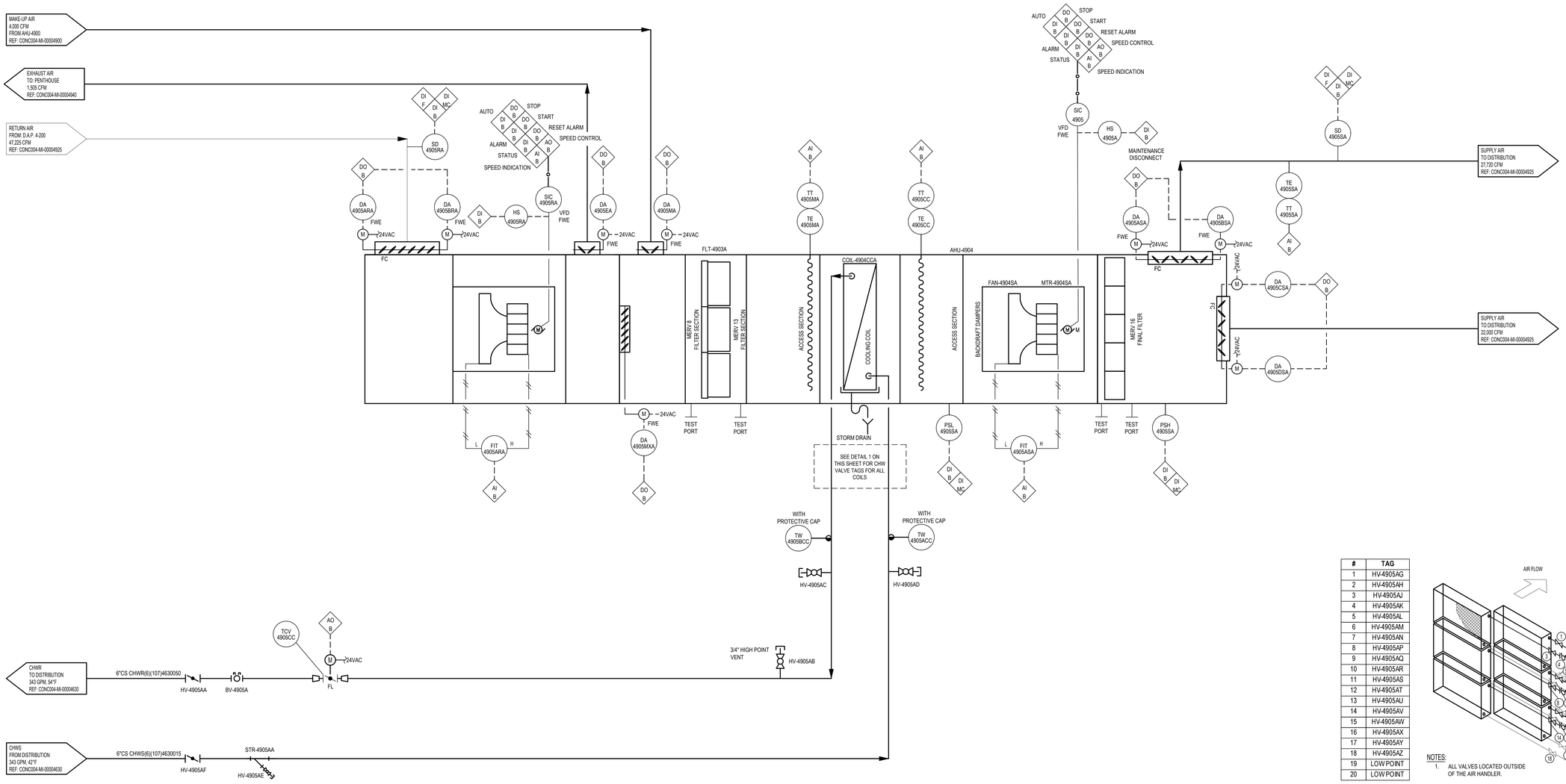
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SYSTEM TYPE			CONC004
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	LEVEL/FLOOR
MI	CONC	N/A	YELLOW
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION
NO		CDAP	
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC004-MI-00004904
CRITICAL AL		ENGINEERING AGENCY DOC ID	
NO			

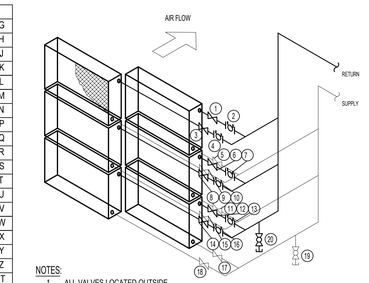
PROJECT NUMBER: CONC-300-6070
DRAWING SCALE: NTS
MERIDIAN REV:

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#	TAG
1	HV-4905AG
2	HV-4905AH
3	HV-4905AJ
4	HV-4905AK
5	HV-4905AL
6	HV-4905AM
7	HV-4905AN
8	HV-4905AP
9	HV-4905AQ
10	HV-4905AR
11	HV-4905AS
12	HV-4905AT
13	HV-4905AU
14	HV-4905AV
15	HV-4905AW
16	HV-4905AX
17	HV-4905AY
18	HV-4905AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

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HIPP DESIGN + CONSULTING
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www.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4905 AF&ID

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

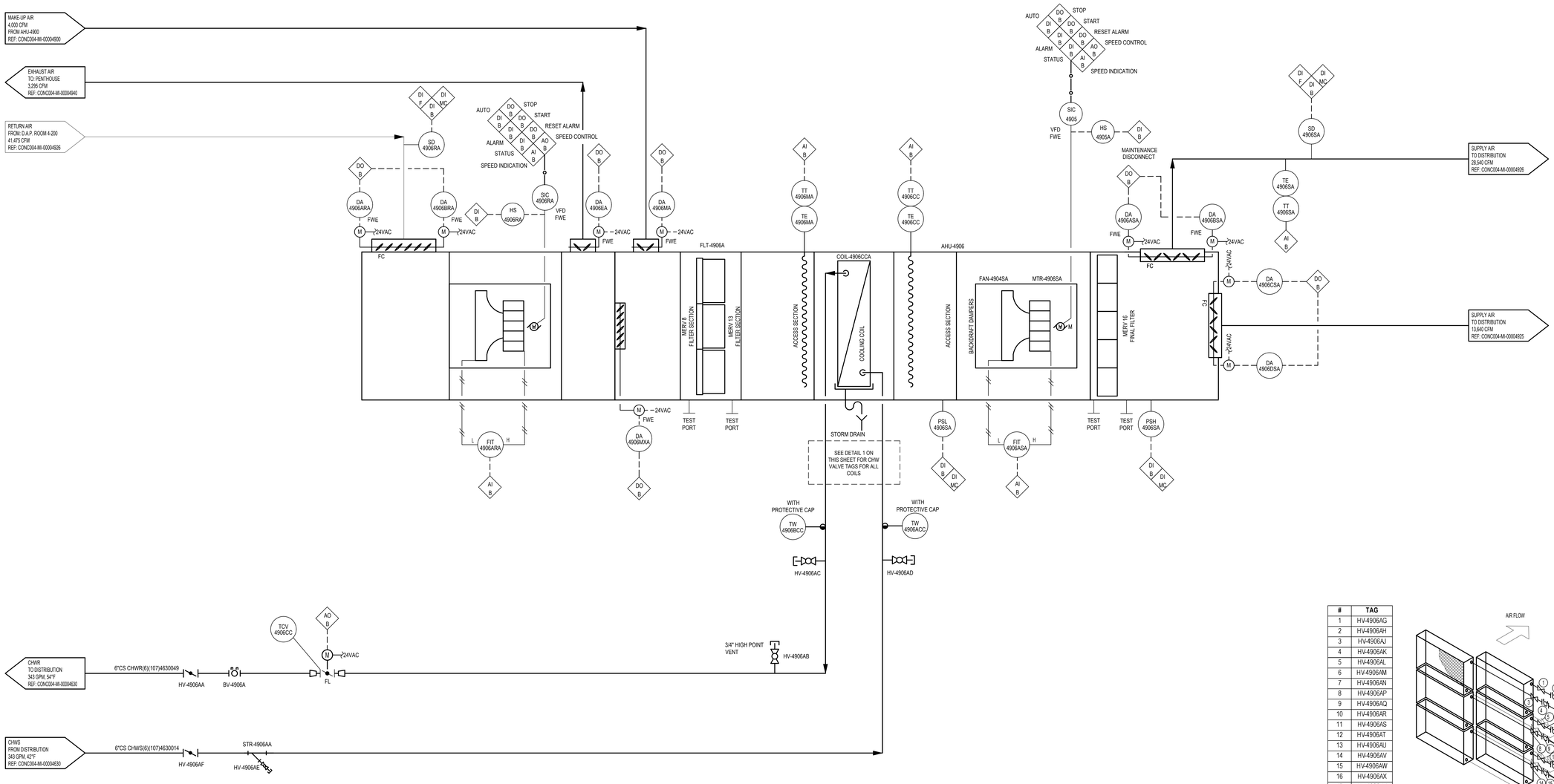
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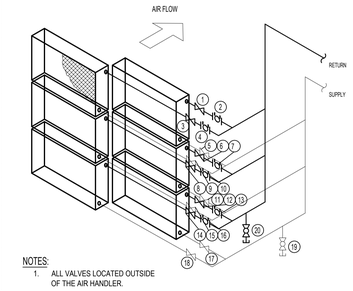
SYSTEM - TYPE		ENTITY/BUILDING	LEVEL/FLOOR
		CONC004	
DIST. DISCIPLINE	DESIGN CODE	PLAN/GRID	
MI	CONC	N/A	YELLOW
CRITICAL QUALITY	PURPOSE GROUP	DRAWING INTENTION	
NO	CDAP		NTS
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES			
CRITICAL HSE	VENDOR		
NO			
NON-CRITICAL	ENGINEERING AGENCY DOC ID	DOCUMENT NUMBER	
NO		CONC004-MI-00004905	

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#	TAG
1	HV-4906AG
2	HV-4906AH
3	HV-4906AJ
4	HV-4906AK
5	HV-4906AL
6	HV-4906AM
7	HV-4906AN
8	HV-4906AP
9	HV-4906AQ
10	HV-4906AR
11	HV-4906AS
12	HV-4906AT
13	HV-4906AU
14	HV-4906AV
15	HV-4906AW
16	HV-4906AX
17	HV-4906AY
18	HV-4906AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

HIPP DESIGN + CONSULTING
2301 REXWOODS DR
SUITE 200
RALEIGH, NC 27607
TEL: 919.755.1433
FAX: 919.755.1455
NC FIRM LICENSE # C-3144
WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL SEAL 040716 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4906 AF&ID

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

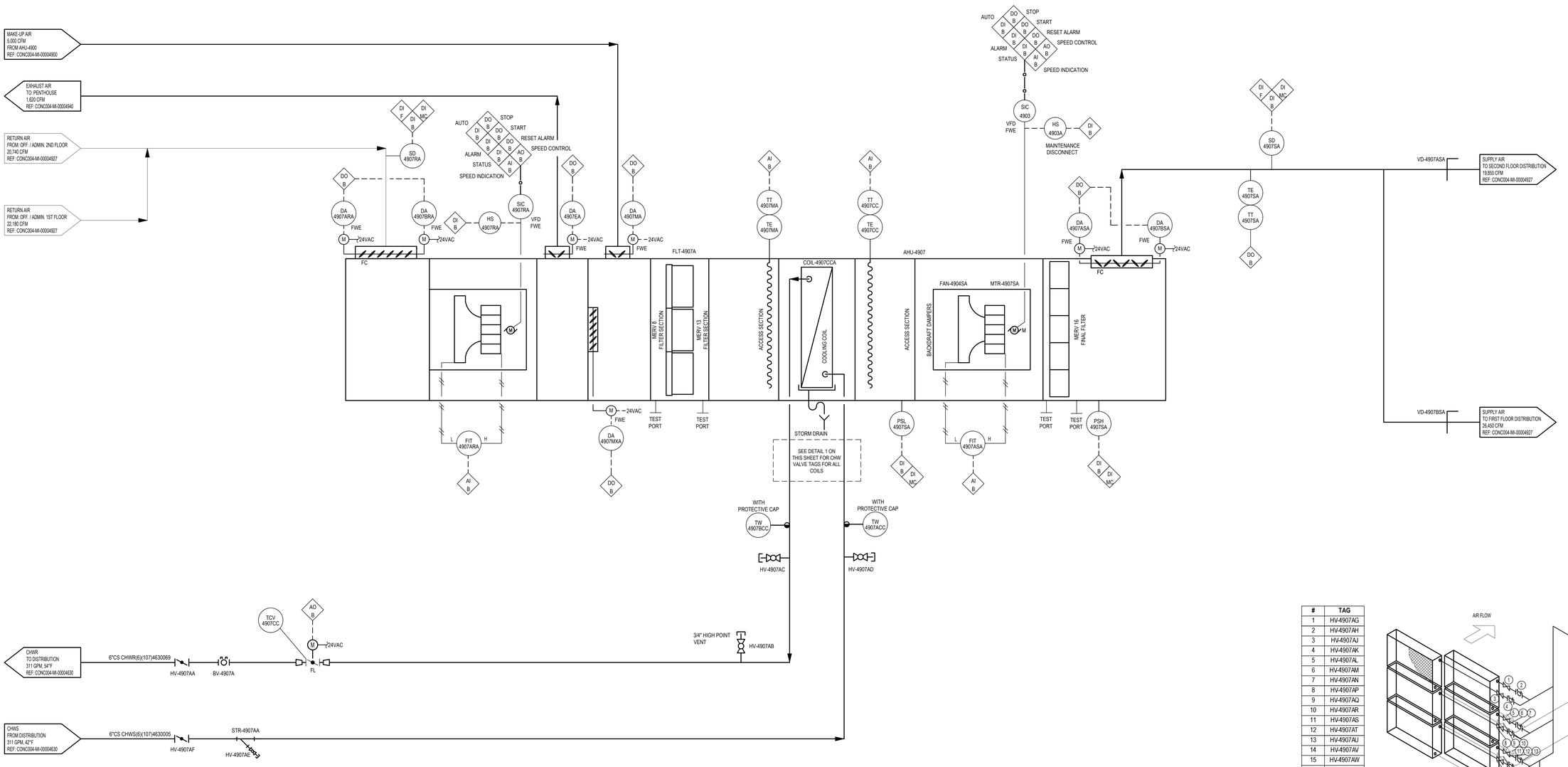
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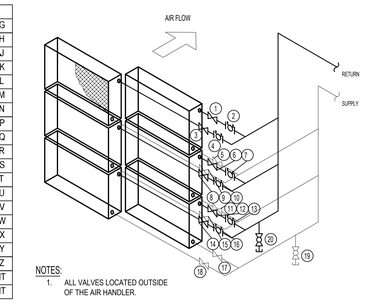
SYSTEM TYPE		PRINT DRAWING	LEVEL/FLOOR
		CONC004	
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE	PROJECT NAME
MI	CONC	N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY		PURPOSE GROUP	DRAWING INTENTION	SCORING SCALE
NO		CDAP	NTS	
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	VERITRAK REV
YES				
CRITICAL RISK		VENDOR	DOCUMENT ID	
NO			CONC004-MI-00004906	
HYPOTHETICAL		ENGINEERING AGENCY DOC ID		
NO				

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#	TAG
1	HV-4907AG
2	HV-4907AH
3	HV-4907AJ
4	HV-4907AK
5	HV-4907AL
6	HV-4907AM
7	HV-4907AN
8	HV-4907AP
9	HV-4907AQ
10	HV-4907AR
11	HV-4907AS
12	HV-4907AT
13	HV-4907AU
14	HV-4907AV
15	HV-4907AW
16	HV-4907AX
17	HV-4907AY
18	HV-4907AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

BC&K

KIRLIN WAY

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040718 ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4907 AF&ID

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

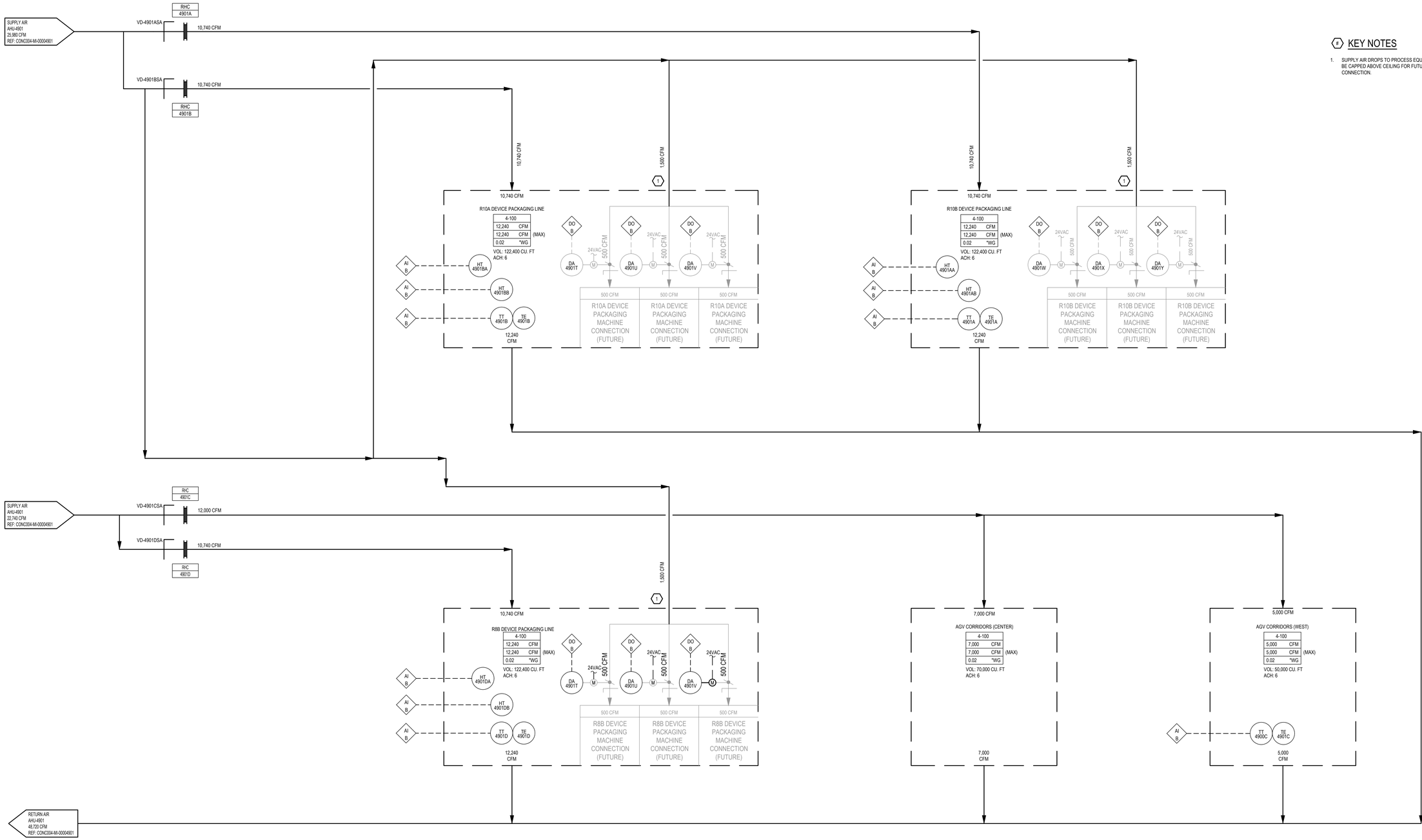
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SYSTEM - TYPE		BUILDING	LEVEL/FLOOR
		CONC004	
FILE - DISCIPLINE: MI	FILE - BUILDING CODE: CONC	FILE - ZONE/GRID: N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION:	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	MERIDIAN REV:
CRITICAL HSE: NO	VENDOR:		
NON-CGMP AL: NO	ENGINEERING AGENCY DOC. ID:	DOCUMENT ID:	CONC004-MI-00004907

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08 Feb 2023

LILLY ELECTRONIC SIGNATURES

Lilly

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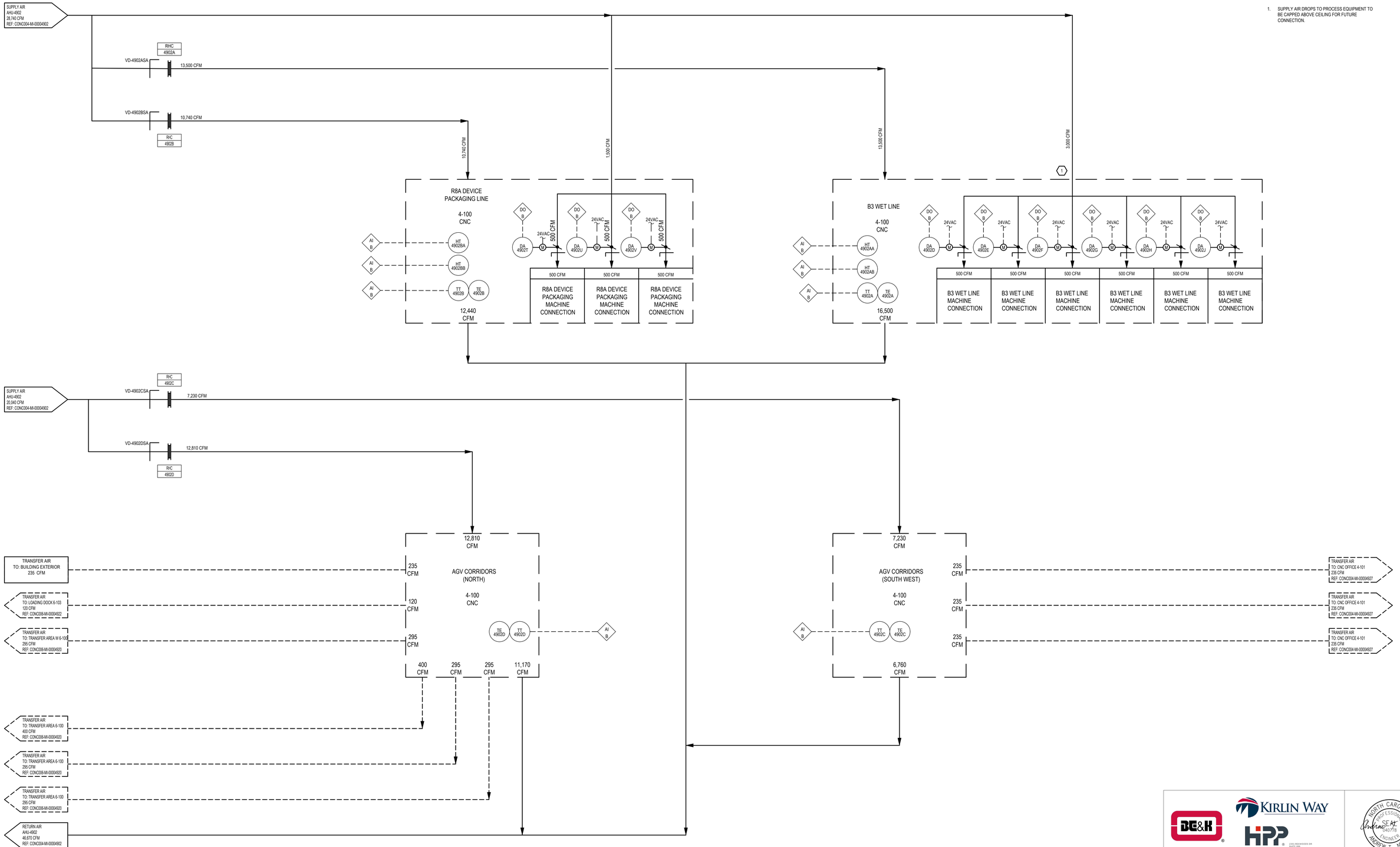
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SYSTEM TYPE		BSAP/C/IB/LDNG	LEVEL/FLOOR
		CONC004	
SUB- DISCIPLINE	LOCATION CODE	LOCATION/GRID	FCC CODE	PROJECT NAME
MI	CONC	N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY		DESIGN GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		NTS
CRITICAL BUSINESS		DOCUMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MAINTAIN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-MI-00004921	
CRITICAL		ENGINEERING AGENCY DOC ID		
NO				

KEY NOTES

1. SUPPLY AIR DROPS TO PROCESS EQUIPMENT TO BE CAPPED ABOVE CEILING FOR FUTURE CONNECTION.



BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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LILLY ELECTRONIC SIGNATURES

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CONCORD, NC 28027

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ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
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0	ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		PROJECT NUMBERING	LEVEL/FLOOR
		CONC004	-
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
MI	CONC	N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-MI-00004922	
NON-CRITICAL		ENGINEERING AGENCY DOC ID		
NO				

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KEY NOTES

1. SUPPLY AIR DROPS TO PROCESS EQUIPMENT TO BE CAPPED ABOVE CEILING FOR FUTURE CONNECTION.

SUPPLY AIR
AHU-4903
27,220 CFM
REF: CONC004-MI-00004903

RHC 4903A
VD-4903ASA
5,660 CFM
VD-4903BSA
5,660 CFM
RHC 4903B

5,660 CFM
5,300 CFM
1

R9 WET ASSEMBLY LINE
4-100
10,960 CFM
10,960 CFM (MAX)
0.02 "WG
VOL: 109,620 CU. FT
ACH: 6

AI B
HT 4903BA
HT 4903BB
TT 4903B
TE 4903B
10,960 CFM

DO B
24VAC
DA 4903D
DA 4903E
DA 4903F
DA 4903G
DA 4903H
DA 4903J
DA 4903K
M

757 CFM
R9 WET ASSEMBLY MACHINE CONNECTION (FUTURE)

5,660 CFM
5,300 CFM

R8 WET ASSEMBLY LINE
4-100
10,960 CFM
10,960 CFM (MAX)
0.02 "WG
VOL: 109,620 CU. FT
ACH: 6

AI B
HT 4903AA
HT 4903AB
TT 4903A
TE 4903A
10,960 CFM

757 CFM
R8 WET ASSEMBLY MACHINE CONNECTION

SUPPLY AIR
AHU-4903
17,240 CFM
REF: CONC004-MI-00004903

RHC 4903C
VD-4903CSA
11,580 CFM
VD-4903DSA
5,660 CFM
RHC 4903D

5,660 CFM
5,300 CFM
1

R10 WET ASSEMBLY LINE
4-100
10,960 CFM
10,960 CFM (MAX)
0.02 "WG
VOL: 109,620 CU. FT
ACH: 6

AI B
HT 4903DA
HT 4903DB
TT 4903D
TE 4903D
10,960 CFM

DO B
24VAC
DA 4903D
DA 4903E
DA 4903F
DA 4903G
DA 4903H
DA 4903J
DA 4903K
M

757 CFM
R10 WET ASSEMBLY MACHINE CONNECTION (FUTURE)

6,000 CFM

AGV CORRIDORS (CENTER)
4-100
6,000 CFM
6,000 CFM (MAX)
0.02 "WG
VOL: 60,000 CU. FT
ACH: 6

AI B
TT 4903C
TE 4903C
6,000 CFM

5,580 CFM

AGV CORRIDORS (SOUTH)
4-100
5,580 CFM
5,580 CFM (MAX)
0.02 "WG
VOL: 55,800 CU. FT
ACH: 6

5,225 CFM
235 CFM
120 CFM

TRANSFER AIR
TO: CNC CORRIDOR 4-112
120 CFM
REF: CONC004-MI-00004927

TRANSFER AIR
TO: CNC CORRIDOR 4-112
235 CFM
REF: CONC004-MI-00004927

RETURN AIR
AHU-4903
44,105 CFM
REF: CONC004-MI-00004903

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

LILLY ELECTRONIC SIGNATURES

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CONCORD, NC 28027

AHU-4903 AF&ID - DISTRIBUTION

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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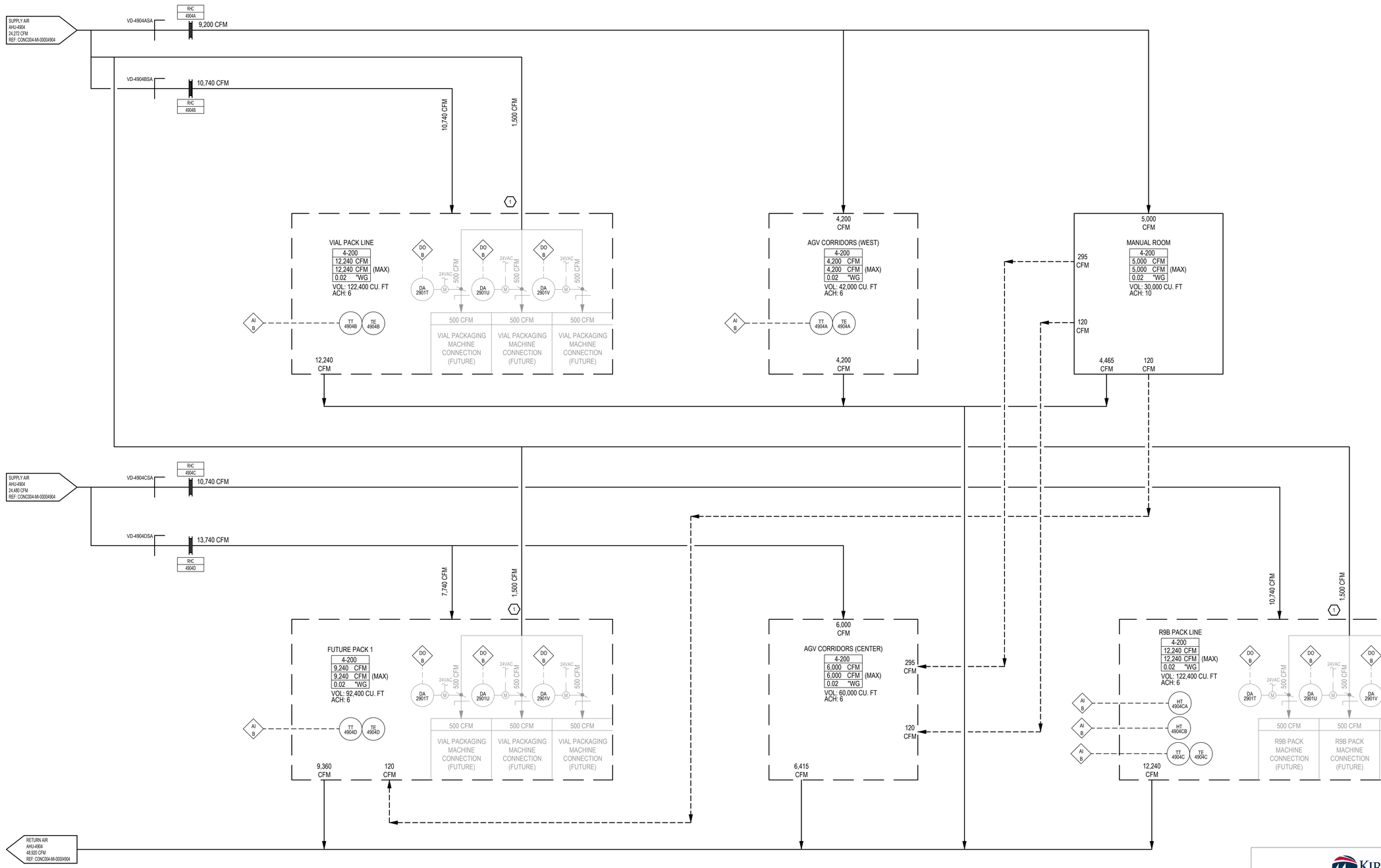
SYSTEM TYPE		SERVICE/BUILDING	LEVEL/FLOOR
		CONC004	
FUNC. DISCIPLINE	LOCATION CODE	LOCATION/GRID	COLOR
MI	CONC	N/A	YELLOW
CRITICAL QUALITY		EQUIPMENT GROUP	DRAWING INTENTION
NO		CDAP	NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC004-MI-00004923
CQA CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

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KEY NOTES

1. SUPPLY AIR DROPS TO PROCESS EQUIPMENT TO BE CAPPED ABOVE CEILING FOR FUTURE CONNECTION.



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08 Feb 2023

LILLY ELECTRONIC SIGNATURES

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CONCORD, NC 28027

AHU-4904 AF&ID - DISTRIBUTION

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		BSP&E/BUILDING	CONC004
SUB DISCIPLINE	MI	LOCATION CODE	CONC
LOCATION/GRID	N/A	LEVEL/FLOOR	
CRITICAL QUALITY	NO	CLASSIFIED GROUP	CDAP
CODE CYCLE	YELLOW	PROJECT NAME	CONC-300-6070
DRAWING INTENTION		DRAWING SCALE	NTS
CRITICAL BUSINESS	YES	EQUIPMENT CLASSIFICATION	
ALTERNATE DOCUMENT ID		MERIDIAN REV	
CRITICAL HSE	NO	VENDOR	
DOCUMENT ID	CONC004-MI-00004924		
CRITICAL	NO	ENGINEERING AGENCY DOC ID	

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KEY NOTES

1. SUPPLY AIR DROPS TO PROCESS EQUIPMENT TO BE CAPPED ABOVE CEILING FOR FUTURE CONNECTION.

SUPPLY AIR
AHU-4905
27,720 CFM
REF: CONC004-MI-00004905

VD-4905ASA — RHC 4905A — 13,980 CFM

VD-4905BSA — 10,740 CFM — RHC 4905B

10,740 CFM

1,500 CFM

6,000 CFM

7,980 CFM

R9A PACK LINE

4-200	
12,240	CFM
12,240	CFM (MAX)
0.02	"WG

VOL: 124,240 CU. FT
ACH: 6

AI B — HT 4905BA
AI B — HT 4905BB
AI B — TT 4905B, TE 4905B

DO B — DA 2901T — 24VAC — 500 CFM — 500 CFM
DO B — DA 2901U — 24VAC — 500 CFM — 500 CFM
DO B — DA 2901V — 24VAC — 500 CFM — 500 CFM

500 CFM	500 CFM	500 CFM
R9A PACKAGING MACHINE CONNECTION (FUTURE)	R9A PACKAGING MACHINE CONNECTION (FUTURE)	R9A PACKAGING MACHINE CONNECTION (FUTURE)

12,240 CFM

6,000 CFM — AGV CORRIDORS (CENTRAL)

4-200	
6,000	CFM
6,000	CFM (MAX)
0.02	"WG

VOL: 60,000 CU. FT
ACH: 6

6,000 CFM

7,980 CFM — AGV CORRIDORS (SOUTH WEST)

4-200	
7,980	CFM
7,980	CFM (MAX)
0.02	"WG

VOL: 79,800 CU. FT
ACH: 6

AI B — TT 4905A, TE 4905A

7,275 CFM | 235 CFM | 235 CFM | 235 CFM

- TRANSFER AIR TO: VESTIBULE 4-212 — 235 CFM — REF: CONC004-MI-00004928
- TRANSFER AIR TO: CNC OFFICE 4-211 — 235 CFM — REF: CONC004-MI-00004928
- TRANSFER AIR TO: CNC OFFICE 4-211 — 235 CFM — REF: CONC004-MI-00004928

SUPPLY AIR
AHU-4905
22,000 CFM
REF: CONC004-MI-00004905

VD-4905CSA — RHC 4905C — 8,460 CFM

VD-4905DSA — 13,540 CFM — RHC 4905D

8,460 CFM

1,500 CFM

TRANSFER AIR TO: BUILDING EXTERIOR — 120 CFM

- TRANSFER AIR TO: TRANSFER AREA W 6-200 — 295 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: TRANSFER AREA W 6-200 — 400 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: TRANSFER AREA W 6-200 — 295 CFM — REF: CONC006-MI-00004920

12,330 CFM — AGV CORRIDORS (NORTH)

4-200	
12,330	CFM
12,330	CFM (MAX)
0.02	"WG

VOL: 123,300 CU. FT
ACH: 6

TE 4905D — TT 4905D — AI B

10,510 CFM

295 CFM | 120 CFM | 295 CFM

- TRANSFER AIR TO: TRANSFER AREA E 6-200 — 295 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: TRANSFER AREA E 6-200 — 120 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: TRANSFER AREA E 6-200 — 295 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: TRANSFER 6-200 — 235 CFM — REF: CONC006-MI-00004920
- TRANSFER AIR TO: NC HALLWAY 2-200 — 235 CFM — REF: CONC002-MI-00005902

1,210 CFM — AGV CORRIDORS (NE BLDG 2 OVERLAP)

4-200	
1,210	CFM
1,210	CFM (MAX)
0.02	"WG

VOL: 12,100 CU. FT
ACH: 6

235 CFM | 235 CFM | 740 CFM

RETURN AIR
AHU-4905
47,225 CFM
REF: CONC004-MI-00004905

PACK SHELL

4-200	
9,960	CFM
9,960	CFM (MAX)
0.02	"WG

VOL: 99,600 CU. FT
ACH: 6

AI B — TT 4905C, TE 4905C

DO B — DA 2901T — 24VAC — 500 CFM
DO B — DA 2901U — 24VAC — 500 CFM
DO B — DA 2901V — 24VAC — 500 CFM

500 CFM	500 CFM	500 CFM
VIAL PACKAGING MACHINE CONNECTION (FUTURE)	VIAL PACKAGING MACHINE CONNECTION (FUTURE)	VIAL PACKAGING MACHINE CONNECTION (FUTURE)

9,960 CFM

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040718 ANDREW T. NEILL
08 Feb 2023

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CONCORD, NC 28027

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LILLY ELECTRONIC SIGNATURES

REV	ZONE	REVISIONS	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

PROJECT NUMBER / DESCRIPTION

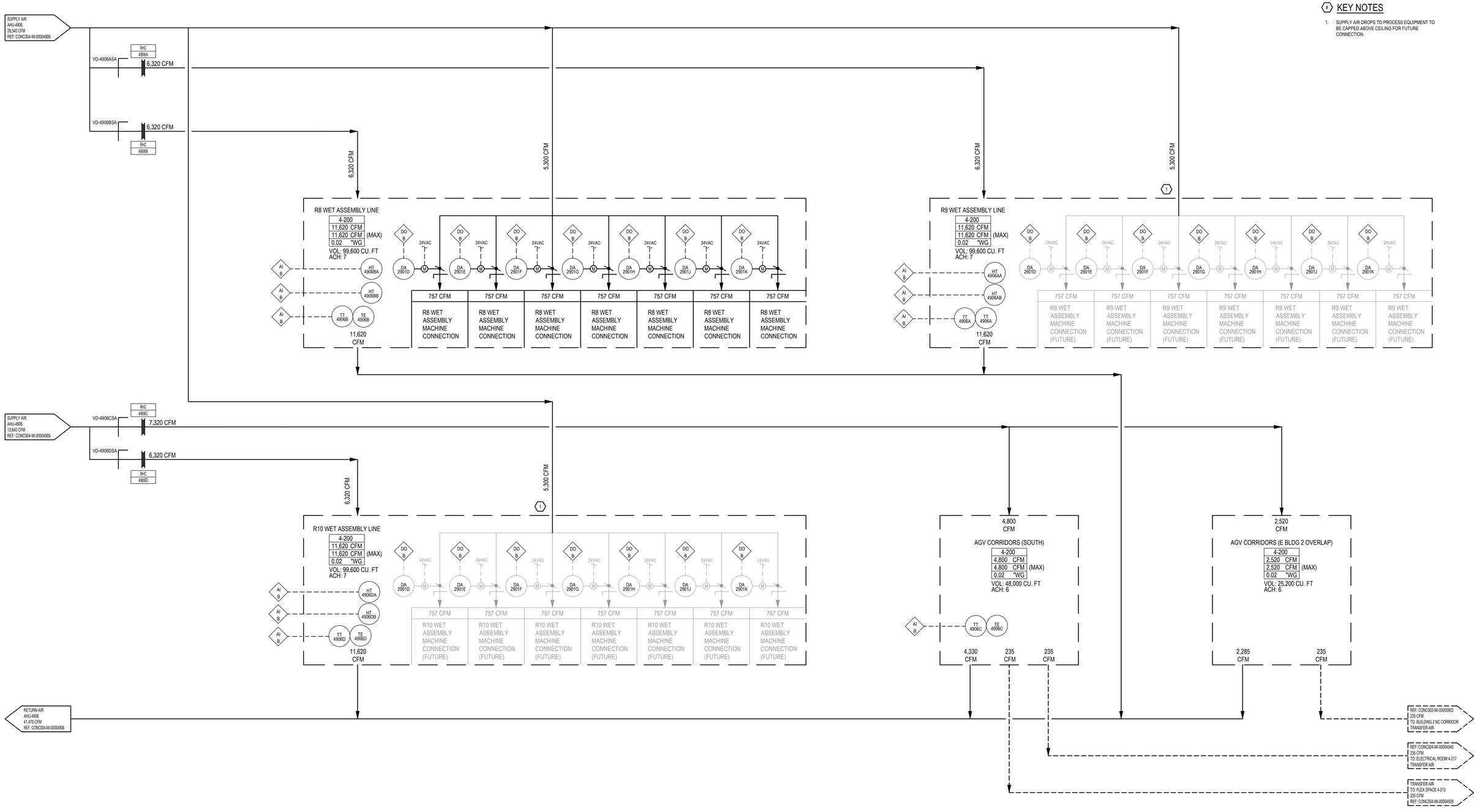
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SYSTEM / TYPE		ENTITY/BUILDING: CONC004	LEVEL/FLOOR:
DISC/PHASE: MI	DISCIPLINE CODE: CONC	LOCATION/GRID: N/A	ZONE: YELLOW
CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION:	SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	MERIDIAN REV:
CRITICAL HSE: NO	VENDOR:		
NON-CRITICAL: NO	ENGINEERING AGENCY DOC. ID:	DOCUMENT ID: CONC004-MI-00004925	

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KEY NOTES

1. SUPPLY AIR DROPS TO PROCESS EQUIPMENT TO BE CAPPED ABOVE CEILING FOR FUTURE CONNECTION.

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08 Feb 2023

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1420 CONCORD PKWY S
CONCORD, NC 28027

LILLY ELECTRONIC SIGNATURES

REV	ZONE	DESCRIPTION	CHANGE CONTROL	DATE
/1		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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AHU-4906 AF&ID - DISTRIBUTION

SYSTEM TYPE		ENTITY/BUILDING: CONC004	LEVEL/FLOOR
DISC/PLINE: MI	LOCATION CODE: CONC	DESIGN/GRID: N/A	YELLOW / CONC-300-6070
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	SCALE: NTS
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MI-00004926	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC. ID		

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SUPPLY AIR
FROM: AHU-4907
26,450 CFM
REF: CONC004-MI-00004907

RETURN AIR
TO: AHU-4907
22,180 CFM
REF: CONC004-MI-00004907

FIRST FLOOR
10,400 CFM

RHC 4101A — 2,100 CFM
RHC 4101B — 2,700 CFM
RHC 4101C — 700 CFM

5,500 CFM
CNC OFFICE
4-101
5,500 CFM
5,500 CFM (MAX)
0.00 "WG
VOL: 48,096 CU. FT
ACH: 6.8
TT 4101AA
TT 4101AB
TT 4101AC
AI B
235 CFM | 5,970 CFM | 235 CFM

RHC 4102
200 CFM
FOCUS ROOM
4-102
200 CFM
200 CFM (MAX)
0.00 "WG
VOL: 492 CU. FT
ACH: 24
TT 4102AA
AI B
200 CFM

RHC 4103 — 450 CFM
150 CFM
FOCUS ROOM
4-103
150 CFM
150 CFM (MAX)
0.00 "WG
VOL: 508 CU. FT
ACH: 17
TT 4103AA
AI B
150 CFM

RHC 4104
150 CFM
FOCUS ROOM
4-104
150 CFM
150 CFM (MAX)
0.00 "WG
VOL: 508 CU. FT
ACH: 17
AI B
150 CFM

RHC 4105
150 CFM
FOCUS ROOM
4-105
150 CFM
150 CFM (MAX)
0.00 "WG
VOL: 508 CU. FT
ACH: 17
AI B
150 CFM

RHC 4107 — 800 CFM
400 CFM
CONF. ROOM
4-106
400 CFM
400 CFM (MAX)
0.00 "WG
VOL: 3,150 CU. FT
ACH: 7.7
AI B
400 CFM

400 CFM
TEAM ROOM
4-107
400 CFM
400 CFM (MAX)
0.00 "WG
VOL: 3,079 CU. FT
ACH: 7.7
TT 4107AA
AI B
400 CFM

RHC 4108
200 CFM
ENCLAVE
4-108
200 CFM
200 CFM (MAX)
0.00 "WG
VOL: 1,566 CU. FT
ACH: 7.7
TT 4108AA
AI B
200 CFM

RHC 4110
350 CFM
TEAM ROOM
4-110
350 CFM
350 CFM (MAX)
0.00 "WG
VOL: 2,718 CU. FT
ACH: 7.7
TT 4110AA
AI B
350 CFM

400 CFM
ELECTRICAL ROOM
4-109
400 CFM
400 CFM (MAX)
0.00 "WG
VOL: 1,305 CU. FT
ACH: 18
400 CFM

RHC 4112
2,500 CFM — 120 CFM
CNC CORRIDOR
4-112
2,500 CFM
2,500 CFM (MAX)
0.00 "WG
VOL: 24,264 CU. FT
ACH: 6.2
TT 4112AA
AI B
3,210 CFM | 235 CFM | 235 CFM | 120 CFM

TRANSFER AIR
FROM: BLD-2 CORR. 1ST FLR
120 CFM
REF: CONC002-MI-00005902

11,580 CFM

TRANSFER AIR
FROM: D.A.P. ROOM 4-100
120 CFM
REF: CONC004-MI-00004923

TRANSFER AIR
FROM: D.A.P. ROOM 4-100
120 CFM
REF: CONC004-MI-00004923

TRANSFER AIR
FROM: D.A.P. ROOM 4-100
235 CFM
REF: CONC004-MI-00004922

TRANSFER AIR
FROM: D.A.P. ROOM 4-100
235 CFM
REF: CONC004-MH00004922

TRANSFER AIR
FROM: D.A.P. ROOM 4-100
235 CFM
REF: CONC004-MH00004922

FIRST FLOOR
10,400 CFM

RHC 4114
200 CFM
FOCUS ROOM
4-114
200 CFM
200 CFM (MAX)
0.00 "WG
VOL: 699 CU. FT
ACH: 17
TT 4114AA
AI B
200 CFM

RHC 4113A — 500 CFM
RHC 4113B — 2,000 CFM
RHC 4113C — 1,800 CFM
300 CFM
4,600 CFM
OFFICE SPACE
4-113
4,600 CFM
4,600 CFM (MAX)
0.00 "WG
VOL: 30,800 CU. FT
ACH: 8.9
TT 4113AA
TT 4113AB
TT 4113AC
AI B
4,600 CFM

RHC 4122A — 800 CFM
RHC 4122B — 500 CFM | 2,000 CFM
2,500 CFM
DIRTY CORRIDOR
4-122
2,500 CFM
2,500 CFM (MAX)
0.00 "WG
VOL: 19,215 CU. FT
ACH: 7.8
TT 4122AA
TT 4122AB
AI B
2,500 CFM

RHC 4118
450 CFM
CONFERENCE ROOM
4-118
450 CFM
450 CFM (MAX)
0.00 "WG
VOL: 3,256 CU. FT
ACH: 8.3
TT 4118AA
AI B
450 CFM

RHC 4117 — 600 CFM
300 CFM
TEAM ROOM
4-117
300 CFM
300 CFM (MAX)
0.00 "WG
VOL: 2,277 CU. FT
ACH: 7.9
TT 4117AA
AI B
300 CFM

300 CFM
TEAM ROOM
4-116
300 CFM
300 CFM (MAX)
0.00 "WG
VOL: 2,259 CU. FT
ACH: 7.9
300 CFM

RHC 4115
250 CFM
ENCLAVE
4-115
250 CFM
250 CFM (MAX)
0.00 "WG
VOL: 1,710 CU. FT
ACH: 8.8
TT 4115AA
AI B
250 CFM

RHC 4121
1,100 CFM
FUTURE EXPANSION
4-121
1,100 CFM
1,100 CFM (MAX)
0.00 "WG
VOL: 21,168 CU. FT
ACH: 3.1 (NO CEILING)
TT 4121AA
AI B
1,100 CFM

RHC 4124
700 CFM
GUEST SUPPORT
4-124
700 CFM
700 CFM (MAX)
0.00 "WG
VOL: 5,193 CU. FT
ACH: 8
TT 4124AA
AI B
700 CFM

10,400 CFM

EXHAUST AIR
FROM: ELECTRICAL RM 4-217
235 CFM
REF: CONC004-MI-00004940

EXHAUST AIR
FROM: JANITOR CLOSET 4-219
235 CFM
REF: CONC004-MI-00004928

START/STOP
DO B
DI B — FAULT
AO B — SPEED REF.
VTR
SIC 4927BEX
#
3,035 CFM
EXHAUST FAN
FAN 4927BEX
ROOF

START/STOP
DO B
DI B — FAULT
AO B — SPEED REF.
VTR
SIC 4927AEX
#
2,700 CFM
EXHAUST FAN
FAN 4927AEX
ROOF

FIRST FLOOR
5,650 CFM

RHC 4120B — 2,500 CFM
100 CFM
WOMEN'S VEST
4-120A
100 CFM
100 CFM (MAX)
0.00 "WG
VOL: 360 CU. FT
ACH: 16.6
TT 4120AA
AI B
100 CFM

1,750 CFM — A.T. CLG.
WOMEN'S LOCKER ROOM
4-120B
1,750 CFM
1,750 CFM (MAX)
0.00 "WG
VOL: 14,121 CU. FT
ACH: 7.5

600 CFM | 600 CFM
RESTROOM
4-120C
600 CFM
600 CFM (MAX)
0.00 "WG
VOL: 4,020 CU. FT
ACH: 8.9

50 CFM | 50 CFM
JANITORS CLOSET
4-119
50 CFM
50 CFM (MAX)
0.00 "WG
VOL: 500 CU. FT
ACH: 6

RHC 4120F
350 CFM | 350 CFM
SHOWERS
4-120F
350 CFM
350 CFM (MAX)
0.00 "WG
VOL: 2,322 CU. FT
ACH: 9
TT 4121FA
AI B

RHC 4123B — 2,450 CFM
100 CFM
MEN'S VEST
4-123A
100 CFM
100 CFM (MAX)
0.00 "WG
VOL: 360 CU. FT
ACH: 16.6
TT 4123BA
AI B
100 CFM

1,750 CFM — A.T. CLG.
MEN'S LOCKER ROOM
4-123B
1,750 CFM
1,750 CFM (MAX)
0.00 "WG
VOL: 14,148 CU. FT
ACH: 7.4

600 CFM | 600 CFM
RESTROOM
4-123C
600 CFM
600 CFM (MAX)
0.00 "WG
VOL: 3,914 CU. FT
ACH: 9.2

RHC 4123F
350 CFM | 350 CFM
SHOWERS
4-123F
350 CFM
350 CFM (MAX)
0.00 "WG
VOL: 2,367 CU. FT
ACH: 8.9
TT 4123FA
AI B

1,750 CFM — 1,750 CFM

200 CFM

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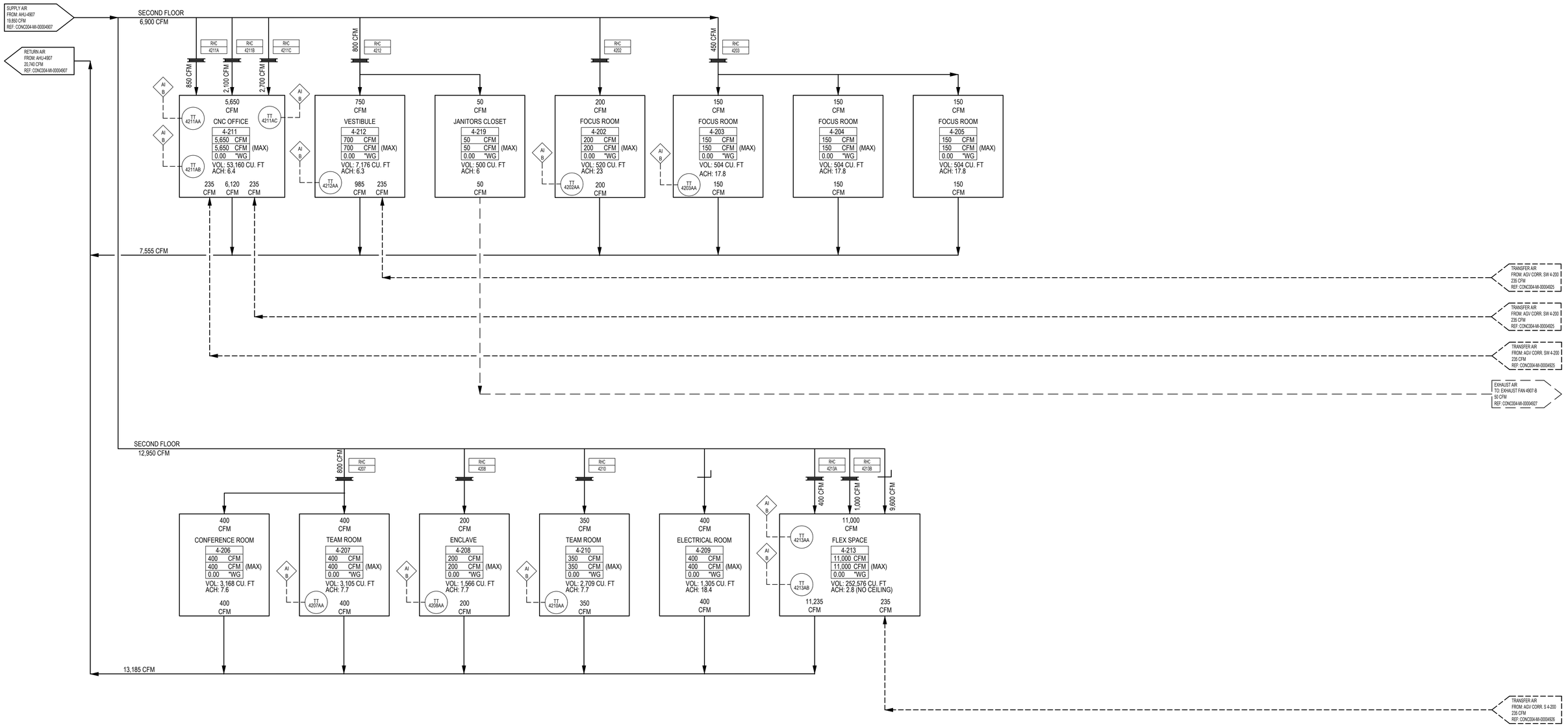
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SYSTEM - TYPE	CONC004
DISCIPLINE / BUILDING	LEVEL/FLOOR
MI / CONC	N/A / YELLOW
CRITICAL QUALITY	ENTERPRISE GROUP
NO	CDAP
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION
YES	
CRITICAL HSE	VENDOR
NO	
NON-CRITICAL	ENGINEERING AGENCY / DOC. ID
NO	
DRAWING INTENTION	DRAWING SCALE
	NTS
ALTERNATE DOCUMENT ID	MERIDIAN REV.
DOCUMENT ID	CONC004-MI-00004927

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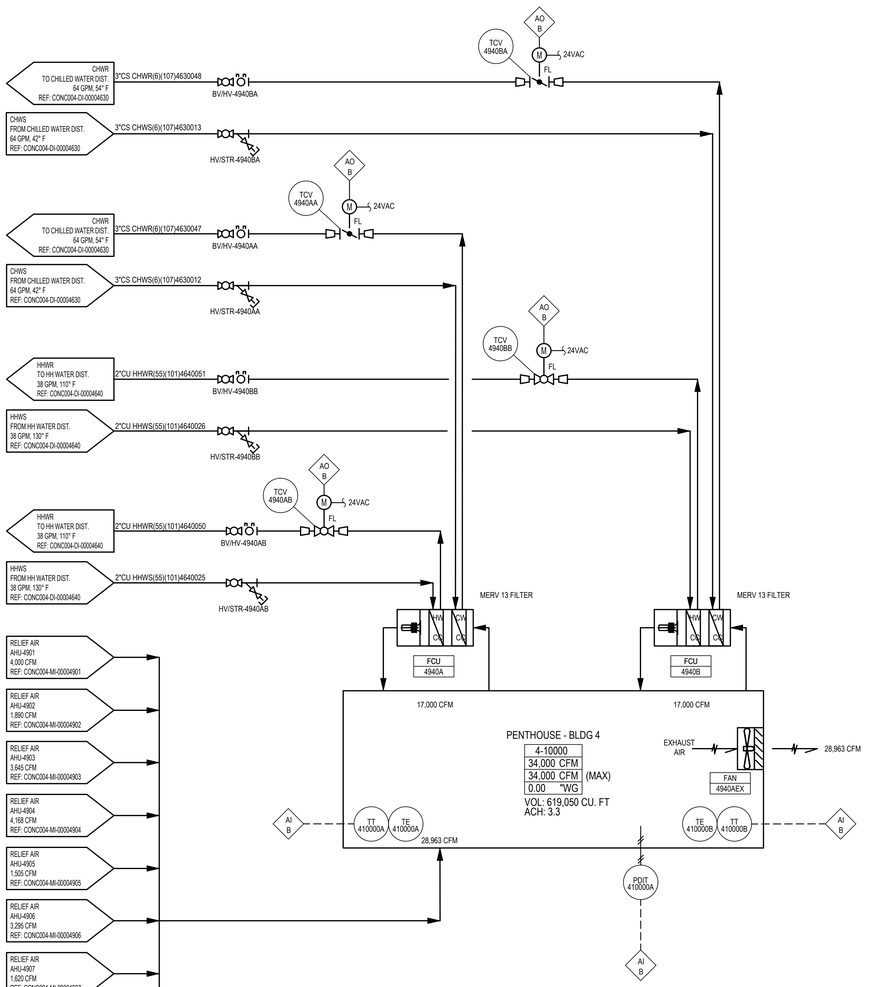
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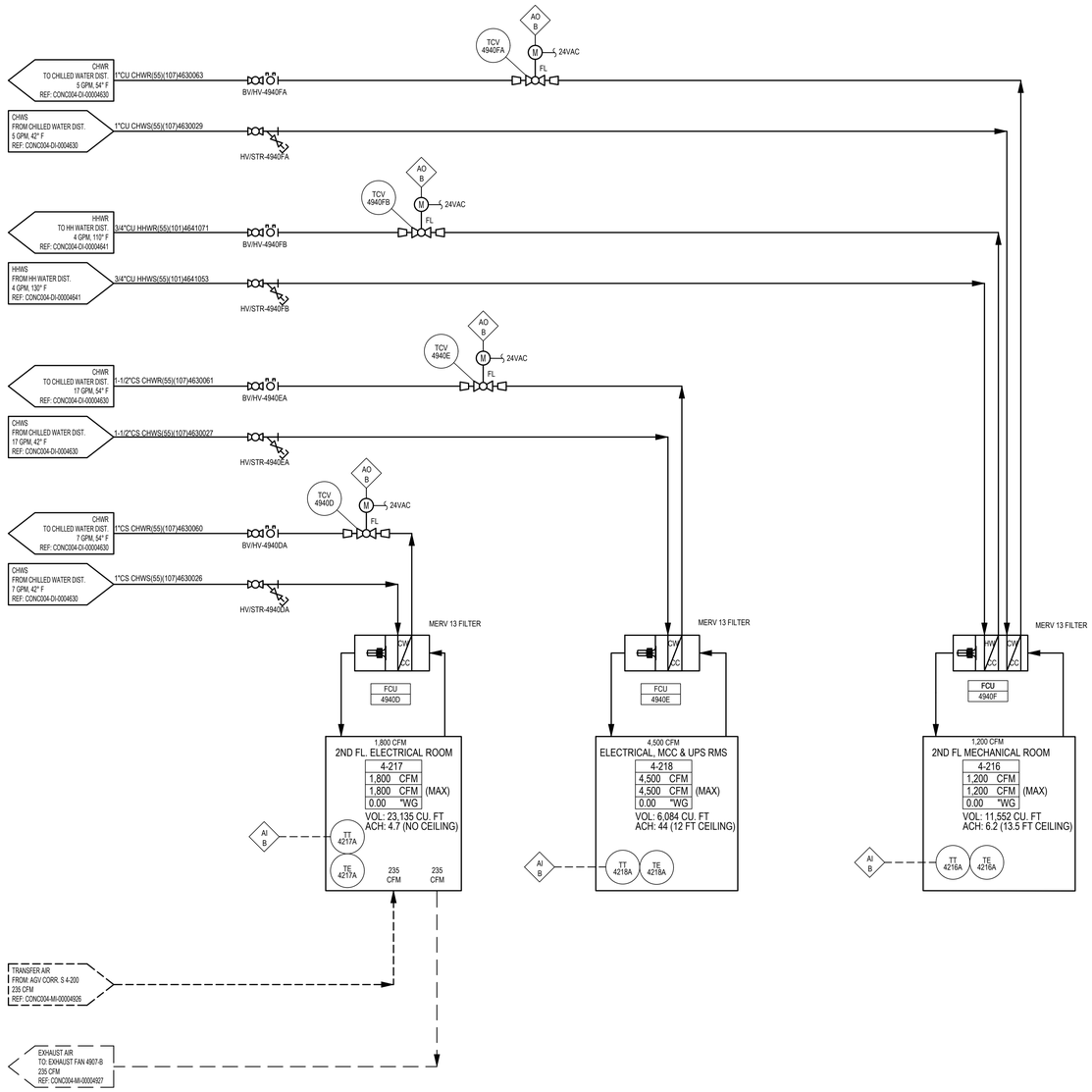
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DISC/PLINE: MI	DESIGN CODE: CONC	DESIGN/GRID: N/A	ENTITY: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING NUMBER: CONC-300-6070
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION:	DRAWING SCALE: NTS
CRITICAL HSE: NO		VENDOR:	ALTERNATE DOCUMENT ID:
NON-CRITICAL: NO		ENGINEERING AGENCY DOC. ID:	MERIDIAN REV:

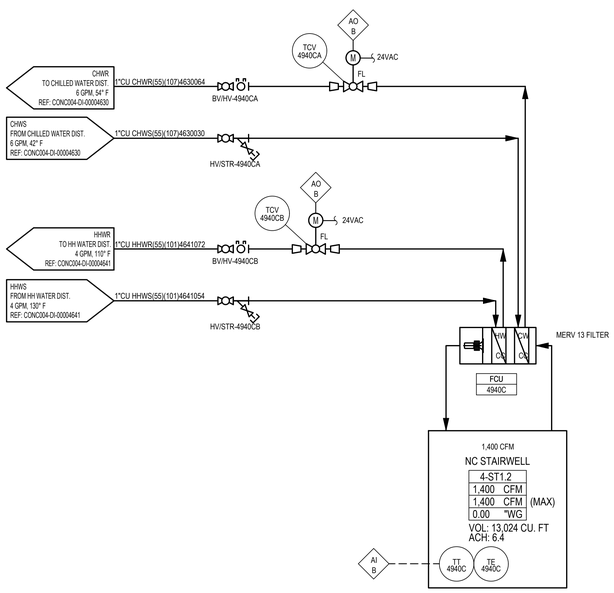
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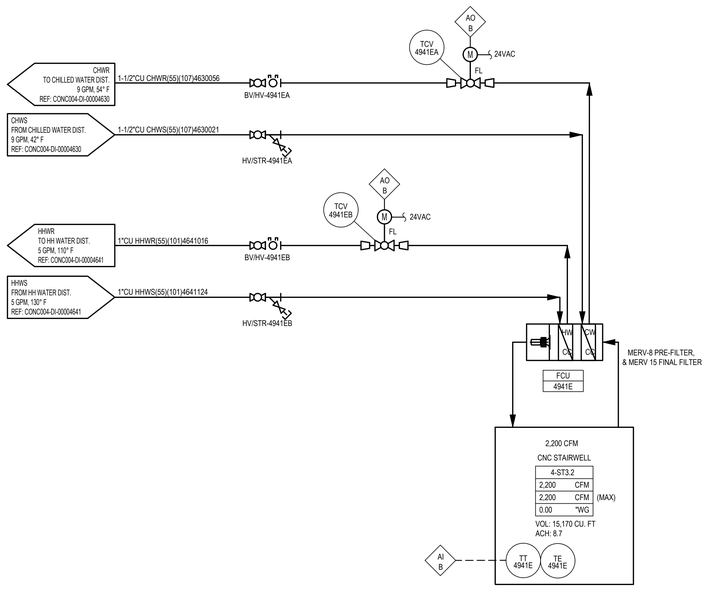
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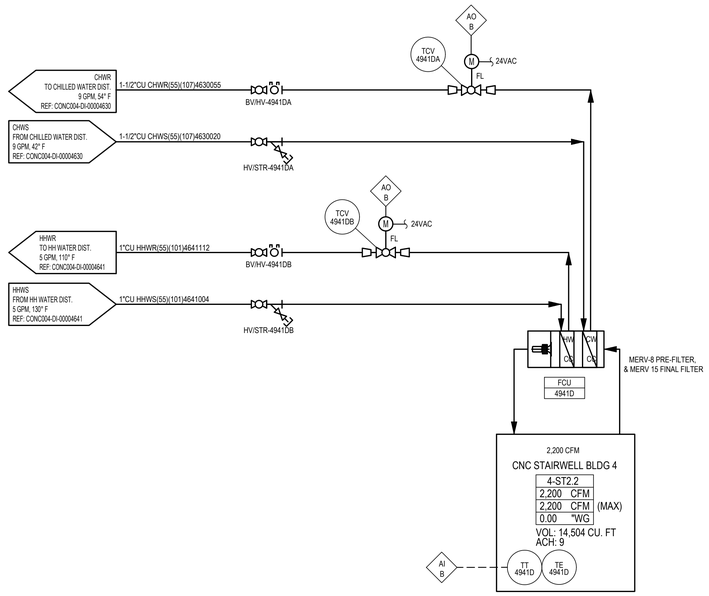
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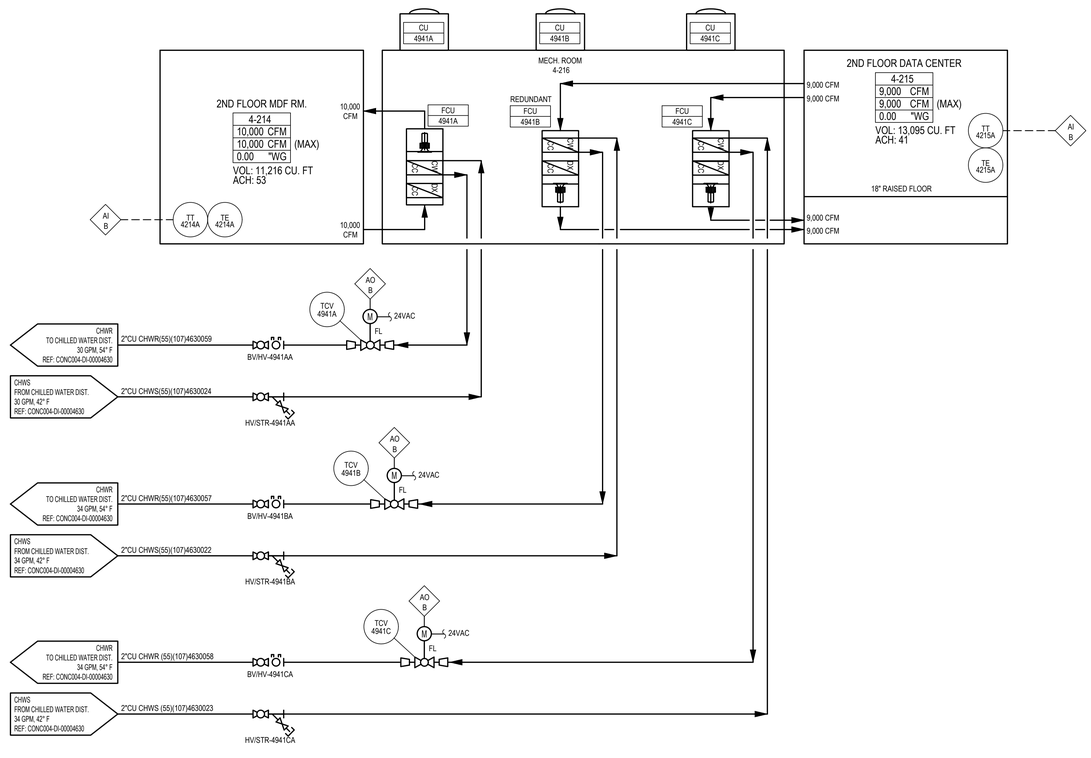
SYSTEM TYPE		BSMP/BUILDING	LEVEL/FLOOR
		CONC004	
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
MI	CONC	N/A	CONC-300-6070
CRITICAL QUALITY		DRAWING GROUP	DRAWING SCALE
NO		CDAP	NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MAINTAIN REV
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC004-MI-00004940
CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

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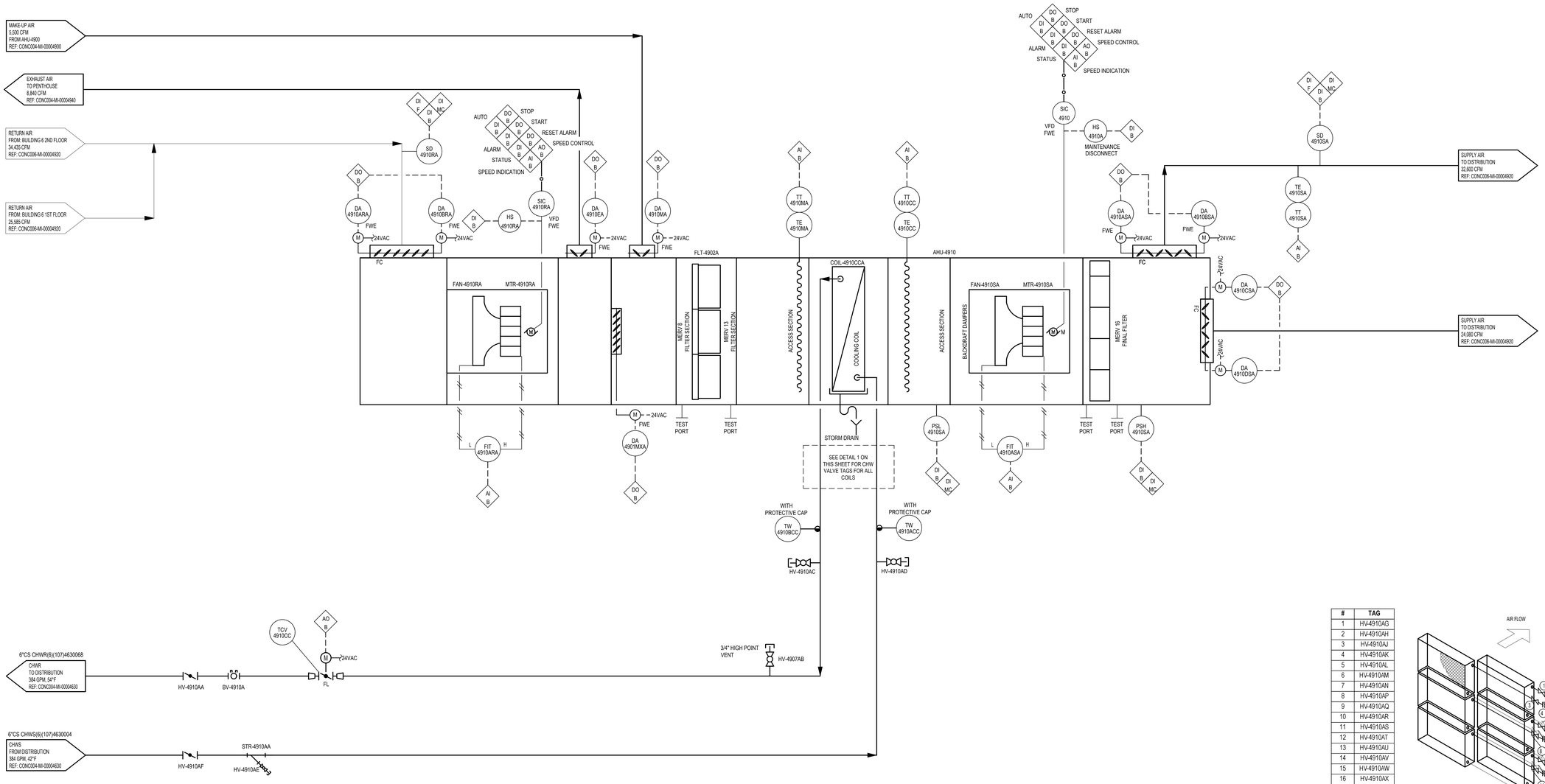
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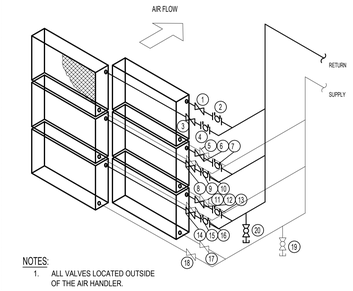
SYSTEM / TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
FAB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	DRAWING SIGNAGE: YELLOW
CRITICAL QUALITY: NO		ENGINEERING GROUP: CDAP	DRAWING SCALE: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERTRAN REV.
CRITICAL HSE: NO		VENDOR	
FDA CRITICAL: NO		ENGINEERING AGENCY DOC ID	DOCUMENT ID: CONC004-MI-00004941

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1	HV-4910AG
2	HV-4910AH
3	HV-4910AJ
4	HV-4910AK
5	HV-4910AL
6	HV-4910AM
7	HV-4910AN
8	HV-4910AP
9	HV-4910AQ
10	HV-4910AR
11	HV-4910AS
12	HV-4910AT
13	HV-4910AU
14	HV-4910AV
15	HV-4910AW
16	HV-4910AX
17	HV-4910AY
18	HV-4910AZ
19	LOW POINT
20	LOW POINT



NOTES:
1. ALL VALVES LOCATED OUTSIDE OF THE AIR HANDLER.

1 COOLING COIL CONNECTION DETAIL
NOT TO SCALE

LILLY ELECTRONIC SIGNATURES

KIRLIN WAY
HIPP DESIGN + CONSULTING
2301 REXWOODS DR
SUITE 200
RALEIGH, NC 27607
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FAX: 919.755.1455
NC FIRM LICENSE # C-3148
WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040716 ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4910 AF&ID

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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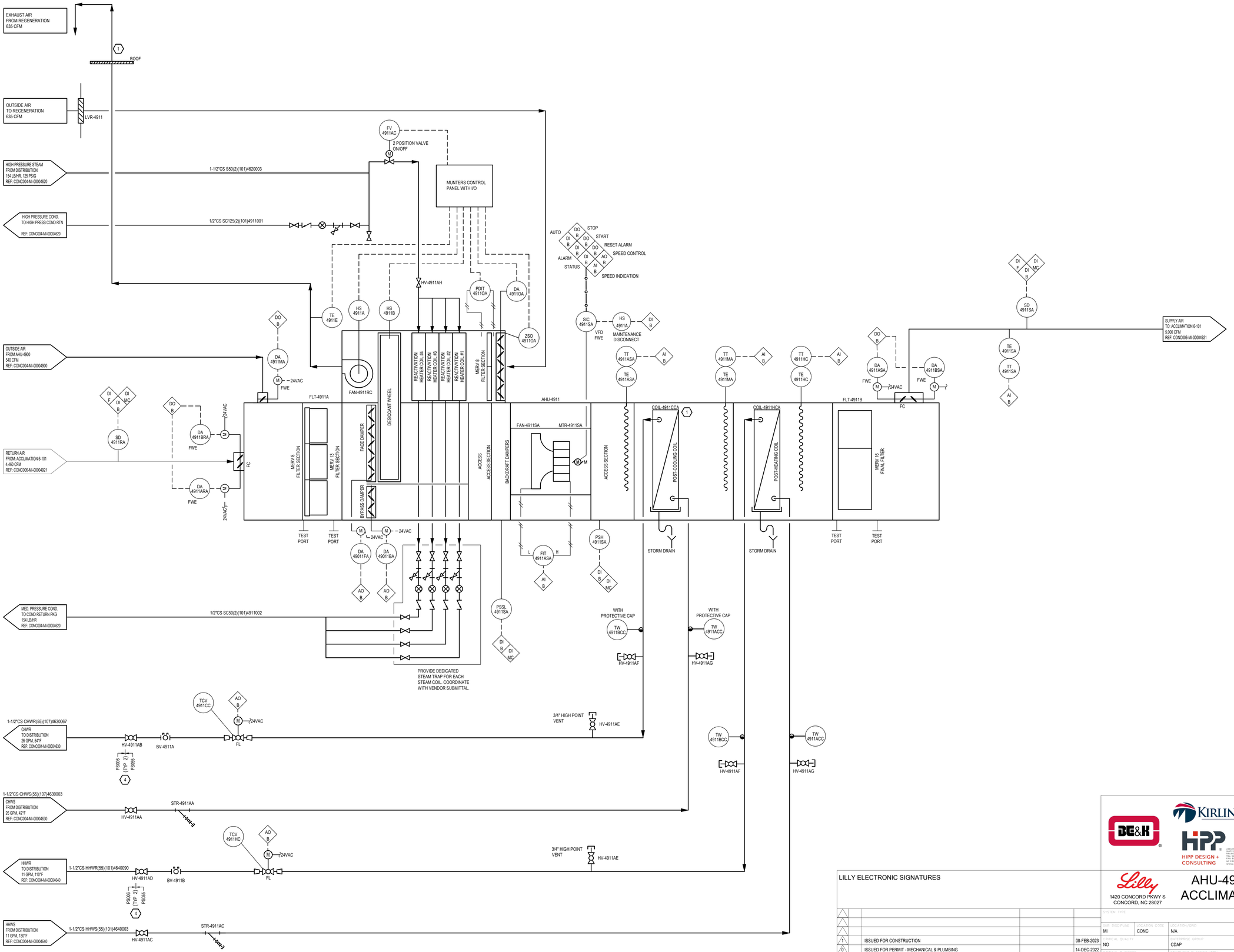
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SYSTEM TYPE		PROPERTY/BUILDING: CONC006	LEVEL/FLOOR: -
SUB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		CDAP	DRAWING INTENTION: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:
CRITICAL RISK: NO		VENDOR:	DOCUMENT ID: CONC006-MI-00004910
HYPERCRITICAL: NO		ENGINEERING AGENCY DOC ID:	

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KEY NOTES

1. MUNTERS REGENERATION AIR TO BE DUCTED THROUGH THE ROOF OF THE PENTHOUSE AND INSULATED BELOW THE ROOF DECK WITH FIBERGLASS INSULATION.

LILLY ELECTRONIC SIGNATURES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL
08 Feb 2023

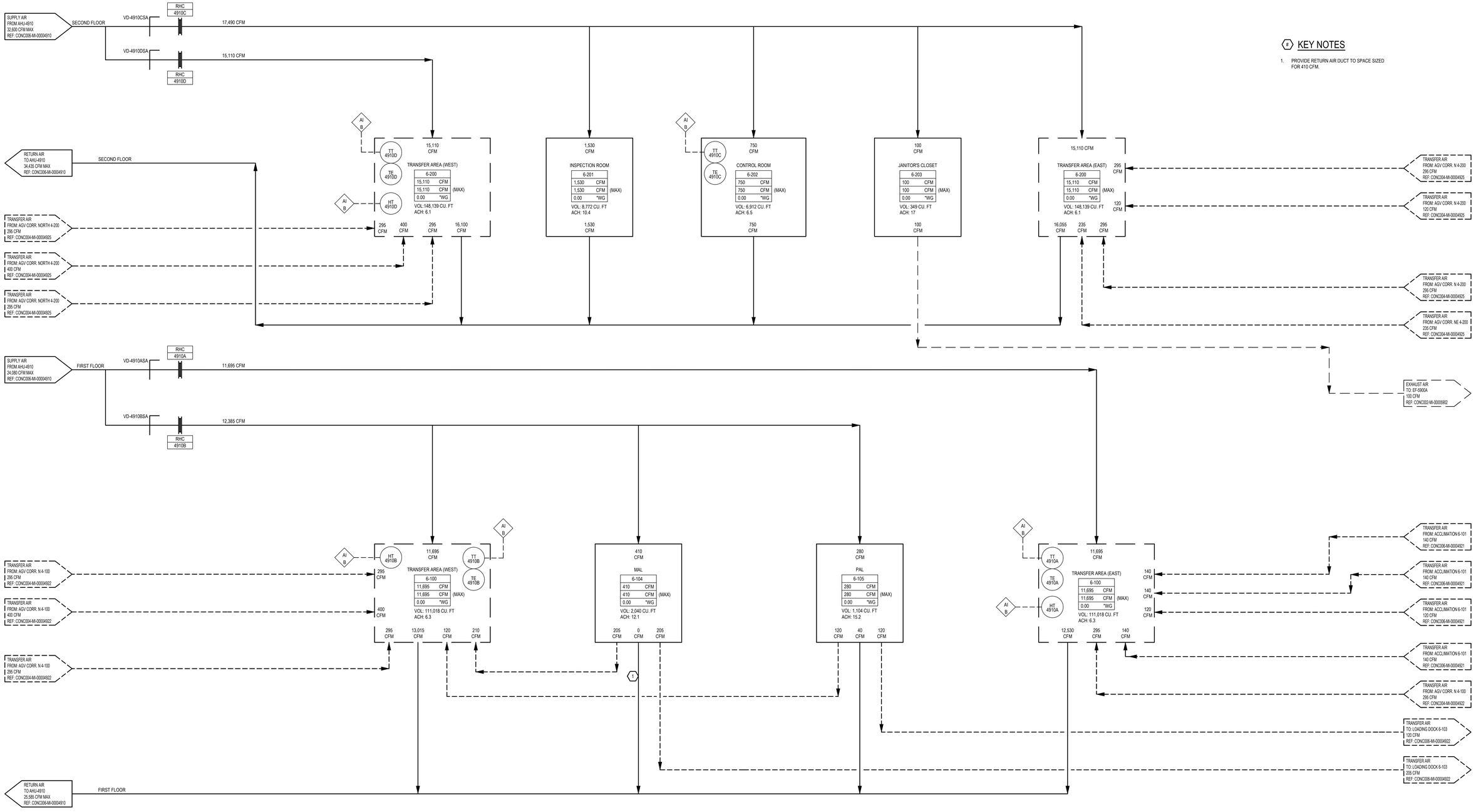
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1420 CONCORD PKWY S
CONCORD, NC 28027

AHU-4911 AF&ID - ACCLIMATION ROOM

SYSTEM TYPE				CONFIG/BUILDING: CONC006	LEVEL/FLOOR
DISC/PLINE: MI	DISCIPLIN CODE: CONC	LOCATION/GRID: N/A		COLOR: YELLOW	DRAWING NO.: CONC-300-5983
CRITICAL QUALITY: NO		ENGINEERING GROUP: CDAP		DRAWING INTENTION	SCALE: NTS
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION		ALTERNATE DOCUMENT ID	MERMAN REV:
CRITICAL HSE: NO		VENDOR			
CRITICAL: NO		ENGINEERING AGENCY DOC ID		DOCUMENT NO.: CONC006-MI-00004911	

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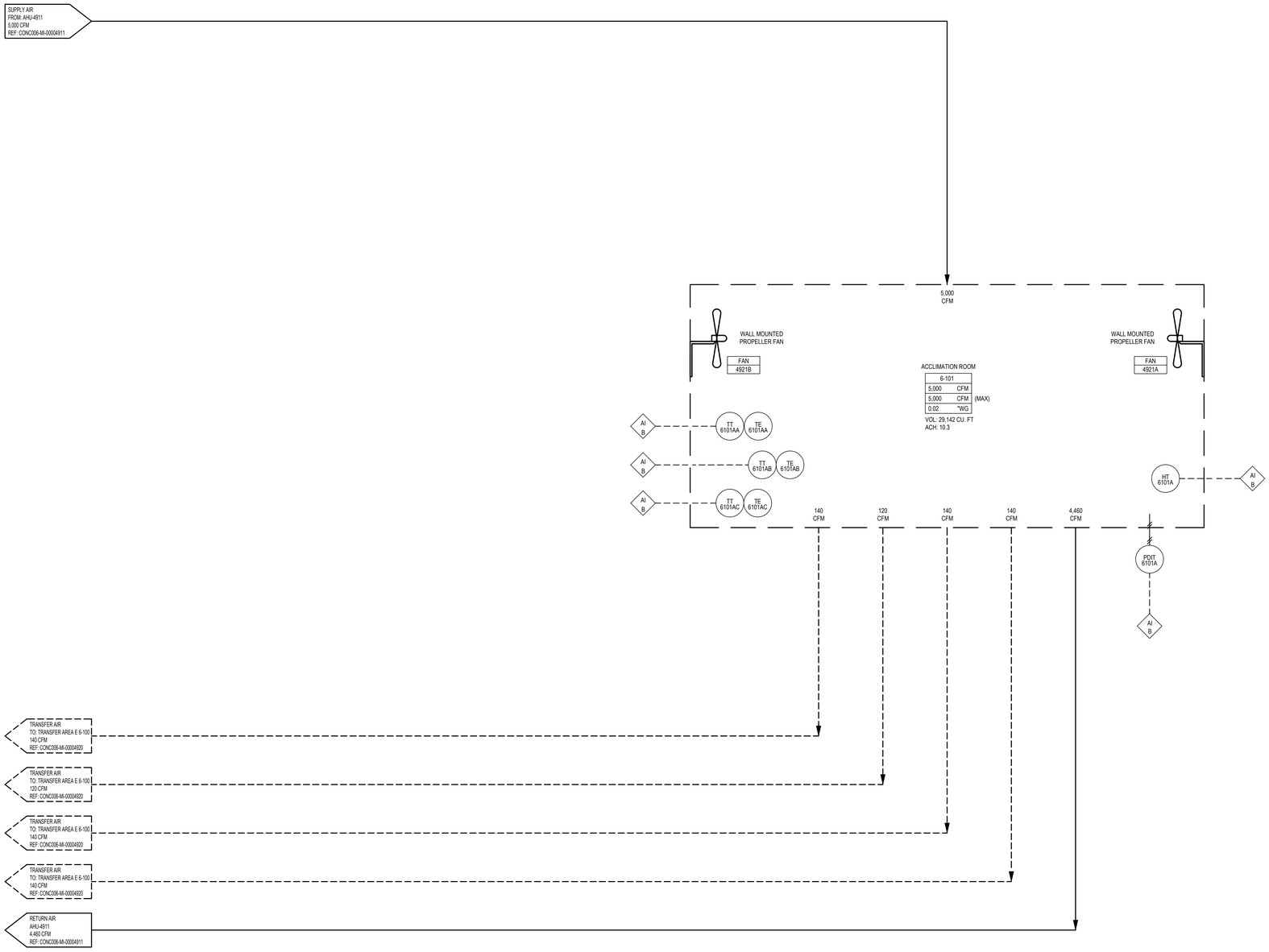
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SYSTEM TYPE		EDIFICE/BUILDING	CONC006
DISCIPLINE	LOCATION CODE	LOCATION/GRID	N/A
MI	CONC		
CRITICAL QUALITY		EQUIPMENT GROUP	CDAP
NO			
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	
YES			
CRITICAL HSE		VENDOR	
NO			
CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

LEVEL/FLOOR	
PROJECT NUMBER	CONC-300-5983
DRAWING SCALE	NTS
DRAWING INTENTION	
ALTERNATE DOCUMENT ID	
MERIDIAN REV.	
DOCUMENT ID	CONC006-MI-00004920

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SYSTEM - TYPE			LEVEL/BUILDING: CONC006
SYS. DISCIPLINE: MI	LOCATION CODE: CONC	ROOM/GRID: N/A	LEVEL/FLOOR: YELLOW
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION:	DRAWING NUMBER: CONC-300-5983
SMALL BUSINESS: YES	EQUIPMENT CLASSIFICATION:	ALTERNATE DOCUMENT ID:	DRAWING SCALE: NTS
FINAL HSE: NO	VENDOR:		MERIDIAN REV:
NON-CRITICAL: NO	ENGINEERING AGENCY DOC. ID:	DOCUMENT ID:	CONC006-MI-00004921

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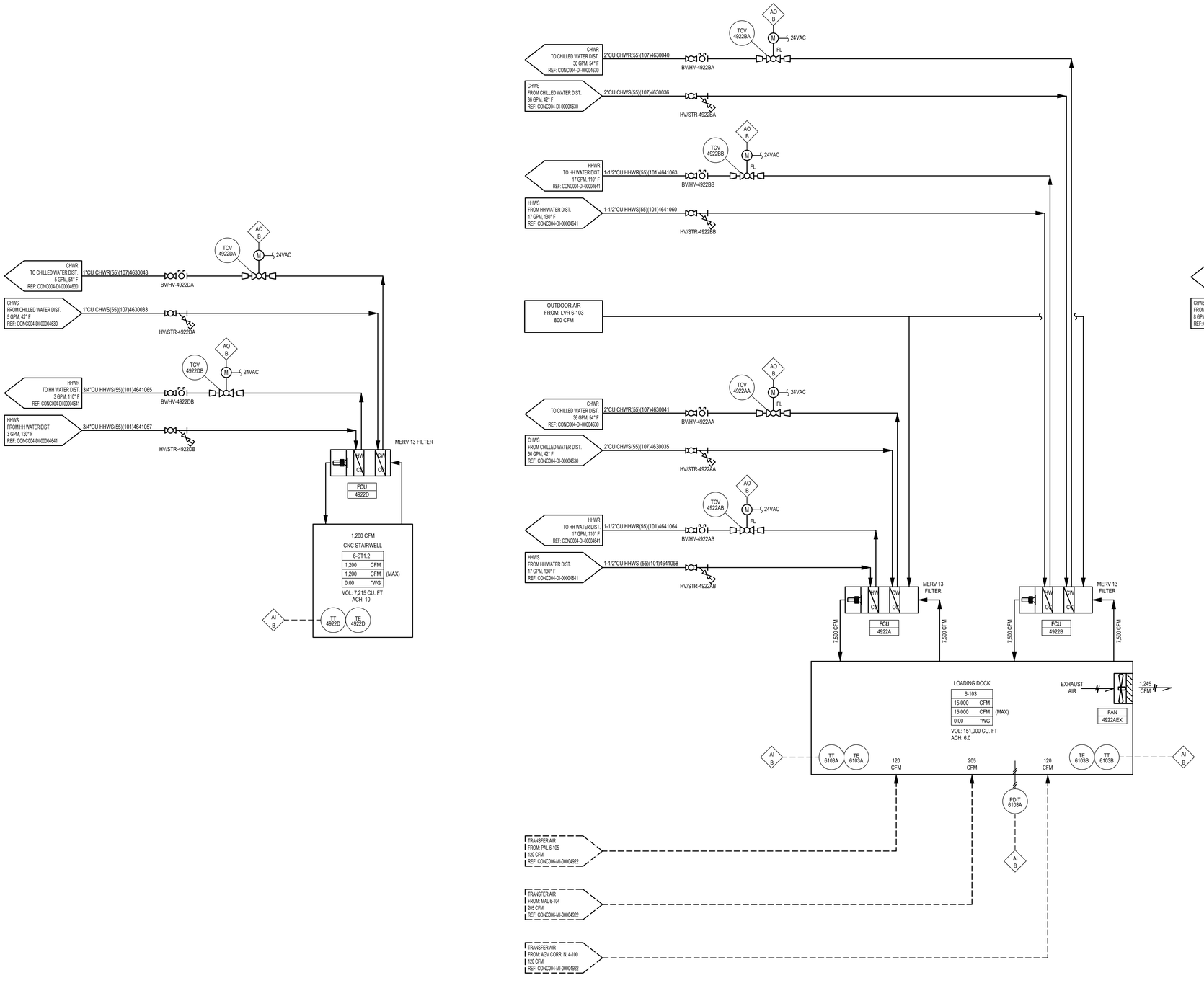
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08 Feb 2023

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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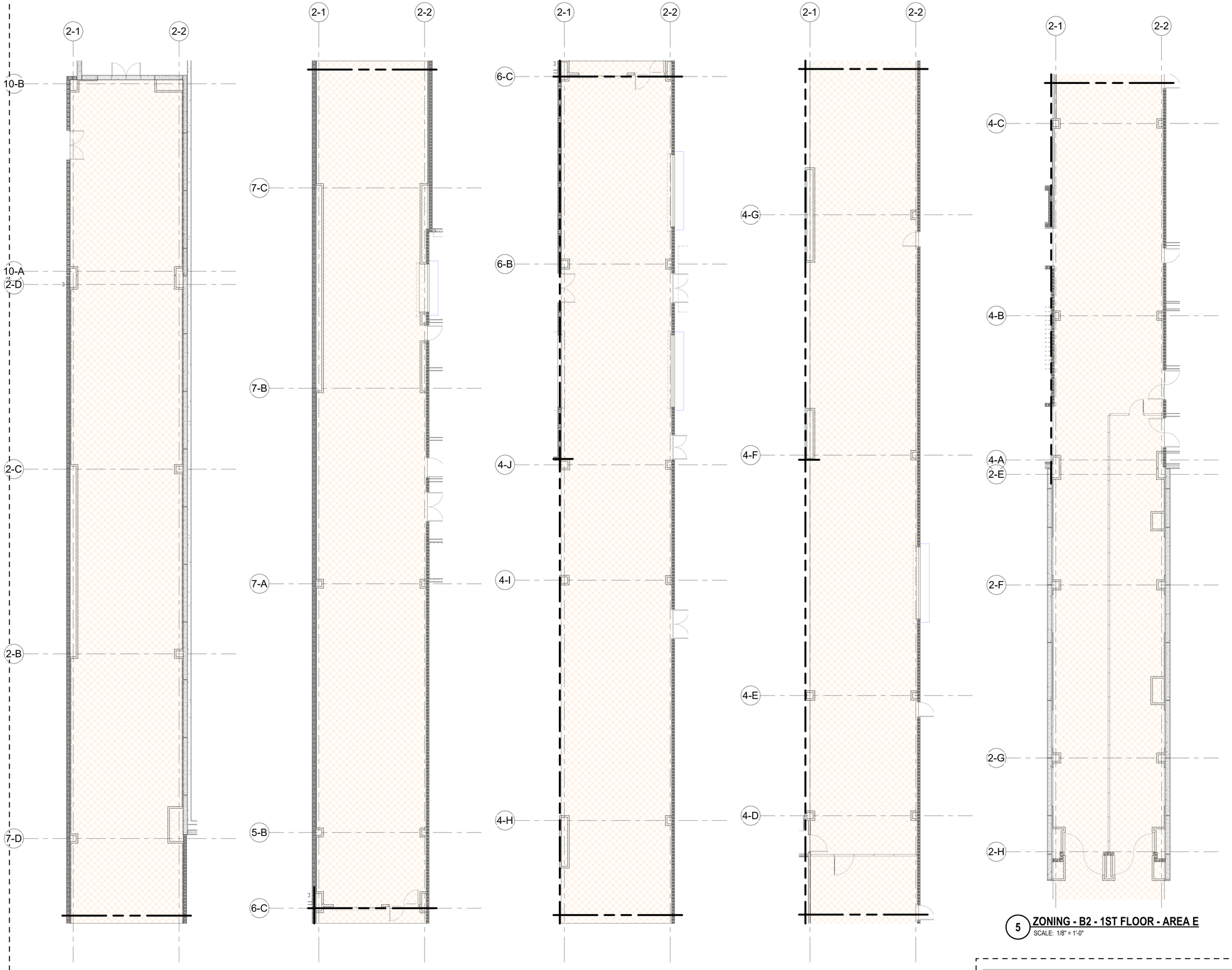
SYSTEM TYPE		PROJECT NUMBER	LEVEL/FLOOR
		CONC006	-
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE	PROJECT NAME
MI	CONC	N/A	YELLOW	CONC-300-5983
CRITICAL QUALITY		PURPOSE GROUP	DRAWING INTENTION	SCORING SCALE
NO		CDAP	-	NTS
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	WERTHAN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC006-MI-00004922	
HSE CRITICAL		ENGINEERING AGENCY DOC ID		
NO				

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1 **ZONING - B2 - 1ST FLOOR - AREA A**
SCALE: 1/8" = 1'-0"

2 **ZONING - B2 - 1ST FLOOR - AREA B**
SCALE: 1/8" = 1'-0"

3 **ZONING - B2 - 1ST FLOOR - AREA C**
SCALE: 1/8" = 1'-0"

4 **ZONING - B2 - 1ST FLOOR - AREA D**
SCALE: 1/8" = 1'-0"

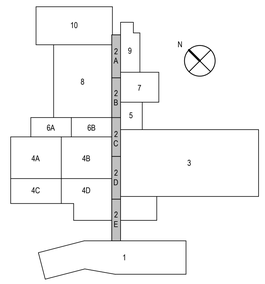
5 **ZONING - B2 - 1ST FLOOR - AREA E**
SCALE: 1/8" = 1'-0"

ZONING PLAN LEGEND

AHU-5900 & FCU-5901A-5901K

HOLD

KEY PLAN



RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

BE&K
KIRLIN WAY
HIPP DESIGN + CONSULTING
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SUITE 200
RALEIGH, NC 27607
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FAX: 919.755.9949
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NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC ZONING - B2 - 1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
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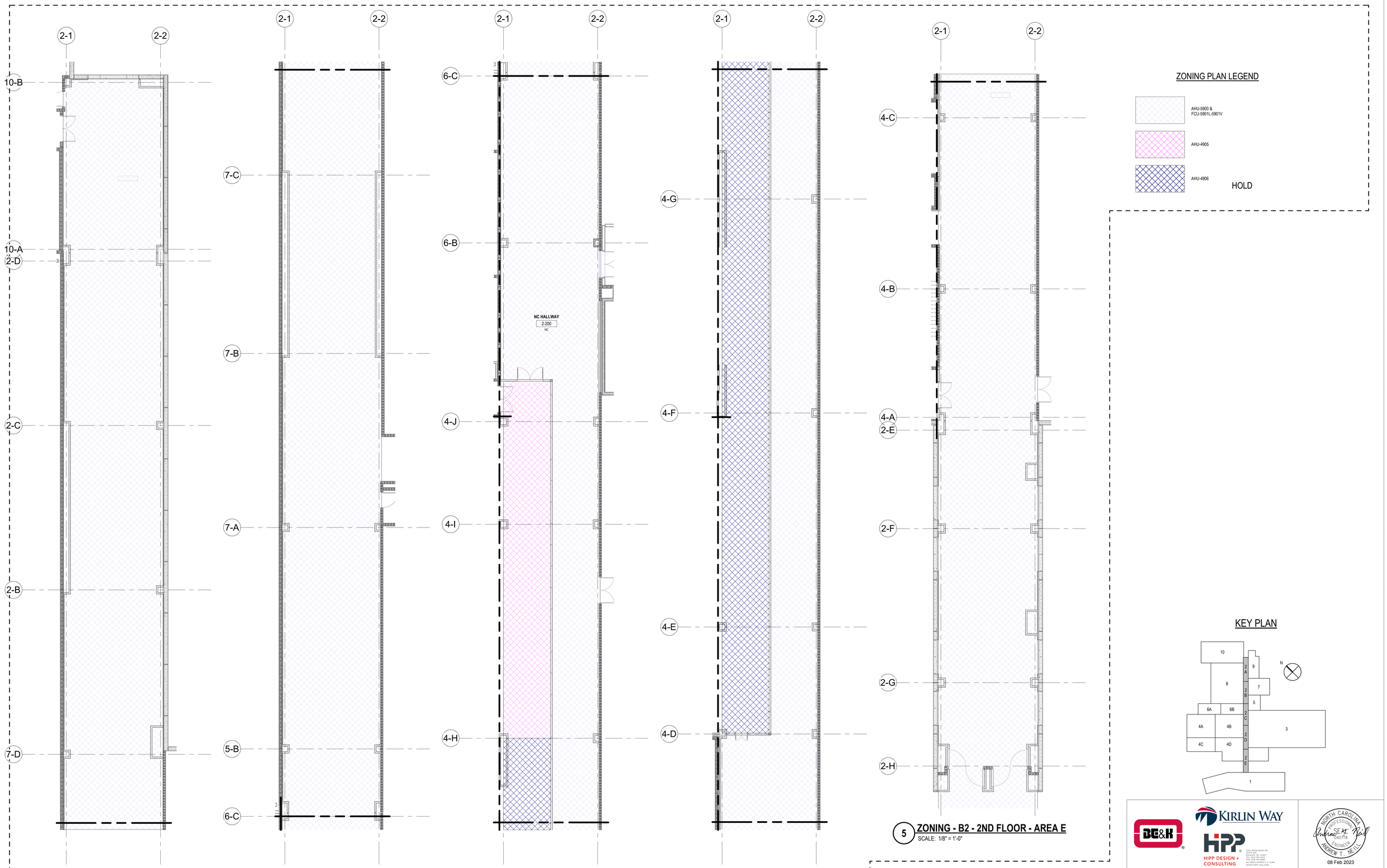
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SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC002-MH-00000010	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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1 ZONING - B2 - 2ND FLOOR - AREA A
SCALE: 1/8" = 1'-0"

2 ZONING - B2 - 2ND FLOOR - AREA B
SCALE: 1/8" = 1'-0"

3 ZONING - B2 - 2ND FLOOR - AREA C
SCALE: 1/8" = 1'-0"

4 ZONING - B2 - 2ND FLOOR - AREA D
SCALE: 1/8" = 1'-0"

5 ZONING - B2 - 2ND FLOOR - AREA E
SCALE: 1/8" = 1'-0"

ZONING PLAN LEGEND

AHU-5900 & FCU-5901L-5901V

AHU-4905

AHU-4906

HOLD

KEY PLAN

RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
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/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC ZONING - B2 - 2ND FLOOR

SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC002-MH-00000020
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

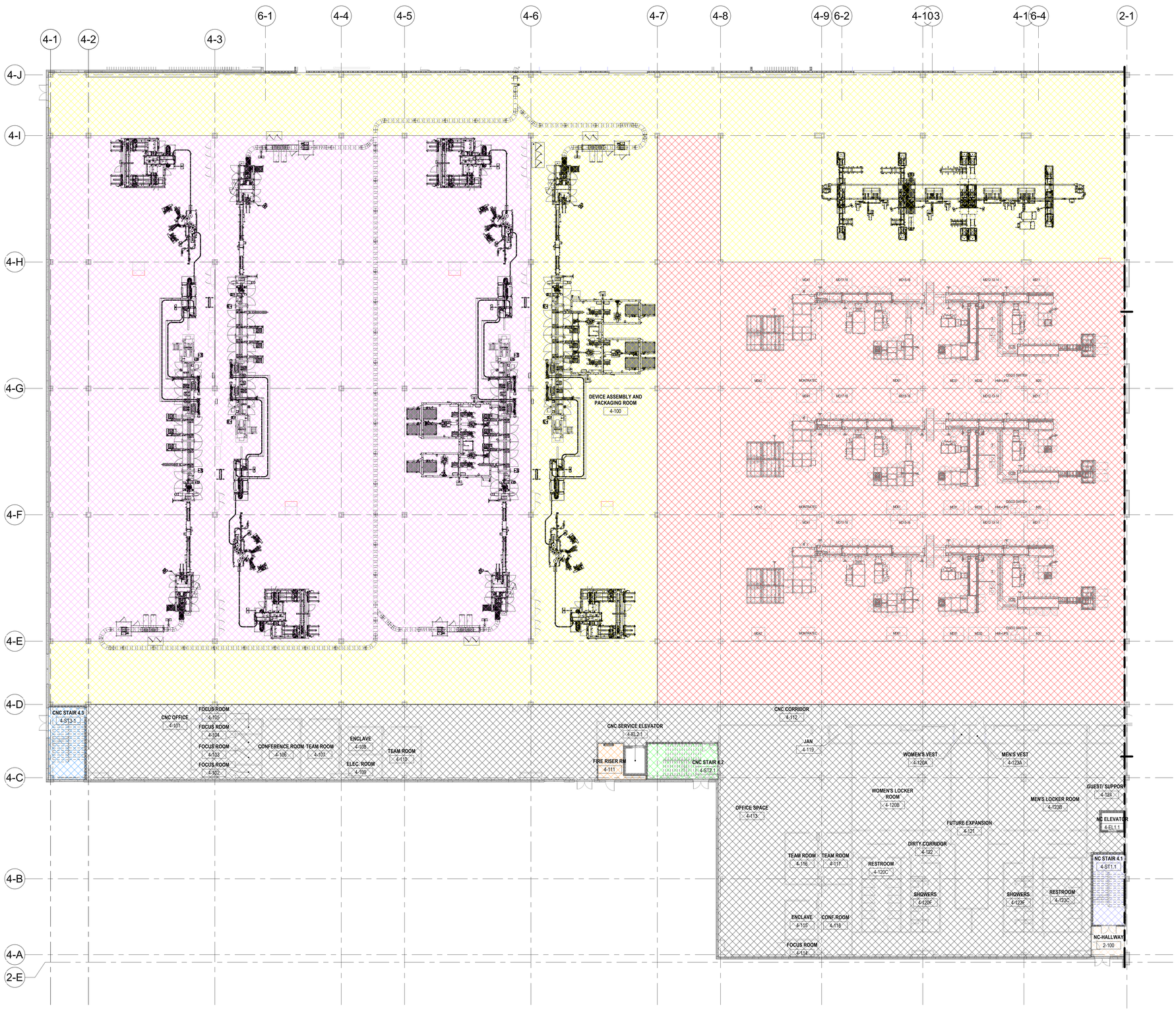
PROJECT NAME: CONC-300-6068
DRAWING SCALE: As indicated
MERIDIAN REV

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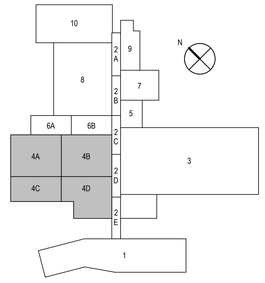
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ZONING PLAN LEGEND

- AHU-4901
- AHU-4902
- AHU-4903
- AHU-4907
- AHU-5900 & FCU-4941D, 4941C, 4940D, 4940E, 4941A, 4940F, 4940A, 4940B, & 4941E
- FCU-4941D
- FCU-4941E
- UH-4971
- FCU-4940C

KEY PLAN



1 ZONING - B4 - 1ST FLOOR

SCALE: 1/16" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NETTLE

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC ZONING - B4 - 1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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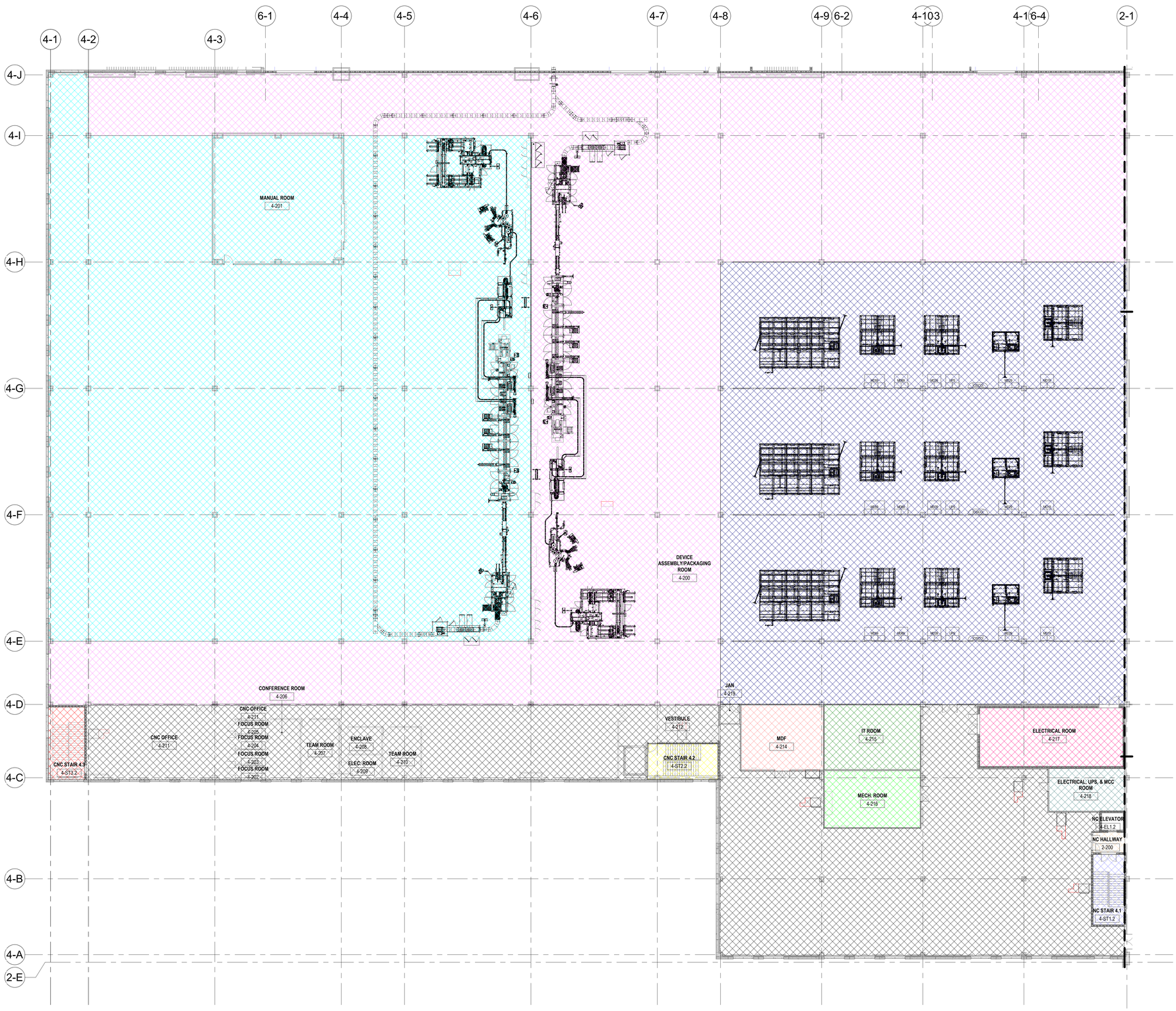
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MH-00000010	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

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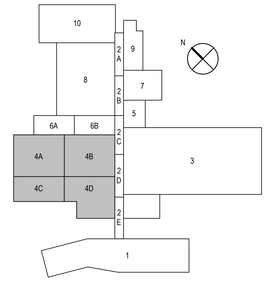
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ZONING PLAN LEGEND

- AHU-4904
- AHU-4905
- AHU-4906
- AHU-4907
- FCU-4941E
- FCU-4940F
- AHU-5900 & FCU-4941D, 4941C, 4940D, 4940E, 4941A, 4940F, 4940A, 4940B, & 4941E
- FCU-4940D
- FCU-4940E
- FCU-4941A
- CRAC-4941B & 4941C
- FCU-4941D
- FCU-4940C

KEY PLAN



1 ZONING - B4 - 2ND FLOOR

SCALE: 1/16" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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HIPP DESIGN + CONSULTING

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040776 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC ZONING - B4 - 2ND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

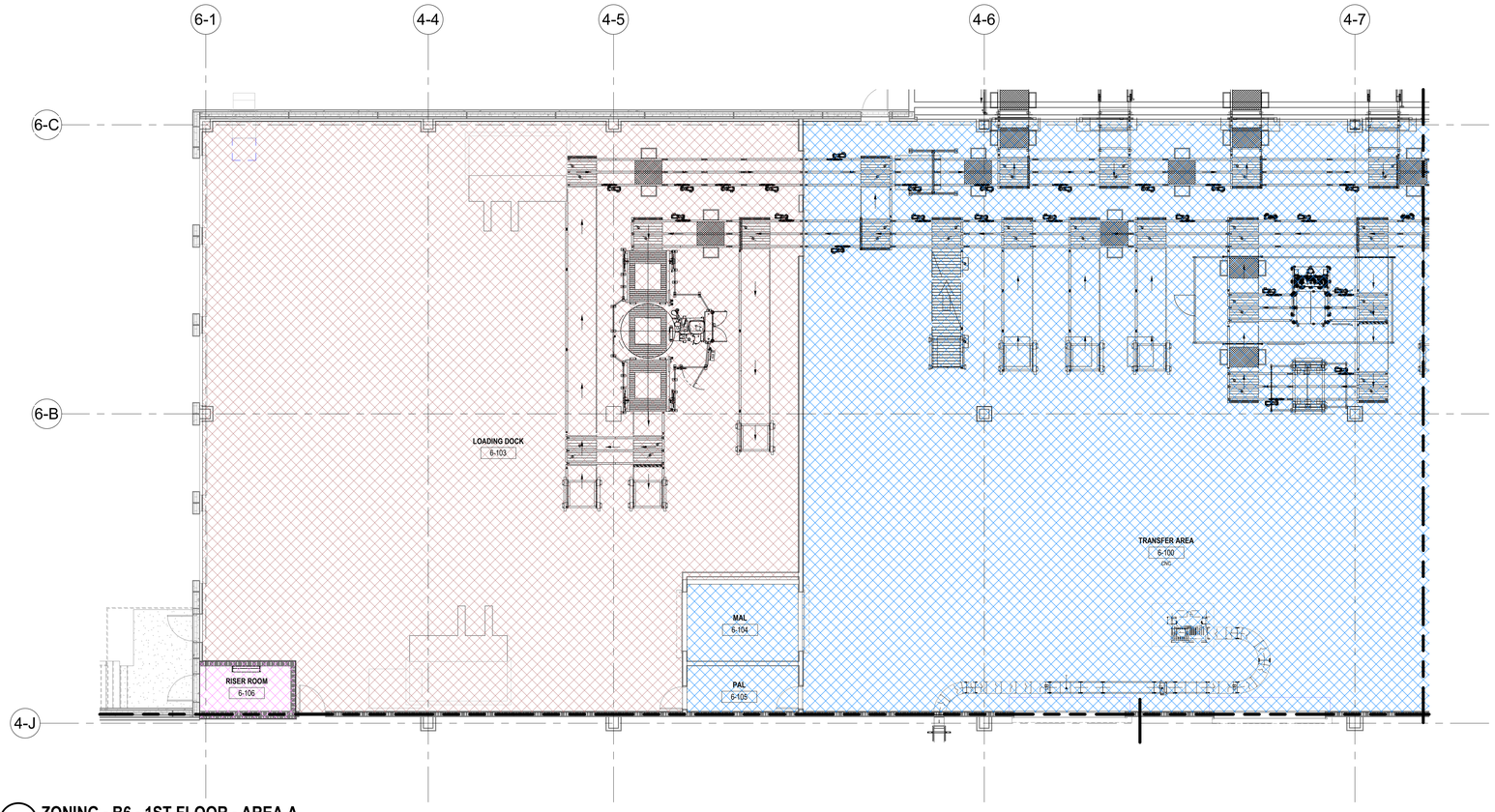
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000020	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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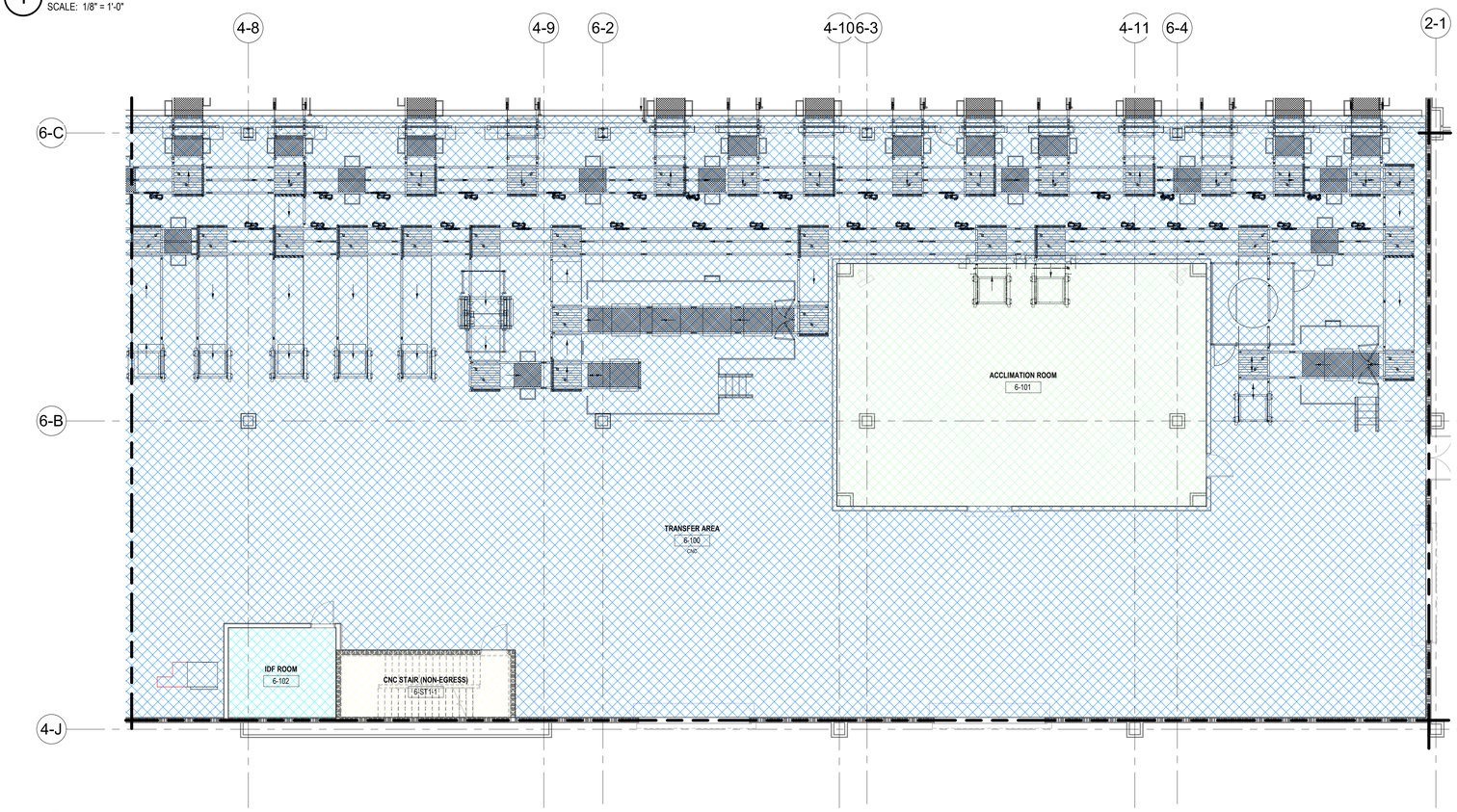
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1 ZONING - B6 - 1ST FLOOR - AREA A

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



2 ZONING - B6 - 1ST FLOOR - AREA B

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

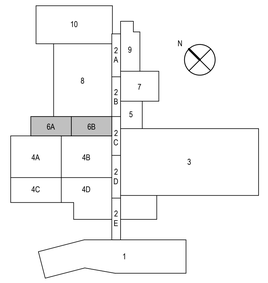
ZONING PLAN LEGEND

- FCU-4922A & FCU-49AAB
- FCU-4922D
- AHU-4910
- UH-4972
- FCU-4922C
- AHU-4911

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



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08 Feb 2023
Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC ZONING - B6 - 1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
/1		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

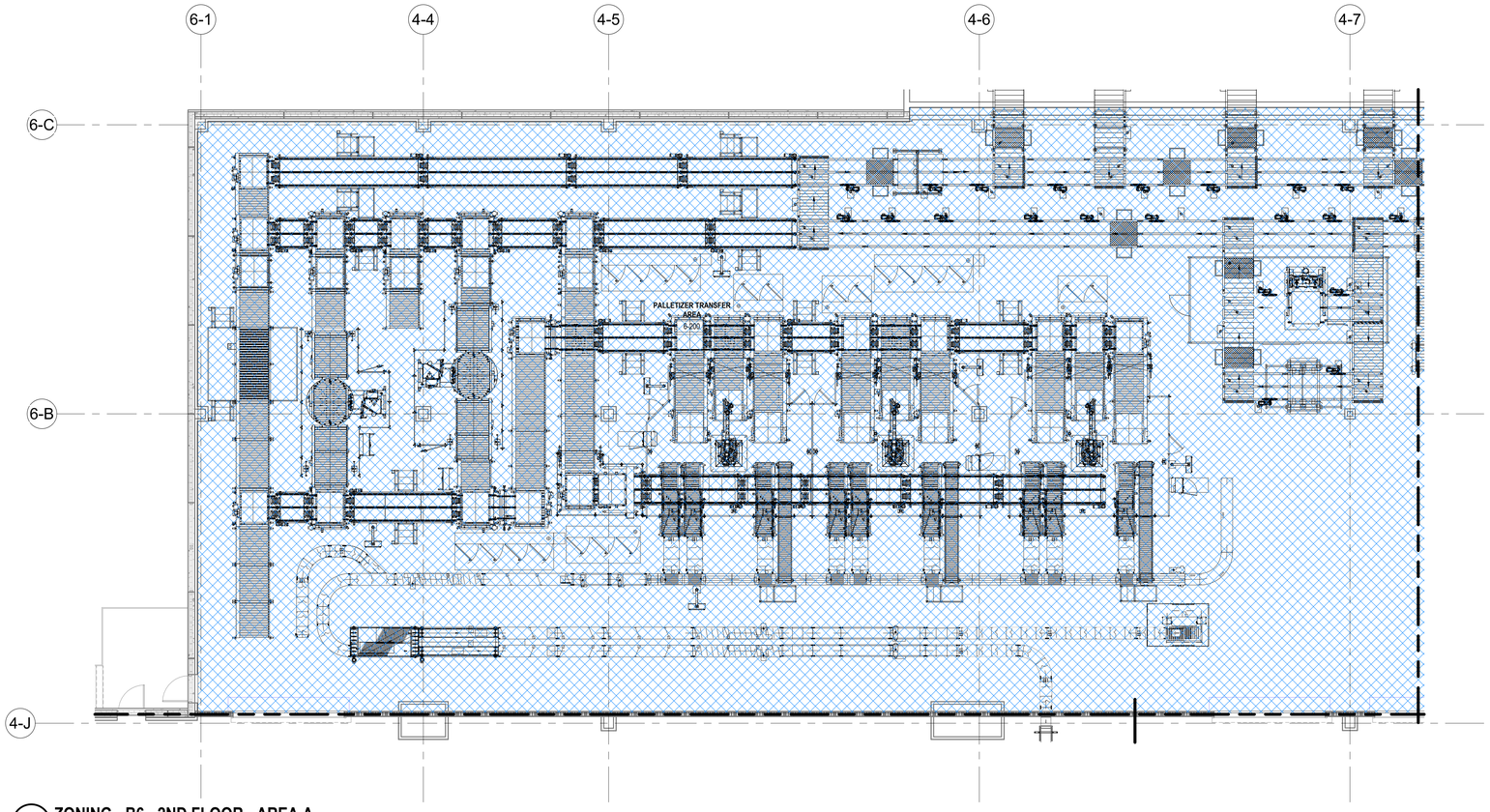
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SYSTEM TYPE		EDIFICE/BUILDING: CONC006	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MH-00000010	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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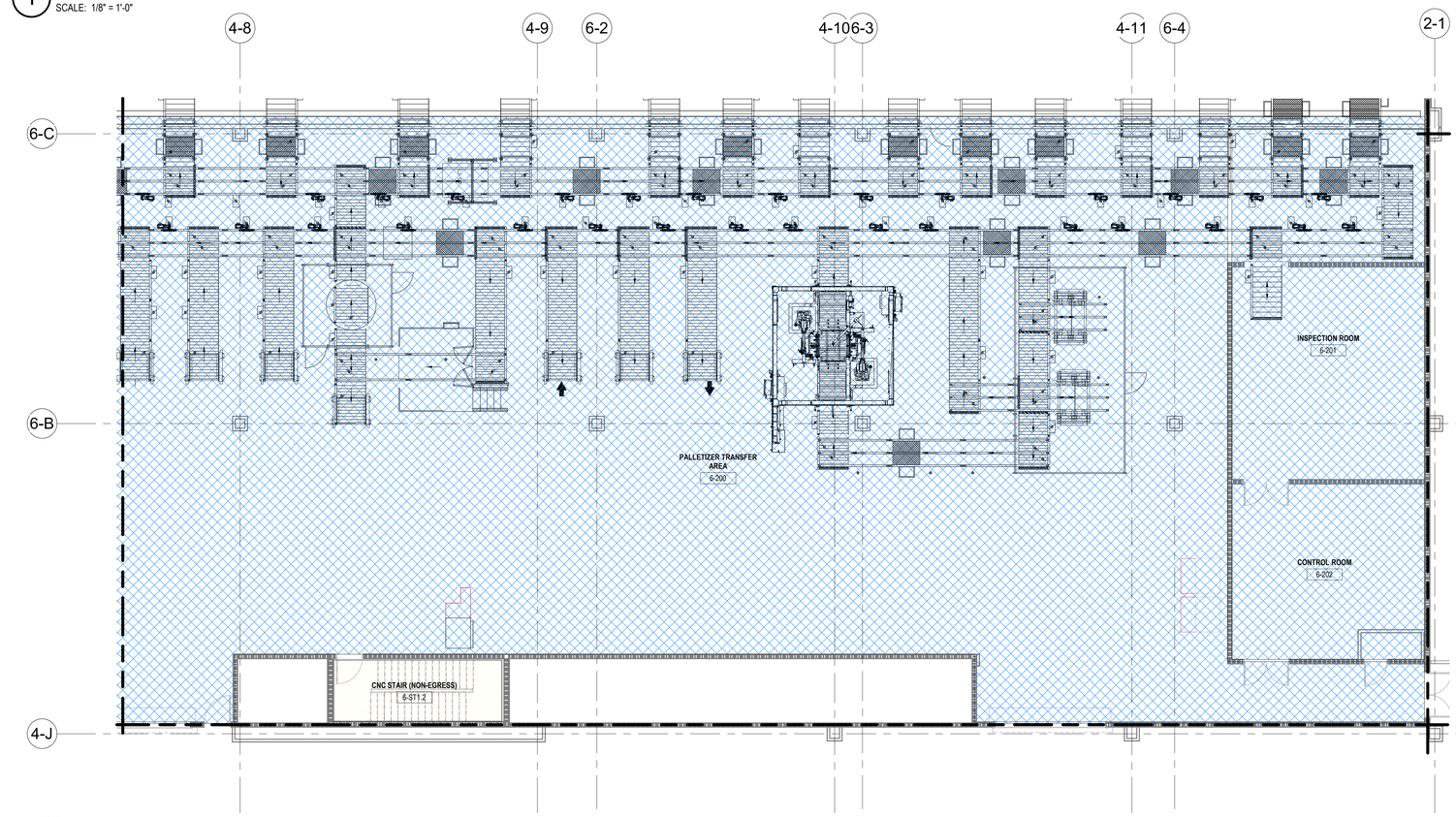
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1 ZONING - B6 - 2ND FLOOR - AREA A

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



2 ZONING - B6 - 2ND FLOOR - AREA B

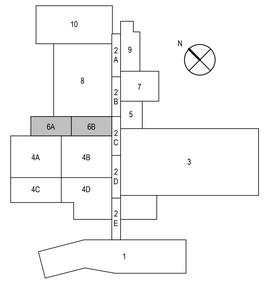
SCALE: 1/8" = 1'-0"

ZONING PLAN LEGEND

FCU-4922D

AHU-4910

KEY PLAN



RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

BE&K

KIRLIN WAY

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08 Feb 2023

Lilly

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CONCORD, NC 28027

HVAC ZONING - B6 - 2ND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

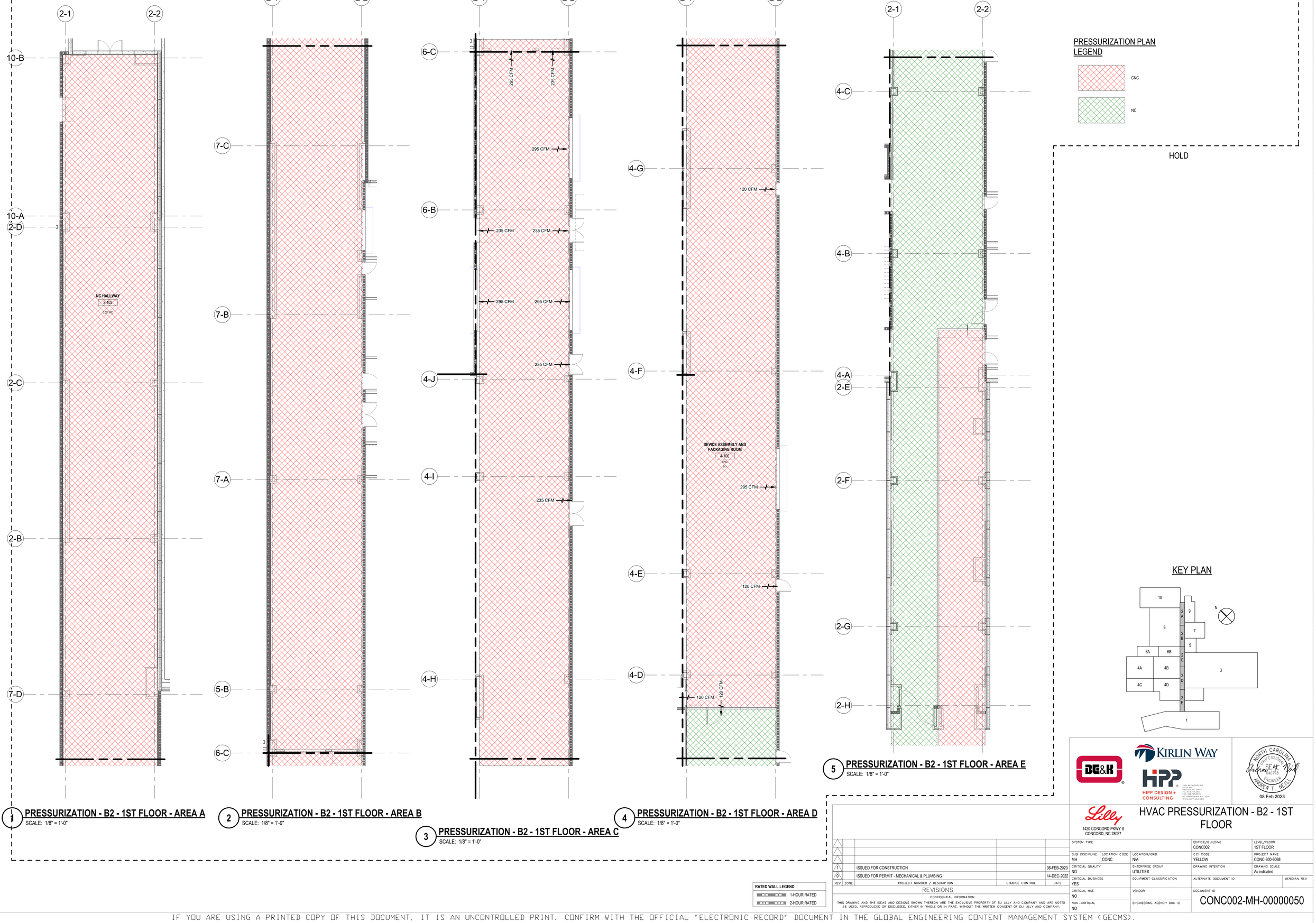
SYSTEM TYPE		EDIFICE/BUILDING: CONC006	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MH-00000020	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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1 **PRESSURIZATION - B2 - 1ST FLOOR - AREA A**
SCALE: 1/8" = 1'-0"

2 **PRESSURIZATION - B2 - 1ST FLOOR - AREA B**
SCALE: 1/8" = 1'-0"

3 **PRESSURIZATION - B2 - 1ST FLOOR - AREA C**
SCALE: 1/8" = 1'-0"

4 **PRESSURIZATION - B2 - 1ST FLOOR - AREA D**
SCALE: 1/8" = 1'-0"

5 **PRESSURIZATION - B2 - 1ST FLOOR - AREA E**
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

BG&K

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08 Feb 2023

Lilly
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CONCORD, NC 28027

HVAC PRESSURIZATION - B2 - 1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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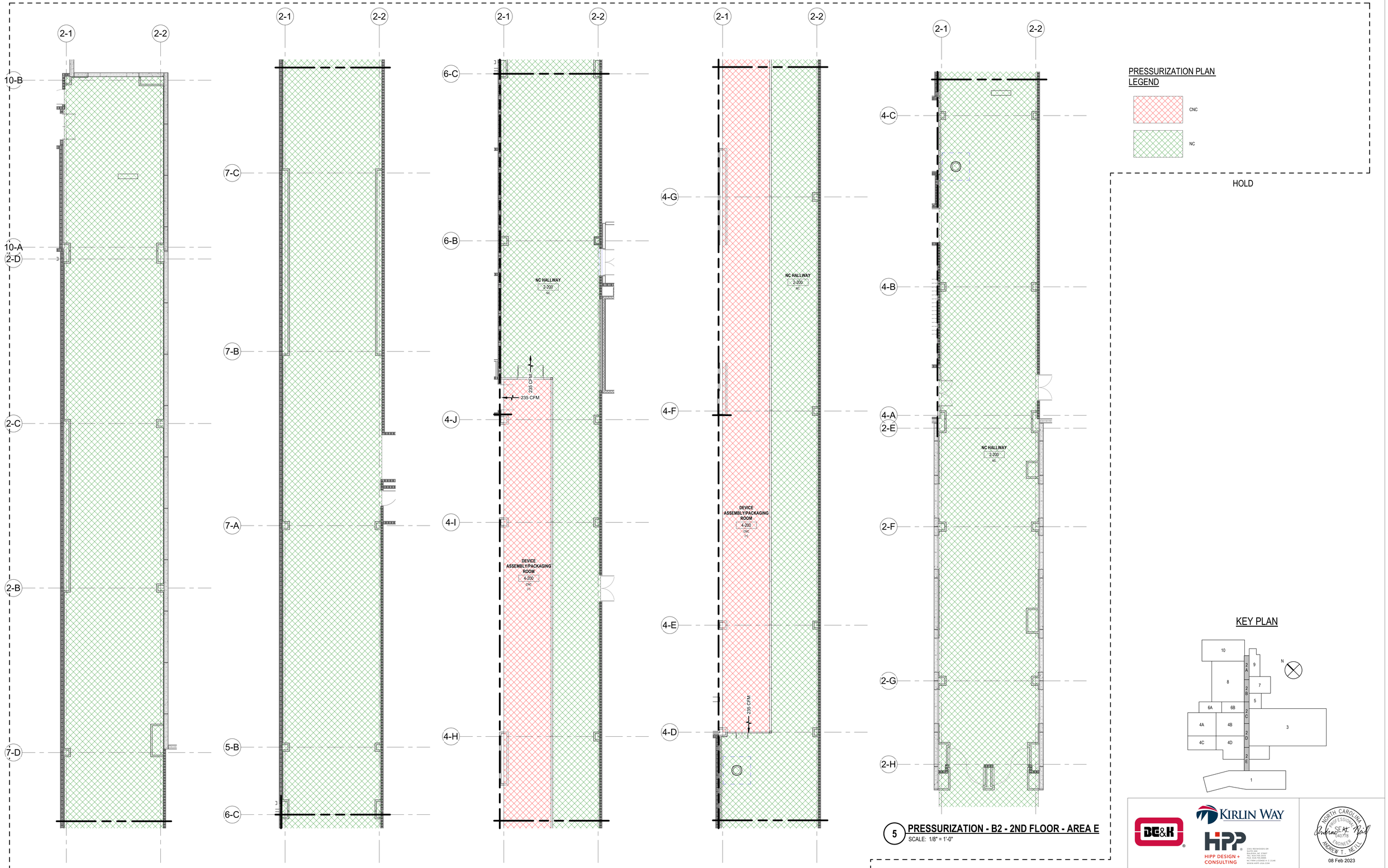
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SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC002-MH-00000050	

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1 **PRESSURIZATION - B2 - 2ND FLOOR - AREA A**
SCALE: 1/8" = 1'-0"

2 **PRESSURIZATION - B2 - 2ND FLOOR - AREA B**
SCALE: 1/8" = 1'-0"

3 **PRESSURIZATION - B2 - 2ND FLOOR - AREA C**
SCALE: 1/8" = 1'-0"

4 **PRESSURIZATION - B2 - 2ND FLOOR - AREA D**
SCALE: 1/8" = 1'-0"

5 **PRESSURIZATION - B2 - 2ND FLOOR - AREA E**
SCALE: 1/8" = 1'-0"

KEY PLAN

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

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08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B2 - 2ND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

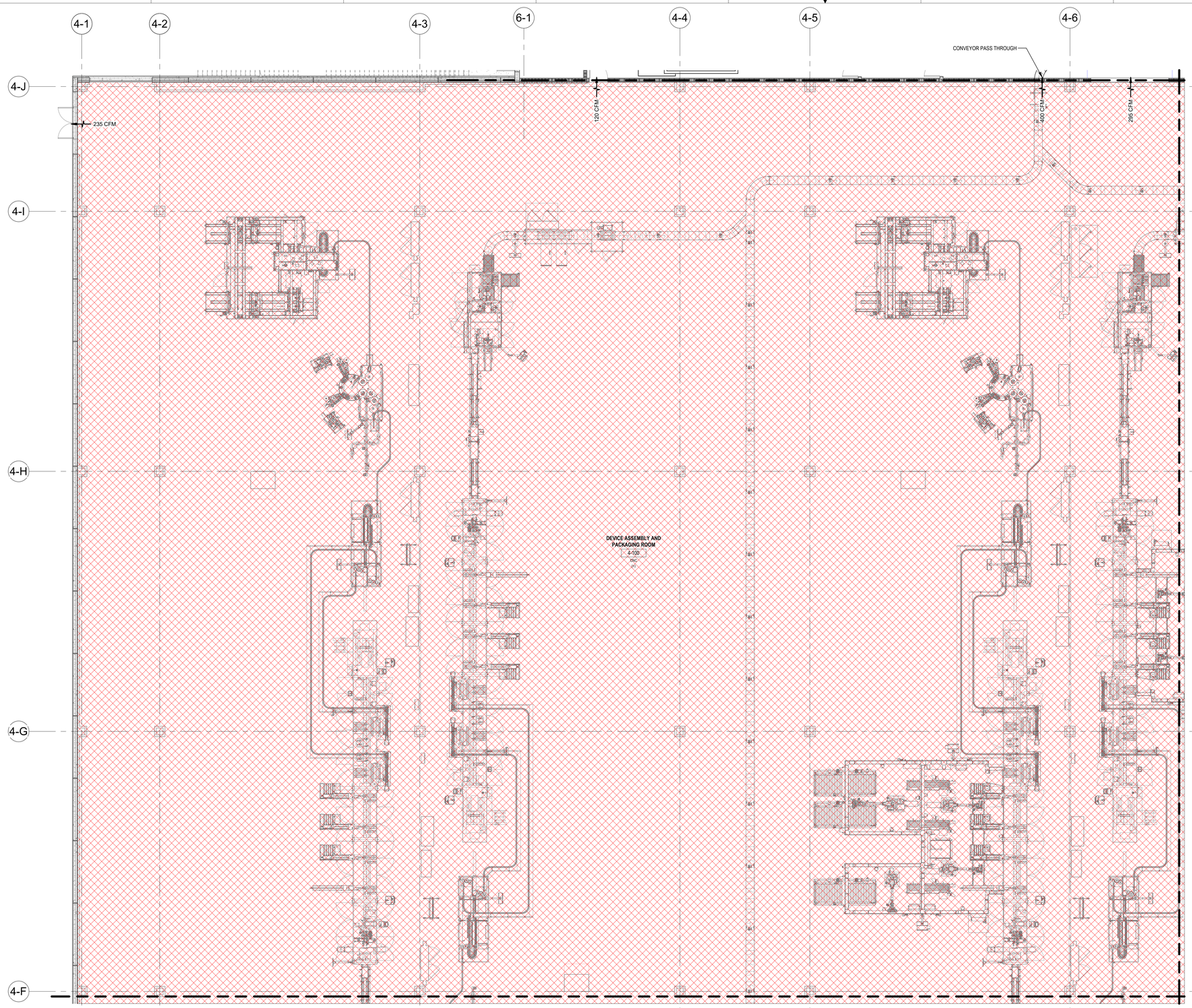
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SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC002-MH-00000060	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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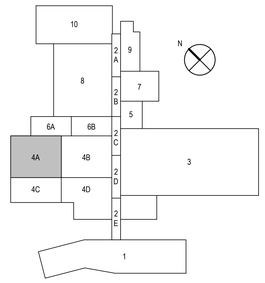


PRESSURIZATION PLAN LEGEND

CNC

NC

KEY PLAN



1 PRESSURIZATION - B4 - 1ST FLOOR - AREA A

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

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILLY

08 Feb 2023

Lilly

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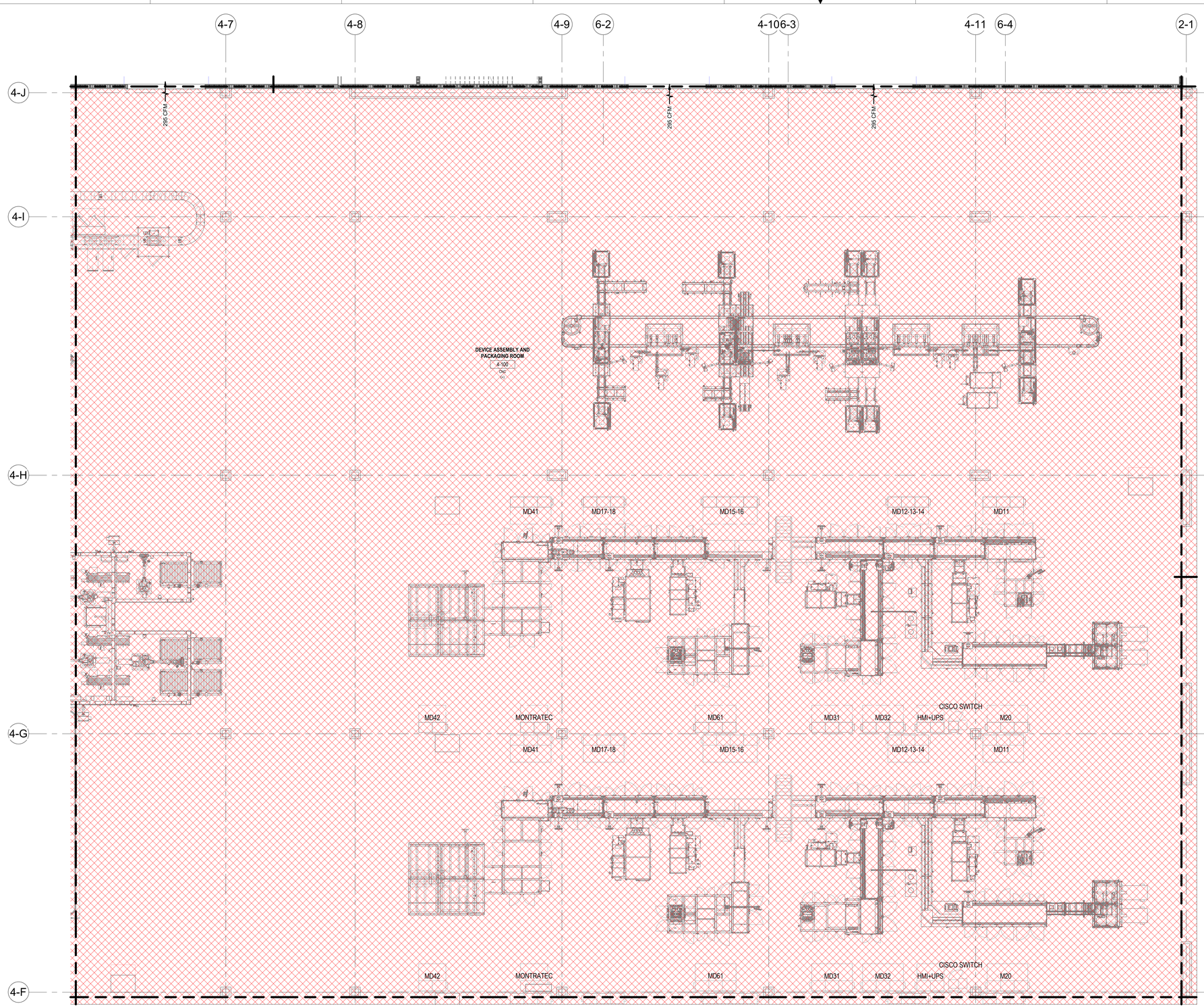
HVAC PRESSURIZATION - B4 - 1ST FLOOR - AREA A

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MH-00000051	

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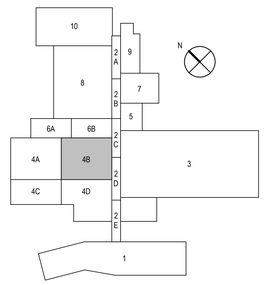


PRESSURIZATION PLAN LEGEND

CNC

NC

KEY PLAN



1 PRESSURIZATION - B4 - 1ST FLOOR - AREA B

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

RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

BE&K

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08 Feb 2023

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1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 1ST FLOOR - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
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REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000052	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

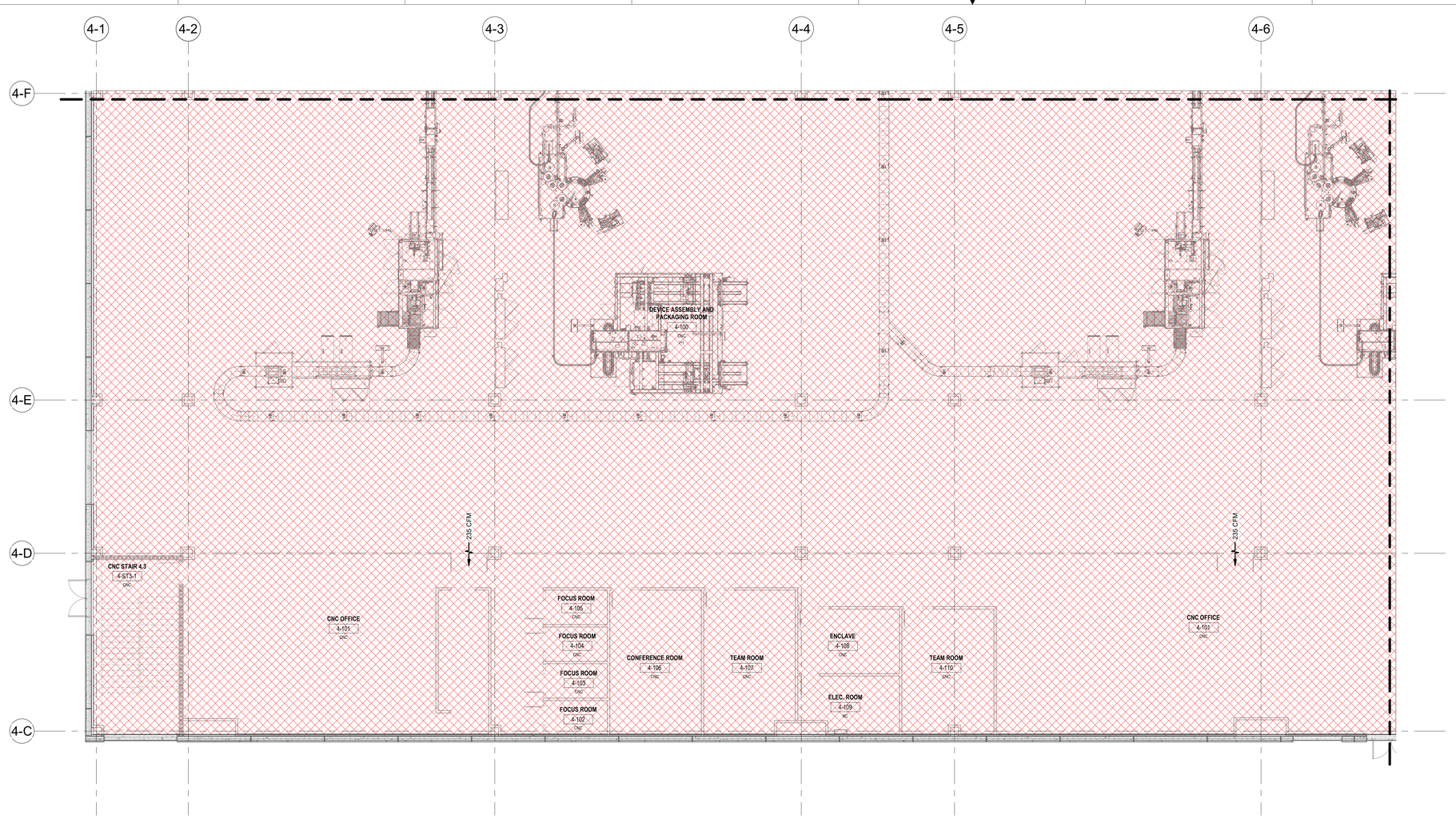
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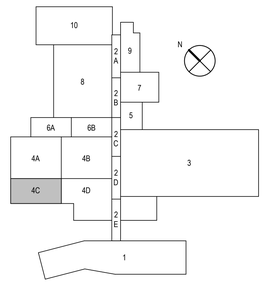
PRESSURIZATION PLAN LEGEND

- CNC
- NC

1 PRESSURIZATION - B4 - 1ST FLOOR - AREA C

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

KEY PLAN



RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL ENGINEER 040778 ANDREW T. METZ
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 1ST FLOOR - AREA C

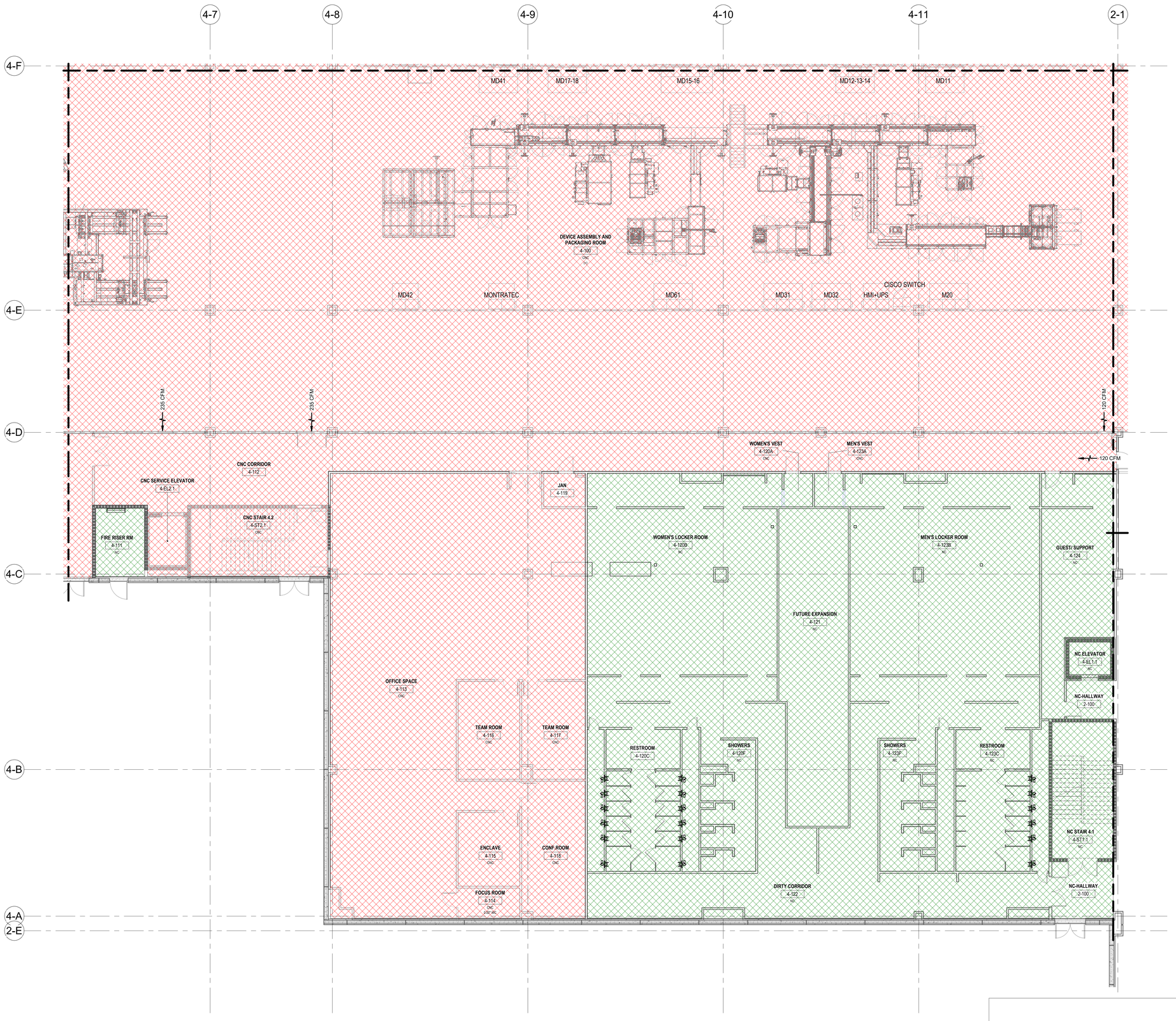
SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MH-00000053	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

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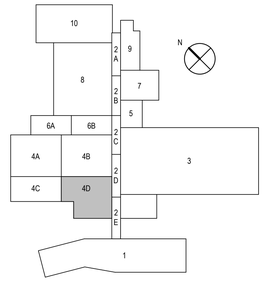


PRESSURIZATION PLAN LEGEND

CNC

NC

KEY PLAN



1 PRESSURIZATION - B4 - 1ST FLOOR - AREA D

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

RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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RALEIGH, NC 27607
PH: 919.755.9999
FAX: 919.755.9998
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WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 1ST FLOOR - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

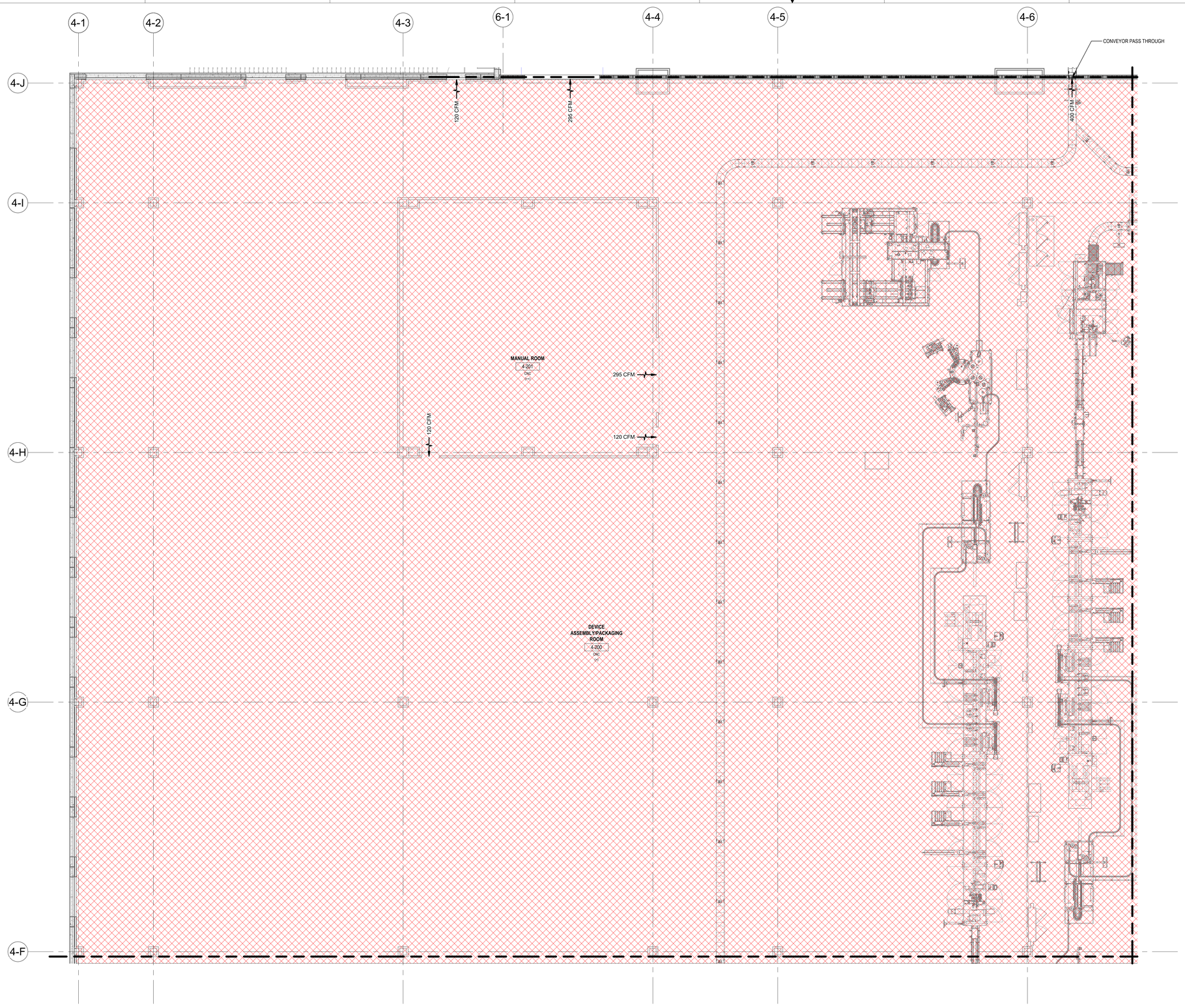
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SYSTEM TYPE		EDFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MH-00000054	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

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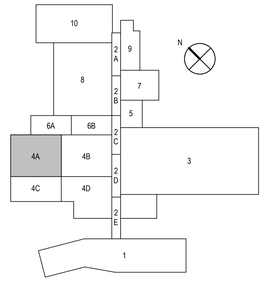
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PRESSURIZATION PLAN LEGEND

- CNC
- NC

KEY PLAN



1 PRESSURIZATION - B4 - 2ND FLOOR - AREA A

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

HIPP DESIGN + CONSULTING
2001 REYNWOOD DR
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CARY, NC 27507
TEL: 919.781.1555
FAX: 919.781.1556
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 2ND FLOOR - AREA A

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

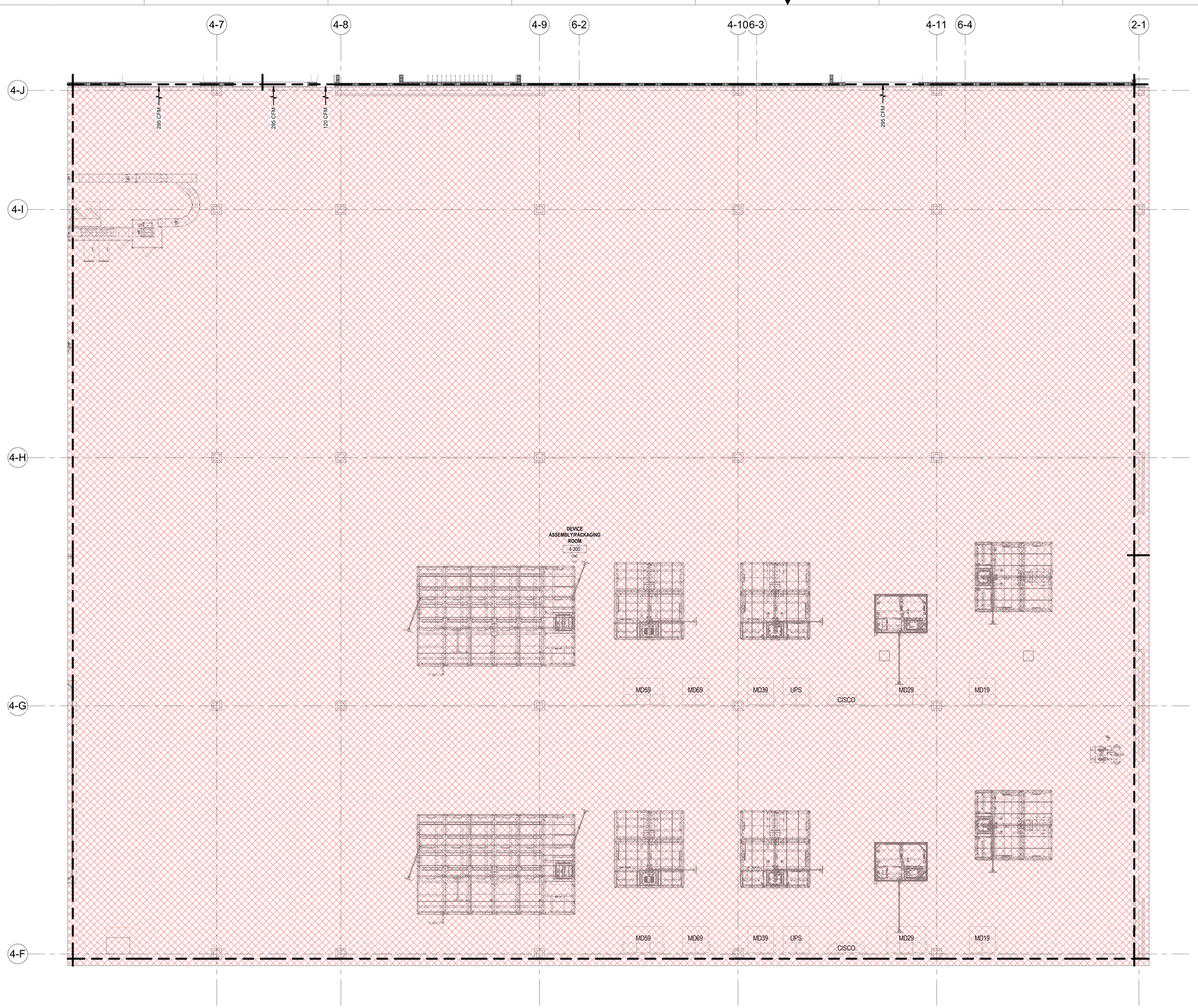
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000061	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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Autodesk Docs://EI Lily – Concord Facility/Lilly/CON_246_CDOC_HIPP_22.rvt

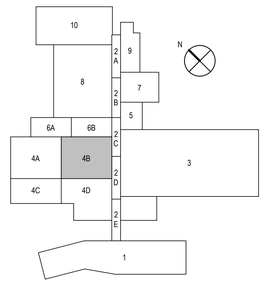


PRESSURIZATION PLAN LEGEND

CNC

NC

KEY PLAN



1 PRESSURIZATION - B4 - 2ND FLOOR - AREA B

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 2ND FLOOR - AREA B

REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

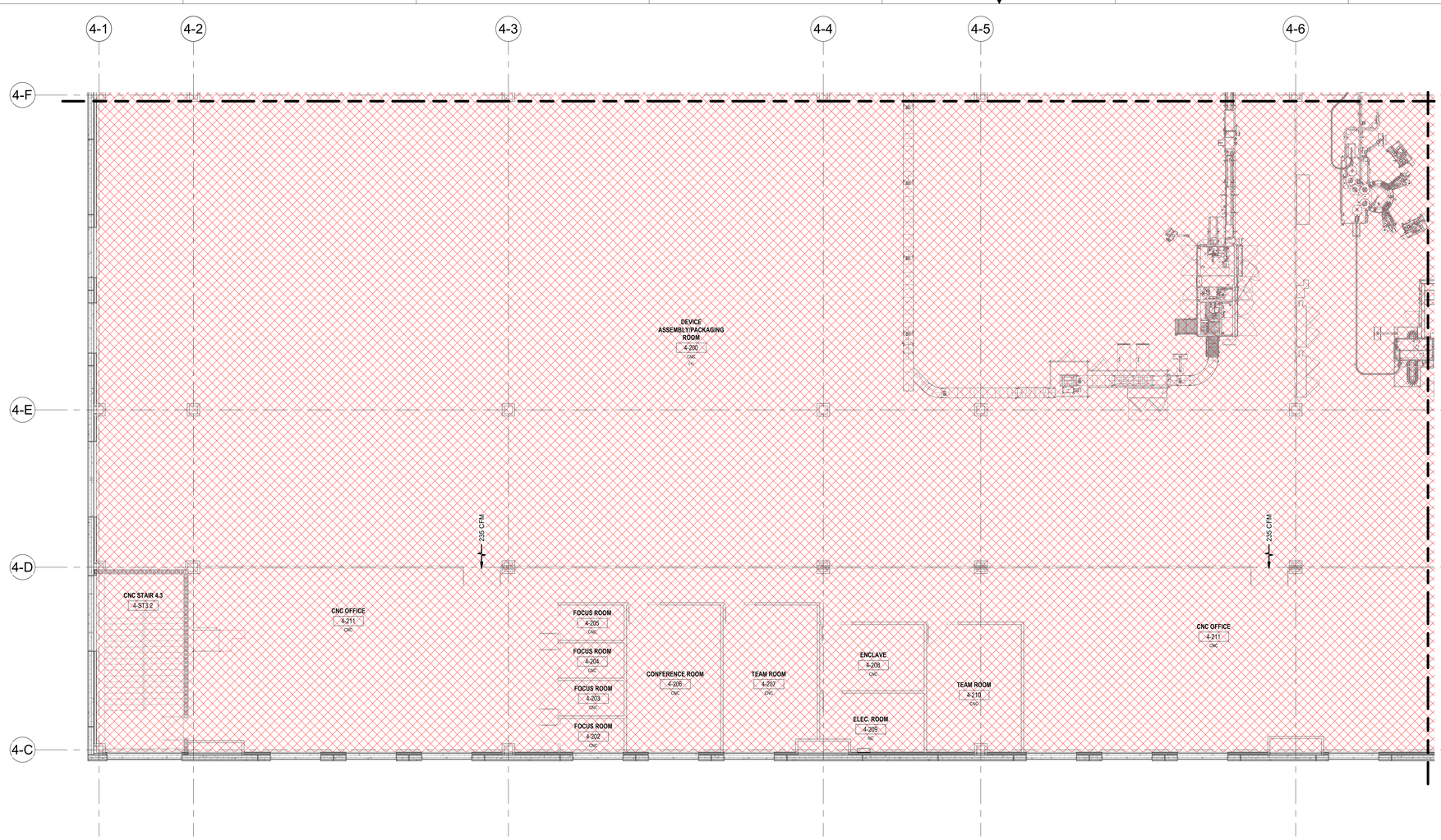
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SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000062	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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PRESSURIZATION PLAN LEGEND

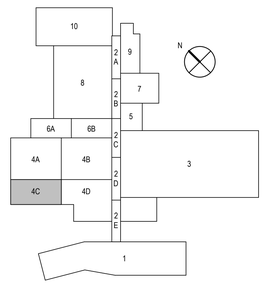
CNC

NC

1 PRESSURIZATION - B4 - 2ND FLOOR - AREA C

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

KEY PLAN



RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

KIRLIN WAY

HIPP DESIGN + CONSULTING

2301 REXWOODS DR
SUITE 300
RALEIGH, NC 27607
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 2ND FLOOR - AREA C

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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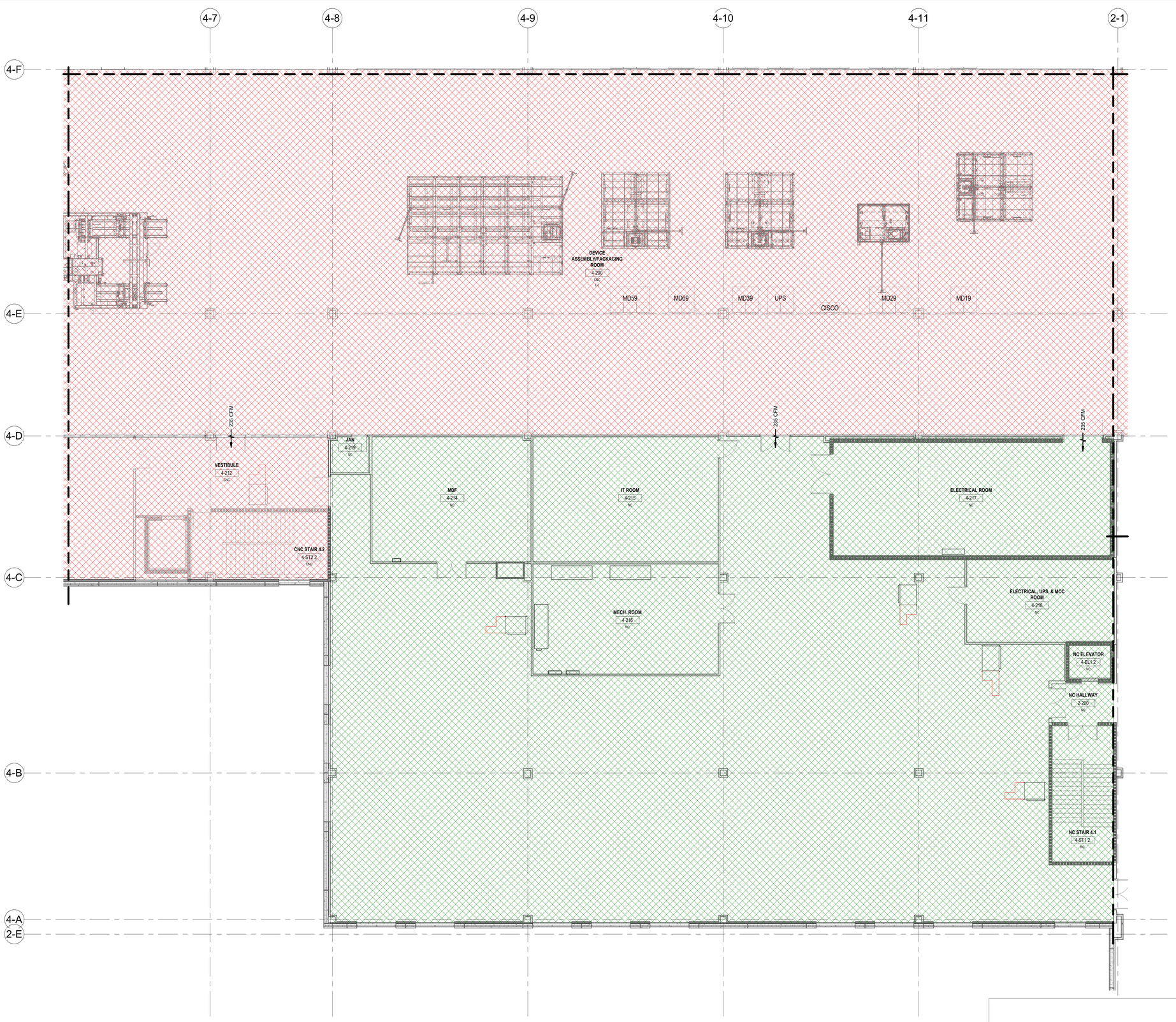
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SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CEI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000063	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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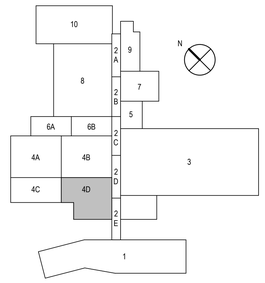
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PRESSURIZATION PLAN LEGEND

- CNC
- NC

KEY PLAN



1 PRESSURIZATION - B4 - 2ND FLOOR - AREA D

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BG&H

KIRLIN WAY

HIPP DESIGN + CONSULTING

3301 REYNOLDS DR
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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B4 - 2ND FLOOR - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

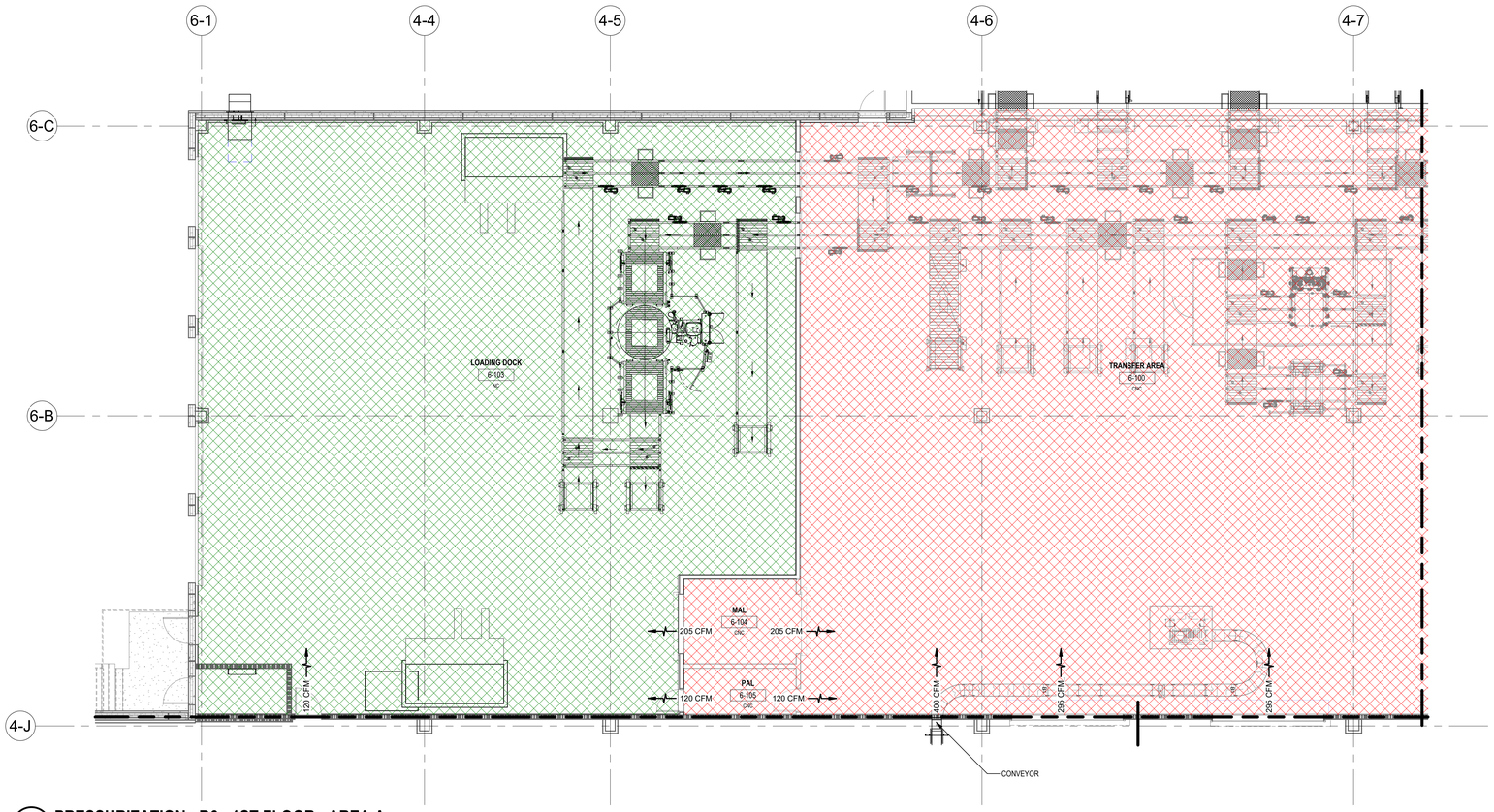
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MH-00000064	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

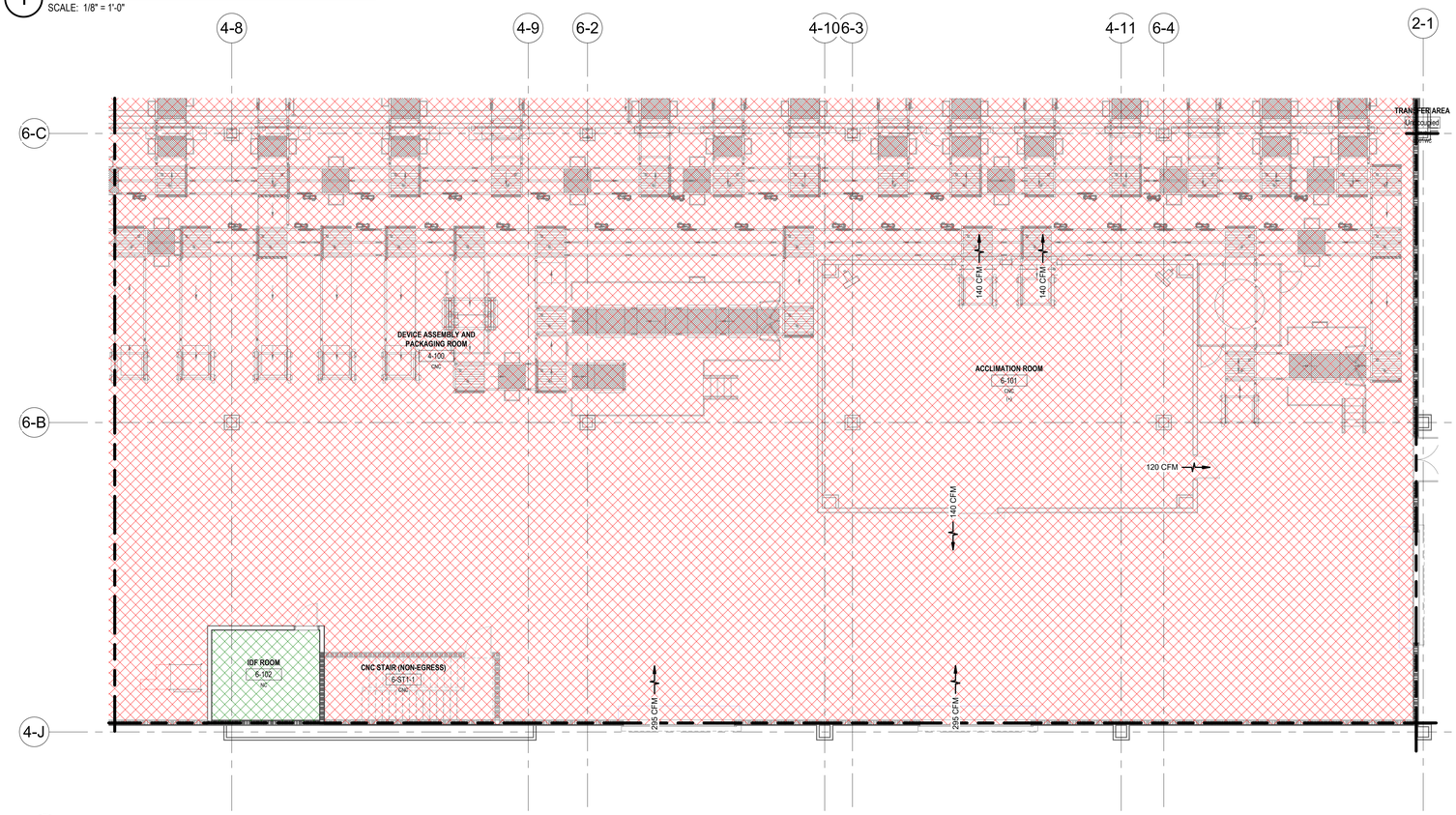
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1 **PRESSURIZATION - B6 - 1ST FLOOR - AREA A**
SCALE: 1/8" = 1'-0"



2 **PRESSURIZATION - B6 - 1ST FLOOR - AREA B**
SCALE: 1/8" = 1'-0"

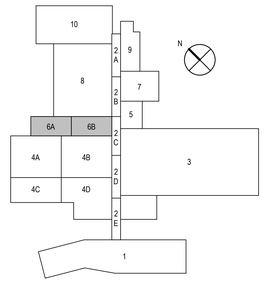
RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

PRESSURIZATION PLAN LEGEND

CNC

NC

KEY PLAN



BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING
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SUITE 200
RALEIGH, NC 27607
TEL: 919.781.1555
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NC FIRM LICENSE: P-0144
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NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B6 - 1ST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

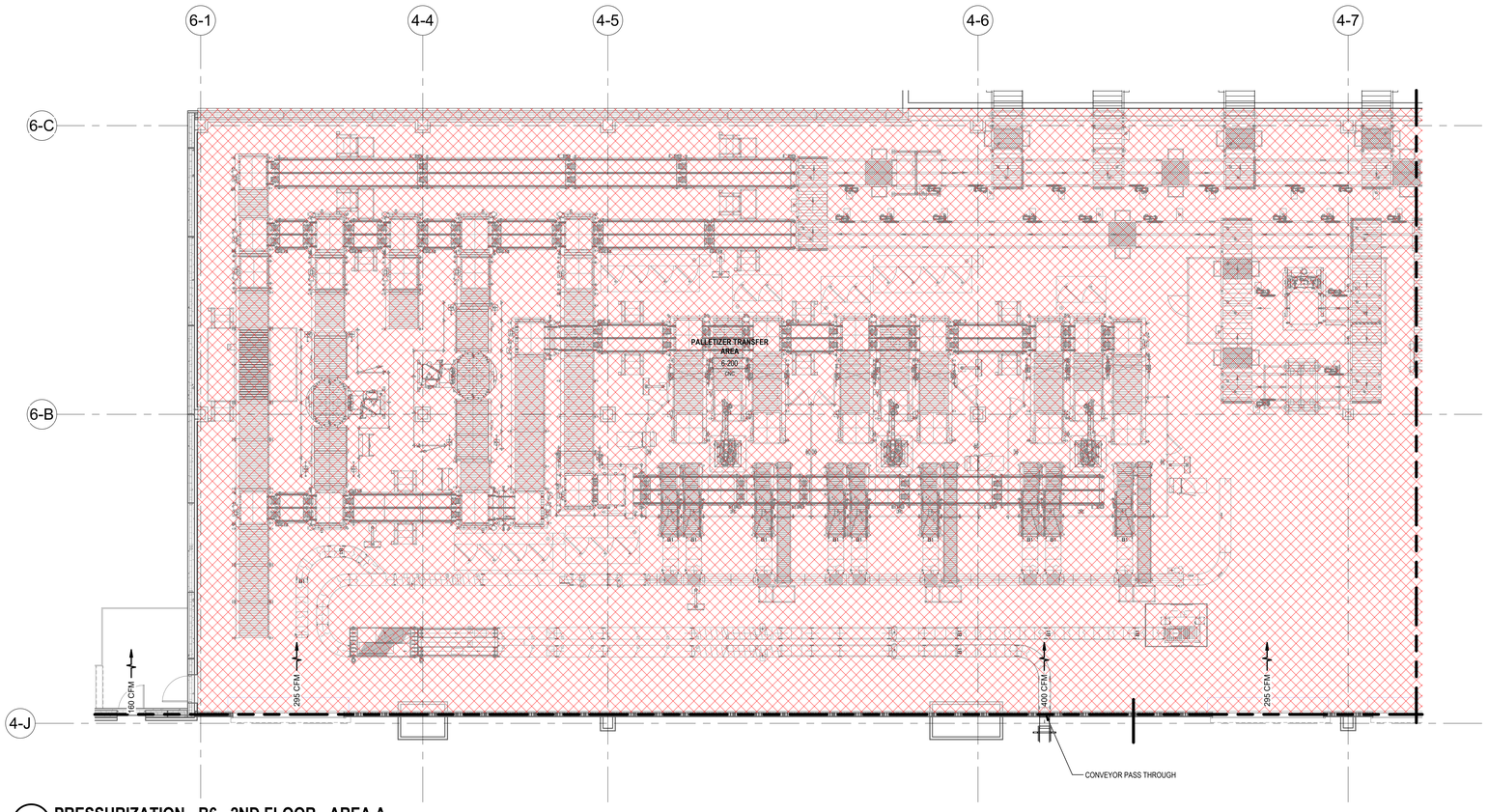
REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
MH	CONC	CONC006	1ST FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE / PROJECT NAME
N/A		N/A	YELLOW / CONC-300-5983
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION / DRAWING SCALE
NO		CDAP	As indicated
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC006-MH-00000050
NON-CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

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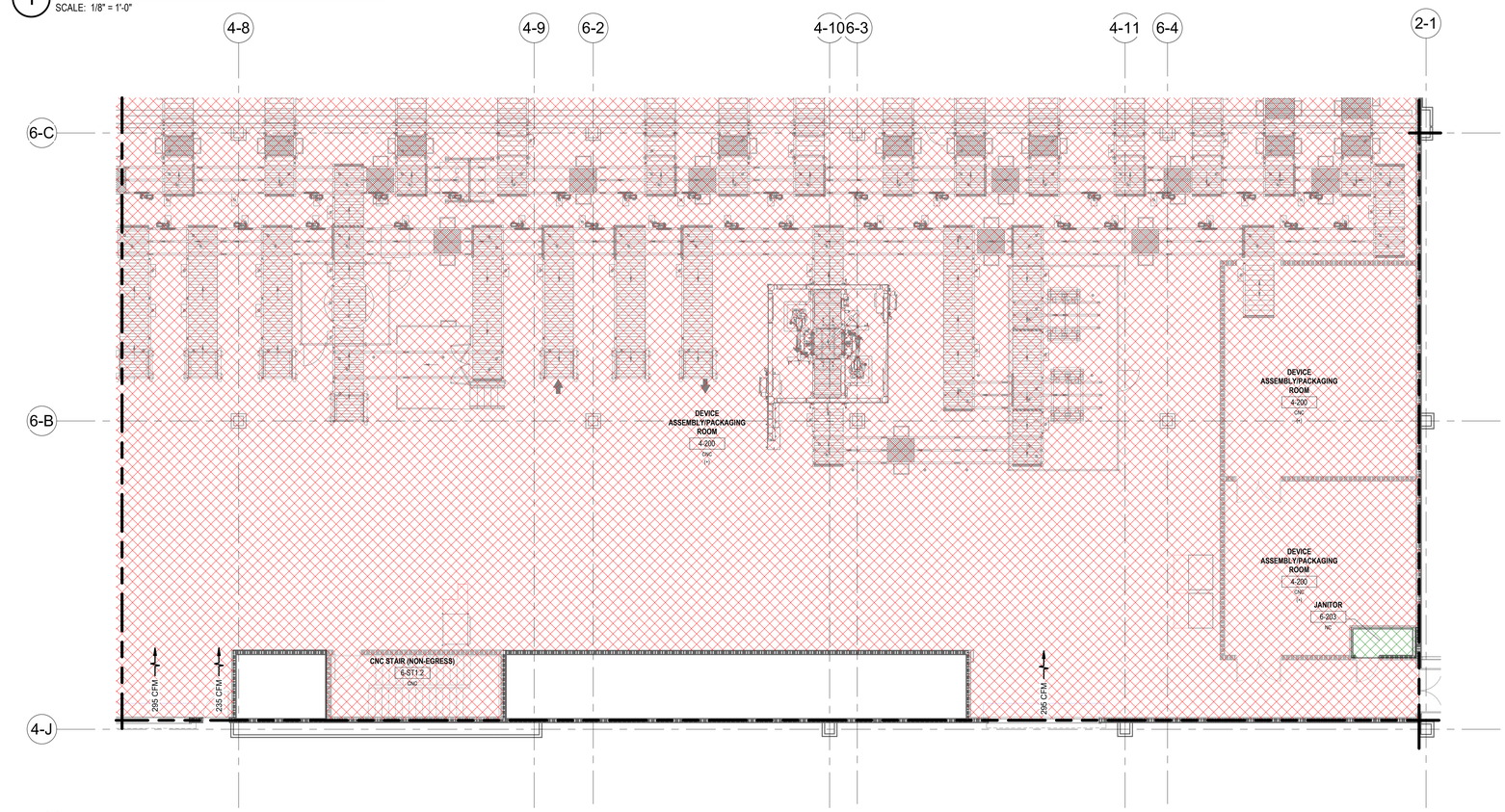
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1 PRESSURIZATION - B6 - 2ND FLOOR - AREA A

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



2 PRESSURIZATION - B6 - 2ND FLOOR - AREA B

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

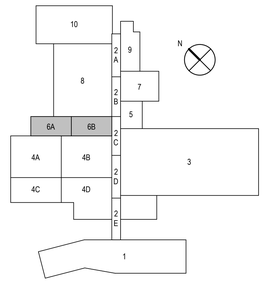
PRESSURIZATION PLAN LEGEND

- CNC
- NC

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



KIRLIN WAY

HIPP DESIGN + CONSULTING

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08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC PRESSURIZATION - B6 - 2ND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

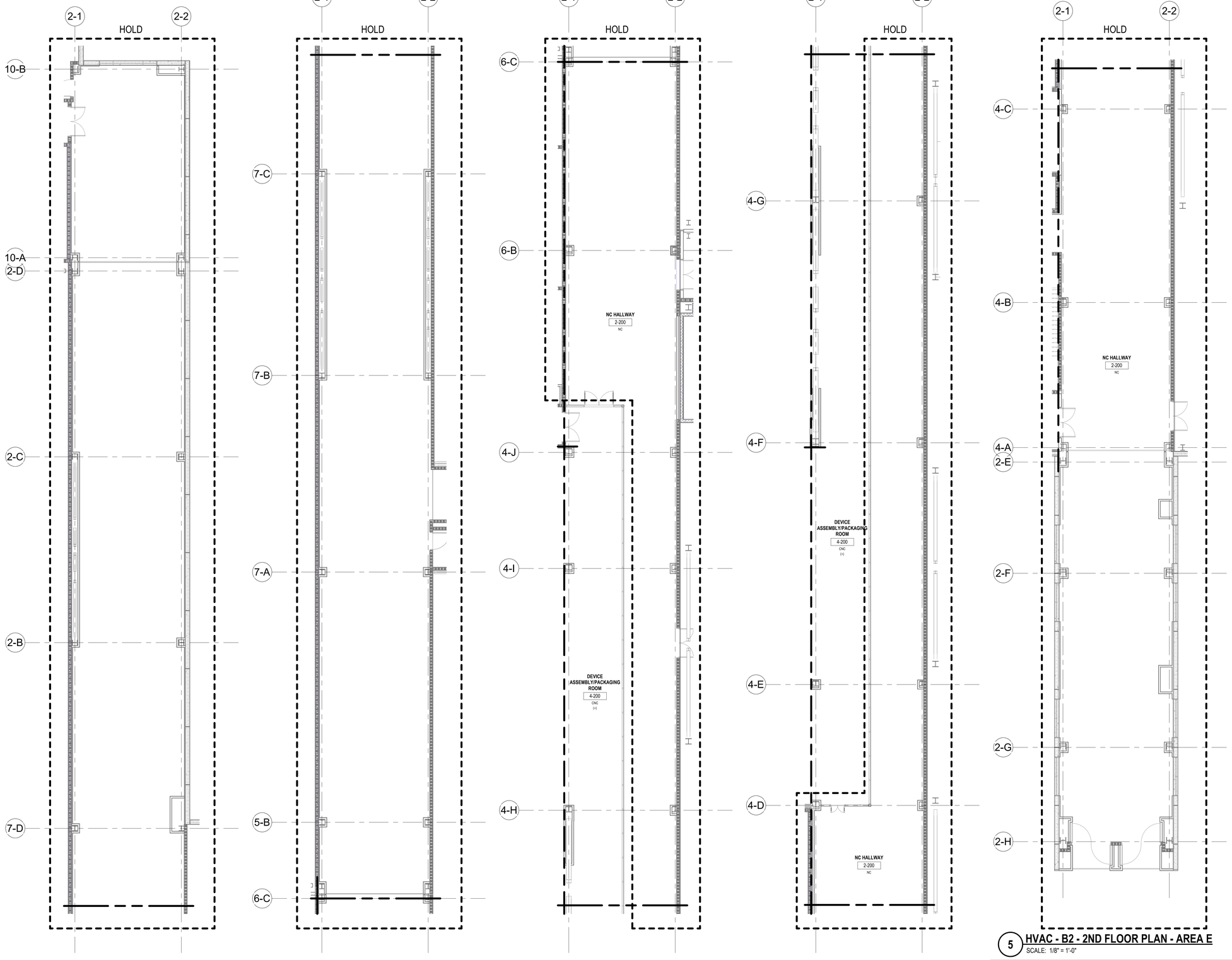
SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
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SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC006-MH-00000060	

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1 **HVAC - B2 - 2ND FLOOR PLAN - AREA A**
SCALE: 1/8" = 1'-0"

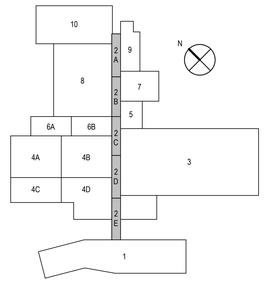
2 **HVAC - B2 - 2ND FLOOR PLAN - AREA B**
SCALE: 1/8" = 1'-0"

3 **HVAC - B2 - 2ND FLOOR PLAN - AREA C**
SCALE: 1/8" = 1'-0"

4 **HVAC - B2 - 2ND FLOOR PLAN - AREA D**
SCALE: 1/8" = 1'-0"

5 **HVAC - B2 - 2ND FLOOR PLAN - AREA E**
SCALE: 1/8" = 1'-0"

KEY PLAN



RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

BE&K
KIRLIN WAY
HIPP DESIGN + CONSULTING
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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B2 - 2ND FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0		ISSUED FOR CONSTRUCTION		08-FEB-2023

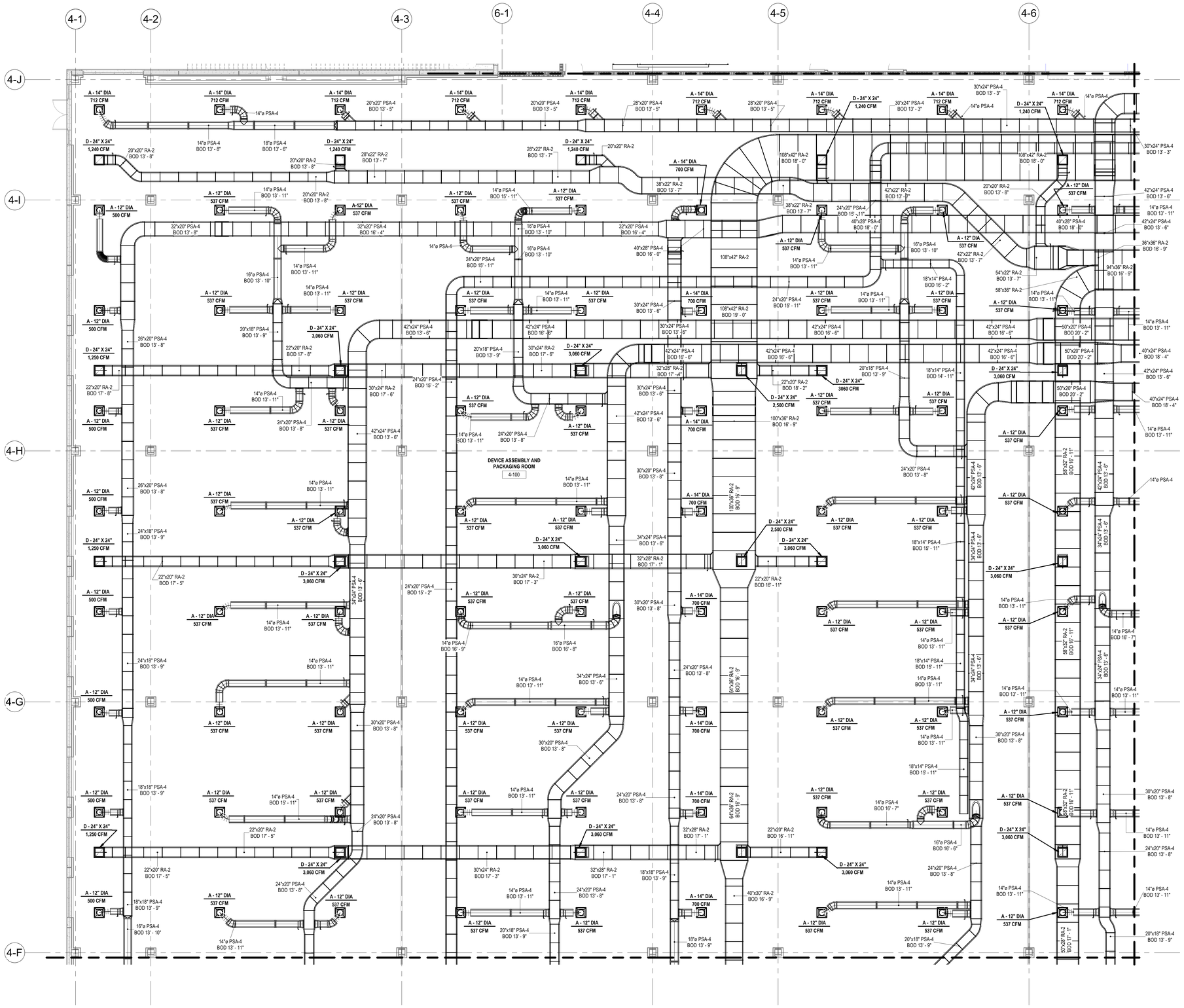
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SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC002-MH-00000120	

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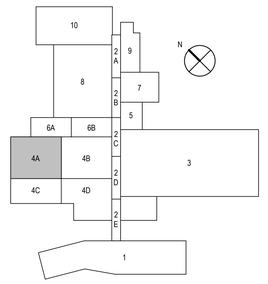
1 HVAC - B4 - 1ST FLOOR PLAN - AREA A

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



BE&H

KIRLIN WAY

HIPP DESIGN + CONSULTING

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 1ST FLOOR PLAN - AREA A

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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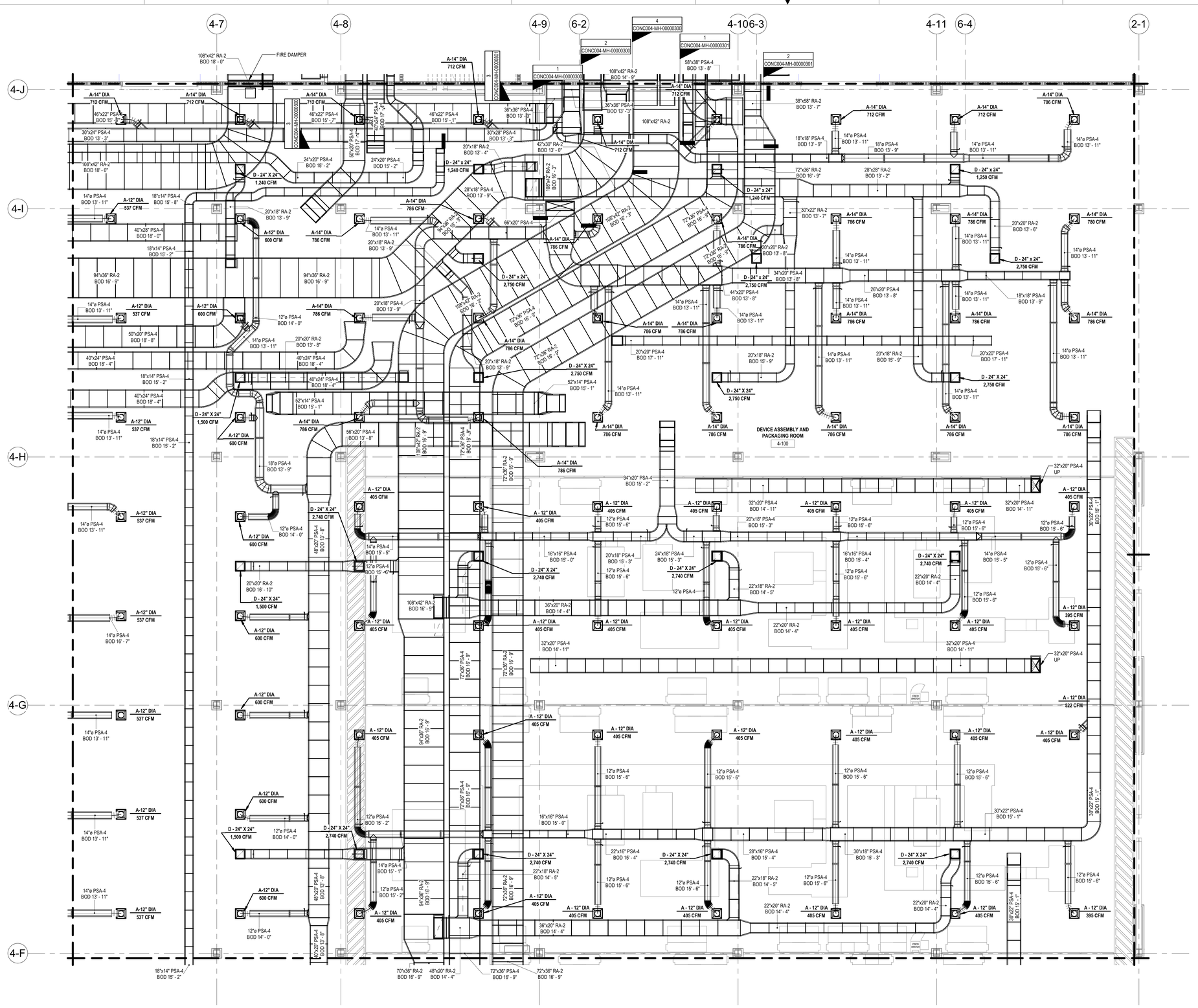
SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000111	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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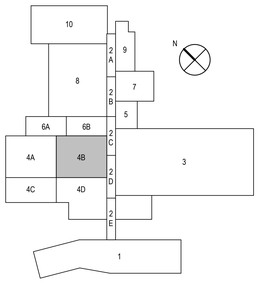
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KEY PLAN



RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

HIPP DESIGN + CONSULTING
2301 REXWOODS DR
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RALEIGH, NC 27607
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEAL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 1ST FLOOR PLAN - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

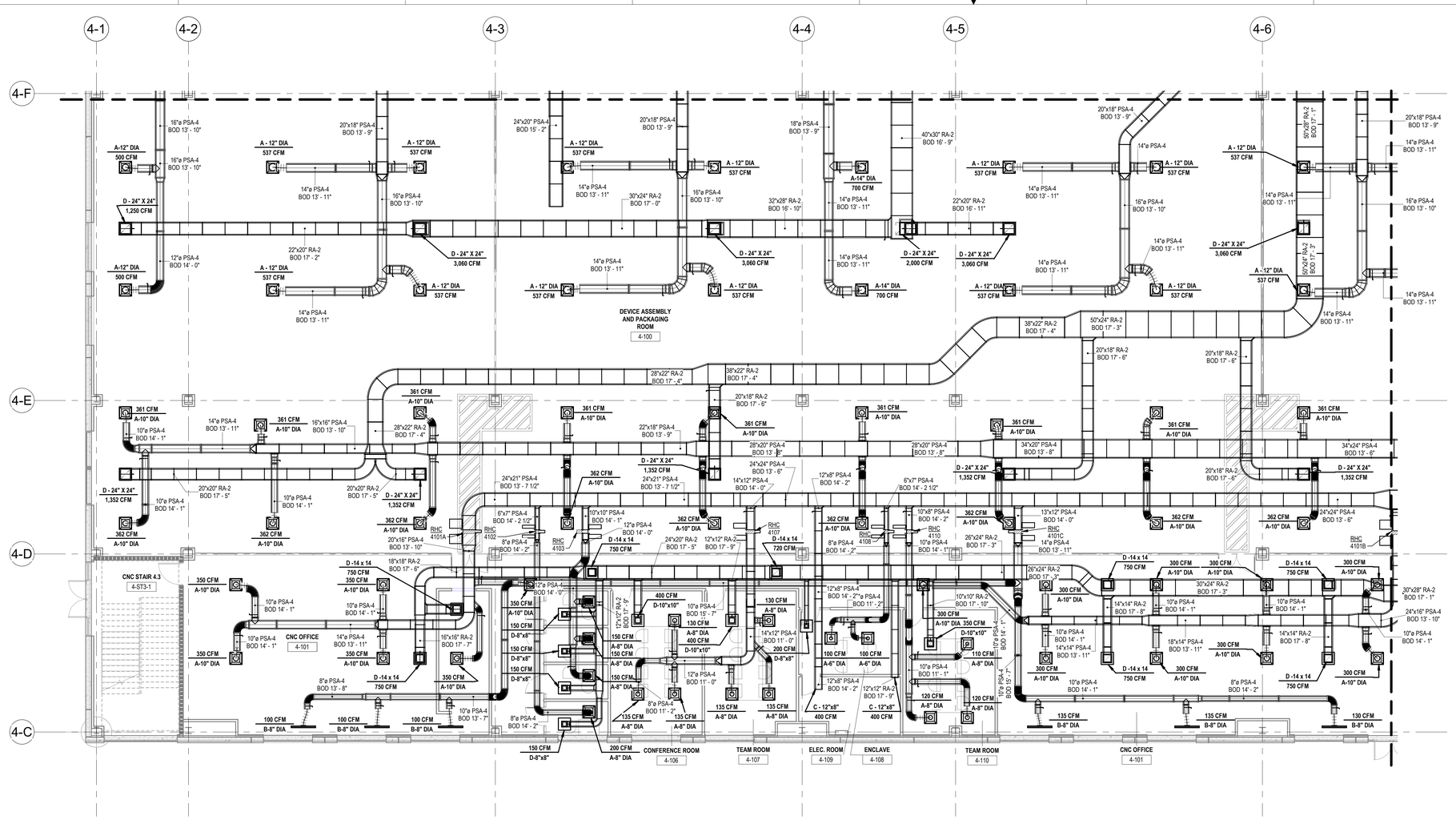
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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC004	1ST FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
MH	CONC	N/A	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION
NO		CDAP	
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC004-MH-00000112
NON-CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

DRAWING SCALE: 1/8" = 1'-0"
MERIDIAN REV:

1 **HVAC - B4 - 1ST FLOOR PLAN - AREA B**
SCALE: 1/8" = 1'-0"

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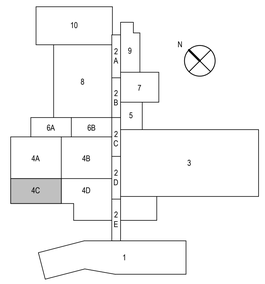
1 HVAC - B4 - 1ST FLOOR PLAN - AREA C

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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FAX. 919.782.8886
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 1ST FLOOR PLAN - AREA C

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW / PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION / DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000113
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

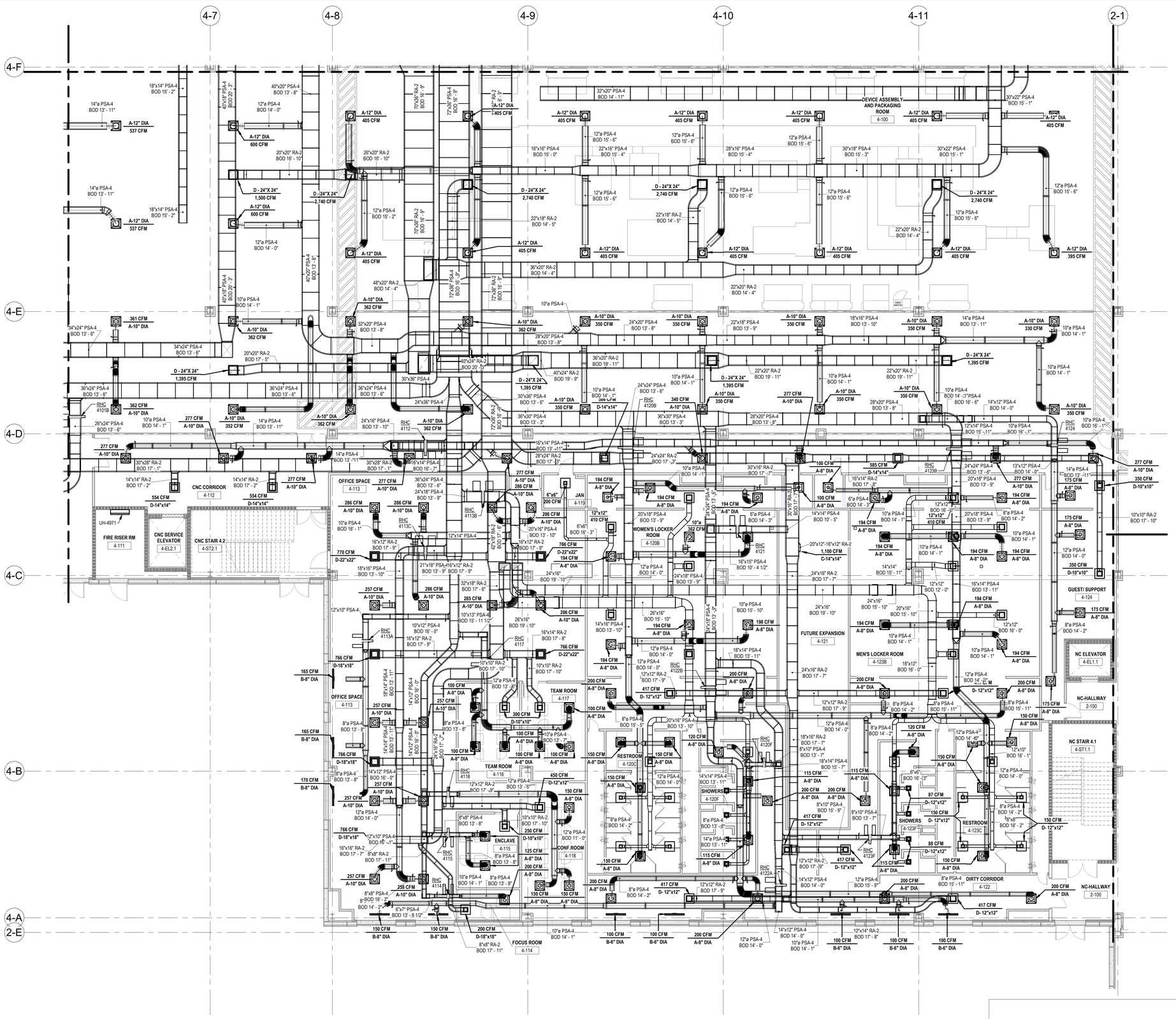
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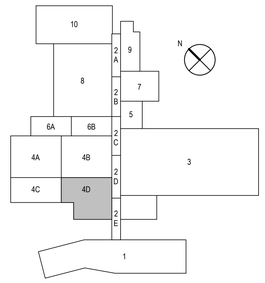
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KEY PLAN



1 HVAC - B4 - 1ST FLOOR PLAN - AREA D

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

RATED WALL LEGEND
- 1-HOUR RATED
- 2-HOUR RATED

BE&K

KIRLIN WAY

HPP DESIGN + CONSULTING
2301 ROSECROSS DR
SUITE 200
RALEIGH, NC 27607
TEL: 919.791.1551
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WWW.HPP-USA.COM

NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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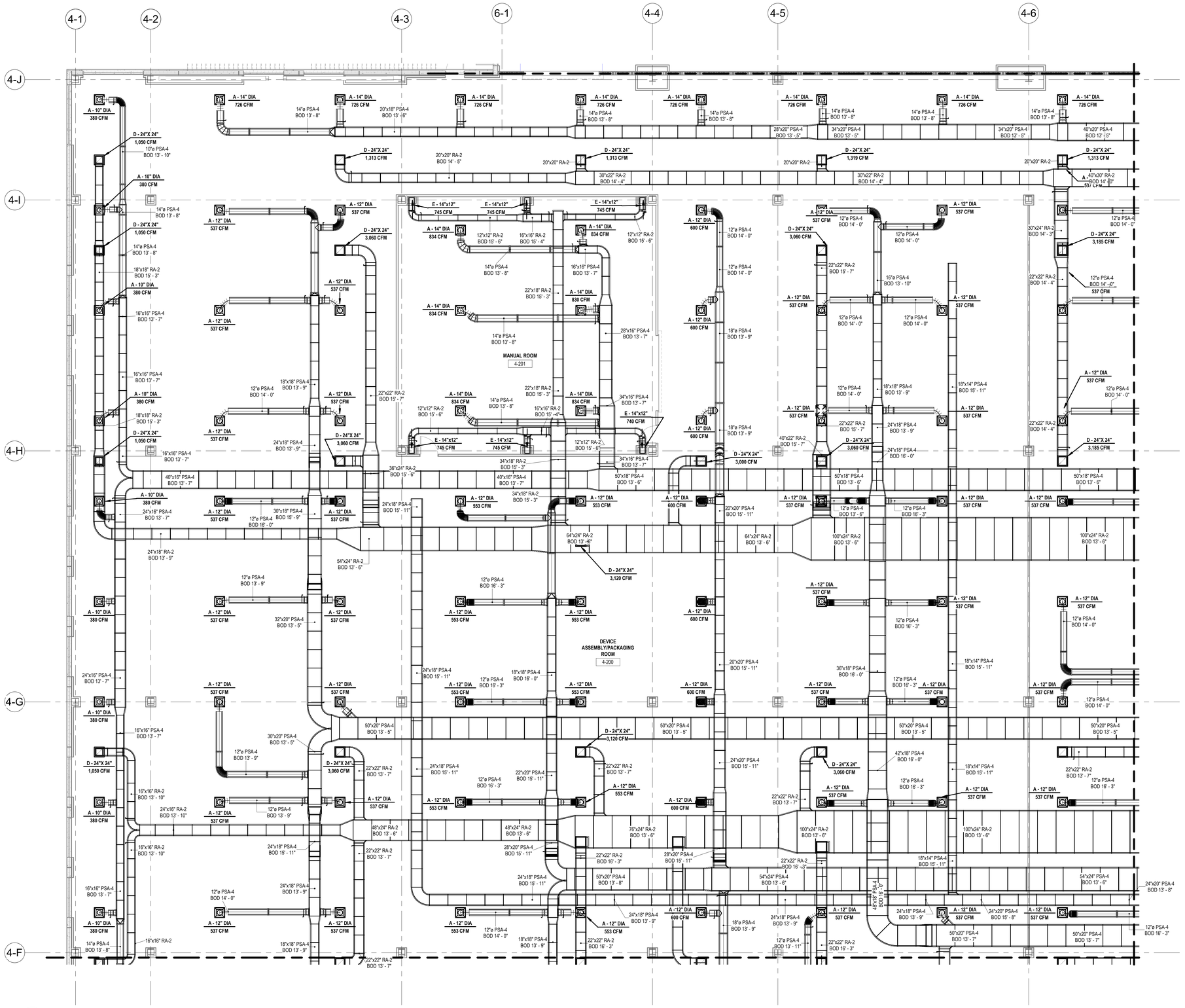
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	PROJECT NAME: CONC-300-6070
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	DRAWING INTENTION: 1/8" = 1'-0"
CRITICAL HSE: NO		VENDOR	ALTERNATE DOCUMENT ID / MERIDIAN REV
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	DOCUMENT ID: CONC004-MH-00000114

HVAC - B4 - 1ST FLOOR PLAN - AREA D

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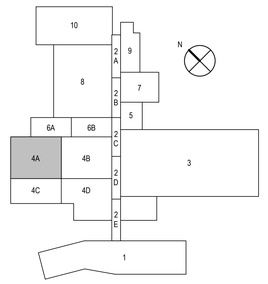
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1 **HVAC - B4 - 2ND FLOOR PLAN - AREA A**
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

KEY PLAN



BE&K
KIRLIN WAY
HPP DESIGN + CONSULTING
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SUITE 200
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TEL: 919.755.1818
FAX: 919.755.1819
NC FIRM LICENSE # C-2108
WWW.HPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 2ND FLOOR PLAN - AREA A

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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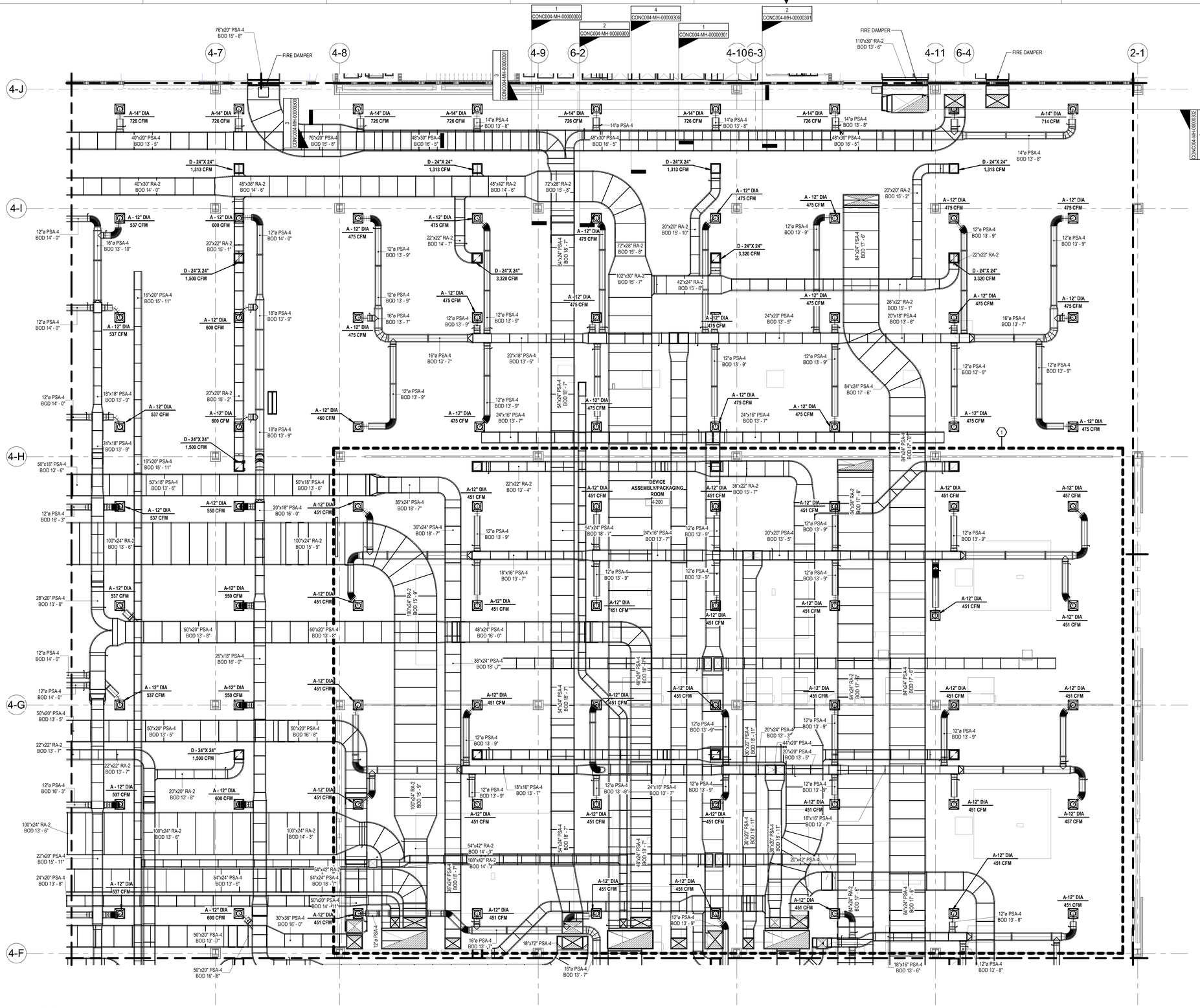
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SYSTEM TYPE	EDIFICE/BUILDING: CONC004; LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH; LOCATION CODE: CONC; LOCATION/GRID: N/A	CCI CODE: YELLOW; PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO; ENTERPRISE GROUP: CDAP	DRAWING INTENTION; DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES; EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID; MERIDIAN REV
CRITICAL HSE: NO; VENDOR	DOCUMENT ID: CONC004-MH-00000121
NON-CRITICAL: NO; ENGINEERING AGENCY DOC ID	

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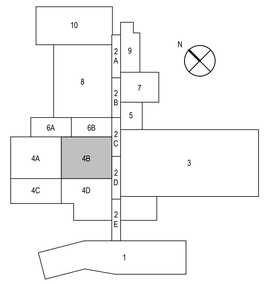
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KEY NOTES

1 ALL SUPPLY AND RETURN DISTRIBUTION DUCT ASSOCIATED WITH AHU-4906 ON HOLD PENDING FINAL DESIGN COORDINATION.

KEY PLAN



1 HVAC - B4 - 2ND FLOOR PLAN - AREA B

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

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING
2301 REXWOODS DR
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 2ND FLOOR PLAN - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
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REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000122	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

CONFIDENTIAL INFORMATION

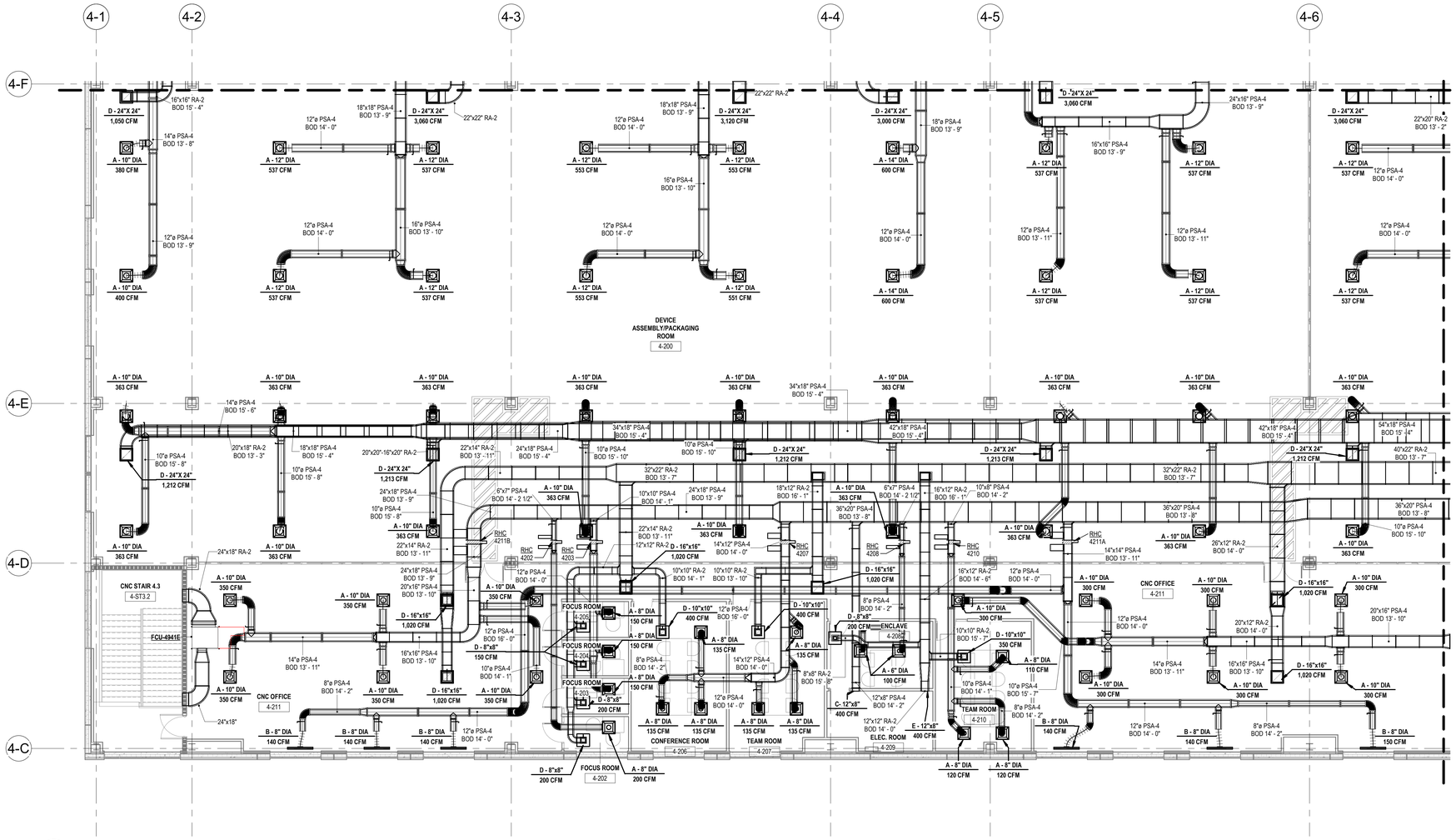
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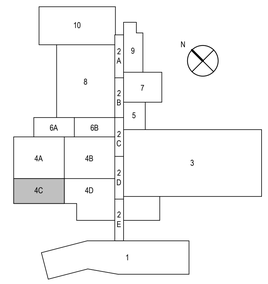


1 HVAC - B4 - 2ND FLOOR PLAN - AREA C

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

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

KEY PLAN



BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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RALEIGH, NC 27607
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 2ND FLOOR PLAN - AREA C

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

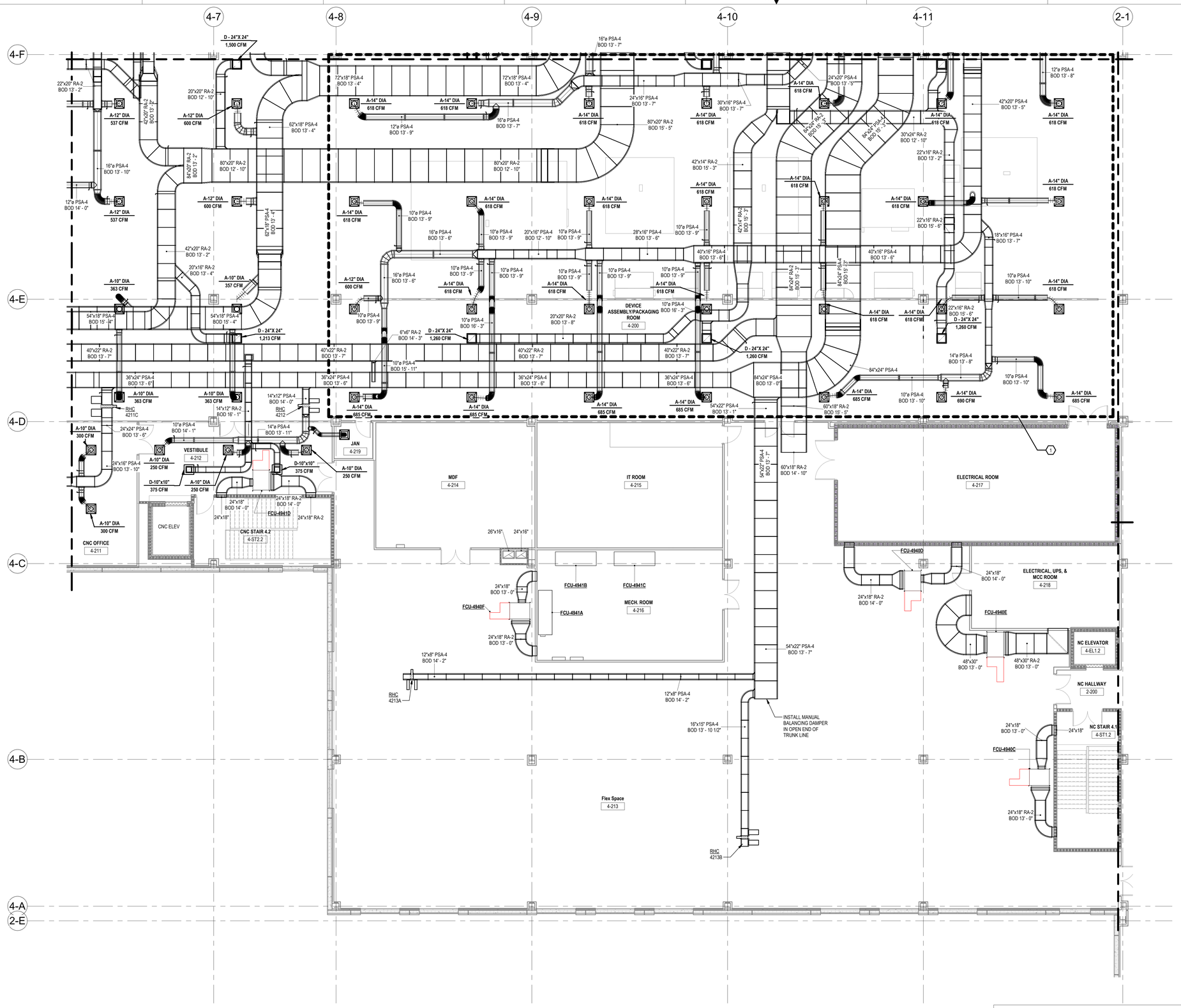
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MH-00000123	
NON-CRITICAL: NO	ENGINEERING AGENCY DOC ID		

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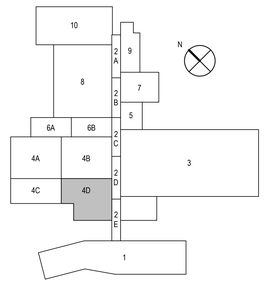
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KEY NOTES

1 ALL SUPPLY AND RETURN DISTRIBUTION DUCT ASSOCIATED WITH AHU-4906 ON HOLD PENDING FINAL DESIGN COORDINATION.

KEY PLAN



1 HVAC - B4 - 2ND FLOOR PLAN - AREA D

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B4 - 2ND FLOOR PLAN - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

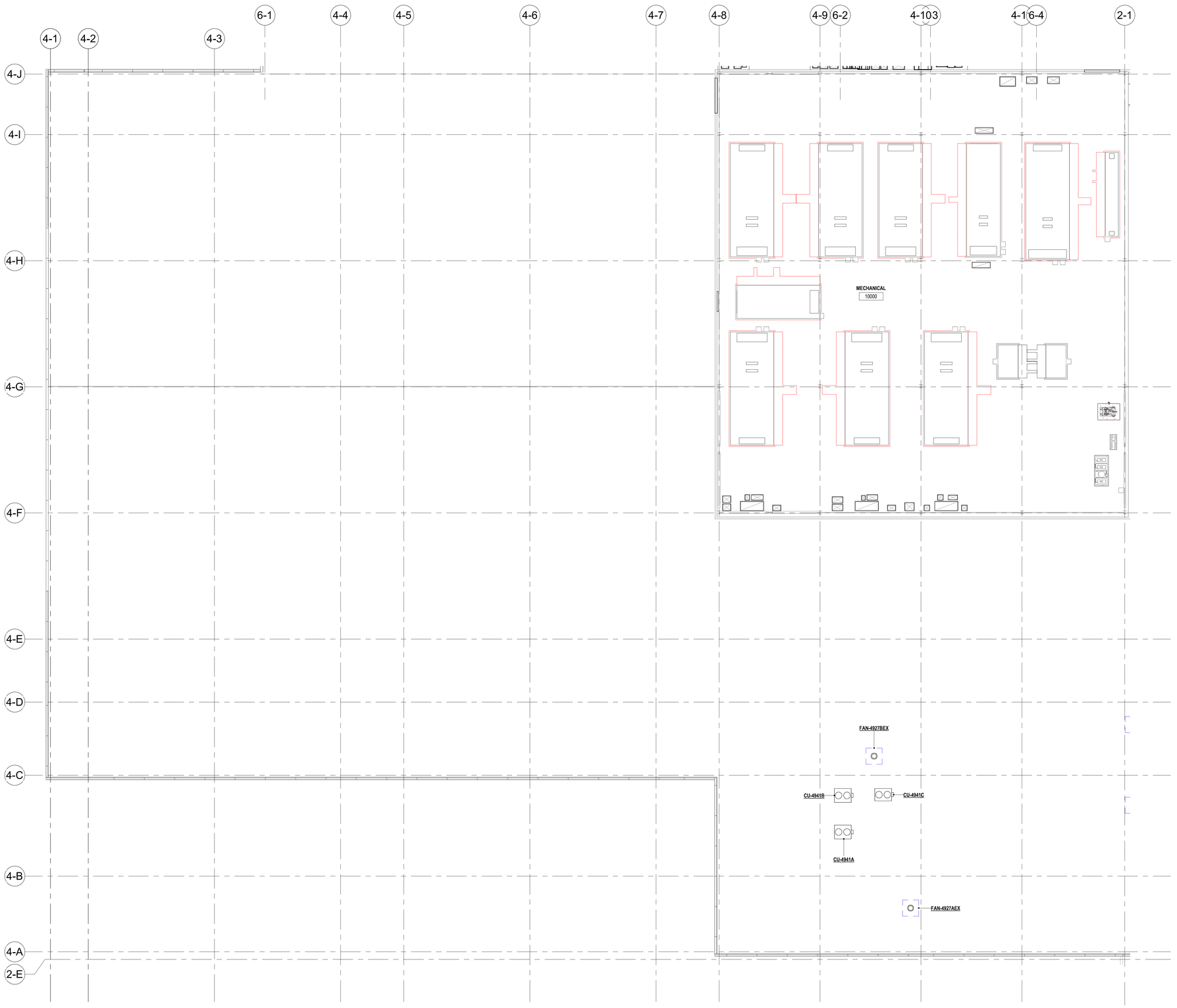
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000124	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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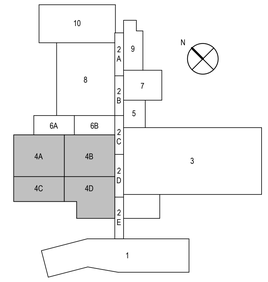


1 **HVAC - B4 - ROOF PLAN**
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET CONC004-MH-00000131-HVAC -B4-PENTHOUSE - LOWER LEVEL AND CONC004-MH-00000132-HVAC -B4-PENTHOUSE - UPPER LEVEL FOR ALL DUCTWORK IN THE PENTHOUSE.

KEY PLAN



RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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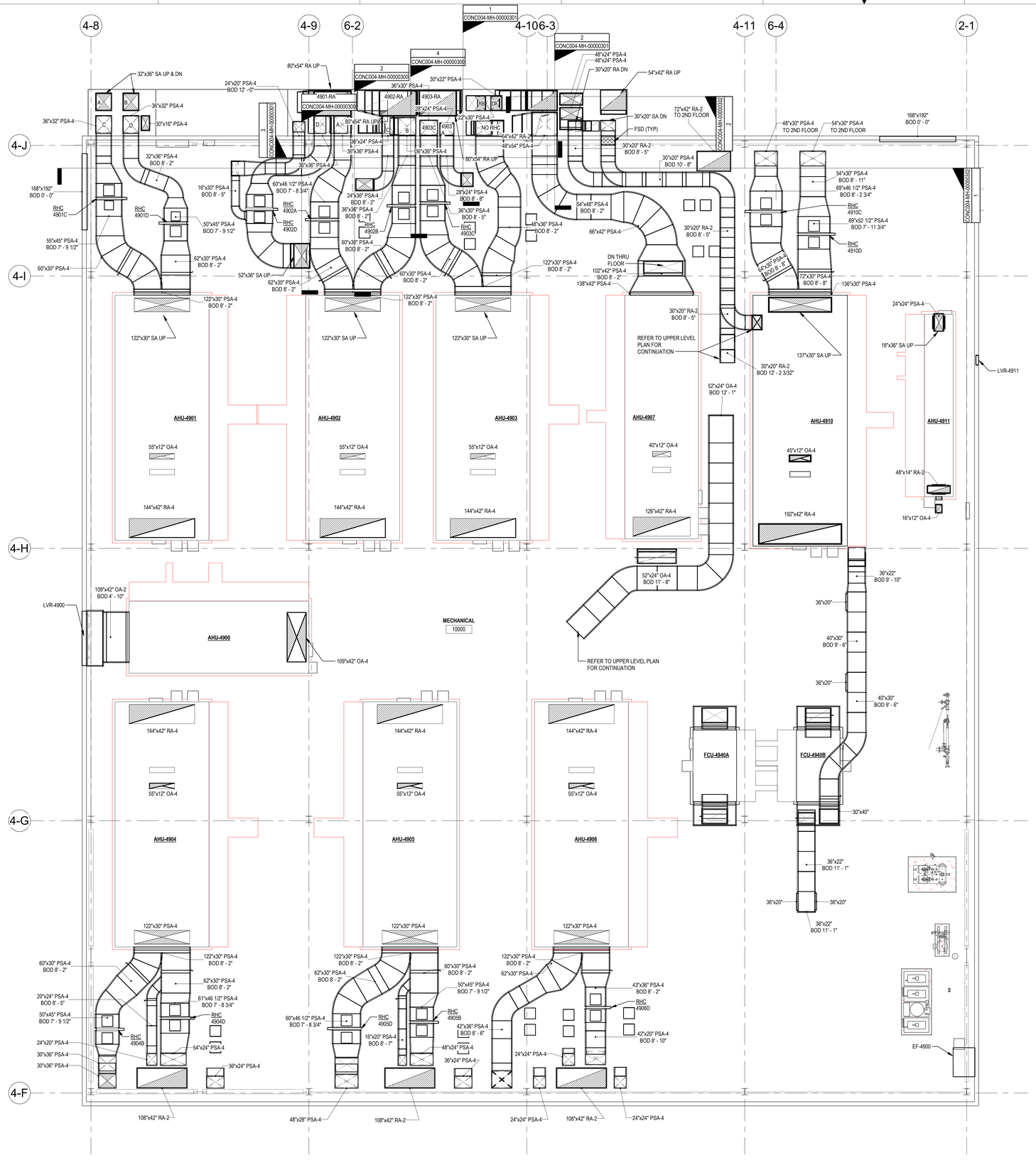
HVAC - B4 - ROOF PLAN

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: ROOF
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/16" = 1'-0"
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CRITICAL HSE: NO		VENDOR	DOCUMENT ID
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MH-00000130

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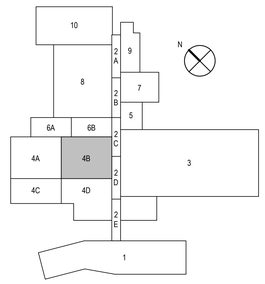
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GENERAL NOTES

1. LOWER LEVEL PENTHOUSE SHOWS DUCTWORK FROM FLOOR TO 12' IN THE PENTHOUSE. FOR UPPER LEVEL PENTHOUSE DUCTWORK (12'-PENTHOUSE ROOF), SEE SHEET CONC004-MH-00000132.

KEY PLAN



1 HVAC - B4 - PENTHOUSE - LOWER LEVEL

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

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HVAC - B4 - PENTHOUSE - LOWER LEVEL

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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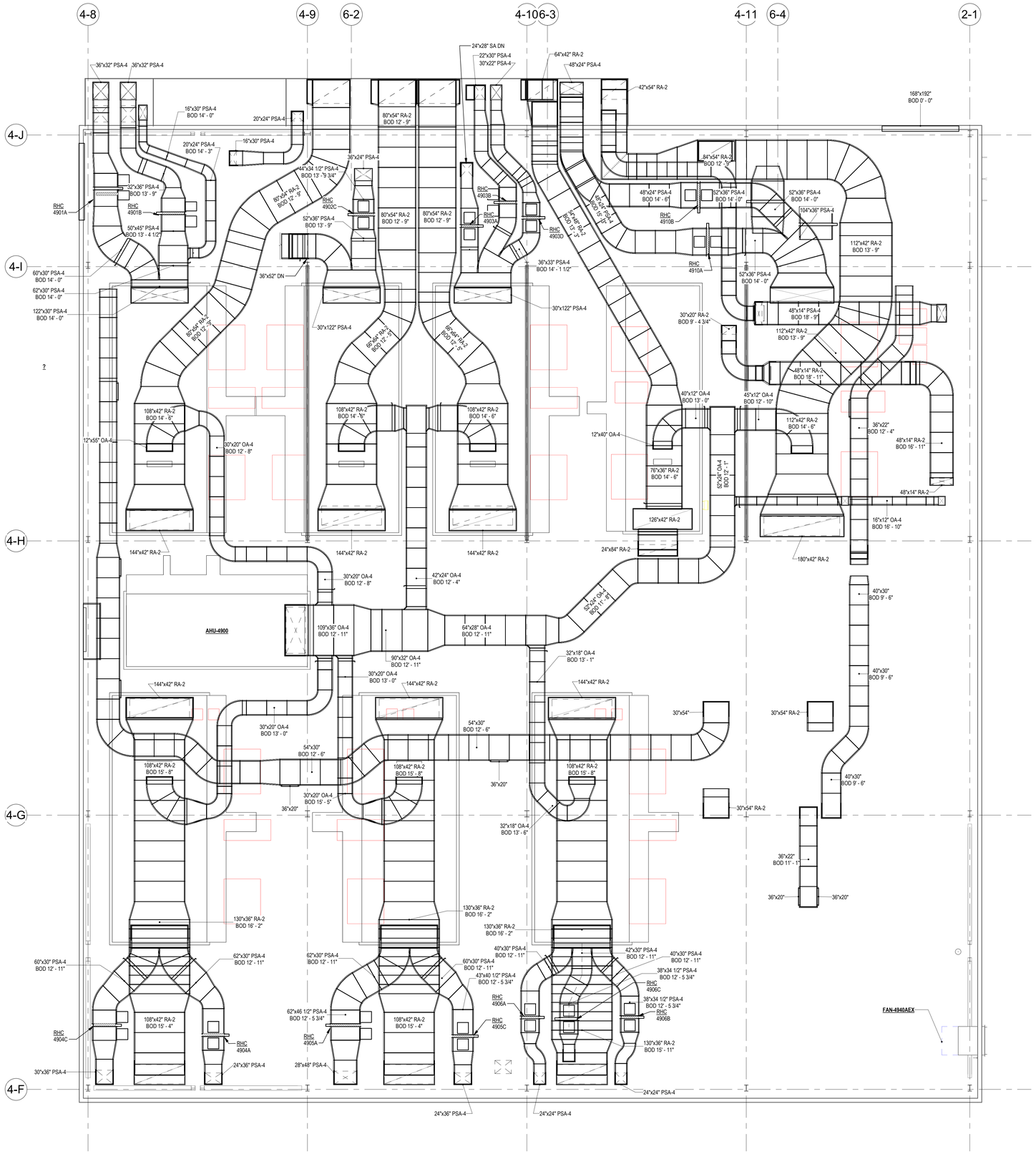
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: PENTHOUSE
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000131	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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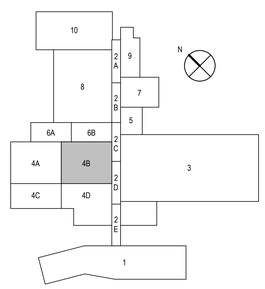
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GENERAL NOTES

1. UPPER LEVEL PENTHOUSE SHOWS DUCTWORK 12' AND ABOVE IN THE PENTHOUSE. FOR LOWER LEVEL PENTHOUSE DUCTWORK (0'-12'), SEE SHEET CONC004-MH-00000131.

KEY PLAN



1 HVAC - B4 - PENTHOUSE - UPPER LEVEL

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BG&H

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08 Feb 2023

Lilly

HVAC - B4 - PENTHOUSE - UPPER LEVEL

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CONCORD, NC 28027

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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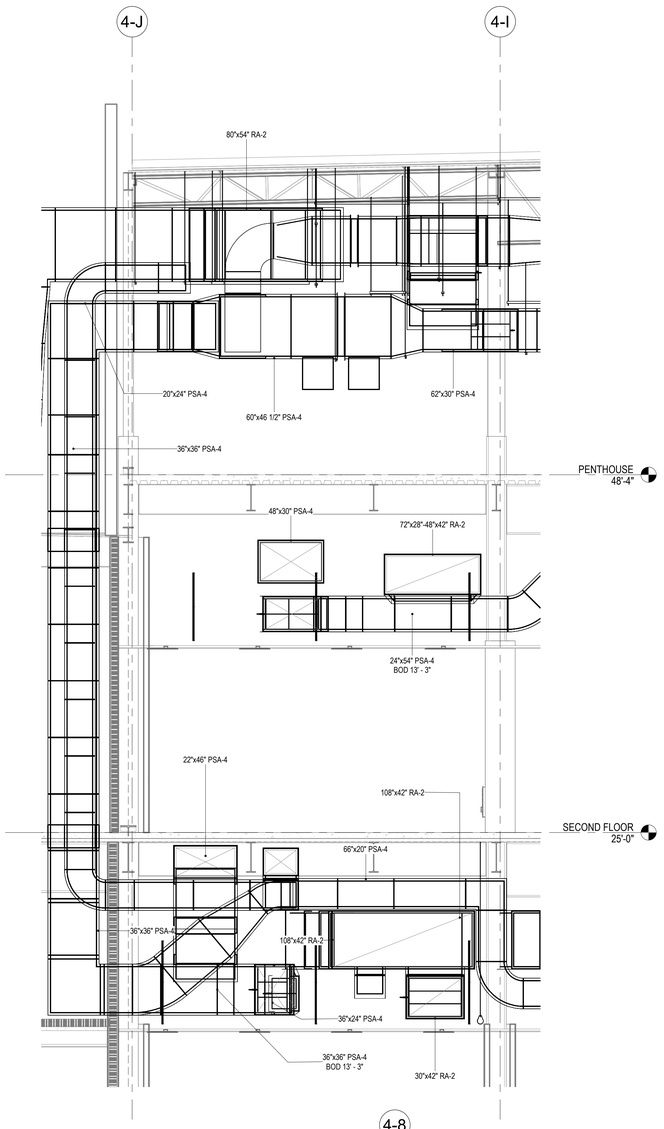
SYSTEM TYPE		EDIFICE/BUILDING CONC004	LEVEL/FLOOR PENTHOUSE
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-300-6070
CRITICAL QUALITY NO		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/8" = 1'-0"
CRITICAL BUSINESS YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE NO		VENDOR	DOCUMENT ID	CONC004-MH-00000132
NON-CRITICAL NO		ENGINEERING AGENCY DOC ID		

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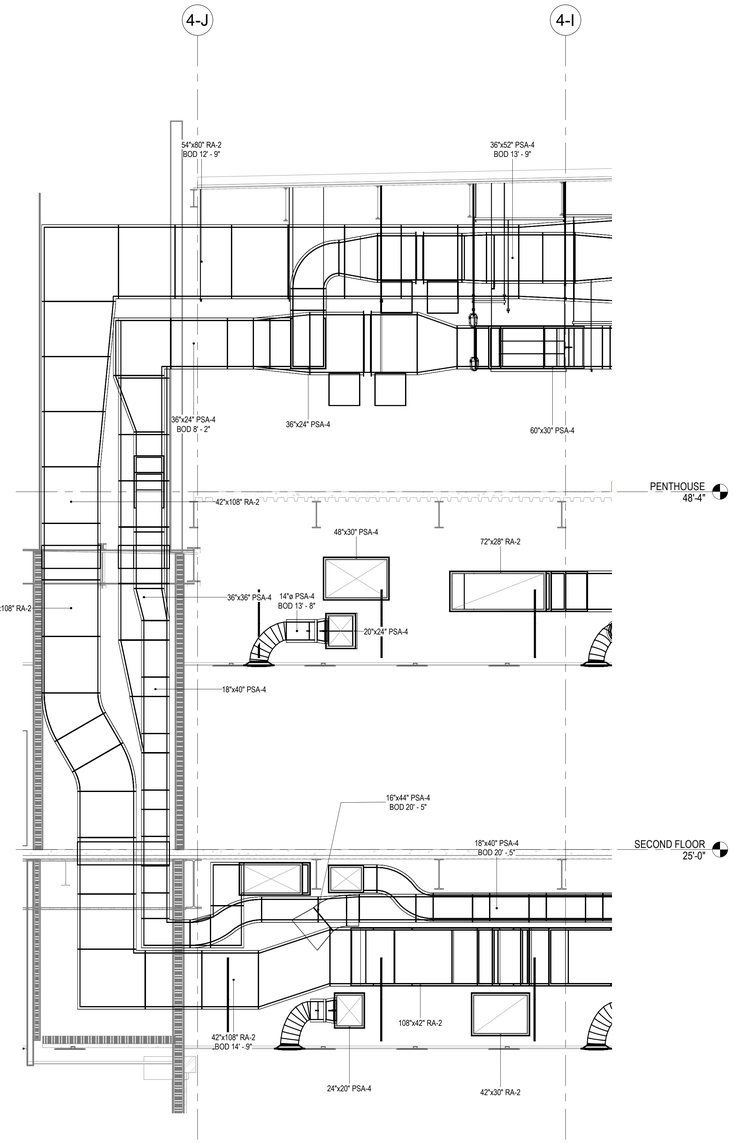
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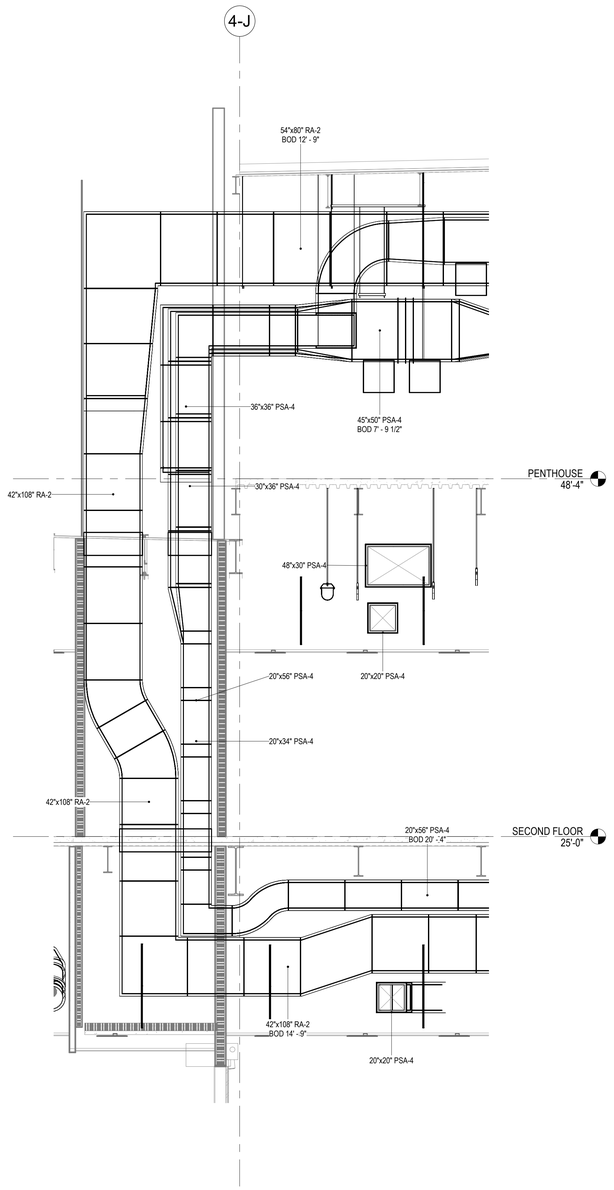
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1 **DUCT CHASE 1**
SCALE: 1/4" = 1'-0"

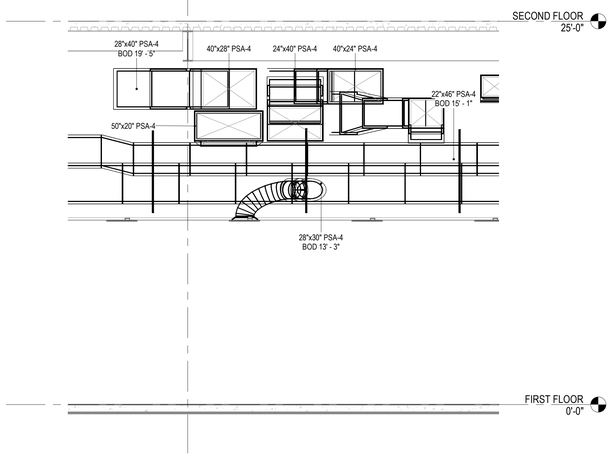


2 **DUCT CHASE 2**
SCALE: 1/4" = 1'-0"



4 **DUCT CHASE 4**
SCALE: 1/4" = 1'-0"

4-8



3 **DUCT CHASE 3**
SCALE: 1/4" = 1'-0"

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0		ISSUED FOR CONSTRUCTION		08-FEB-2023

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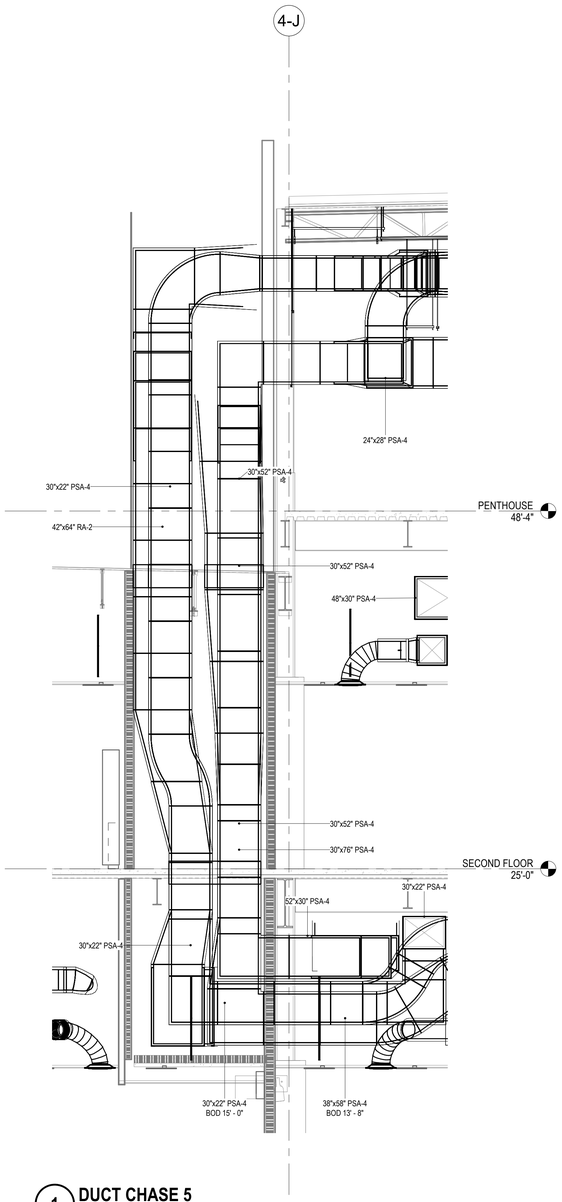
HVAC - B4 - HVAC SECTION VIEWS

SYSTEM TYPE		EDIFICE/BUILDING CONC004	LEVEL/FLOOR -
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-300-6070
CRITICAL QUALITY NO		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE NO		VENDOR	DOCUMENT ID CONC004-MH-00000300	
NON-CRITICAL NO		ENGINEERING AGENCY DOC ID		

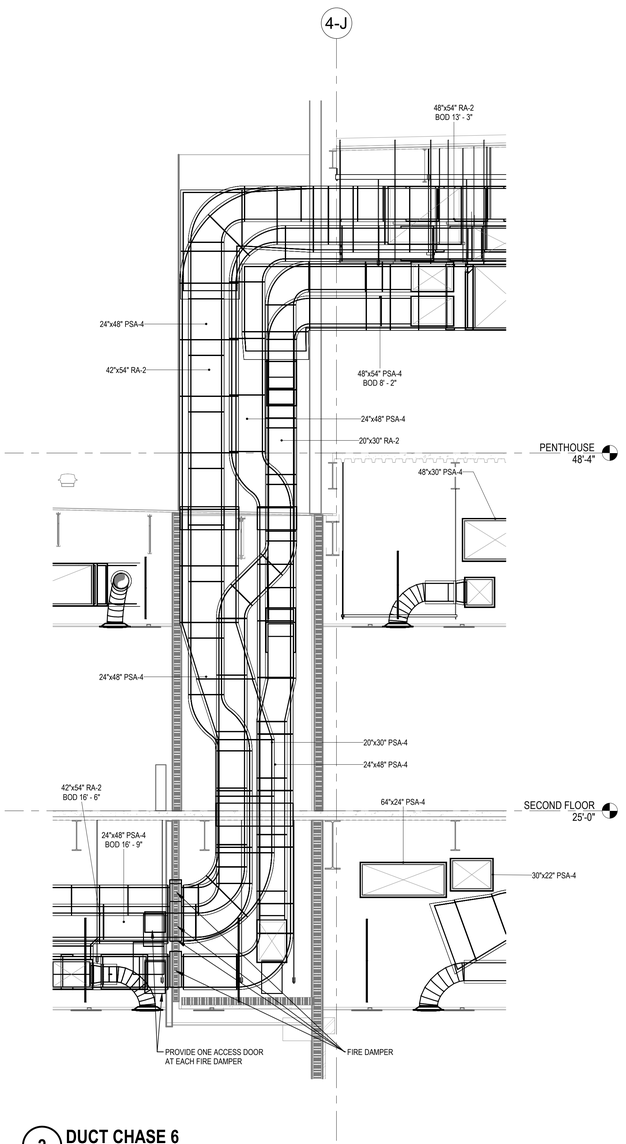
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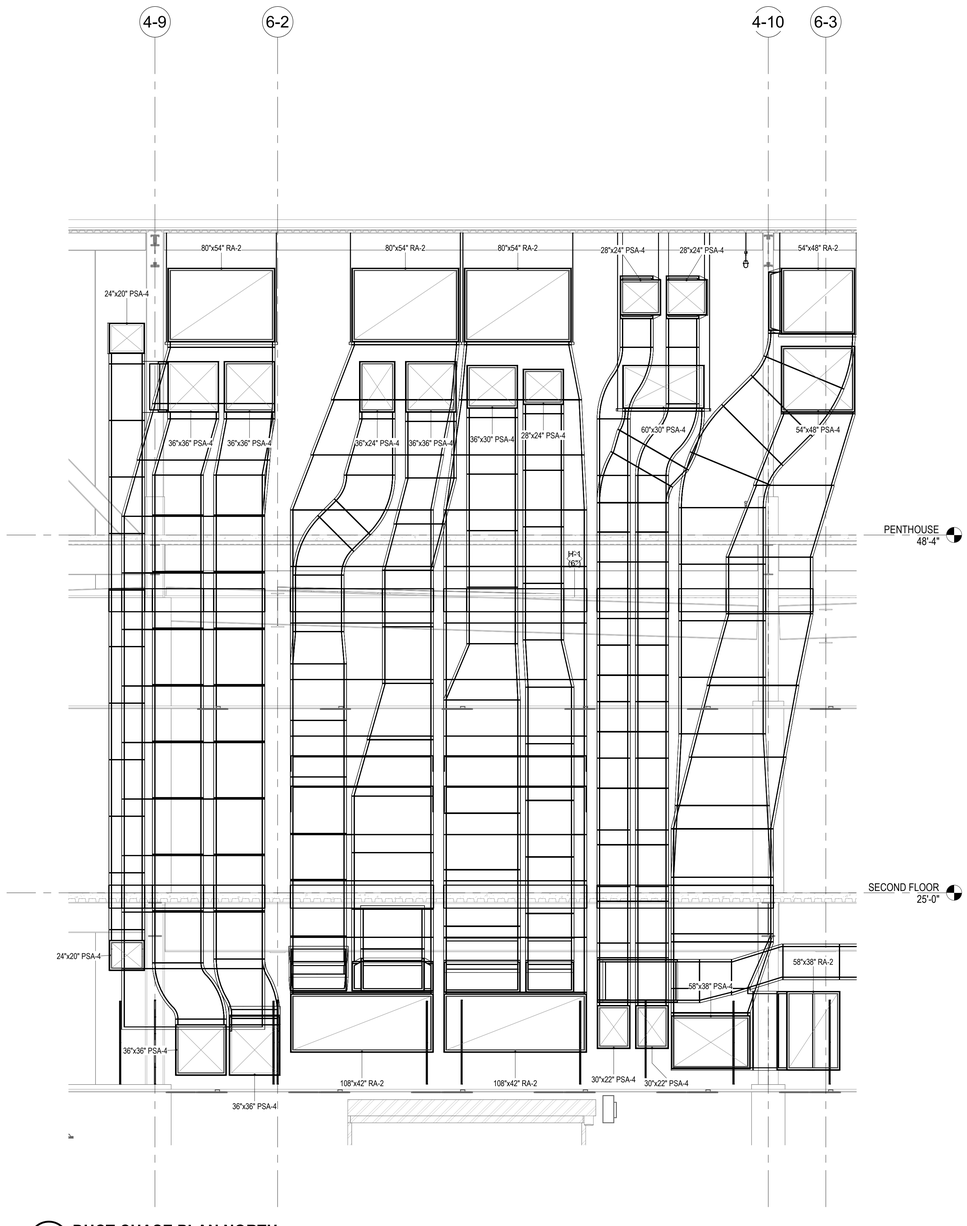
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1 **DUCT CHASE 5**
SCALE: 1/4" = 1'-0"



2 **DUCT CHASE 6**
SCALE: 1/4" = 1'-0"



3 **DUCT CHASE PLAN NORTH**
SCALE: 1/4" = 1'-0"

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0		ISSUED FOR CONSTRUCTION		08-FEB-2023

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08 Feb 2023

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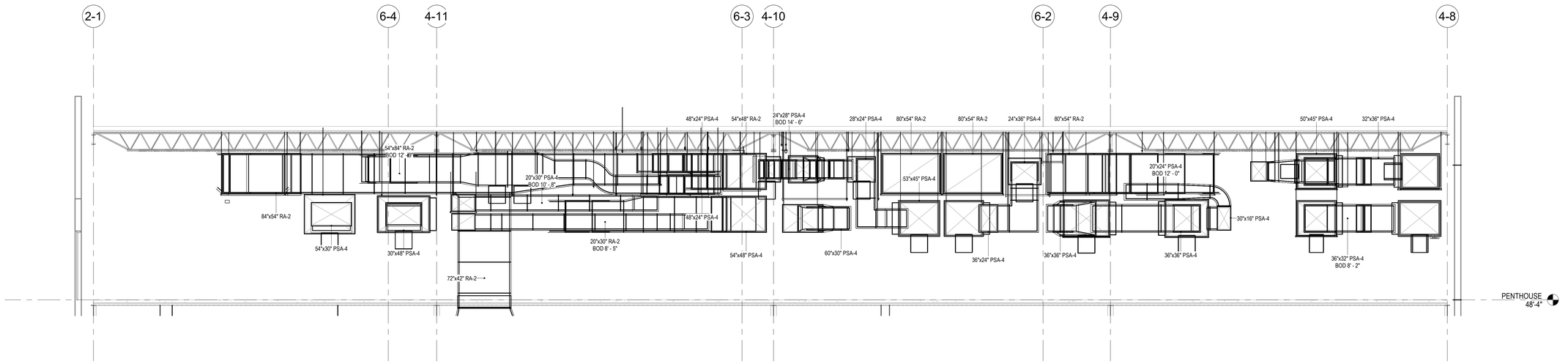
HVAC - B4 - HVAC SECTION VIEWS

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: -
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000301	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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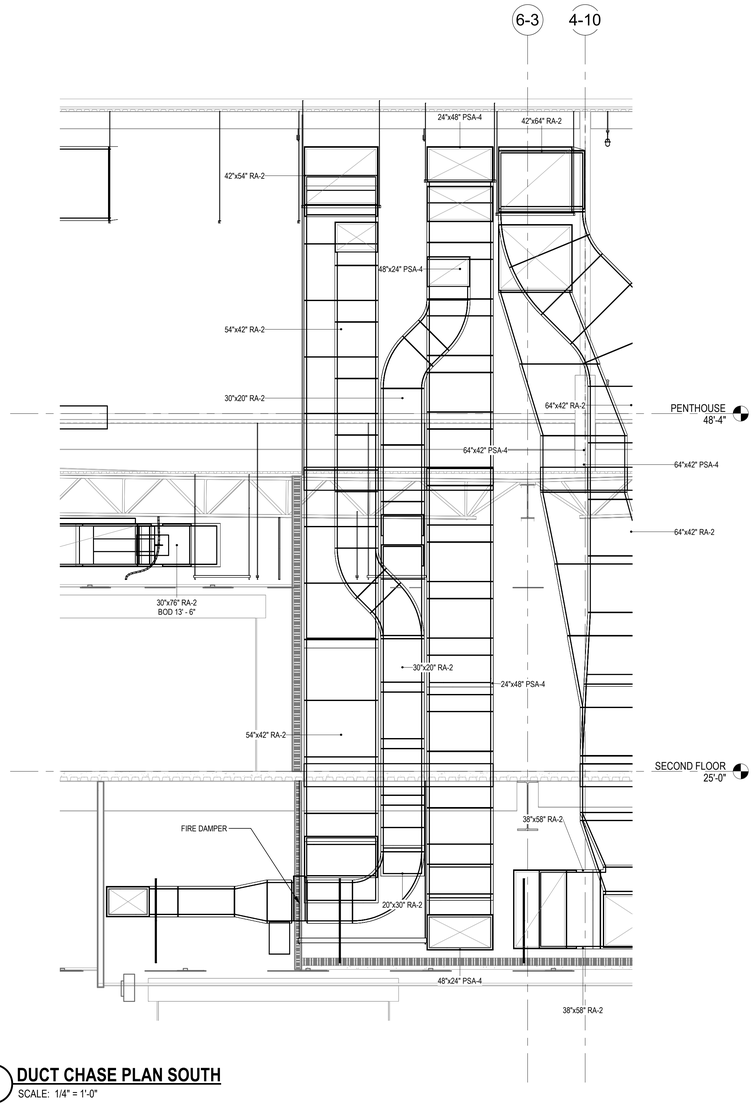
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1 PENTHOUSE REHEAT COILS

SCALE: 3/16" = 1'-0"



2 DUCT CHASE PLAN SOUTH

SCALE: 1/4" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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HVAC - B4 - HVAC SECTION VIEWS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0		ISSUED FOR CONSTRUCTION		08-FEB-2023

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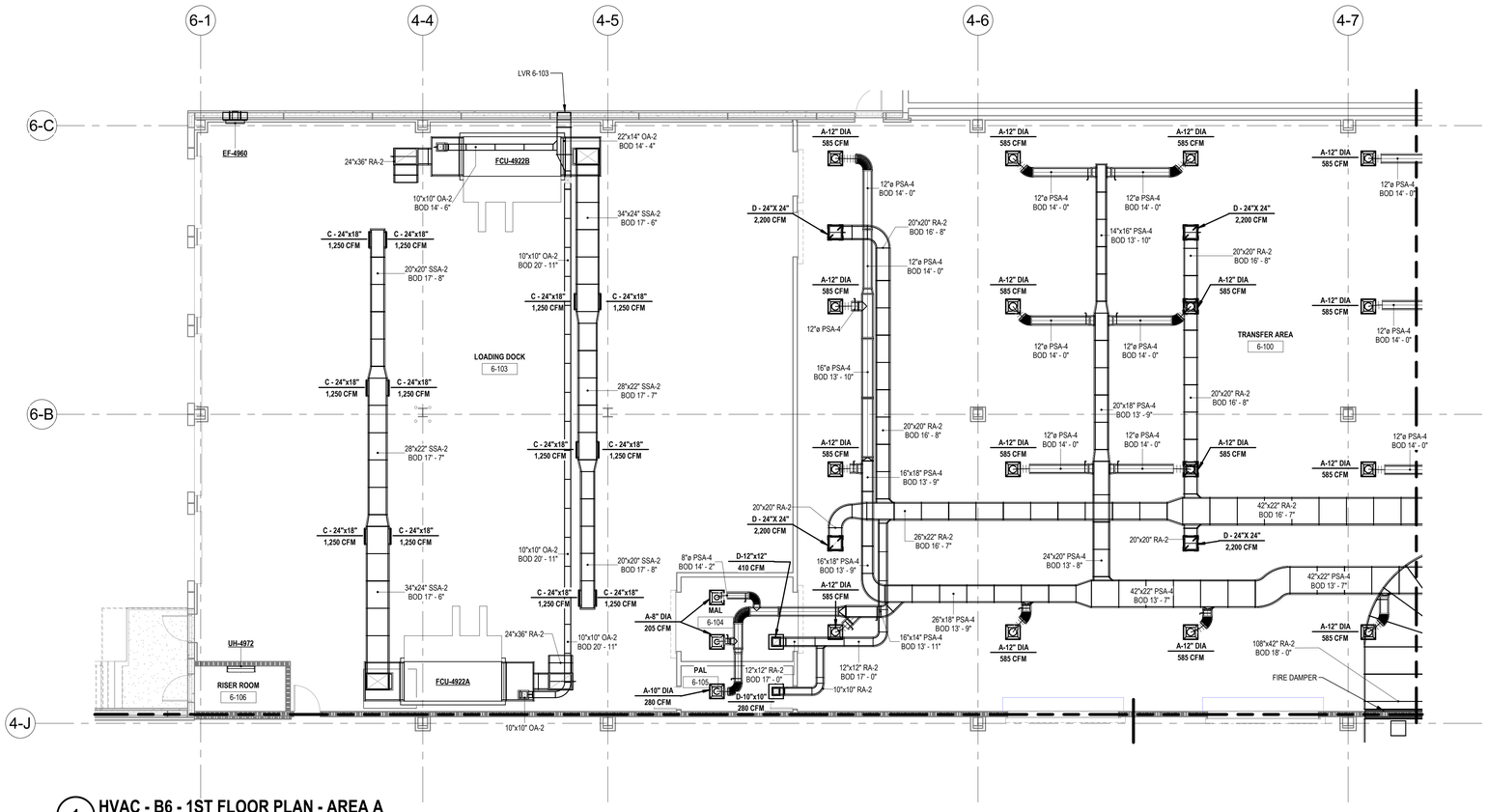
SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: -
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MH-00000302
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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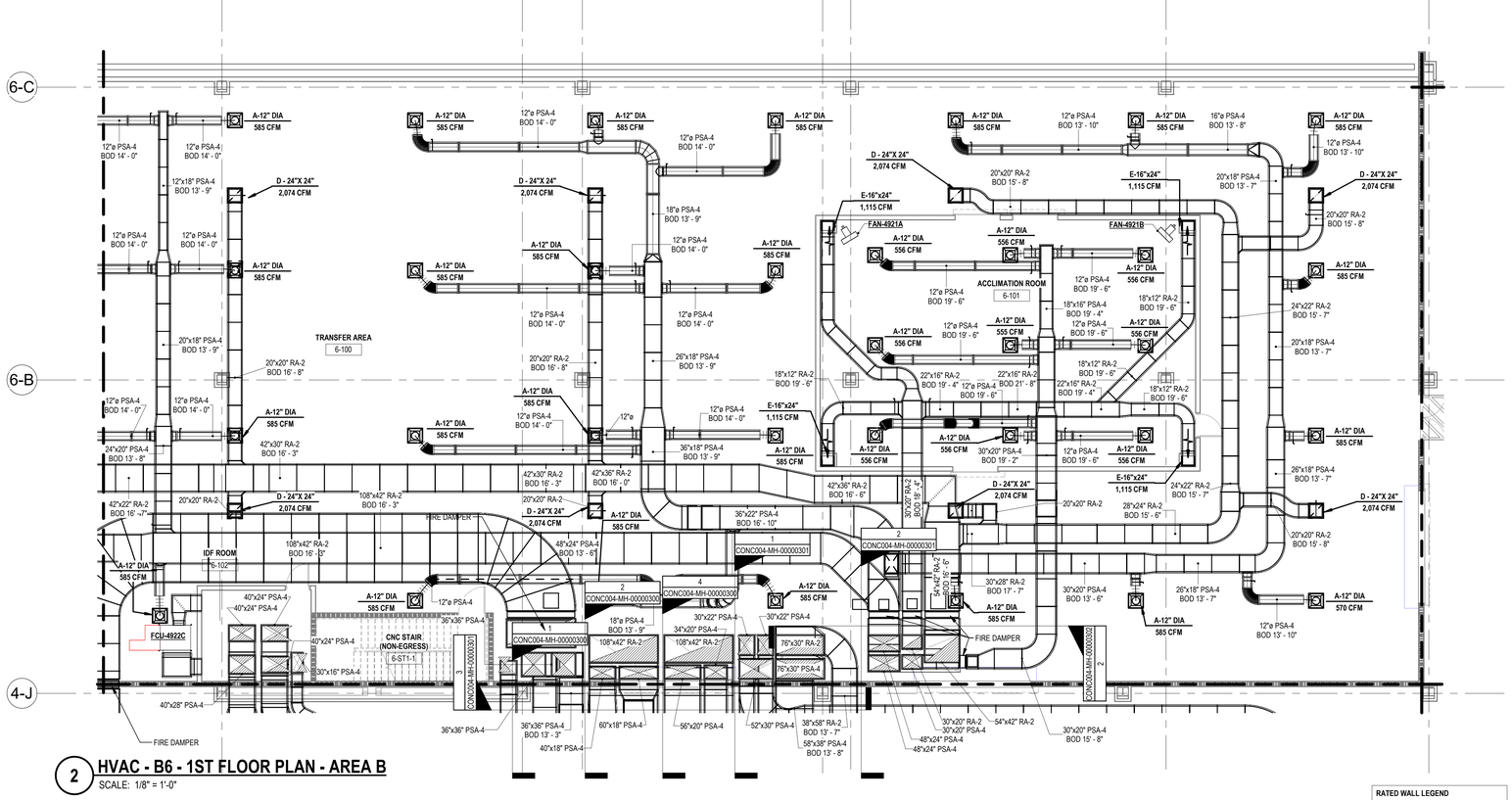
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1 HVAC - B6 - 1ST FLOOR PLAN - AREA A

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



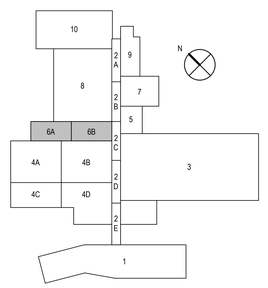
2 HVAC - B6 - 1ST FLOOR PLAN - AREA B

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



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KIRLIN WAY

HIPP DESIGN + CONSULTING

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040718 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B6 - 1ST FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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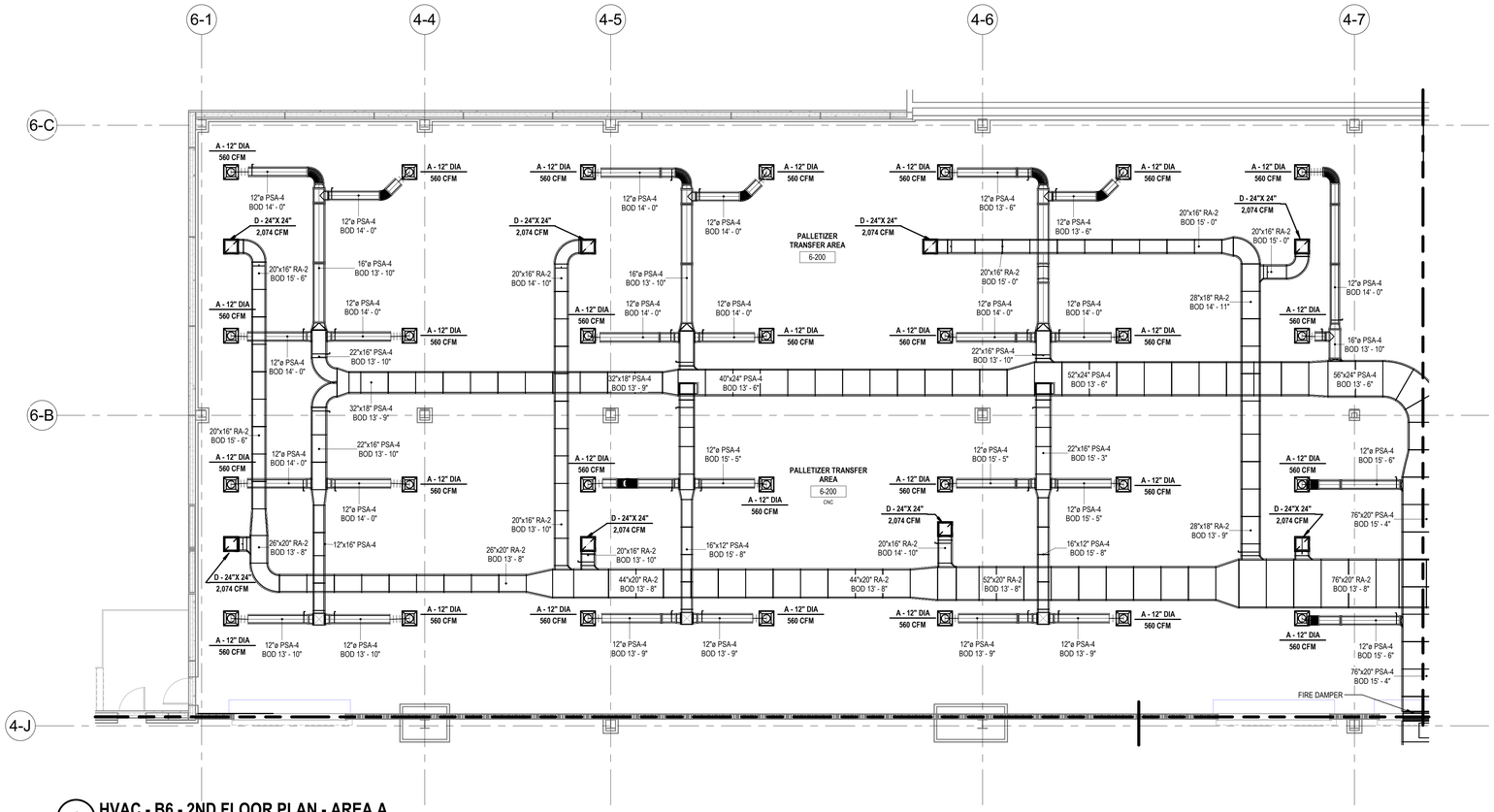
SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC006	1ST FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE
MH	CONC	N/A	YELLOW
CRITICAL QUALITY		ENTERPRISE GROUP	PROJECT NAME
NO		CDAP	CONC-300-5983
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	DRAWING INTENTION
YES			1/8" = 1'-0"
CRITICAL HSE		VENDOR	ALTERNATE DOCUMENT ID / MERIDIAN REV
NO			
NON-CRITICAL		ENGINEERING AGENCY DOC ID	DOCUMENT ID
NO			CONC006-MH-00000110

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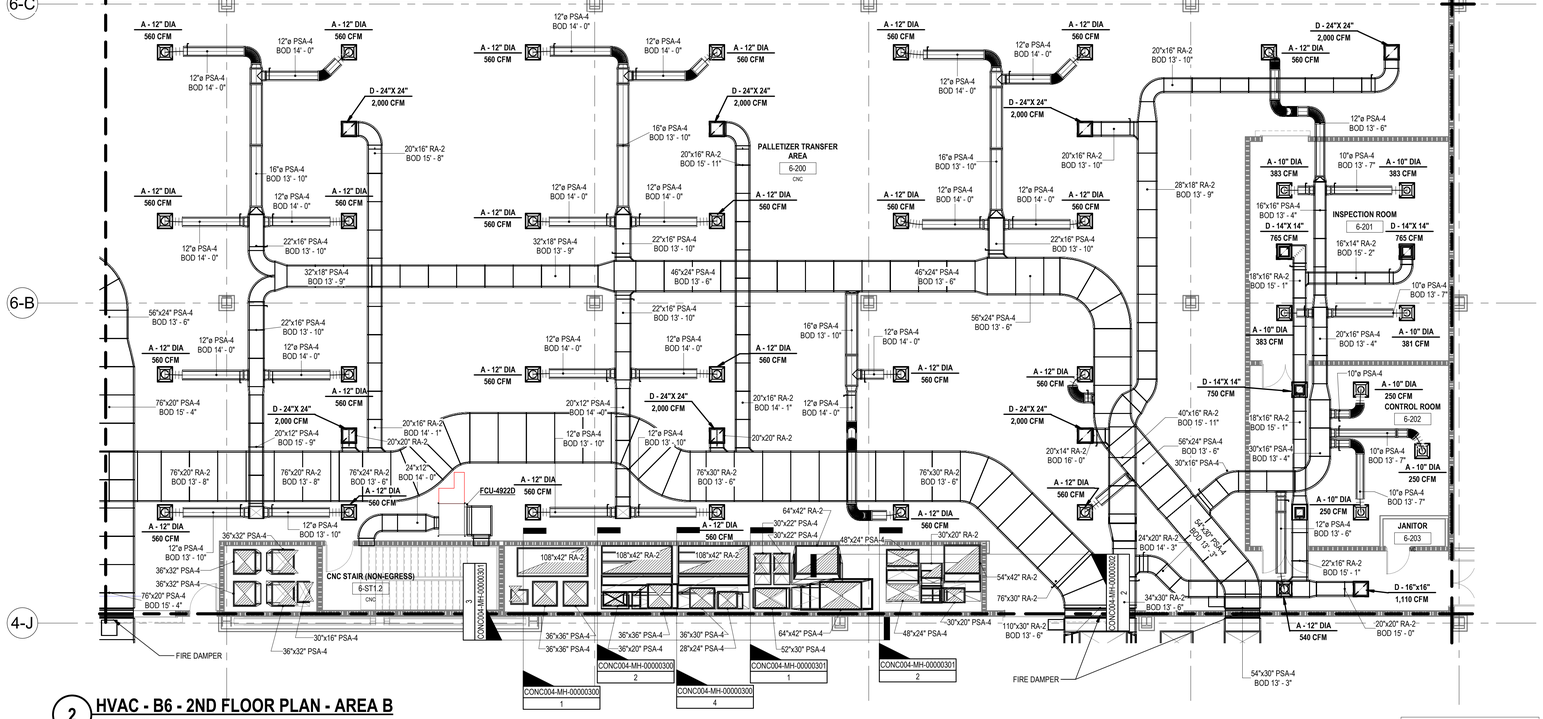
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1 HVAC - B6 - 2ND FLOOR PLAN - AREA A

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



2 HVAC - B6 - 2ND FLOOR PLAN - AREA B

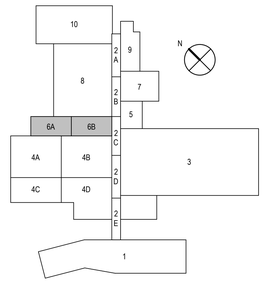
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

KEY PLAN



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KIRLIN WAY

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08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC - B6 - 2ND FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC006	2ND FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE
MH	CONC	N/A	YELLOW
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION
NO		CDAP	
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
YES			
CRITICAL HSE		VENDOR	DOCUMENT ID
NO			CONC006-MH-00000120
NON-CRITICAL		ENGINEERING AGENCY DOC ID	
NO			

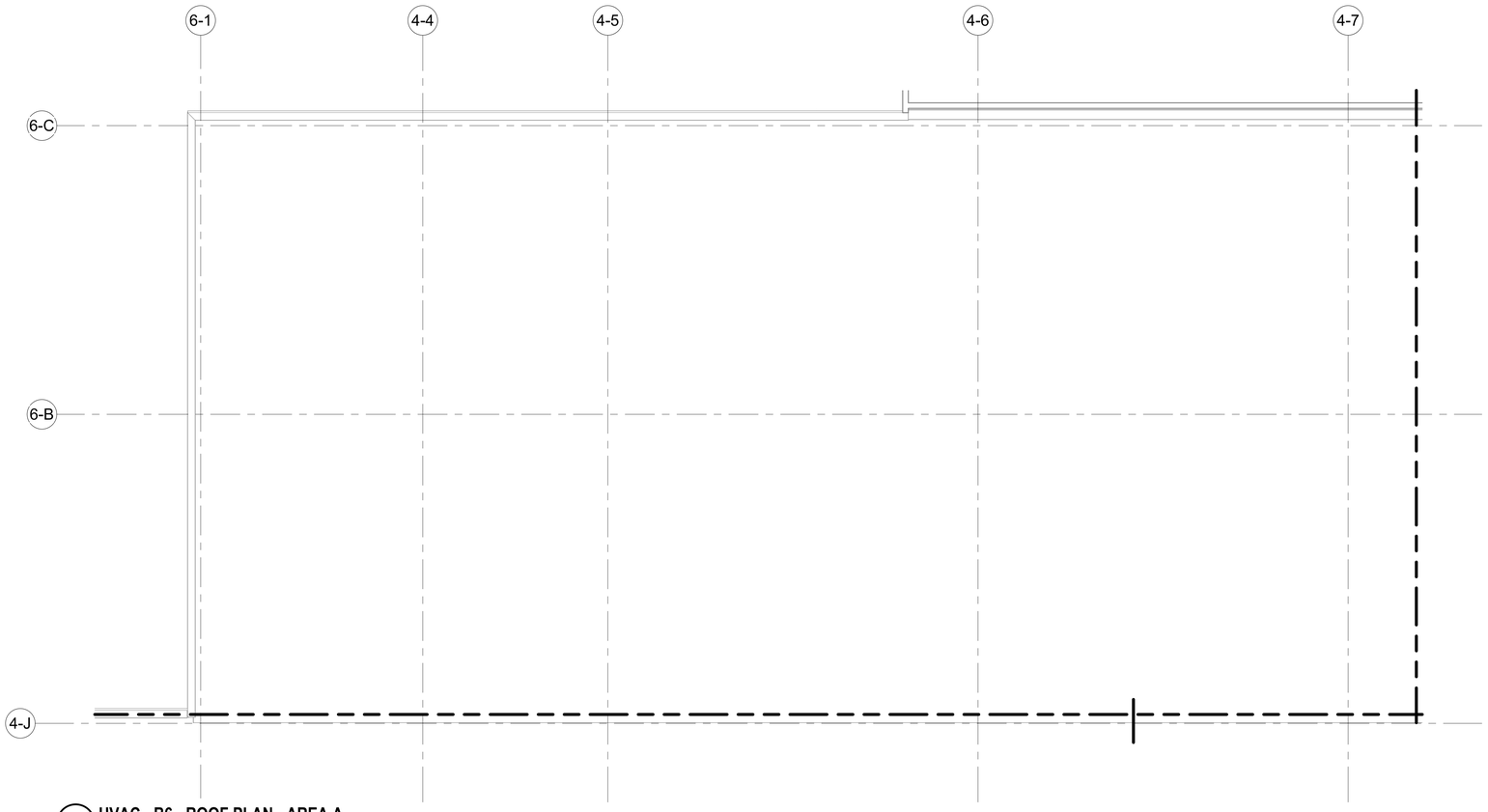
PROJECT NAME: CONC-300-5983

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

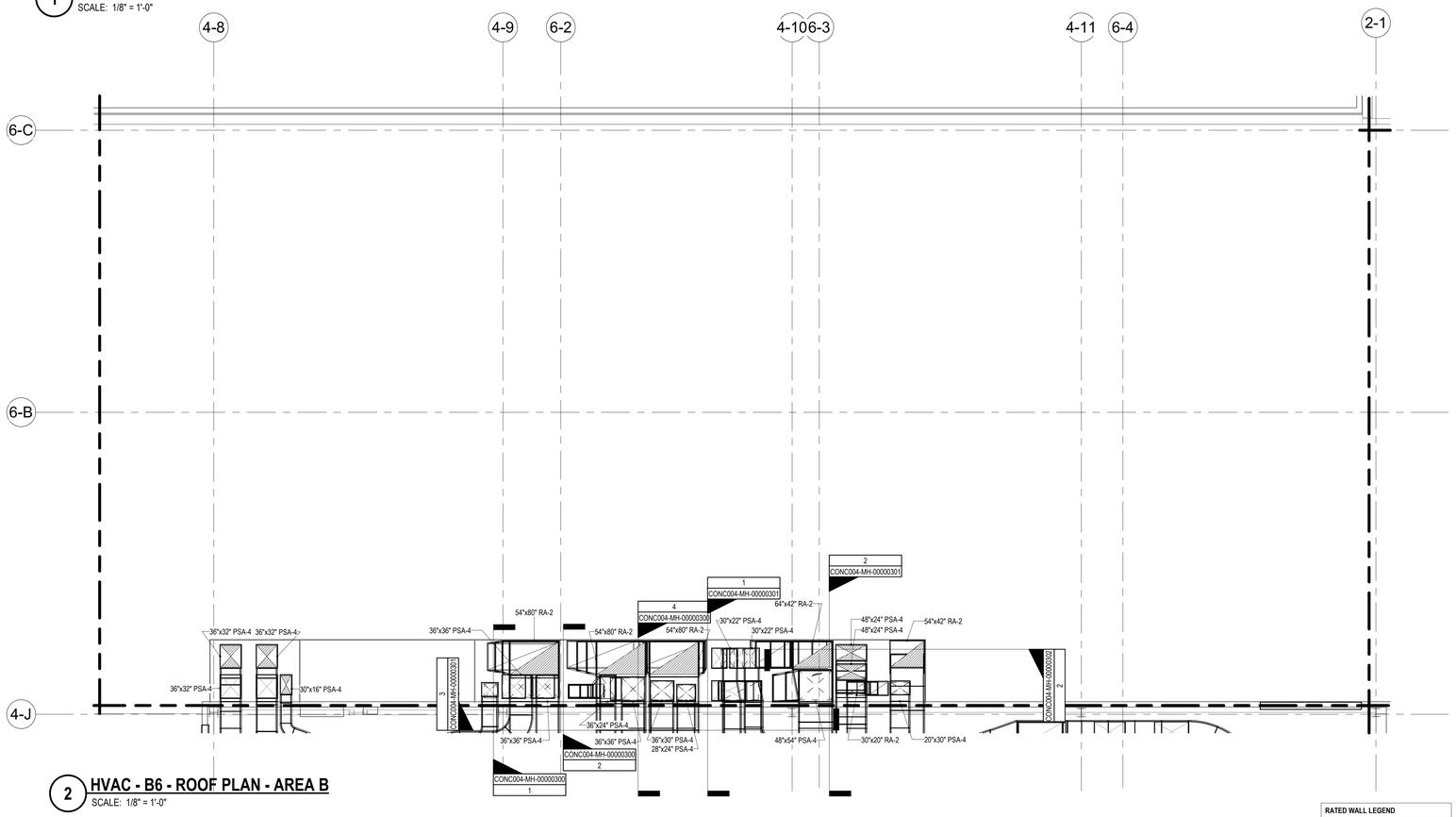
MERIDIAN REV

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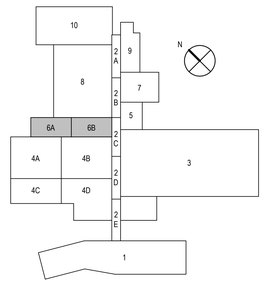
1 **HVAC - B6 - ROOF PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 **HVAC - B6 - ROOF PLAN - AREA B**
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

KEY PLAN



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08 Feb 2023

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CONCORD, NC 28027

HVAC - B6 - ROOF PLAN

REV	ZONE	DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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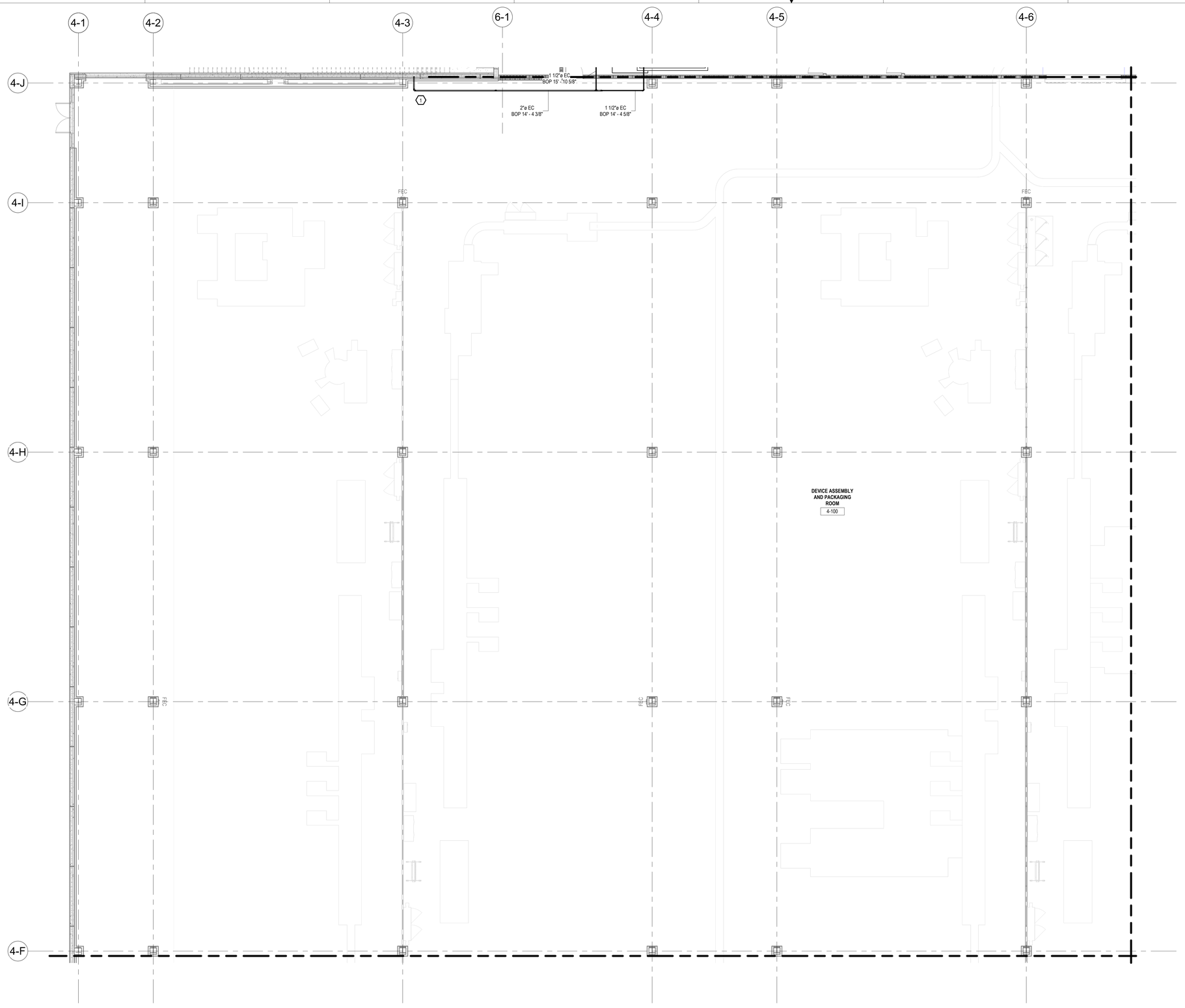
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SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MH-00000130
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

DRAWING SCALE: 1/8" = 1'-0"
PROJECT NAME: CONC-300-5983

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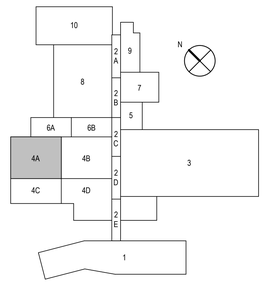
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KEY NOTES

1 CONTRACTOR TO COORDINATE WITH CDS (COLD DARK SHELL) CONTRACTOR TO FIELD ROUTE FAN COIL CONDENSATE DISCHARGE TO STORM DRAIN PIPING SYSTEM.

KEY PLAN



1 PIPE - B4 - 1ST FLOOR PLAN - AREA A

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

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NEILL
08 Feb 2023

1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B4 - 1ST FLOOR PLAN - AREA A

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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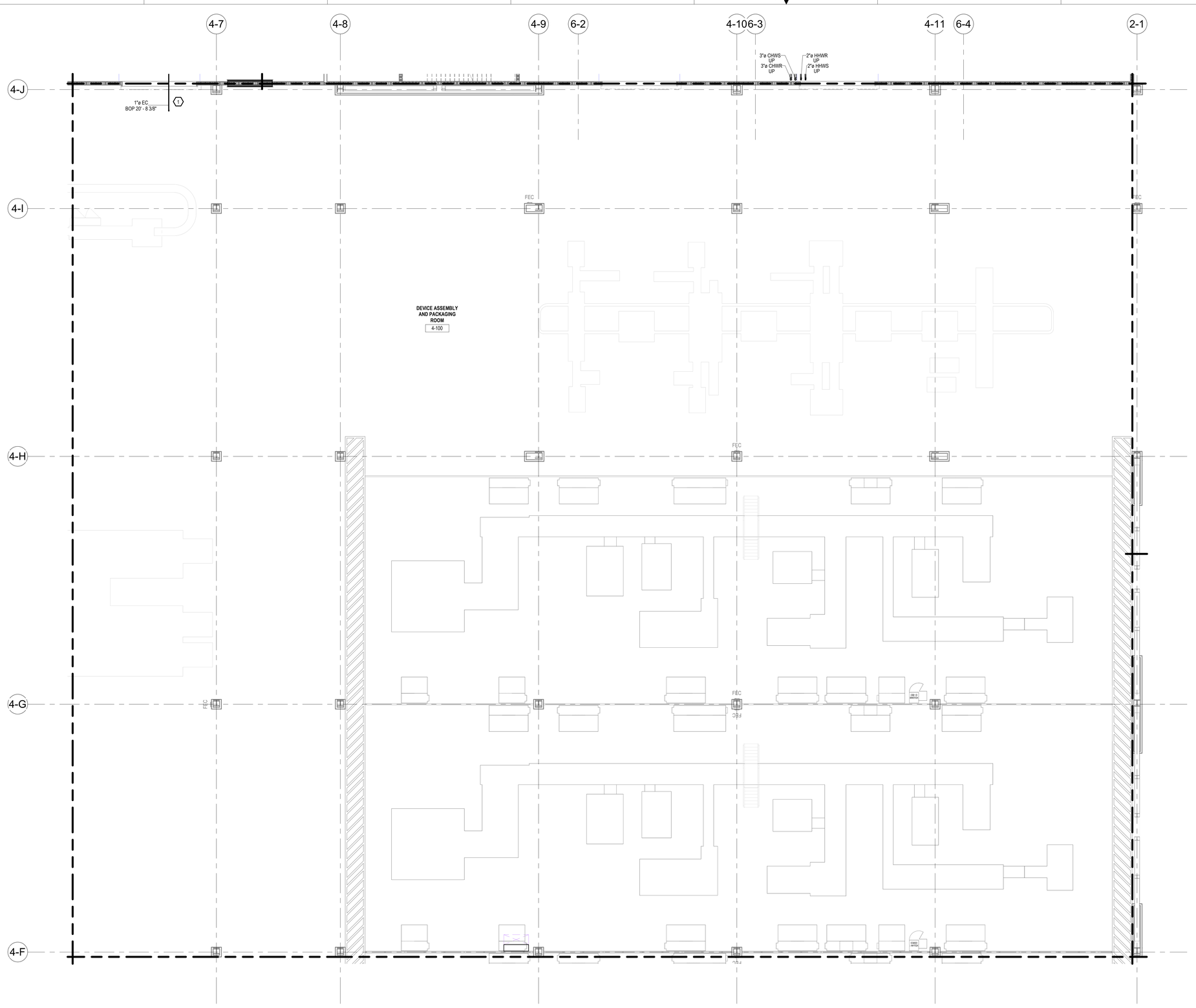
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000111	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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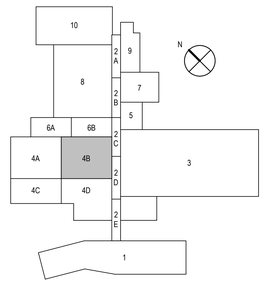
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KEY NOTES

1 CONTRACTOR TO COORDINATE WITH CDS (COLD DARK SHELL) CONTRACTOR TO FIELD ROUTE FAN COIL CONDENSATE DISCHARGE TO STORM DRAIN PIPING SYSTEM.

KEY PLAN



1 PIPE - B4 - 1ST FLOOR PLAN - AREA B

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

RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

BE&K

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08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B4 - 1ST FLOOR PLAN - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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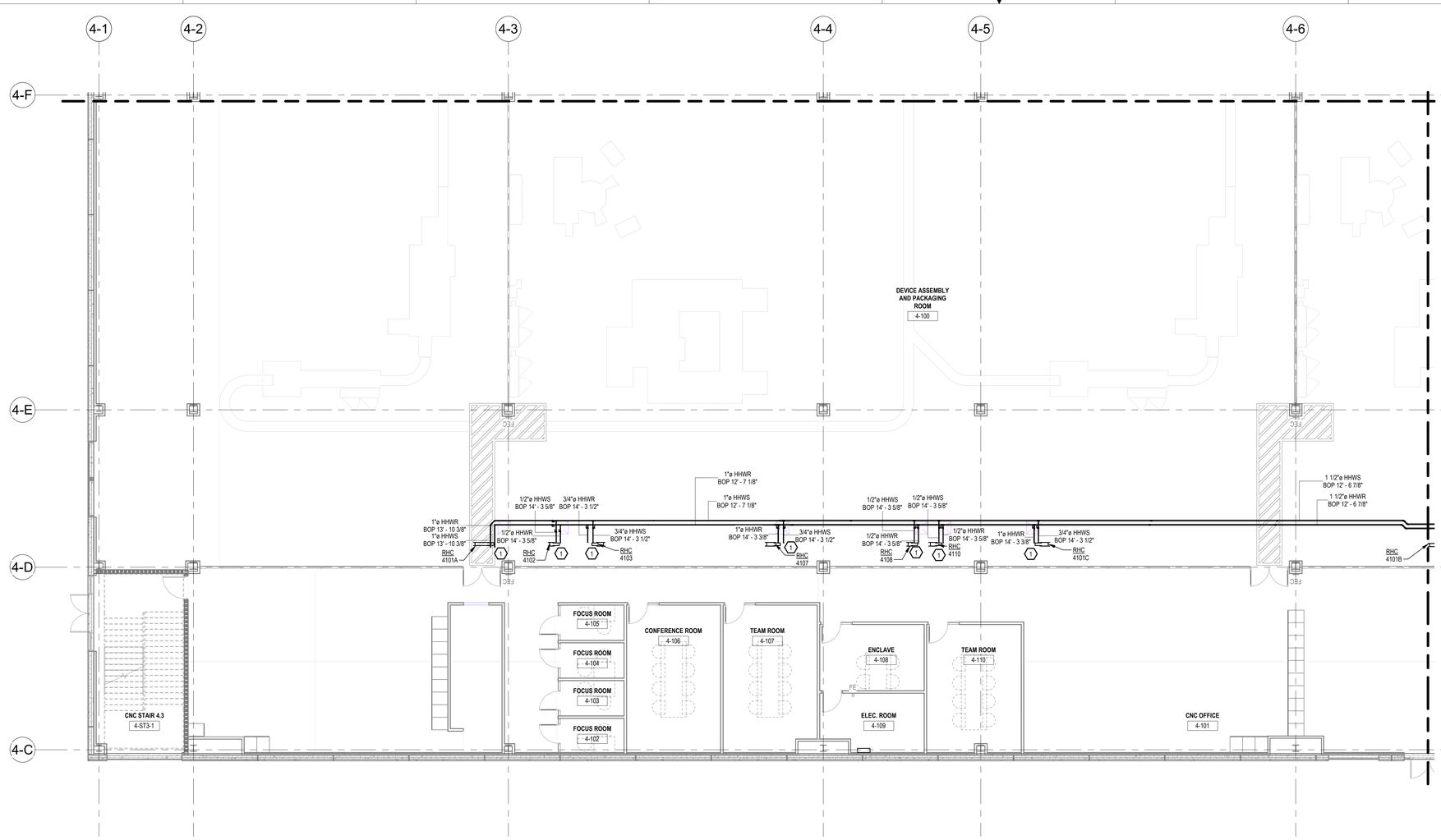
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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC004	1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MP-00000112	

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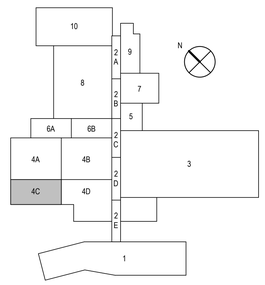
KEY NOTES

1 CONTRACTOR TO COORDINATE FINAL CONNECTION TO COIL/EQUIPMENT IN THE FIELD.

1 PIPE - B4 - 1ST FLOOR PLAN - AREA C

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

KEY PLAN



RATED WALL LEGEND

1-HOUR RATED

2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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08 Feb 2023

Lilly

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CONCORD, NC 28027

PIPE - B4 - 1ST FLOOR PLAN - AREA C

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CEI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000113	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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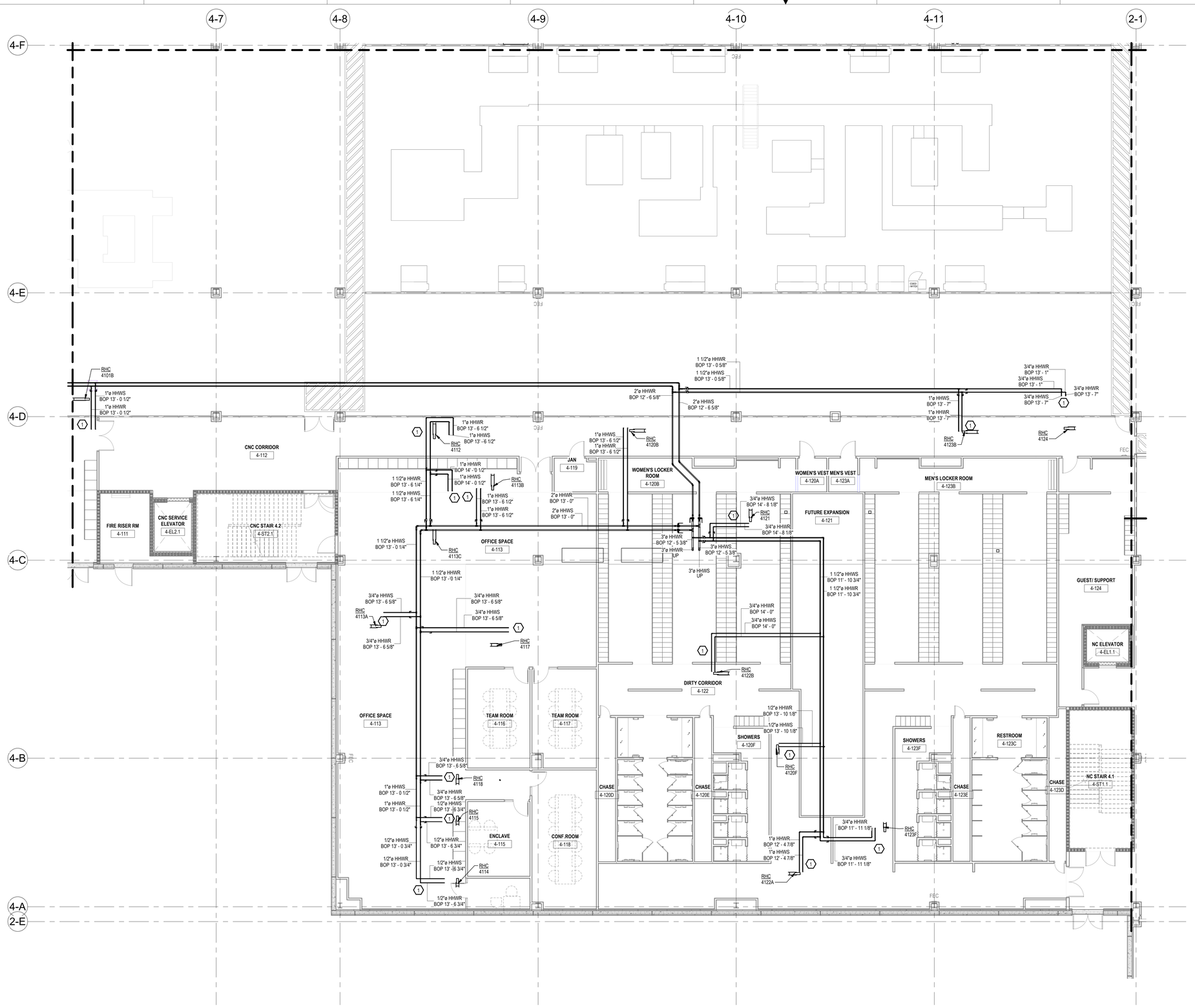
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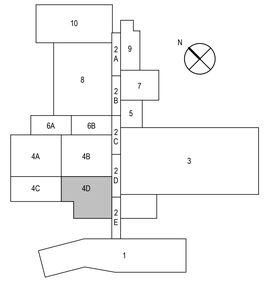
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KEY NOTES

1 CONTRACTOR TO COORDINATE FINAL CONNECTION TO COIL/EQUIPMENT IN THE FIELD.



KEY PLAN



1 PIPE - B4 - 1ST FLOOR PLAN - AREA D

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

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08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B4 - 1ST FLOOR PLAN - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
/1		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

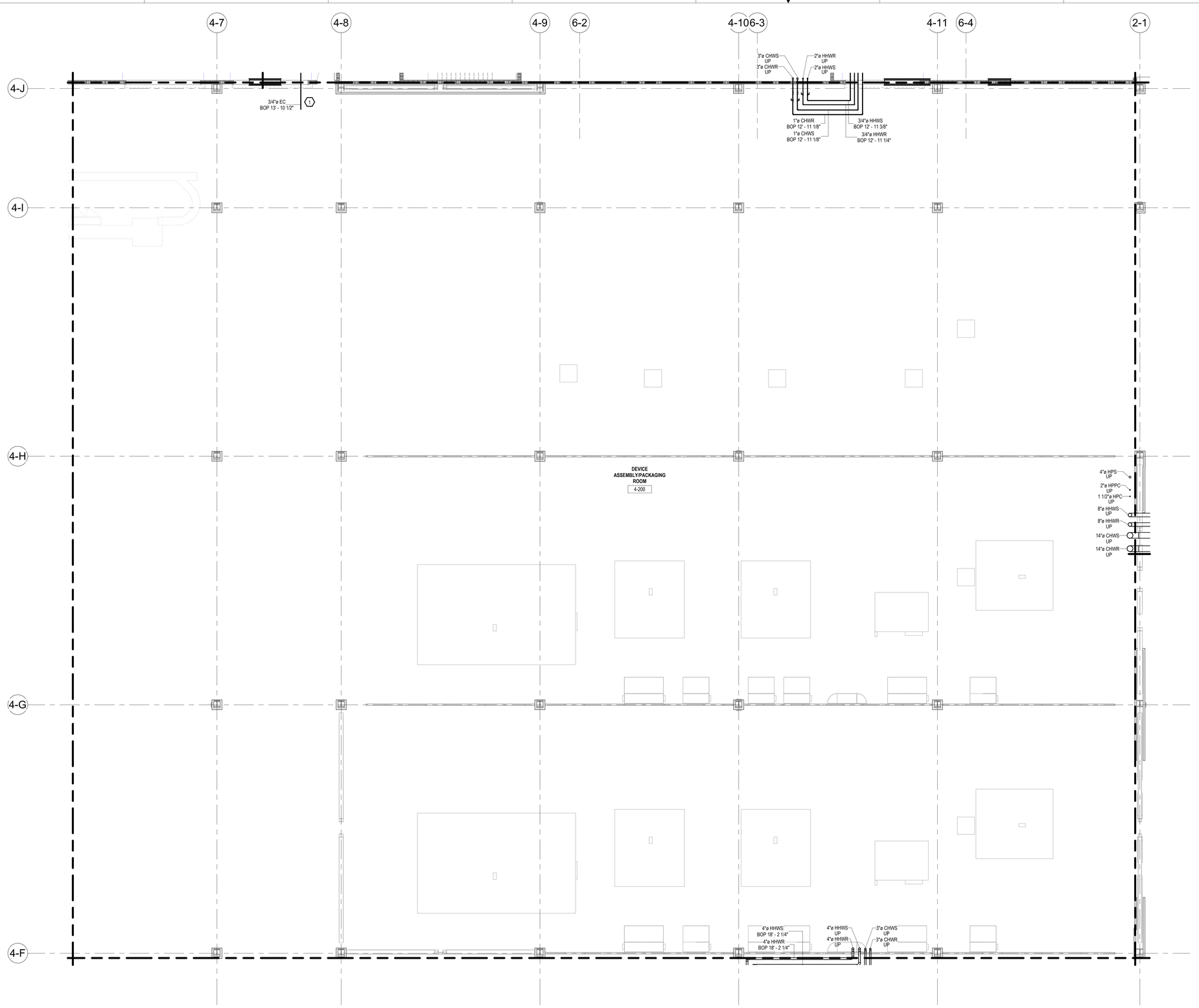
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000114
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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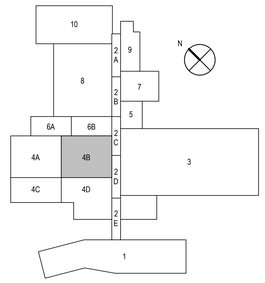
Autodesk Docs://Eli Lilly - Concord Facility/Lilly/CON_246_CDOC_HPP_v22.rvt



KEY NOTES

1 CONTRACTOR TO COORDINATE WITH CDS (COLD DARK SHELL) CONTRACTOR TO FIELD ROUTE FAN COIL CONDENSATE DISCHARGE TO STORM DRAIN PIPING SYSTEM.

KEY PLAN



1 PIPE - B4 - 2ND FLOOR PLAN - AREA B

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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RALEIGH, NC 27607
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NC FIRM LICENSE #: C-1144
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B4 - 2ND FLOOR PLAN - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CEI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000122	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

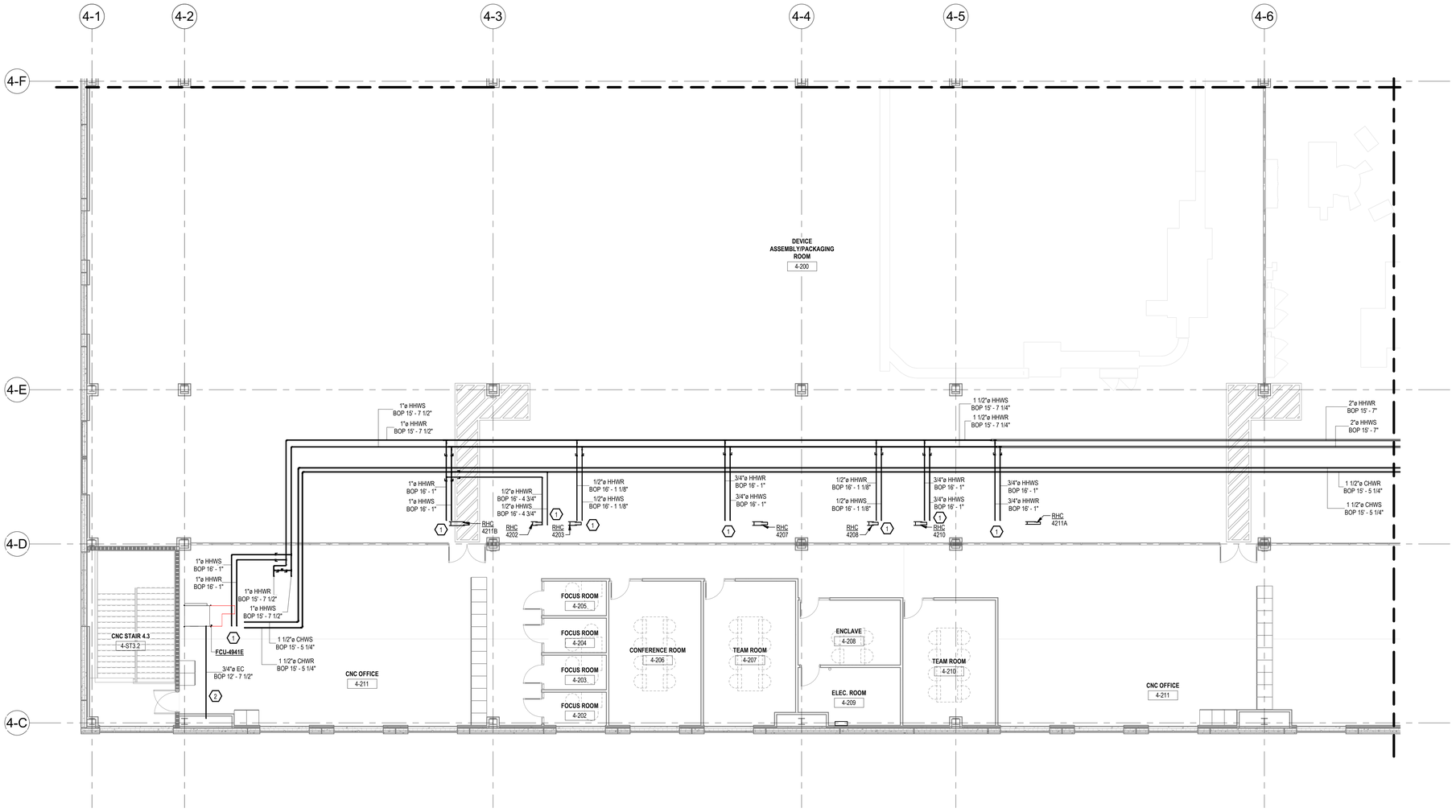
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Autodesk Docs://Eli Lilly – Concord Facility/Lilly/CON_246_CDOC_HIPP_v22.rvt

KEY NOTES

1. CONTRACTOR TO COORDINATE FINAL CONNECTION TO COIL/EQUIPMENT IN THE FIELD.
2. CONTRACTOR TO COORDINATE WITH CDS (COLD DARK SHELL) CONTRACTOR TO FIELD ROUTE FAN COIL CONDENSATE DISCHARGE TO STORM DRAIN PIPING SYSTEM.



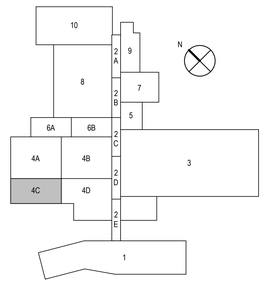
1 PIPE - B4 - 2ND FLOOR PLAN - AREA C

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY PLAN



BE&K

KIRLIN WAY

HPP HIPP DESIGN + CONSULTING
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08 Feb 2023

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CONCORD, NC 28027

PIPE - B4 - 2ND FLOOR PLAN - AREA C

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

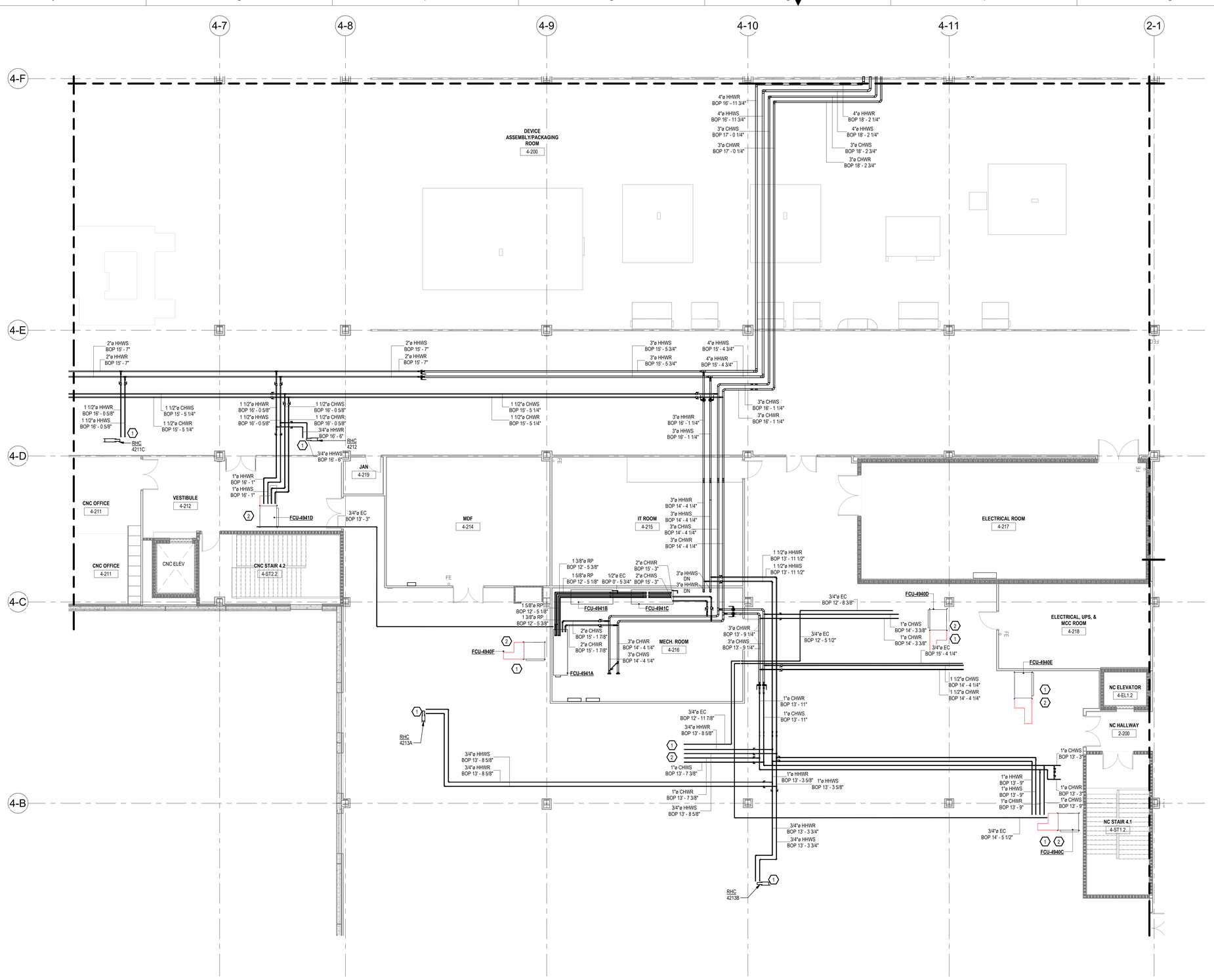
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CEI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000123	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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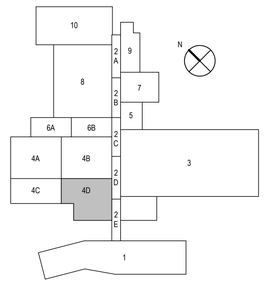
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KEY NOTES

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2. CONTRACTOR TO COORDINATE WITH CDS (COLD DARK SHELL) CONTRACTOR TO FIELD ROUTE FAN COIL CONDENSATE DISCHARGE TO STORM DRAIN PIPING SYSTEM.

KEY PLAN



1 PIPE - B4 - 2ND FLOOR PLAN - AREA D

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BE&K

KIRLIN WAY

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08 Feb 2023

Lilly

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CONCORD, NC 28027

PIPE - B4 - 2ND FLOOR PLAN - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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CONFIDENTIAL INFORMATION

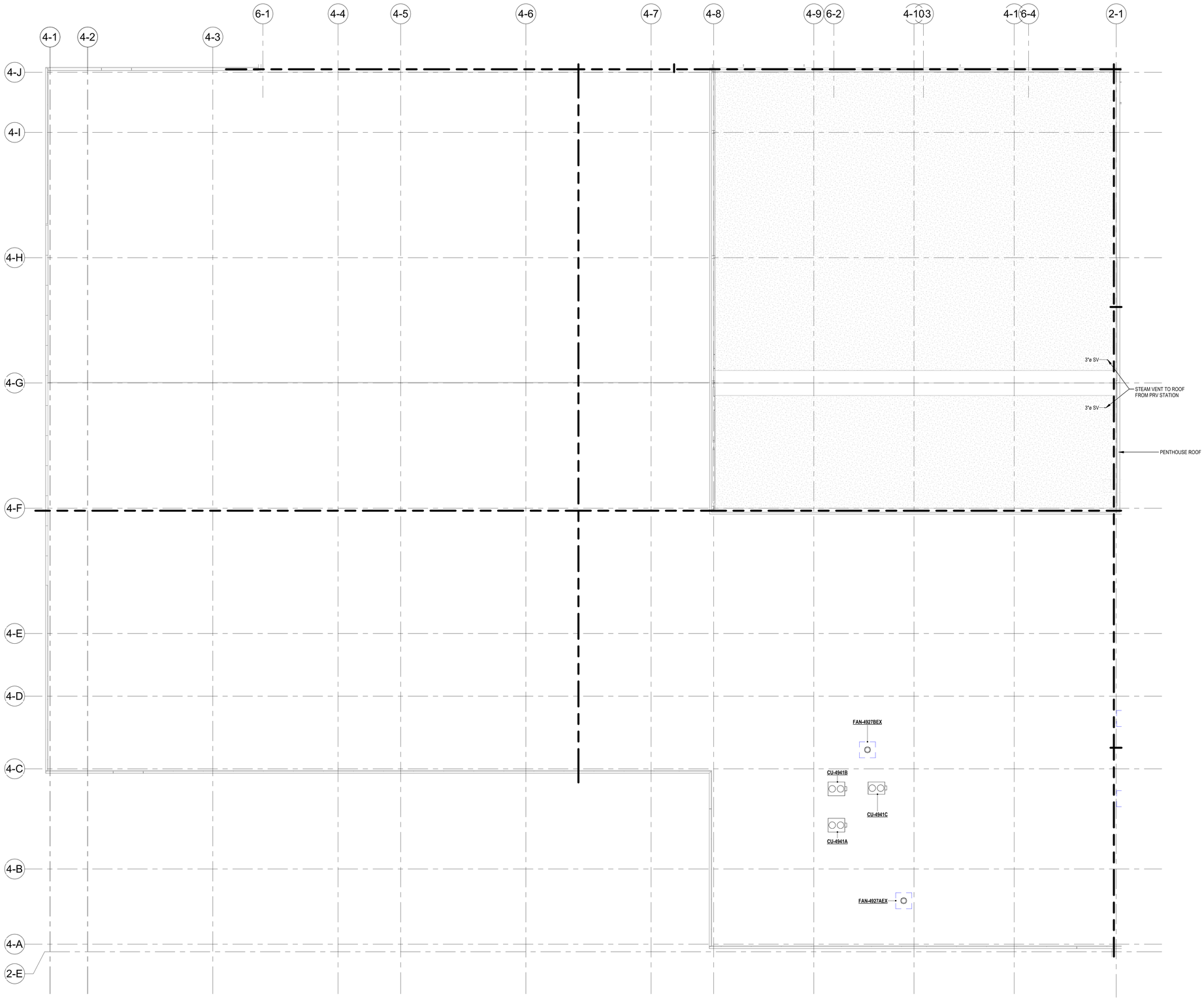
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000124	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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1 PIPE - B4 - ROOF PLAN

SCALE: 1/16" = 1'-0"

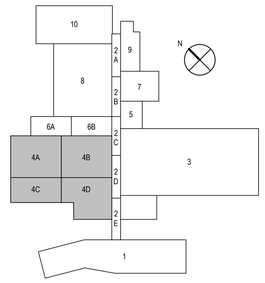
RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

GENERAL NOTES

1. REFER TO SHEET CONC004-MP-00000130 - PIPE - B4 - PENTHOUSE FOR ALL PIPING IN THE PENTHOUSE.

KEY PLAN



BE&K

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08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B4 - ROOF PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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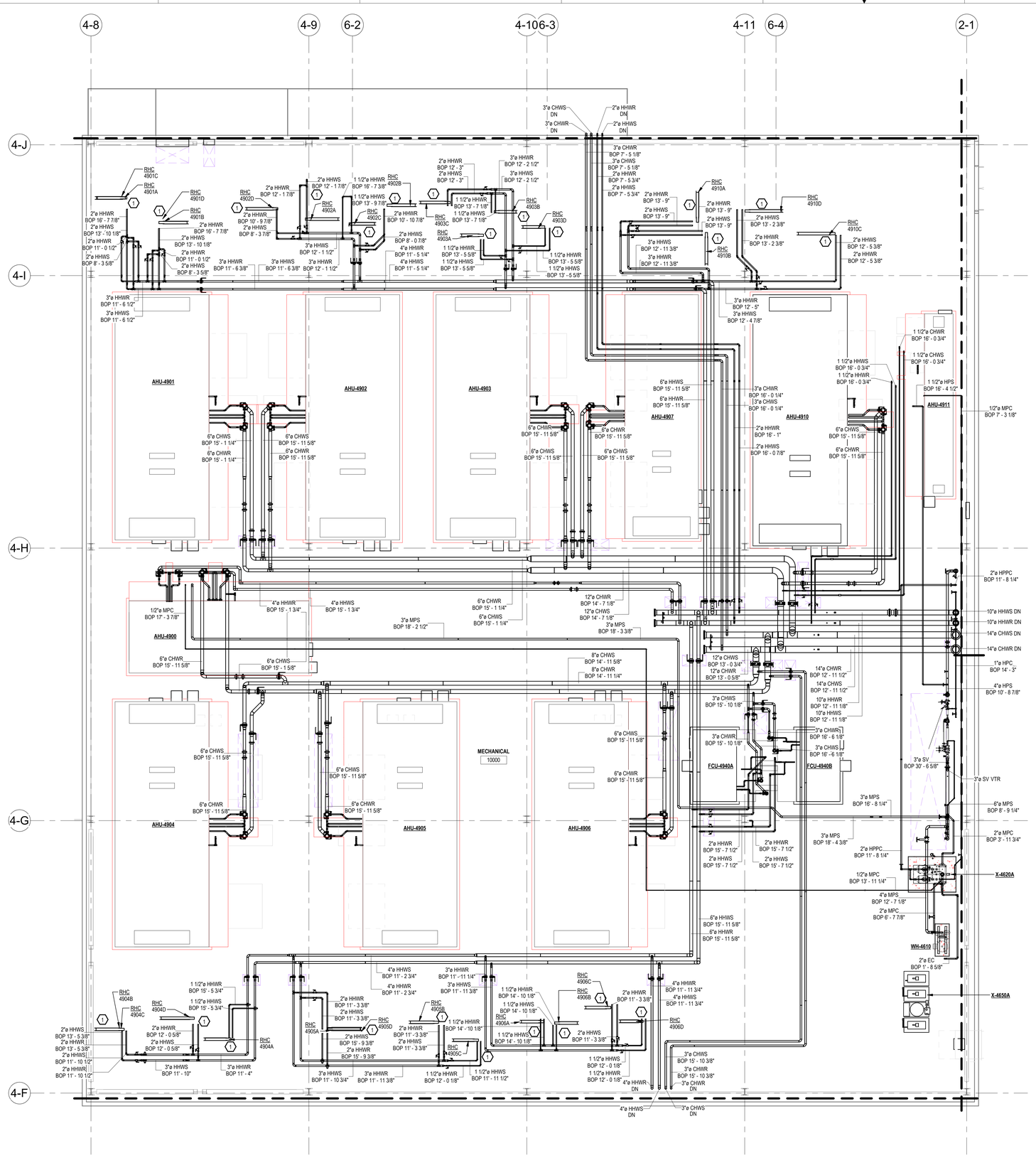
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: ROOF
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/16" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MP-00000130	

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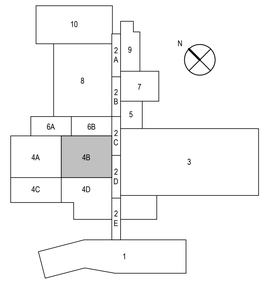
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KEY NOTES

1 CONTRACTOR TO COORDINATE FINAL CONNECTION TO COIL/EQUIPMENT IN THE FIELD.

KEY PLAN



1 PIPE - B4 - PENTHOUSE

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

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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08 Feb 2023

Lilly

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CONCORD, NC 28027

PIPE - B4 - PENTHOUSE

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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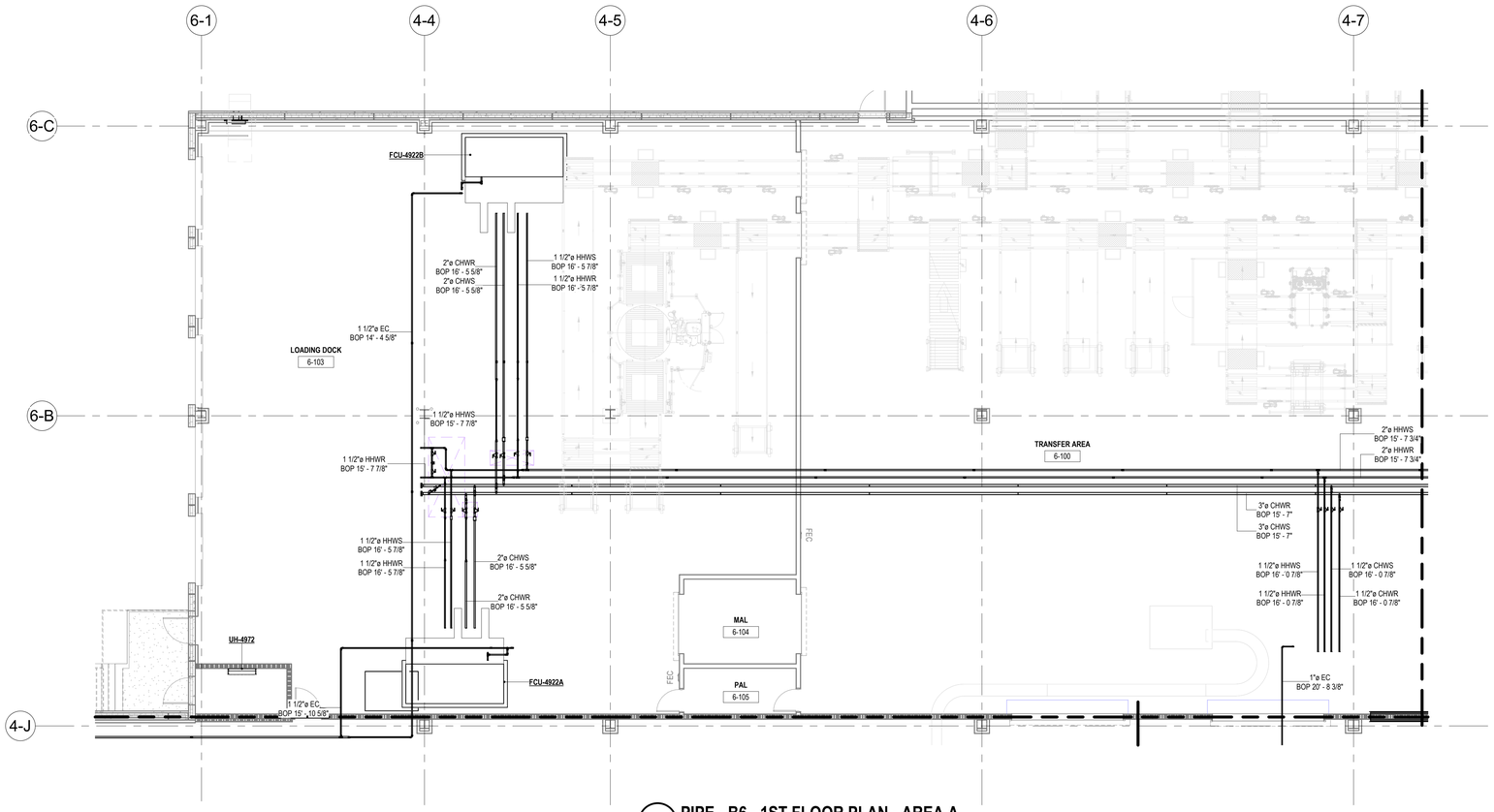
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SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	PROJECT NAME: CONC-300-6070
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	DRAWING INTENTION
CRITICAL HSE: NO		VENDOR	DRAWING SCALE: 1/8" = 1'-0"
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	ALTERNATE DOCUMENT ID / MERIDIAN REV

DOCUMENT ID: CONC004-MP-00000131

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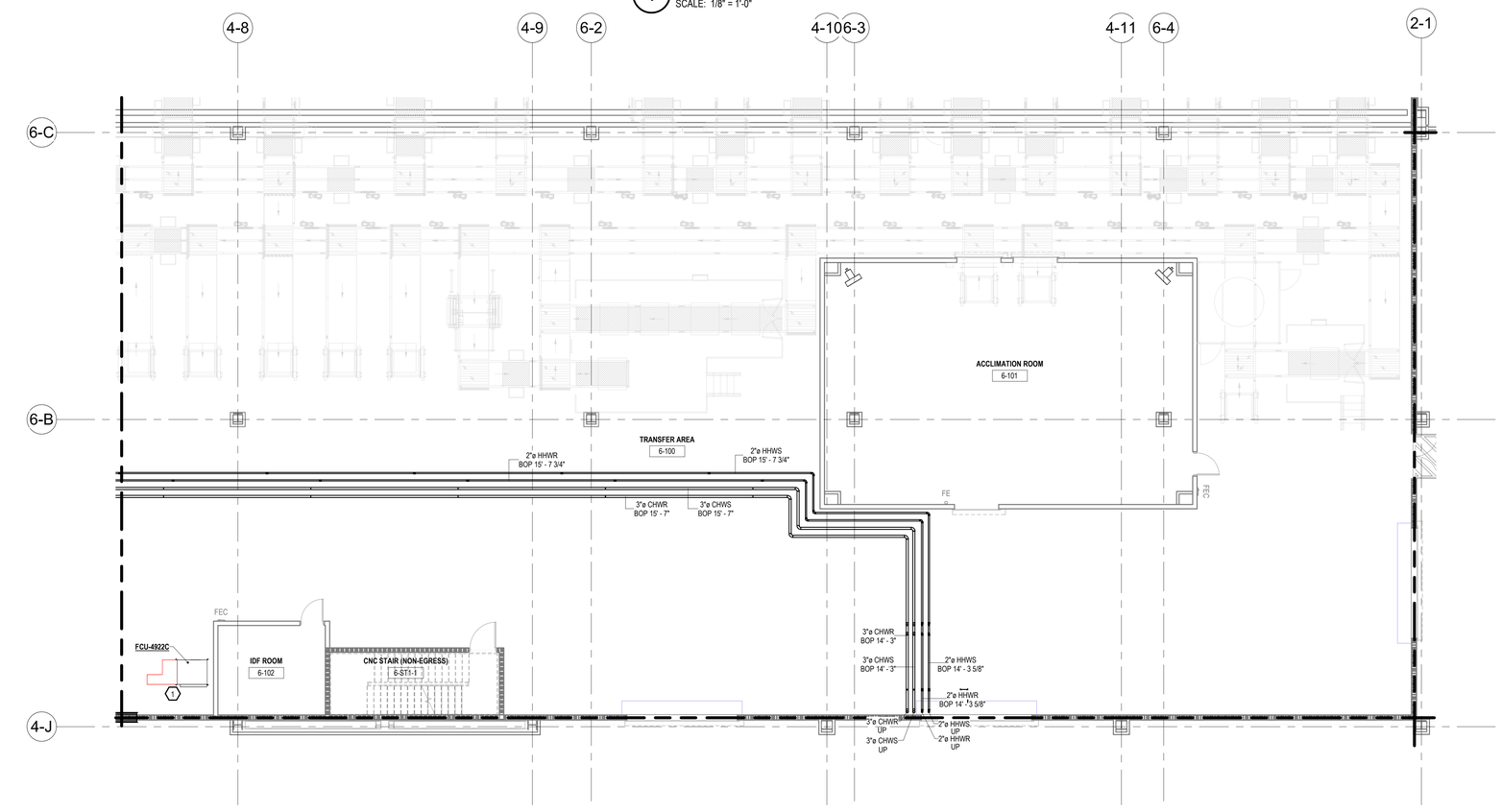
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1 PIPE - B6 - 1ST FLOOR PLAN - AREA A

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



2 PIPE - B6 - 1ST FLOOR PLAN - AREA B

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

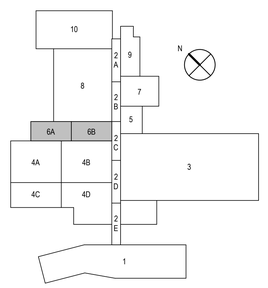
RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

KEY NOTES

1 CONTRACTOR TO COORDINATE FINAL CONNECTION TO COIL/EQUIPMENT IN THE FIELD.

KEY PLAN



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KIRLIN WAY

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08 Feb 2023

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PIPE - B6 - 1ST FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

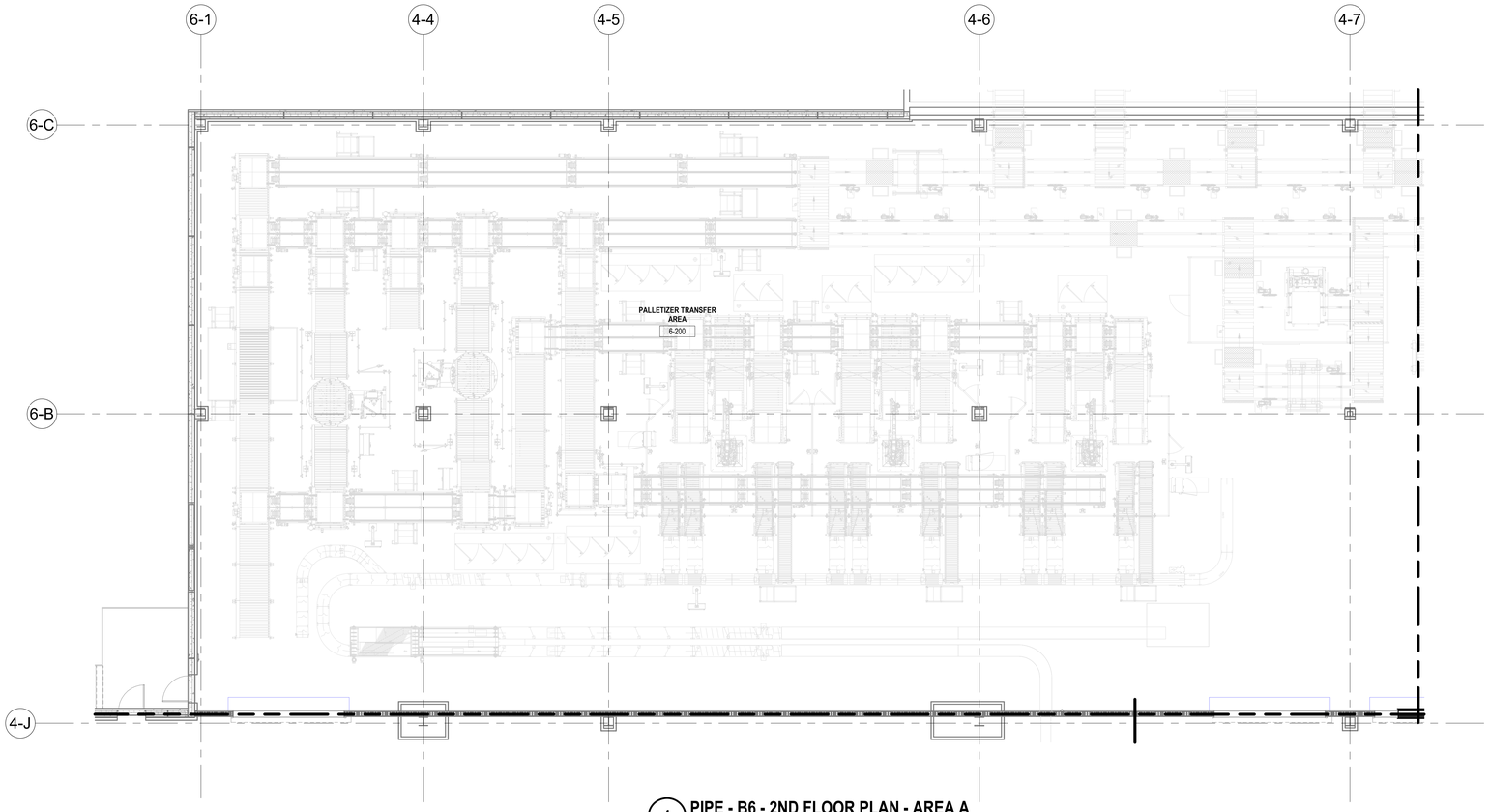
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SYSTEM TYPE		EDIFICE/BUILDING: CONC006	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MP-00000110	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

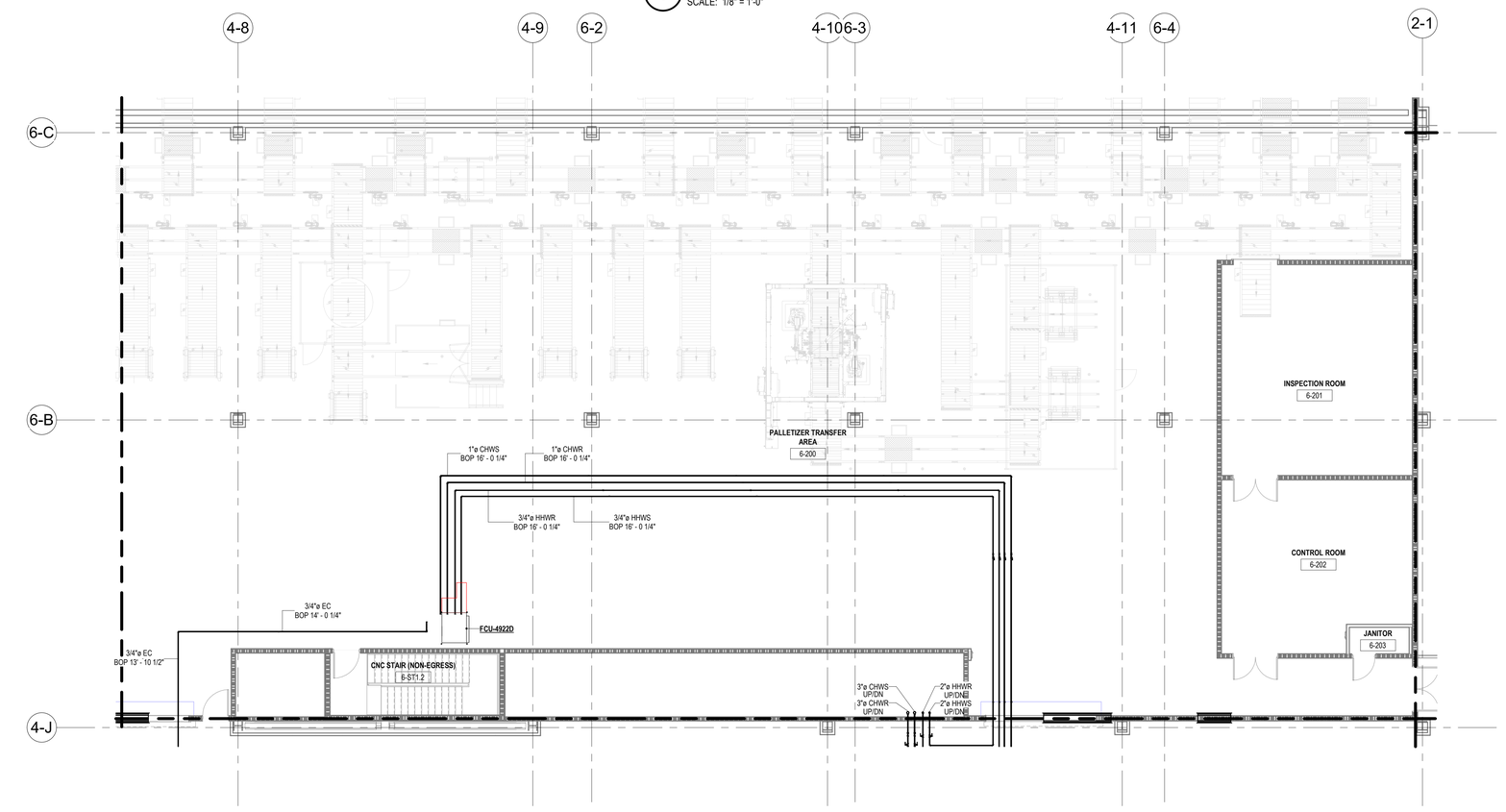
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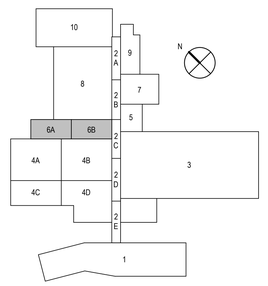
1 **PIPE - B6 - 2ND FLOOR PLAN - AREA A**
SCALE: 1/8" = 1'-0"



2 **PIPE - B6 - 2ND FLOOR PLAN - AREA B**
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

KEY PLAN



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08 Feb 2023

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1420 CONCORD PKWY S
CONCORD, NC 28027

PIPE - B6 - 2ND FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
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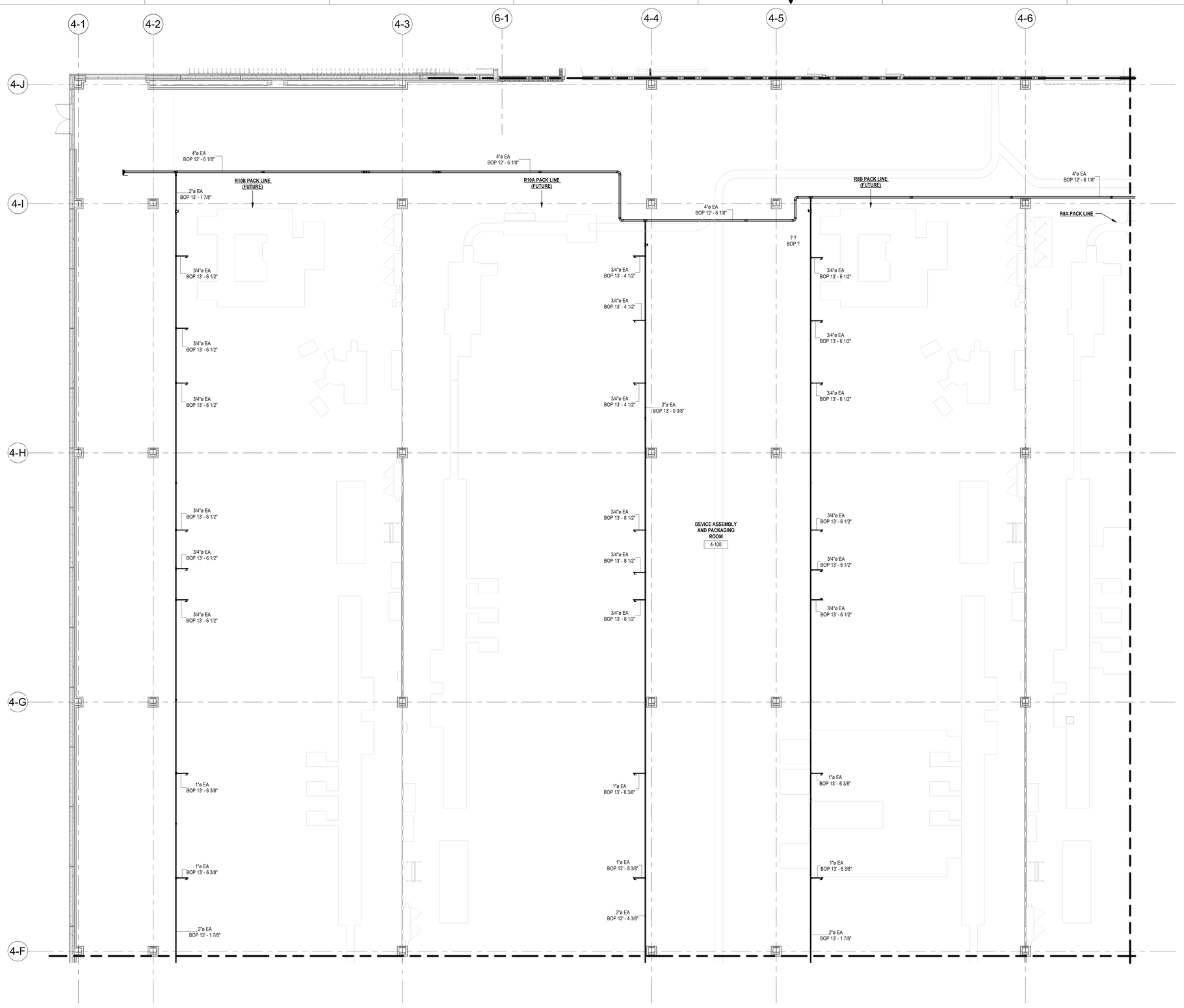
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SYSTEM TYPE		EDIFICE/BUILDING: CONC006	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MP-00000120	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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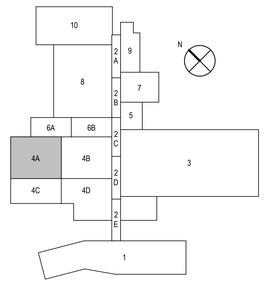
1 SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA A

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

GENERAL NOTES

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KEY PLAN



RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

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PROFESSIONAL
ENGINEER
ALEXANDER D. SYME

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA A

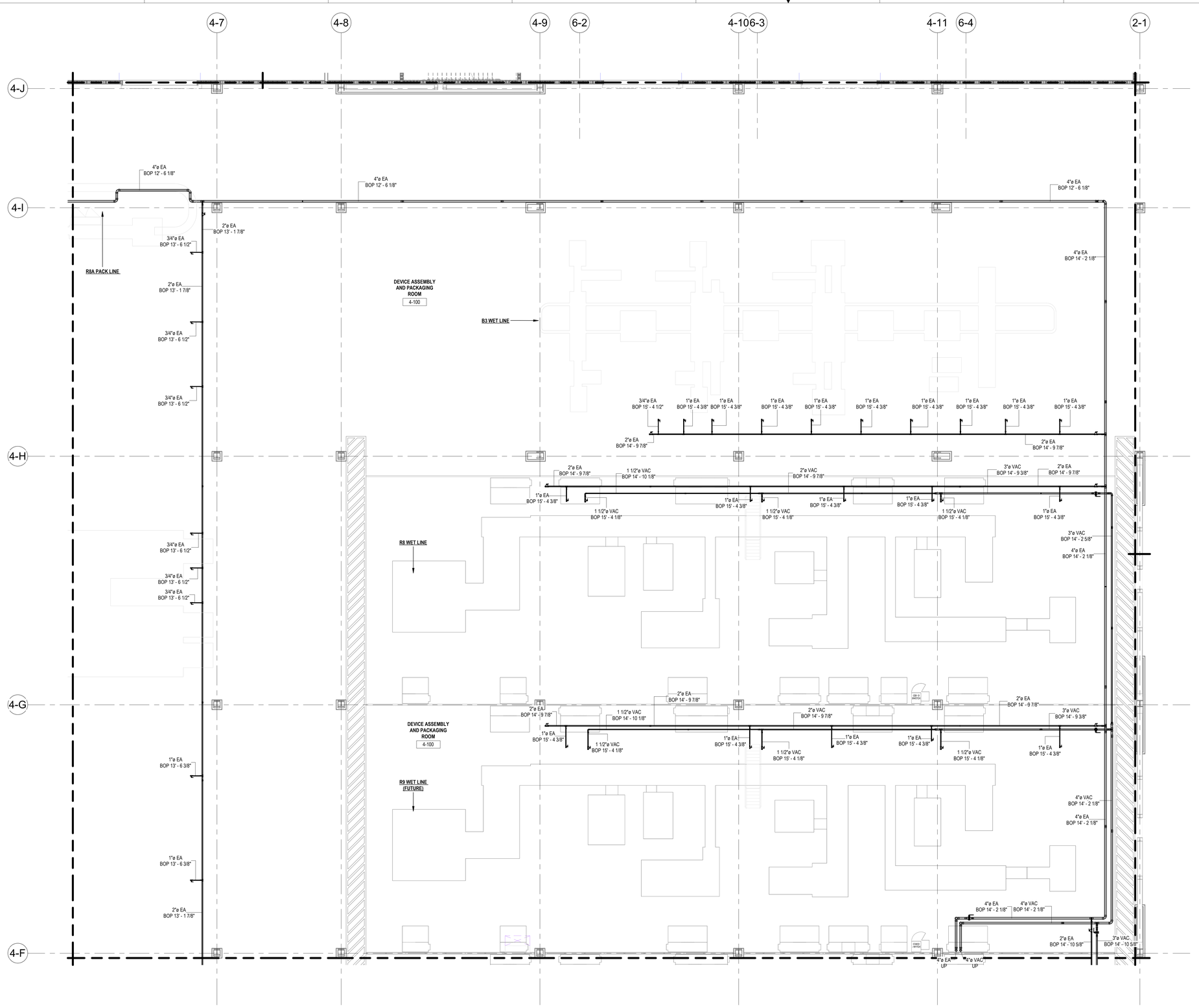
SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000211	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

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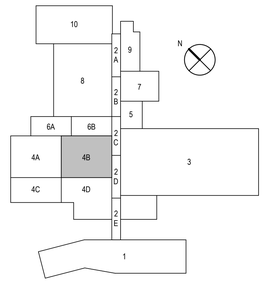
1 SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA B

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

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KEY PLAN



RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL SEAL 039824 ENGINEER ALEXANDER D. STOW
08 Feb 2023

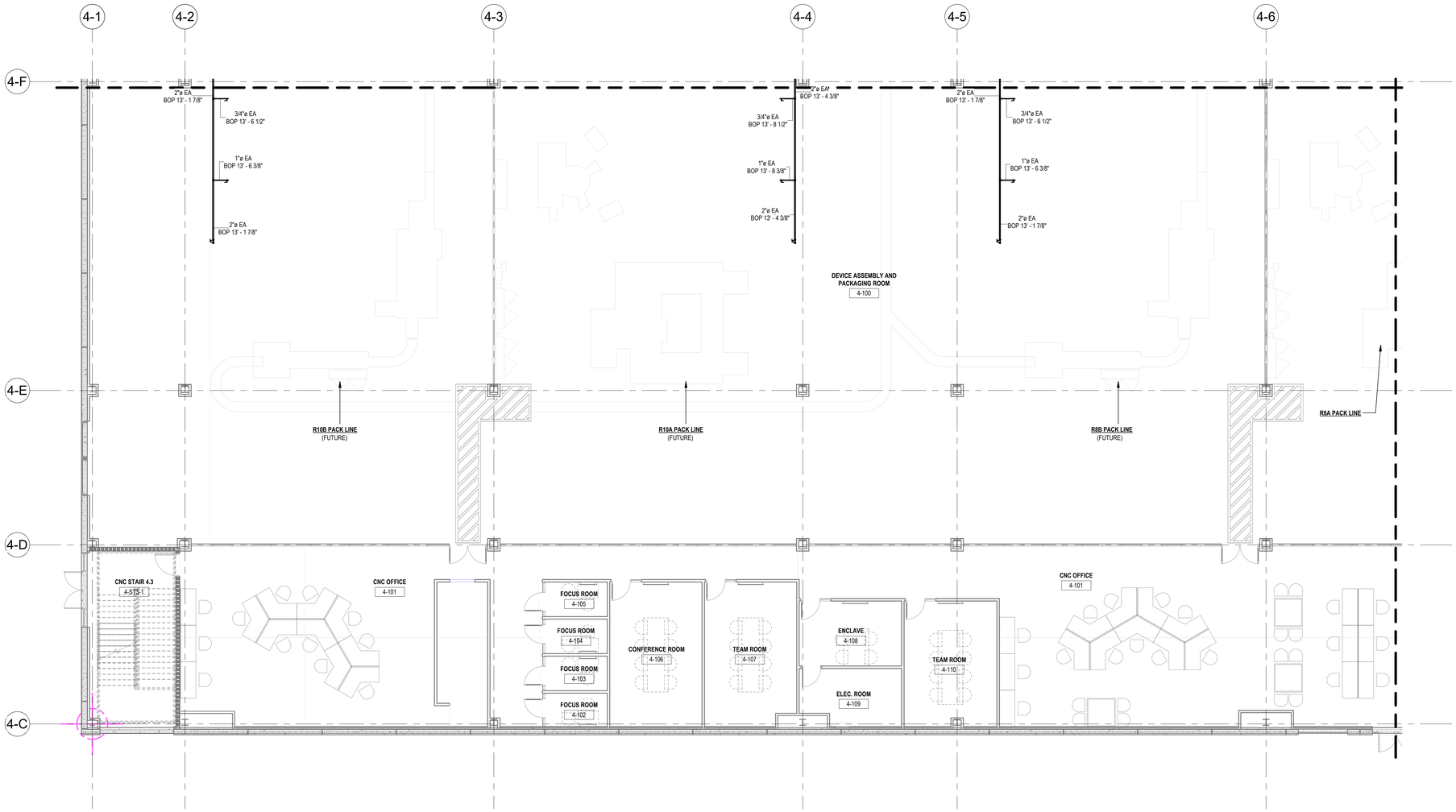
Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA B

SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
			MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000212
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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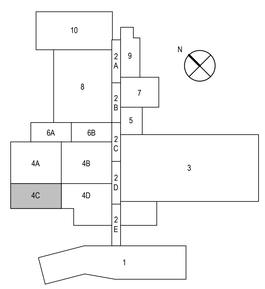
1 SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA C

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

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KEY PLAN



RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049954 ALEXANDER D. STONE

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

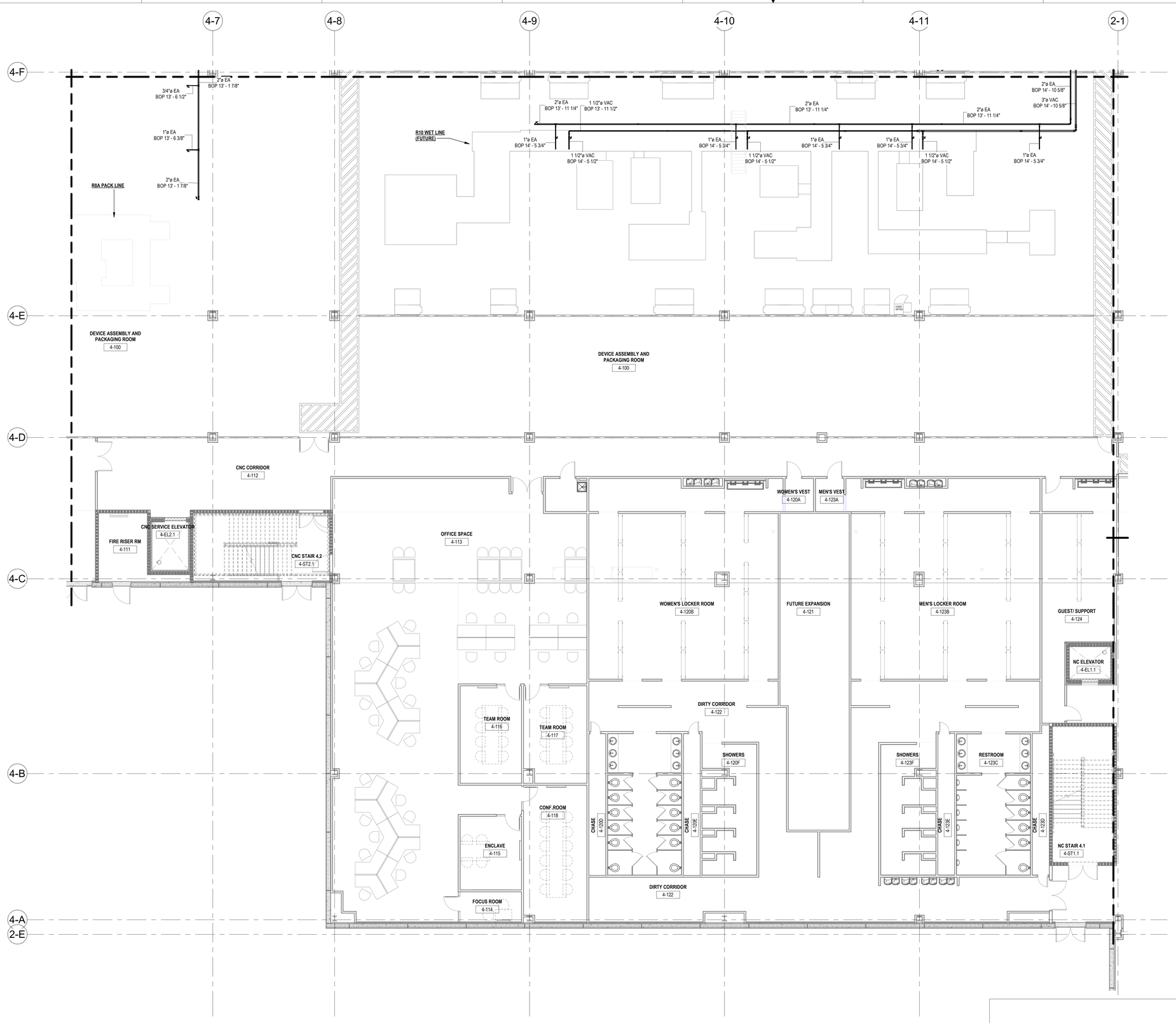
SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA C

SYSTEM TYPE			EDIFICE/BUILDING	LEVEL/FLOOR
			CONC004	1ST FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE	PROJECT NAME
MP	CONC	N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		1/8" = 1'-0"
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-MP-00000213	
NON-CRITICAL		ENGINEERING AGENCY DOC ID		
NO				

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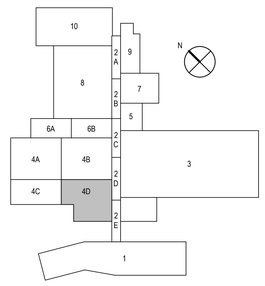
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KEY PLAN



1 SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA D

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

BE&K

KIRLIN WAY

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049954 ALEXANDER D. STONE

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - 1ST FLOOR PLAN - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

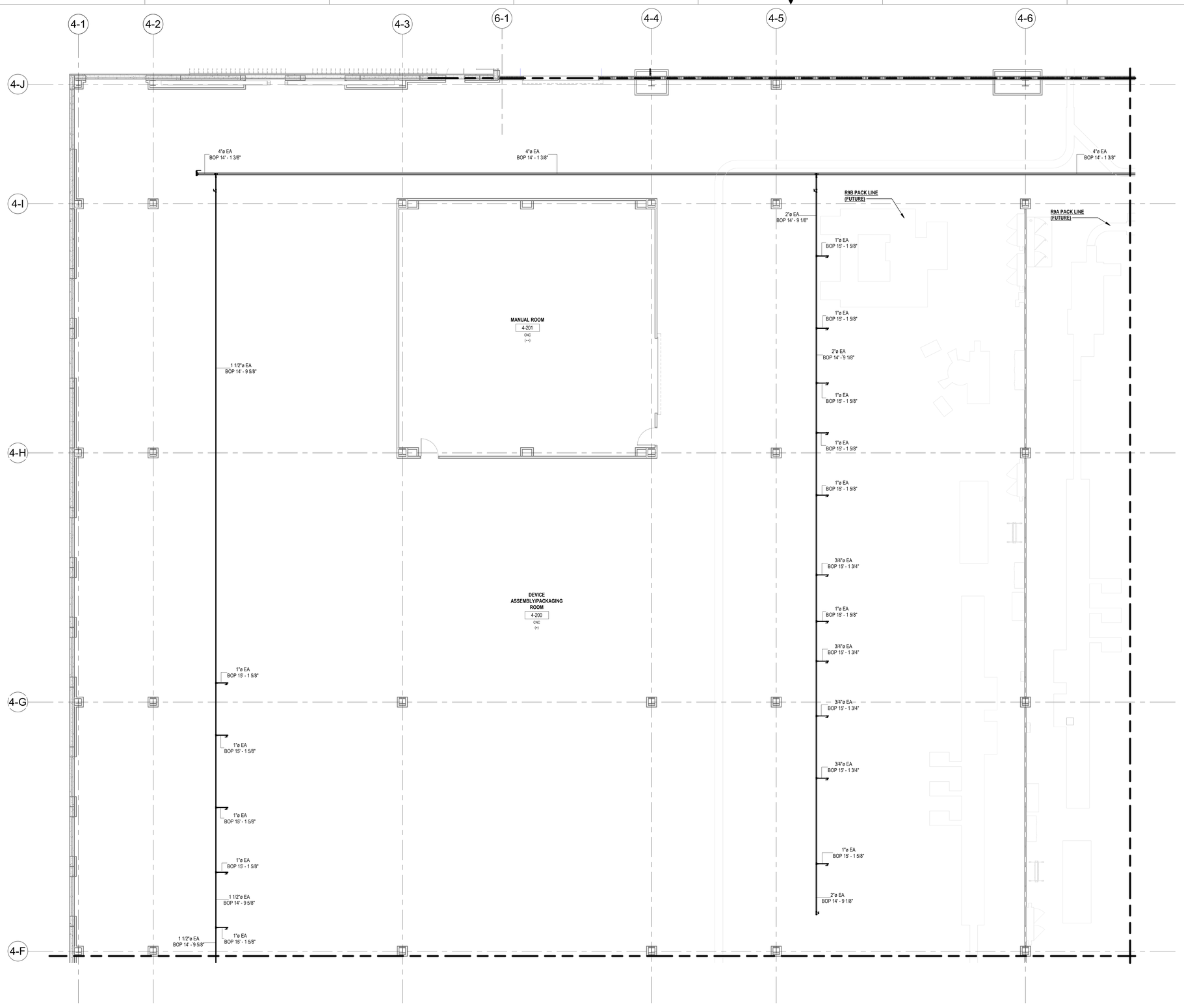
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 1ST FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000214
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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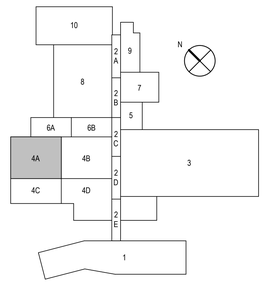
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KEY PLAN



1 SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA A

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

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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08 Feb 2023

Lilly

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CONCORD, NC 28027

SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA A

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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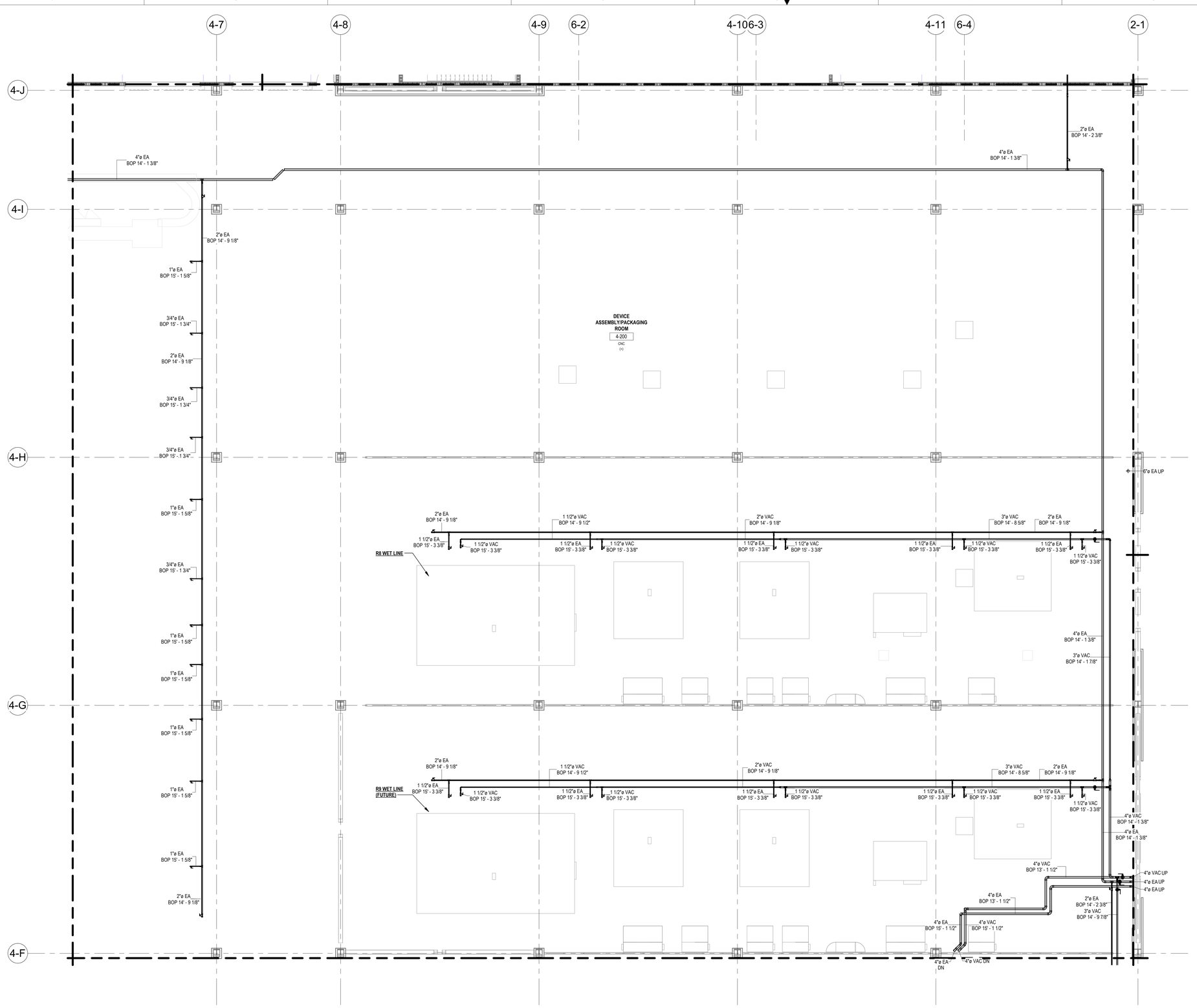
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MP-00000221	

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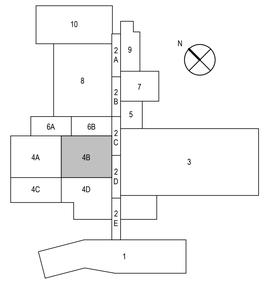
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KEY PLAN



1 SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA B

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

RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

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KIRLIN WAY

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NORTH CAROLINA SEAL 039654 ENGINEER ALEXANDER D. STONE

08 Feb 2023

Lilly
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CONCORD, NC 28027

SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA B

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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CONFIDENTIAL INFORMATION

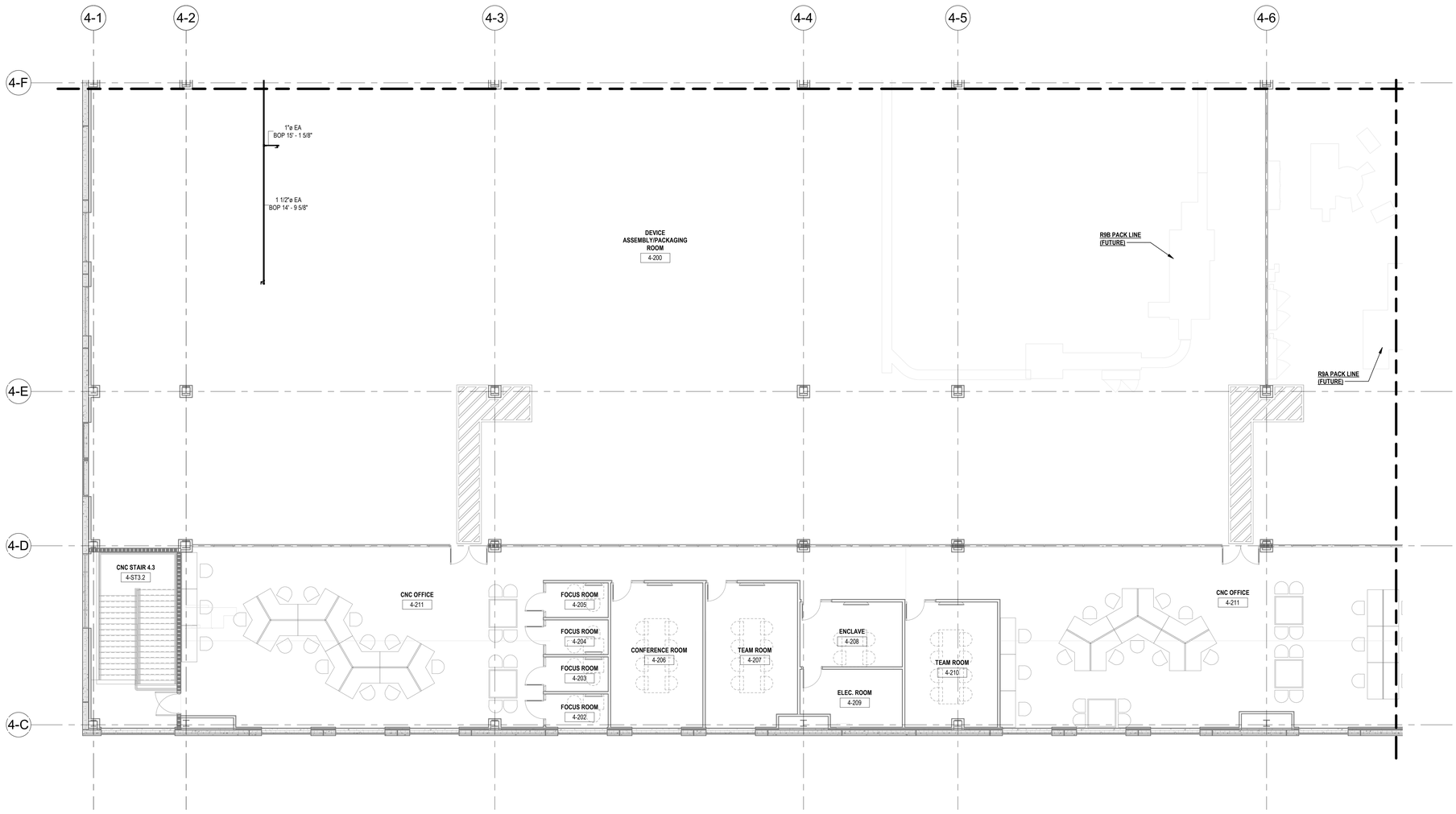
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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC004	2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CEI CODE: YELLOW
			PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
			MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	CONC004-MP-00000222

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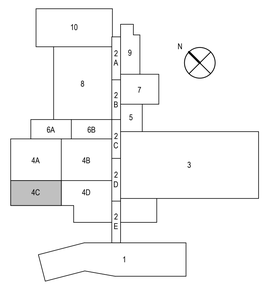
1 SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA C

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

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4. TRANSITION FROM COPPER TO STAINLESS STEEL PIPING SHALL DROP THROUGH CEILINGS INTO THE CLEAN SPACE. PROVIDE THREADED FNPT STAINLESS STEEL END CONNECTION AT TERMINATION APPROXIMATELY 9'-0" AFF. PIPING SHALL BE SUPPORTED AT FLOOR LEVEL.

KEY PLAN



RATED WALL LEGEND

- 1-HOUR RATED
- 2-HOUR RATED

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
/1		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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BE&K

KIRLIN WAY

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NC FIRM LICENSE #: C-2146
WWW.HIPP-USA.COM

NORTH CAROLINA
049954
REGISTERED
ENGINEER
ALEXANDER D. STONE

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA C

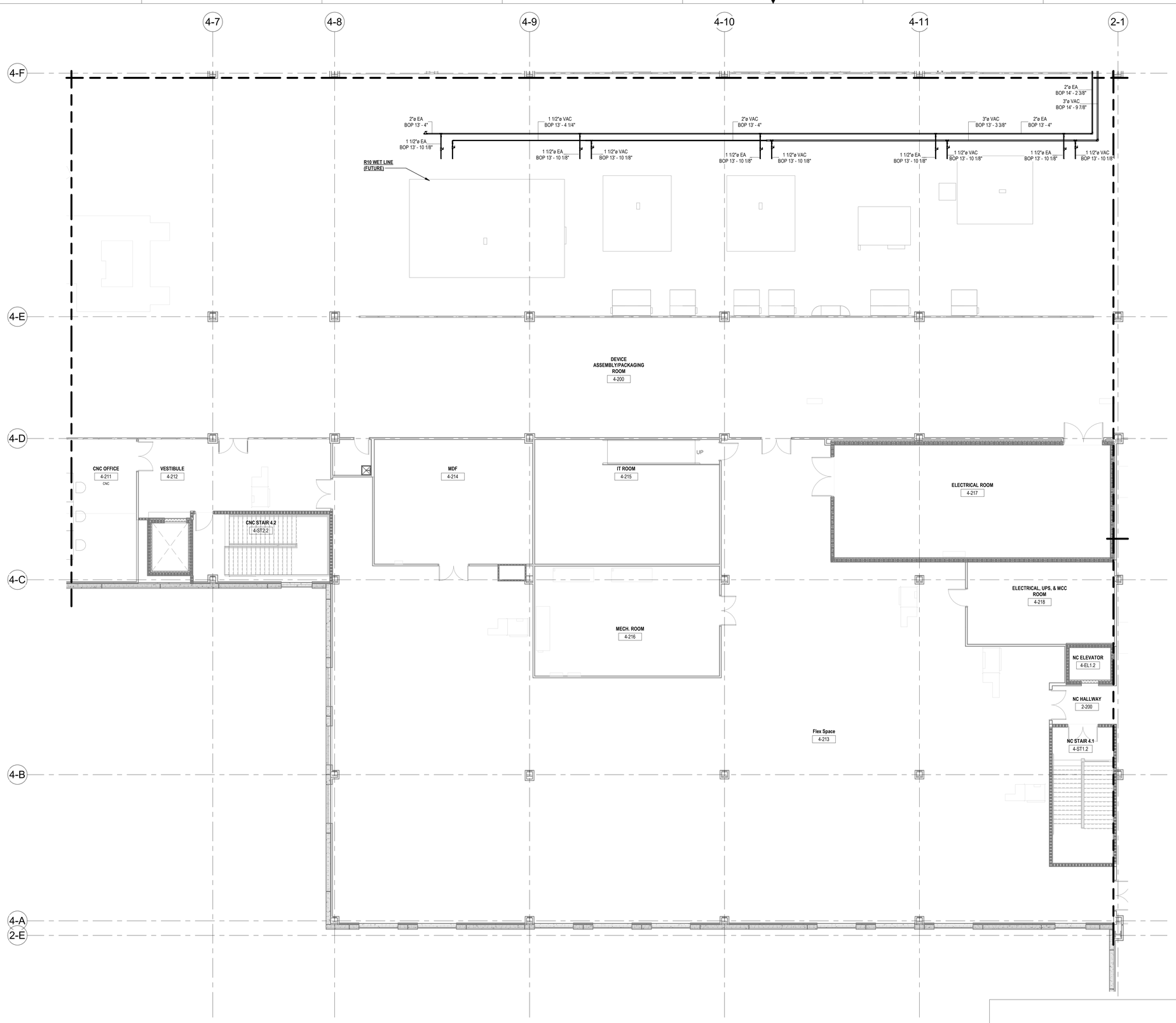
SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
DRAWING SCALE: 1/8" = 1'-0"			
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
MERIDIAN REV			
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000223
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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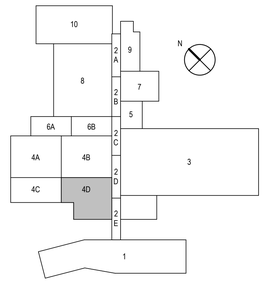
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GENERAL NOTES

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KEY PLAN



1 SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA D

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

RATED WALL LEGEND
1-HOUR RATED
2-HOUR RATED

BG&H

KIRLIN WAY

HIPP DESIGN + CONSULTING

3301 REXWOODS DR
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NORTH CAROLINA
LICENSED
040954
PROFESSIONAL ENGINEER
ALEXANDER D. STONE

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - 2ND FLOOR PLAN - AREA D

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

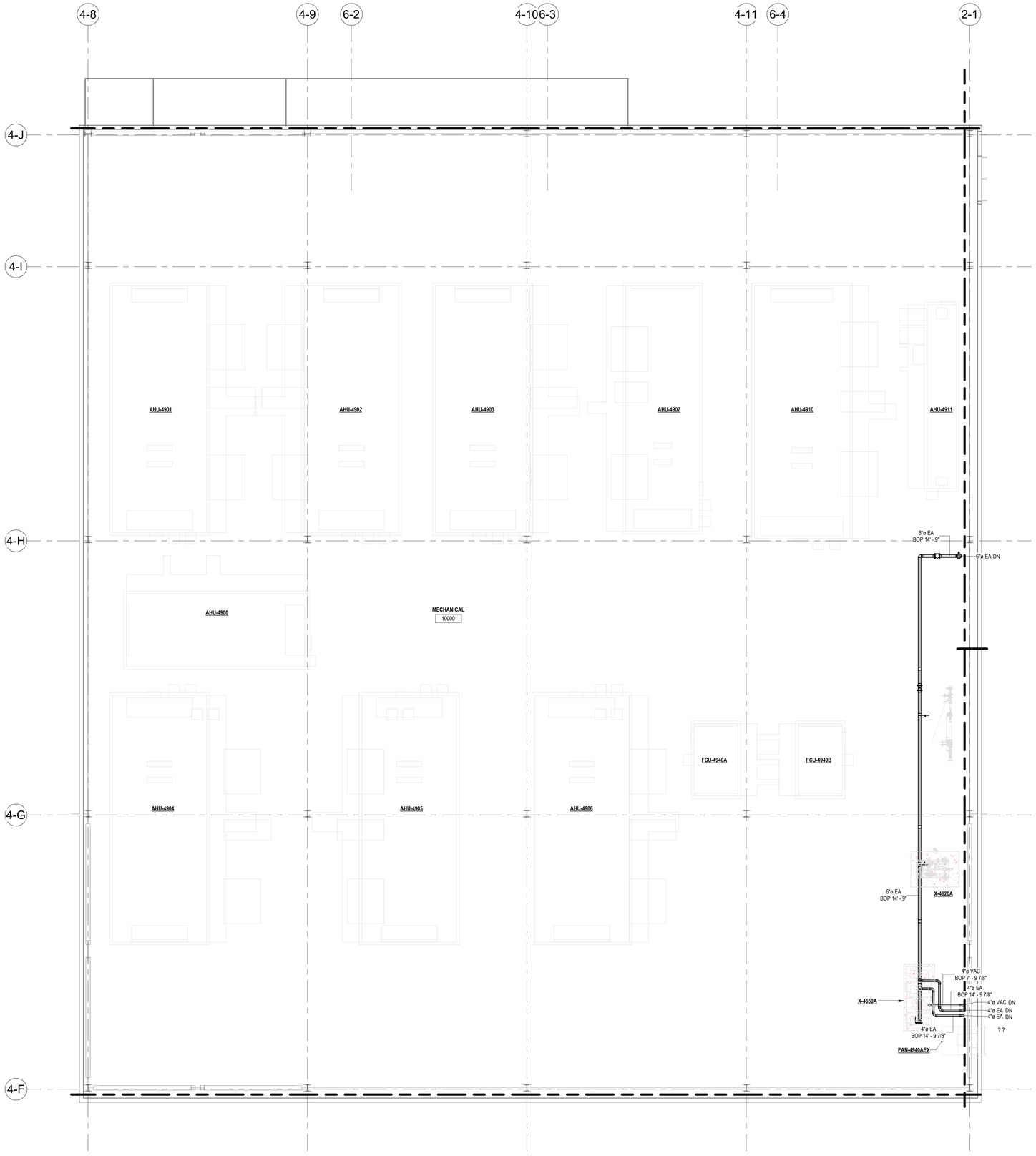
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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC004	2ND FLOOR
SUB DISCIPLINE	LOCATION CODE / LOCATION/GRID	CCI CODE	PROJECT NAME
MP	CONC / N/A	YELLOW	CONC-300-6070
CRITICAL QUALITY	ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO	CDAP		1/8" = 1'-0"
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES			
CRITICAL HSE	VENDOR	DOCUMENT ID	
NO		CONC004-MP-00000224	
NON-CRITICAL	ENGINEERING AGENCY DOC ID		
NO			

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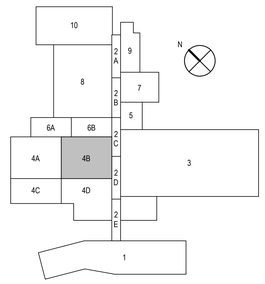
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1 SPECIALTY PIPE - B4 - PENTHOUSE
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

KEY PLAN



HIPP DESIGN + CONSULTING
2301 RIVERWOODS DR
SUITE 200
CARY, NC 27567
TEL: 919.791.1555
FAX: 919.755.9999
RALEIGH, NORTH CAROLINA
WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049954 CHRISTOPHER D. STONE
08 Feb 2023

1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B4 - PENTHOUSE

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0\		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

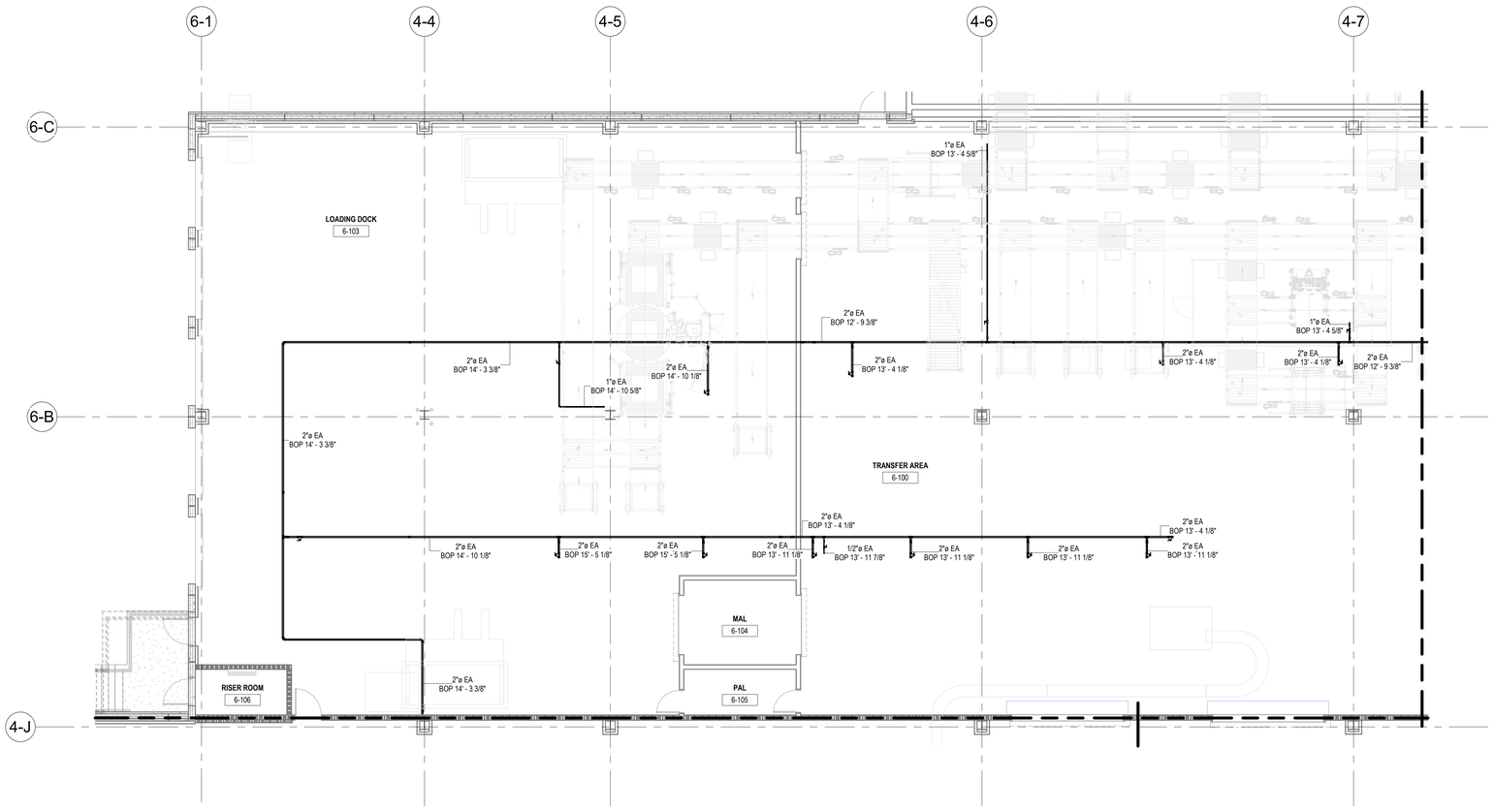
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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR: PENTHOUSE
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/8" = 1'-0"
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MP-00000231	
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID		

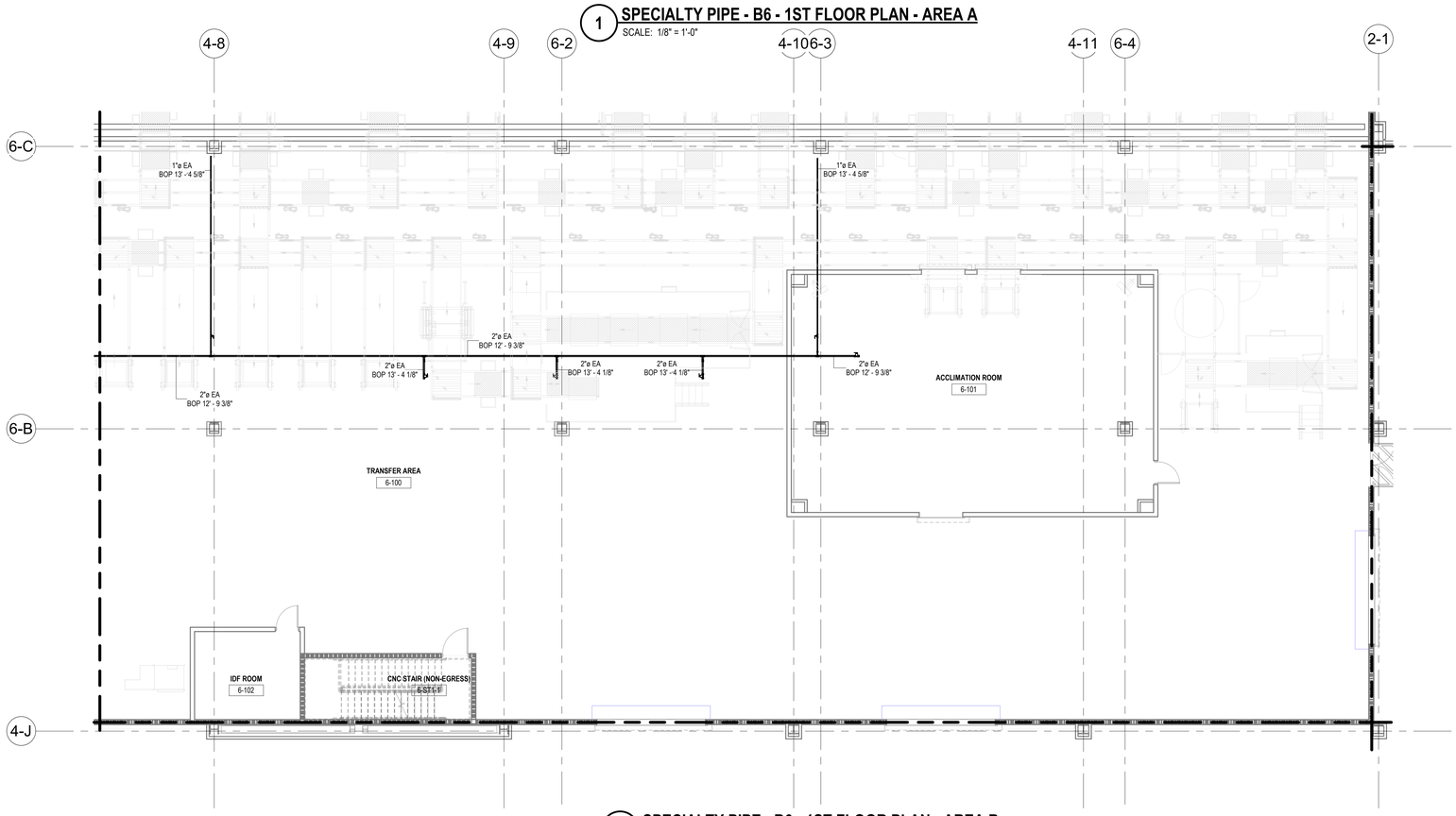
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1 SPECIALTY PIPE - B6 - 1ST FLOOR PLAN - AREA A

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



2 SPECIALTY PIPE - B6 - 1ST FLOOR PLAN - AREA B

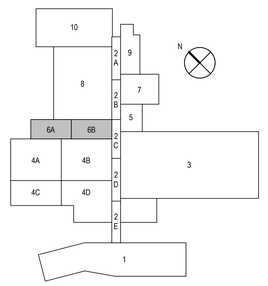
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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KEY PLAN



HIPP DESIGN + CONSULTING

08 Feb 2023

SPECIALTY PIPE - B6 - 1ST FLOOR PLAN

1420 CONCORD PKWY S
CONCORD, NC 28027

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0\		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

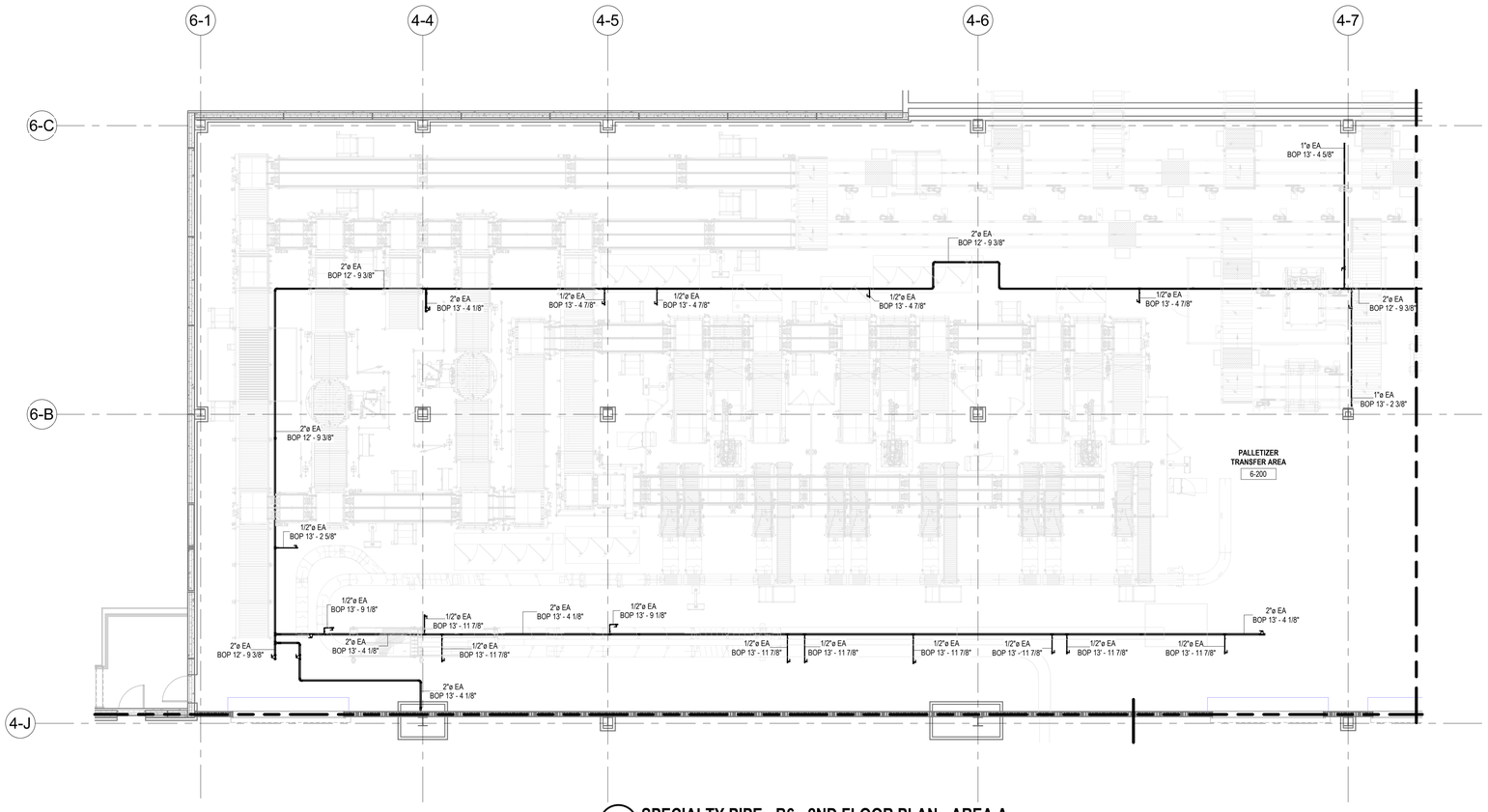
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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC006	1ST FLOOR
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE	PROJECT NAME
MP	CONC	N/A	YELLOW	CONC-300-5983
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		1/8" = 1'-0"
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
YES				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC006-MP-00000210	
NON-CRITICAL		ENGINEERING AGENCY DOC ID		
NO				

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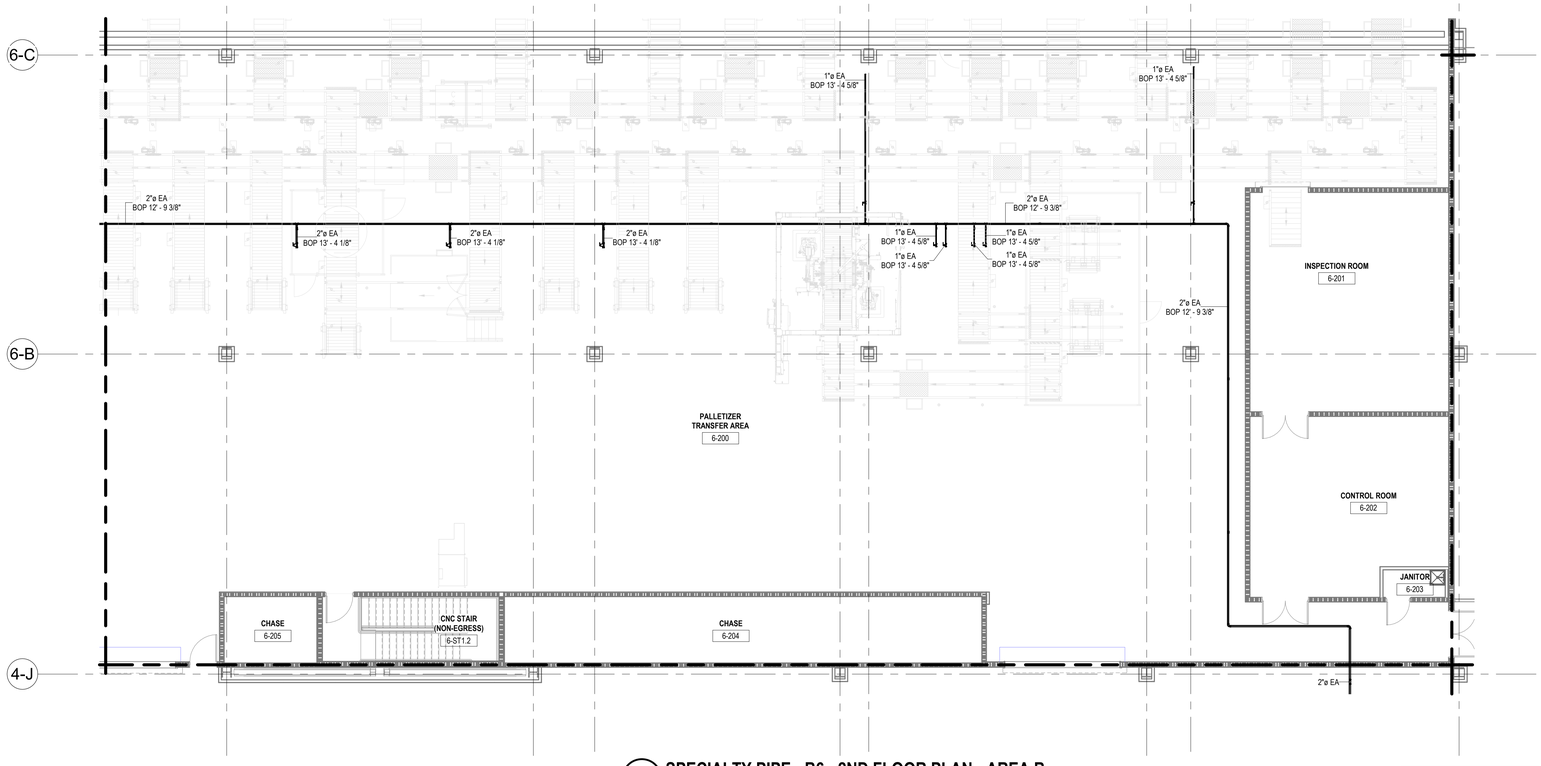
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1 SPECIALTY PIPE - B6 - 2ND FLOOR PLAN - AREA A

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



2 SPECIALTY PIPE - B6 - 2ND FLOOR PLAN - AREA B

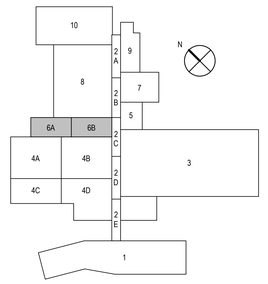
SCALE: 1/8" = 1'-0"

RATED WALL LEGEND	
	1-HOUR RATED
	2-HOUR RATED

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KEY PLAN



BE&K

KIRLIN WAY

HIPP DESIGN + CONSULTING

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RALEIGH, NC 27607
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FAX: 919.783.9909
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WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049954 JAMES D. HIPP

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

SPECIALTY PIPE - B6 - 2ND FLOOR PLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
/0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

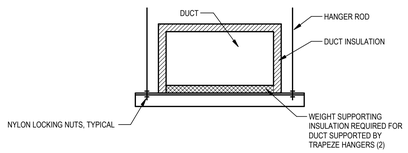
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SYSTEM TYPE		EDIFICE/BUILDING: CONC006	LEVEL/FLOOR: 2ND FLOOR
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION:
DRAWING SCALE: 1/8" = 1'-0"			
CRITICAL BUSINESS: YES		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC006-MP-00000220
NON-CRITICAL: NO		ENGINEERING AGENCY DOC ID	

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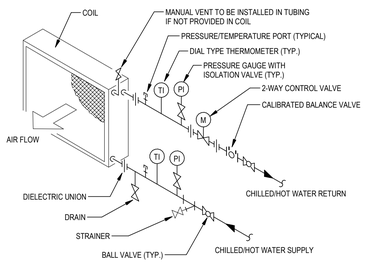
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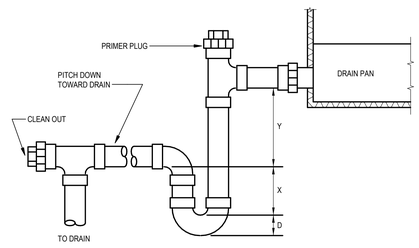
NOTES:
1. INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS, EXCEPT ROUND DUCTS 24" OR SMALLER.
2. WEIGHT SUPPORTING INSULATION TO BE TYPE RR (MANVILLE TYPE 817 OR OWENS-CORNING 705), MINIMUM 6" WIDE WITH SAME THICKNESS OF DUCT INSULATION. FOR ROUND DUCTS, HAMFAB INSERTS MAY BE USED TO SUPPORT WEIGHT. USE MULTIPLE INSERTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

1 INSULATED DUCT SUPPORTS
NOT TO SCALE



NOTES:
1. REFER TO CONSTRUCTION DOCUMENTS FOR LINE SIZES.
2. ENSURE PIPING IS INSTALLED COUNTERFLOW TO AIR.

2 WATER COIL PIPING
NOT TO SCALE

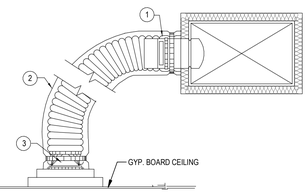


NOTES:
1. COORDINATE BOTTOM OF EQUIPMENT ELEVATION WITH BOTTOM OF PIPE TRAP. ENSURE CLEARANCE OF TOP OF FINISHED ROOF OR FINISHED FLOOR. PROVIDE APPROPRIATE CURB, BASE RAIL AND HOUSEKEEPING PAD TO PROVIDE CLEARANCE FOR TRAP.
2. CONDENSATE DRAIN LINE SHALL BE EQUAL TO THE EQUIPMENT CONNECTION SIZE.

DIMENSIONS

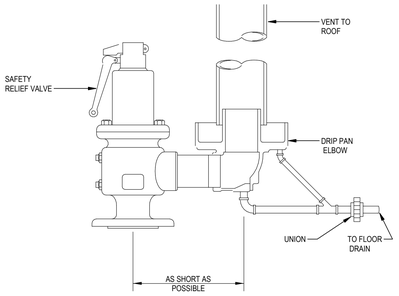
P = PRESSURE IN AHU PLENUM (IN. WG)
Y = P + 1"
X = 1/2 Y
D = PIPE DIAMETER

3 AHU COOLING COIL DRAIN
NOT TO SCALE



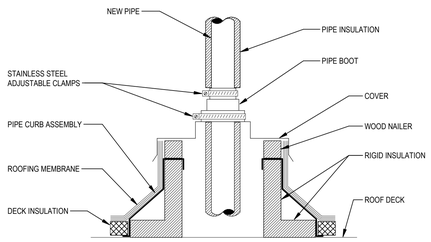
NOTES:
1. SPIN COLLAR TYPE CONNECTOR, EXTERNALLY INSULATED, WITH VOLUME DAMPER AND DAMPER LOCK. SEE DETAIL, THIS SHEET.
2. PRE-INSULATED FLEX DUCT AS REQUIRED. INSTALLED, PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS.
3. ROUND TO SQUARE ADAPTER AS REQUIRED.
4. 1-90° TURN ALLOWED.
5. MAXIMUM FLEX LENGTH NOT TO EXCEED 10'-0"
6. SUPPORT SPACING AS SPECIFIED.

4 FLEXIBLE DUCT DETAIL
NOT TO SCALE

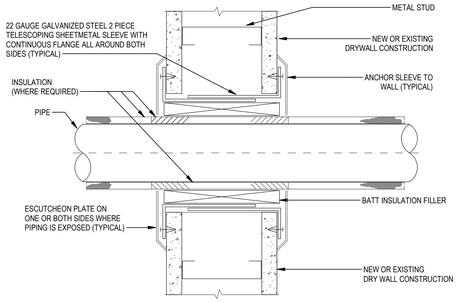


NOTE:
1. PROVIDE DRIP PAN ELBOWS FOR ALL SAFETY RELIEF VALVES VENTED THROUGH THE ROOF.

5 DRIP PAN ELBOW
NOT TO SCALE



6 PIPE PENETRATION THRU ROOF
NOT TO SCALE



7 NON-FIRE RATED PIPE PENETRATION DETAIL
NOT TO SCALE

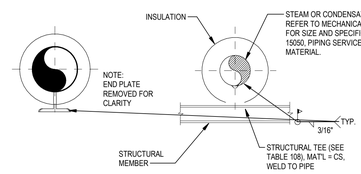
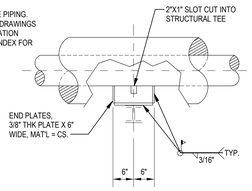


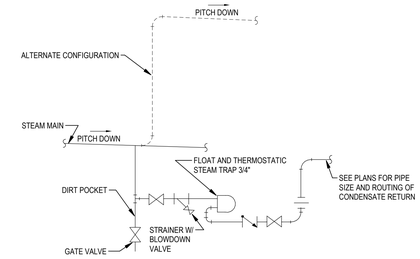
TABLE 108	
INSULATION THICKNESS	STRUCTURAL TEE
3 1/2" OR LESS	WT 4X15.5
4" THRU 5 1/2"	WT 6X20

ANCHOR FOR INSULATED CS PIPE
(PIPE SIZE - 8" THRU 26")

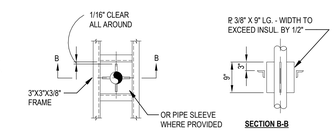


NOTES:
1. PIPE ANCHORS AND WELDS SHALL BE SUITABLE FOR MAXIMUM PIPE STRESS OF 3800 Lbs.
2. REFERENCE STRUCTURAL DETAILS 12 AND 13 SHEET ROA-S8006, FOR BRIDGE ANCHOR FRAMING DETAIL.

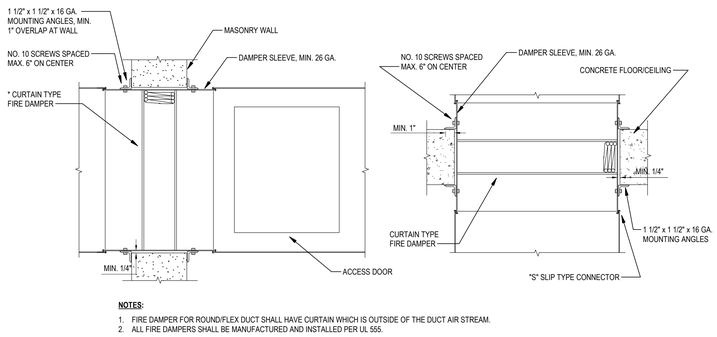
8 ANCHOR FOR INSULATED CS PIPE
NOT TO SCALE



9 TRAPPING OF HIGH PRESSURE STEAM MAIN
NOT TO SCALE

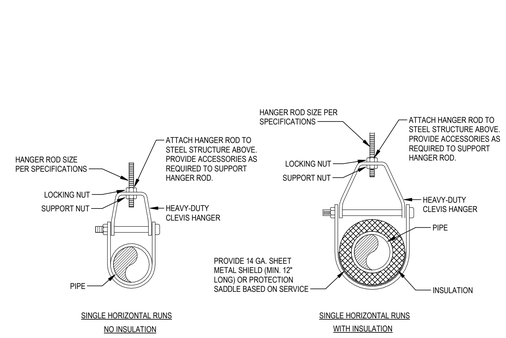


10 VERTICAL GUIDES
NOT TO SCALE

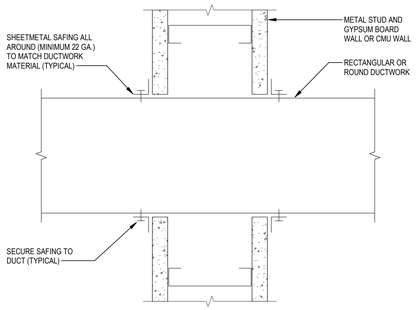


NOTES:
1. FIRE DAMPER FOR ROUND/FLEX DUCT SHALL HAVE CURTAIN WHICH IS OUTSIDE OF THE DUCT AIR STREAM.
2. ALL FIRE DAMPERS SHALL BE MANUFACTURED AND INSTALLED PER UL 555.

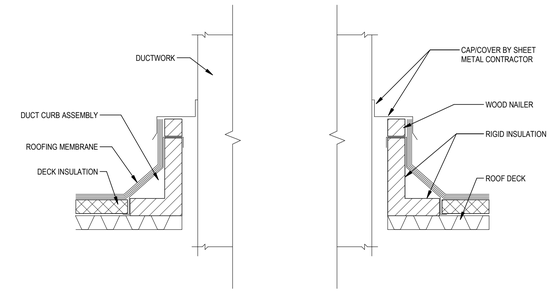
11 DETAIL OF DUCT PASSING THRU 2-HR MASONRY WALL OR FLOOR
NOT TO SCALE



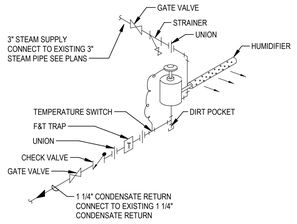
12 CLEVIS HANGER PIPE SUPPORT DETAIL
NOT TO SCALE



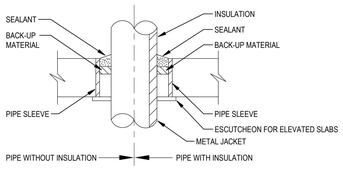
13 DUCT PENETRATION, NON-FIRE RATED WALLS ONLY
NOT TO SCALE



14 DUCT PENETRATION THRU ROOF
NOT TO SCALE



15 HUMIDIFIER PIPING DETAIL
NOT TO SCALE



16 PIPE SLEEVE THRU FLOOR
NOT TO SCALE

BE&K

KIRLIN WAY

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NORTH CAROLINA PROFESSIONAL SEAL 040778 ENGINEER ANDREW T. NETH

08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC DETAILS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC004	-
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
MJ	CONC	N/A	CONC-300-6070
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
NO		CDAP		12" = 1'-0"
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
NO				
CRITICAL HSE		VENDOR	DOCUMENT ID	
NO			CONC004-MJ-00000500	
NON-CRITICAL		ENGINEERING AGENCY DOC ID		
YES				

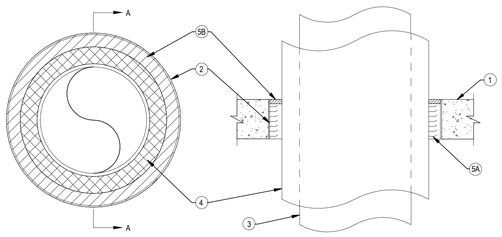
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Autodesk Docs://Eli Lilly – Concord Facility/LillyCON_246_CDOC_HIPP_v22.rvt

System No. C-AJ-5091

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 and 1 Hr (See Items 2 and 4)	FT Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At 400 F — Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 and 1 Hr (See Items 2 and 4)
	L Rating At Ambient —4 CFM/sq ft
	L Rating At 400 F —Less Than 1 CFM/sq ft



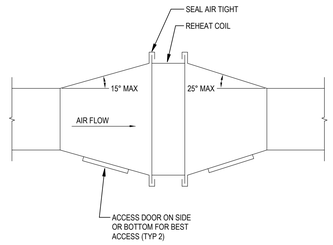
SECTION A-A

1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 29 IN. (737 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. METALLIC SLEEVE — (OPTIONAL) — NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL. IF THE STEEL SLEEVE EXTENDS BEYOND THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL, THE T RATING OF THE FIRESTOP SYSTEM IS 0 HR.
   A. SHEET METAL SLEEVE — (OPTIONAL) - MAX 6 IN. (152 MM) DIAM, MIN 26 GA GALV STEEL PROVIDED WITH A 26 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROXIMATELY MID- HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. (51 MM) LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE FLUSH WITH BOTTOM SURFACE OF FLOOR AND MAY EXTEND A MAX OF 1 IN. (25 MM) ABOVE THE TOP SURFACE OF THE FLOOR.
   B. SHEET METAL SLEEVE — (OPTIONAL) - MAX 12 IN. (305 MM) DIAM, MIN 24 GA GALV STEEL PROVIDED WITH A 24 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROXIMATELY MID- HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. (51 MM) LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE FLUSH WITH BOTTOM SURFACE OF FLOOR AND MAY EXTEND A MAX OF 1 IN. (25 MM) ABOVE THE TOP SURFACE OF THE FLOOR.
3. THROUGH PENETRANTS — ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE — NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE — NOM 12 IN. (305 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
4. PIPE COVERING — MIN 1/2 IN. (13 MM) TO MAX 2 IN. (51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M³) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET, LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED, SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE EDGE OF THE PERIPHERY OF THE OPENING SHALL BE MIN 1/2 IN. (13 MM) TO MAX 12 IN. (305 MM). WHEN THICKNESS OF PIPE COVERING IS LESS THAN 2 IN. (51 MM), THE T RATING FOR THE FIRESTOP SYSTEM IS 0 HR. SEE PIPE EQUIPMENT COVERING — MATERIALS — (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
   A. PIPE COVERING — (NOT SHOWN) — AS AN ALTERNATE TO ITEM 4, MAX 2 IN. (51 MM) THICK CYLINDRICAL CALCIUM SILICATE (MIN 14 PCF OR 224 KG/M³) UNITS SIZED TO THE OUTSIDE DIAM OF THE PIPE OR TUBE MAY BE USED. PIPE INSULATION SECURED WITH STAINLESS STEEL BANDS OR MIN 18 AWG STAINLESS STEEL WIRE SPACED MAX 12 IN. (305 MM) OC. THE ANNULAR SPACE SHALL BE MIN 1/2 IN. (13 MM) TO MAX 12 IN. (305 MM).
5. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCF (64 KG/M³) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

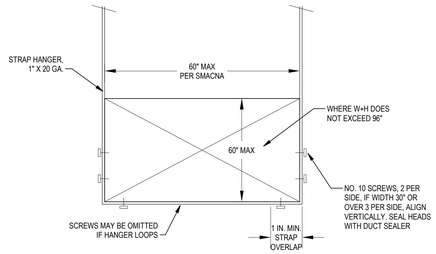
* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

JANUARY 13, 2015

1 C-AJ-5091 - FIRE RATED PIPE PENETRATION DETAIL
NOT TO SCALE

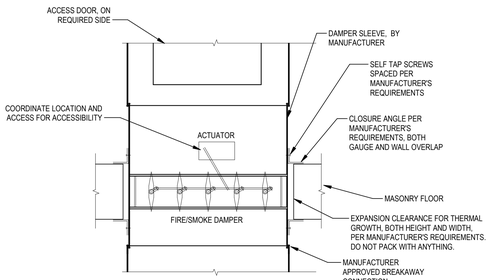


2 REHEAT COIL DUCT CONNECTION DETAIL
NOT TO SCALE



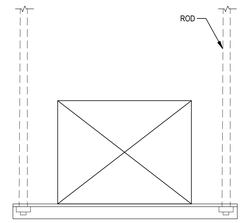
NOTES:
1. APPLIES TO INSULATED AND UNINSULATED RECTANGULAR SUPPORTS.

3 STRAP HANGER DETAIL
NOT TO SCALE

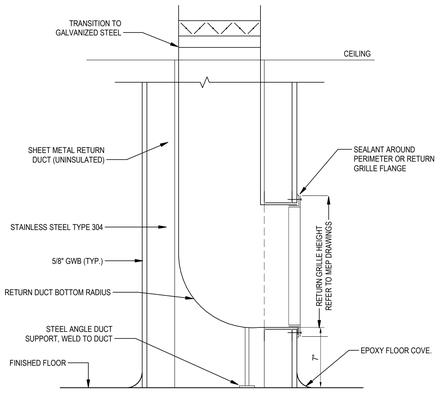


NOTES:
1. ALL FIRE DAMPERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION DETAILS.

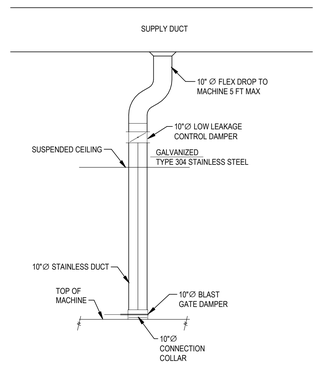
4 FIRE SMOKE DAMPER DETAIL
NOT TO SCALE



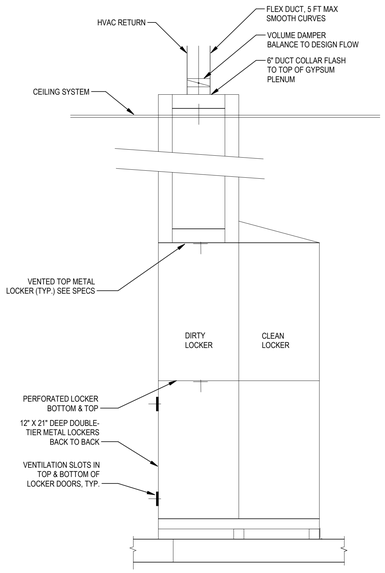
5 TRAPEZE HANGER DETAIL
NOT TO SCALE



6 LOW WALL RETURN DETAIL
NOT TO SCALE



7 MACHINE CONNECTION DETAIL
NOT TO SCALE



8 LOCKER VENITLATION DETAIL
NOT TO SCALE

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT ENERGY CODE SUMMARY

METHOD OF COMPLIANCE:
PRESCRIPTIVE__X__ PERFORMANCE_____ ENERGY COST BUDGET_____

EXTERIOR DESIGN CONDITIONS:

WINTER DRY BULB	10°F
SUMMER DRY BULB	95°F

INTERIOR DESIGN CONDITIONS:

WINTER DRY BULB	68°F
SUMMER DRY BULB	70°F
RELATIVE HUMIDITY	<60%

MECHANICAL SPACING CONDITIONING SYSTEM:

UNITARY	-
DESCRIPTION OF UNIT	NEW CHW AHUS
HEATING EFFICIENCY	EXISTING HHW SYSTEM
COOLING EFFICIENCY	EXISTING CHW SYSTEM
HEAT OUTPUT OF UNITS	SEE MECHANICAL SCHEDULES
COOLING OUTPUT OF UNITS	SEE MECHANICAL SCHEDULES

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS PROJECT AREA COMPLIES WITH THE MECHANICAL EFFICIENCY REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE, 2018 EDITION.

SIGNED: Andrew T Neill
NAME: ANDY NEILL, P.E.
TITLE: MECHANICAL ENGINEER

BE&K
KIRLIN WAY
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2301 REXWOODS DR SUITE 200 RALEIGH, NC 27607 TEL: 919.781.5353 FAX: 919.783.9909 NC FIRM LICENSE: P-C-2146 WWW.HIPP-USA.COM

NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL
08 Feb 2023

Lilly
1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC DETAILS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 12" = 1'-0"
CRITICAL BUSINESS: NO	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MJ-00000501	
NON-CRITICAL: YES	ENGINEERING AGENCY DOC ID		

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BUILDING 2 DOAS AIR HANDLING UNIT SCHEDULE

MARK	SERVES	LOCATION	AIR SIDE		PREHEAT COIL INFO							HUMIDIFIER INFO					COOLING COIL INFO										ELECTRICAL	BASIS OF DESIGN			NOTES
			SUPPLY FAN CFM	SUPPLY FAN ESP (IN WC)	EDB (°F)	LDB (°F)	TMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	ENT GPP	LVG GPP	VALVE NUMBER	STEAM SUPPLY PRESS. (PSIG)	STEAM LB/HR	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TMBH	SMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	VOLT-Ø-HZ	MAKE	MODEL	WEIGHT	
AHU-5900	BUILDING 2 OUTDOOR AIR	BUILDING 7 MEZZANINE	6,500	2.50	14.40	55.00	288.46	TCV-5900AC	29.00	130.00	110.00	6.50	42.00	TV-5900PH	50.00	160.80	88.30	77.40	46.00	46.00	678.58	300.66	TCV-5900BC	112.50	42.00	54.00	460/3/60	BUFFALO	CUSTOM	TBD	1-7

NOTES:

1. SUPPLY FAN VFD'S AND AHU CONTROL PANELS TO BE LOCALLY MOUNTED AT EACH UNIT.
2. NO PROPYLENE GLYCOL WILL BE USED IN CHILLED WATER OR HEATING HOT WATER SYSTEM.
3. ALL AHU'S ELECTRICAL POWER SHALL BE SINGLE POINT WITH DISCONNECT SWITCH.
4. ALL AHU'S TO HAVE BASE RAILS ALONG THEIR FULL LENGTH.
5. ALL AHU'S TO HAVE MARINE GRADE INTERIOR LED LIGHTING WITH MANUAL TIMER SWITCH.
6. UNIT IS TO HAVE A TYPE 304L STAINLESS STEEL STEAM DISPERSION GRID FROM THE FACTORY.
7. REFER TO INDOOR CUSTOM MECHANICAL AIR HANDLING UNITS SPECIFICATION 237313 AND INDOOR SEMI CUSTOM MODULAR AIR HANDLING UNITS SPECIFICATION 237314 FOR ADDITIONAL INFORMATION.

BUILDING 2 FAN COIL UNIT SCHEDULE

EQUIPMENT NUMBER	AREA SERVED	AIR SIDE							CAPACITY			CHILLED WATER VALVE NUMBER	CHILLED WATER COIL				REHEAT COIL						ELECTRICAL					BASIS OF DESIGN		NOTES
		CFM DESIGN	ESP (IN. WG)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	P.D. (IN. WG)	TMBH	SMBH	TONS		GPM	EWT (°F)	LWT (°F)	PD (FT. WC)	MBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	PD (FT. WC)	DRIVE	MOTOR (HP)	MCA	V/ø/Hz	VFD	MANUFACTURER	MODEL	
FCU-5901A	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901AA	15.6	42	54	23.04	62.09	TCV-5901AB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901B	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901BA	15.6	42	54	23.04	62.09	TCV-5901BB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901C	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901CA	15.6	42	54	23.04	62.09	TCV-5901CB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901D	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901DA	15.6	42	54	23.04	62.09	TCV-5901DB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901E	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901EA	15.6	42	54	23.04	62.09	TCV-5901EB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901F	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901FA	15.6	42	54	23.04	62.09	TCV-5901FB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901G	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901GA	15.6	42	54	23.04	62.09	TCV-5901GB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901H	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901HA	15.6	42	54	23.04	62.09	TCV-5901HB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901J	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901JA	15.6	42	54	23.04	62.09	TCV-5901JB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901K	BUILDING 2 CNC HALLWAY	2,500	1.0	72	60	52	52	0.53	90.1	69.22	7.51	TCV-5901KA	15.6	42	54	23.04	62.09	TCV-5901KB	6.0	130	110	1.4	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-8
FCU-5901L	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901LA	10.6	42	54	23.66	41.65	TCV-5901LB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901M	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901MA	10.6	42	54	23.66	41.65	TCV-5901MB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901N	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901NA	10.6	42	54	23.66	41.65	TCV-5901NB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901P	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901PA	10.6	42	54	23.66	41.65	TCV-5901PB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901Q	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901QA	10.6	42	54	23.66	41.65	TCV-5901QB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901R	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901RA	10.6	42	54	23.66	41.65	TCV-5901RB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901S	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901SA	10.6	42	54	23.66	41.65	TCV-5901SB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901T	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901TA	10.6	42	54	23.66	41.65	TCV-5901TB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901U	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901UA	10.6	42	54	23.66	41.65	TCV-5901UB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7
FCU-5901V	BUILDING 2 NC HALLWAY	1,700	1.0	72	60	52	52	0.43	64.23	48.21	5.35	TCV-5901VA	10.6	42	54	23.66	41.65	TCV-5901VB	4.1	130	110	1.09	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	TBD	1-7

NOTES:

1. PROVIDE DUCT COLLAR ACCESSORY KIT FOR DUCTED INSTALLATION IN FIELD.
2. PROVIDE SS SECONDARY DRAIN AND DRIP PANS (FACTORY INSTALLED) WITH 3/4" SECONDARY COPPER DRAIN CONNECTION.
3. MOTORS WITH A HORSEPOWER LESS THAN OR EQUAL TO 5 HP SHALL BE ECM, AND MOTORS THAT ARE ABOVE 5 HP SHALL BE VFD DRIVEN.
4. PRIMARY AND SECONDARY COILS TO BE FACTORY-INSTALLED. PROVIDE RA PLENUM (NO CABINET).
5. PROVIDE RUBBER-IN-SHEAR (RIS) VIBRATION ISOLATION ELEMENTS FOR EXTERNAL FIELD MOUNTING.
6. FC OVER-SIZED FOR AIR FLOW CAPACITY (6ACH). COIL DATA IS FOR SCHEDULED AIRFLOWS.
7. PROVIDE WITH MERV-13 AIR FILTER.
8. PROVIDE WITH MERV-15 FINAL AIR FILTERS AFTER ALL INTERNAL COMPONENTS.

BUILDING 2 EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	CFM	S.P. (IN. WG.)	DRIVE	OPERATING BHP	MOTOR (HP)	V/Ø/Hz	FLA	WEIGHT (LBS)	DRIVE	NOTES
FAN-5901AEX	NC-HALLWAY 2-200, JANITOR'S CLOSET 6-203	CENTRIFUGAL	UPBLAST	GREENHECK	G-200-VG	3,585	1	DIRECT	1.14	2	460/3/60	4.7	108	ECM	1, 2
FAN-5901BEX	CNC HALLWAY 2-102	CENTRIFUGAL	UPBLAST	GREENHECK	G-200-VG	3,130	1	DIRECT	0.98	2	460/3/60	4.7	108	ECM	1, 2

NOTES:

1. ALL FANS TO HAVE LOCAL SERVICE DISCONNECT, AND BACKDRAFT DAMPER.
2. ALL FANS WITH AN ECM MOTOR TO HAVE FACTORY SUPPLIED SPEED CONTROLLER.
3. VFD SHALL BE MODEL ACH580 MANUFACTURED BY ABB.

HOLD

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08 Feb 2023

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HVAC SCHEDULES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING: CONC002	LEVEL/FLOOR
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6068
CRITICAL QUALITY: NO		ENTERPRISE GROUP: UTILITIES	DRAWING INTENTION	DRAWING SCALE
CRITICAL BUSINESS: NO		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC002-MJ-00000600	
NON-CRITICAL: YES		ENGINEERING AGENCY DOC ID		

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BUILDING 4 AND 6 DOAS AIR HANDLING UNIT SCHEDULE

MARK	SERVES	LOCATION	AIR SIDE		PREHEAT COIL INFO							HUMIDIFIER INFO					COOLING COIL INFO										ELECTRICAL	BASIS OF DESIGN			NOTES
			SUPPLY FAN CFM	SUPPLY FAN ESP (IN WC)	EDB (°F)	LDB (°F)	TMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	ENT GPP	LVG GPP	VALVE NUMBER	STEAM SUPPLY PRESS. (PSIG)	STEAM LB/HR	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TMBH	SMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	VOLT-Ø-HZ	MAKE	MODEL	WEIGHT	
AHU-4900	BUILDING 4 AND 6 OUTDOOR AIR	BUILDING 4 PENTHOUSE	38,000	2.50	14.40	55.00	1,664.20	TCV-4900AC	170.00	130.00	110.00	6.50	42.00	YV-4900PH	50.00	925.03	88.30	77.40	46.00	46.00	4,011.11	1,733.86	TCV-4900BC	664.00	42.00	54.00	460/3/60	BUFFALO	CUSTOM	33,048 LBS DRY	1-7

NOTES:

1. SUPPLY FAN VFD'S AND AHU CONTROL PANELS TO BE LOCALLY MOUNTED AT EACH UNIT.
2. NO PROPYLENE GLYCOL WILL BE USED IN CHILLED WATER OR HEATING HOT WATER SYSTEM.
3. ALL AHU'S ELECTRICAL POWER SHALL BE SINGLE POINT WITH DISCONNECT SWITCH.
4. ALL AHU'S TO HAVE BASE RAILS ALONG THEIR FULL LENGTH.
5. ALL AHU'S TO HAVE MARINE GRADE INTERIOR LED LIGHTING WITH MANUAL TIMER SWITCH.
6. UNIT IS TO HAVE A TYPE 304L STAINLESS STEEL STEAM DISPERSION GRID FROM THE FACTORY.
7. REFER TO INDOOR CUSTOM MECHANICAL AIR HANDLING UNITS SPECIFICATION 237313 AND INDOOR SEMI CUSTOM MODULAR AIR HANDLING UNITS SPECIFICATION 237314 FOR ADDITIONAL INFORMATION.

NEW EQUIPMENT NUMBER	AREA SERVED	AIR SIDE								CAPACITY			CHILLED WATER COIL					REHEAT COIL						ELECTRICAL					BASIS OF DESIGN		NOTES
		CFM DESIGN	ESP (IN. WG)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	MAX P.D. (IN. WG)	TEMPERATURE TRANSMITTER	TMBH	SMBH	TONS	GPM	EWT (°F)	LWT (°F)	CONTROL VALVE	MAX PD (FT. WC)	MBH	GPM	EWT (°F)	LWT (°F)	CONTROL VALVE	MAX PD (FT. WC)	DRIVE	MOTOR (HP)	MCA	V/ø/Hz	VFD	MANUFACTURER	MODEL	
FCU-4941D	BUILDING 4 CNC STAIRWELL 4-ST2.2	2,200	1.0	72	60	52	52	0.65	TT-4941D	60.9	50.95	5.08	10.7	42	54	TCV-4941DA	10	47.78	4.8	130	110	TCV-4941DB	10	DIRECT	TBD	7	460/3/60	TBD	DAIKIN	BCHE0301	1-7
FCU-4940C	BUILDING 4 NON-CNC STAIRWELL 4-ST1.2	1,400	1.0	72	60	52	52	0.65	TT-4941C	37.6	31.61	3.13	5.3	42	54	TCV-4940CA	10	32.03	3.1	130	110	TCV-4940CB	10	DIRECT	TBD	7	460/3/60	TBD	DAIKIN	BCHE0301	1-6
FCU-4940D	BUILDING 4 2ND FLOOR ELEC. ROOM 4-217	1,800	1.0	72	60	52	52	0.65	TT-4217A	48.98	40.87	4.08	6.8	42	54	TCV-4940D	10	NA	NA	NA	NA	NA	NA	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	BCHE0301	1-6
FCU-4940E	BUILDING 4 2ND FLOOR ELEC., MCC, AND UPS ROOMS 4-218	4,500	1.0	72	60	52	52	0.65	TT-4218A	115.01	99.00	9.58	16.9	42	54	TCV-4940E	10	NA	NA	NA	NA	NA	NA	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	BCHE0501	1-6
FCU-4940F	BUILDING 4 2ND FLOOR MECHANICAL ROOM 4-216	1,200	1.0	72	60	52	52	0.65	TT-4216A	32.94	27.47	2.74	4.5	42	54	TCV-4940FA	10	26.59	2.6	130	110	TCV-4940FB	10	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	BCHE0301	1-6
FCU-4940A	BUILDING 4 PENTHOUSE 4-10000	17,000	1.0	72	60	52	52	0.65	TT-410000A	436.51	374.95	36.38	63.8	42	54	TCV-4940AA	10	383.71	37.3	130	110	TCV-4940AB	10	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	CAH037GDGM	1-5, 8
FCU-4940B	BUILDING 4 PENTHOUSE 4-10000	17,000	1.0	72	60	52	52	0.65	TT-410000B	436.51	374.95	36.38	63.8	42	54	TCV-4940BA	10	383.71	37.3	130	110	TCV-4940BB	10	DIRECT	TBD	TBD	460/3/60	TBD	DAIKIN	CAH037GDGM	1-5, 8
FCU-4941E	BUILDING 4 CNC STAIRWELL 4-ST3.2	2,200	1.0	72	60	52	52	0.65	TT-4941E	60.9	50.95	5.08	10.7	42	54	TCV-4941EA	10	47.78	4.8	130	110	TCV-4941EB	10	DIRECT	TBD	7	460/3/60	TBD	DAIKIN	BCHE0301	1-7

NOTES:

1. PROVIDE DUCT COLLAR ACCESSORY KIT FOR DUCTED INSTALLATION IN FIELD.
2. PROVIDE SS SECONDARY DRAIN AND DRIP PANS (FACTORY INSTALLED) WITH 3/4" SECONDARY COPPER DRAIN CONNECTION.
3. MOTORS WITH A HORSEPOWER LESS THAN OR EQUAL TO 3 HP SHALL BE ECM, AND MOTORS THAT ARE 5 HP AND ABOVE SHALL BE VFD DRIVEN.
4. PRIMARY AND SECONDARY COILS TO BE FACTORY-INSTALLED. PROVIDE RA PLENUM (NO CABINET).
5. PROVIDE RUBBER-IN-SHEAR (RIS) VIBRATION ISOLATION ELEMENTS FOR EXTERNAL FIELD MOUNTING.
6. PROVIDE WITH MERV-8 PRE AND MERV-13 POST FILTERS.
7. PROVIDE WITH MERV-15 FINAL FILTERS AFTER ALL INTERNAL COMPONENTS.
8. PROVIDE WITH MERV-8 FILTERS.

BUILDING 4 ELECTRIC HEATER SCHEDULE

MARK	SERVING	BASIS OF DESIGN		HEATING COIL DATA				BASIC INFORMATION				NOTES
		MAKE	MODEL	CFM (MAX)	CFM (MIN)	MBH (HIGH)	MBH (LOW)	TYPE	VOLTAGE	PHASE	FLA	
UH-4971	BUILDING 4 - RISER ROOM	MARKEL	63T46C084833BSSCM0L	500	460	13.64	6.82	WALL MOUNT	480	3	11.7	1-6

NOTES:

1. ELECTRIC WALL HEATER TO HAVE FRONT RETURN AND TOP SUPPLY AIR.
2. CABINET SIZE SHALL BE 46" WIDE.
3. ELECTRIC WALL HEATER TO HAVE BUILT IN TWO STAGE THERMOSTAT AND RELAYS OPERATED BY AN INTERANL 24 VOLT POWER SOURCE.
4. ELECTRIC WALL HEATER TO HAVE SUMMER FAN SWITCH.
5. ELECTRIC WALL HEATER TO HAVE FACTORY MOUNTED INTERNAL CIRCUIT BREAKER.
6. ELECTRIC WALL HEATER TO HAVE FUSED BLOWER MOTOR AND LOCKABLE FRONT COVER.

BUILDING 4 ADJUSTABLE SPEED DRIVE SCHEDULE

EQUIPMENT TAG	EQUIPMENT SERVED	COMPONENT SERVED	CONTROLLING INPUT	HORSEPOWER	ELECT V/Ø/Hz	EXPECTED OPERATING RANGE (CFM)	EXPECTED OPERATING FREQUENCY	BASIS OF DESIGN	NOTES
SIC-4900SA	AHU-4900	SUPPLY FAN	SUPPLY AIR FLOW	60	460/3/60	38,000	56	ABB ACH580	DIRECT DRIVE
SIC-4901SA	AHU-4901	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4901RA	AHU-4901	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4902SA	AHU-4902	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4902RA	AHU-4902	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4903SA	AHU-4903	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4903RA	AHU-4903	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4904SA	AHU-4904	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4904RA	AHU-4904	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4905SA	AHU-4905	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4905RA	AHU-4905	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4906SA	AHU-4906	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	55,000	55	ABB ACH580	DIRECT DRIVE
SIC-4906RA	AHU-4906	RETURN FAN	RETURN AIR FLOW	50	460/3/60	49,500	53	ABB ACH580	DIRECT DRIVE
SIC-4907SA	AHU-4907	SUPPLY FAN	SUPPLY AIR FLOW	100	460/3/60	48,000	52	ABB ACH580	DIRECT DRIVE
SIC-4907RA	AHU-4907	RETURN FAN	RETURN AIR FLOW	40	460/3/60	44,000	51	ABB ACH580	DIRECT DRIVE
SIC-4910SA	AHU-4910	SUPPLY FAN	SUPPLY AIR FLOW	125	460/3/60	61,500	52	ABB ACH580	DIRECT DRIVE
SIC-4910RA	AHU-4910	RETURN FAN	RETURN AIR FLOW	75	460/3/60	62,730	54	ABB ACH580	DIRECT DRIVE
SIC-4911SA	AHU-4911	SUPPLY FAN	TOTAL AIR FLOW	15	460/3/60	5,000	55	ABB ACH580	DIRECT DRIVE
SIC-4956SA	FCU-4956	SUPPLY FAN	TOTAL AIR FLOW	20	460/3/60	17,000	60	ABB ACH580	DIRECT DRIVE
SIC-4957SA	FCU-4957	SUPPLY FAN	TOTAL AIR FLOW	20	460/3/60	17,000	60	ABB ACH580	DIRECT DRIVE
SIC-EF4900	EF-4900	EXHAUST FAN	ROOM AIR PRESSURE	10	460/3/60	38,000	60	ABB ACH580	DIRECT DRIVE

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NORTH CAROLINA PROFESSIONAL SEAL 040718 ENGINEER ANDREW T. NEILL

08 Feb 2023

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HVAC SCHEDULES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-6070
CRITICAL QUALITY: NO		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE
CRITICAL BUSINESS: NO		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO		VENDOR	DOCUMENT ID: CONC004-MJ-00000600	
NON-CRITICAL: YES		ENGINEERING AGENCY DOC ID		

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BUILDING 4 AIR HANDLING UNIT SCHEDULE

MARK	SERVES	LOCATION	AIR SIDE				COOLING COIL INFO										ELECTRICAL	BASIS OF DESIGN			NOTES
			SUPPLY FAN CFM	SUPPLY FAN ESP (IN WC)	RETURN FAN CFM	RETURN FAN ESP (IN WC)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TMBH	SMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	VOLT-Ø-HZ	MAKE	MODEL	WEIGHT	
AHU-4901	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4901CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4902	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4902CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4903	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4903CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4904	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4904CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4905	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4905CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4906	PROCESS AREA	BUILDING 4 PENTHOUSE	55,000.00	2.50	49,500.00	2.00	72.00	60.00	46.00	46.00	2,097.34	1,575.21	TCV-4906CC	342.70	42.00	54.00	460/3/60	BUFFALO	CUSTOM	49,055 LBS	1-7
AHU-4907	OFFICES / SUPPORT AREA	BUILDING 4 PENTHOUSE	48,000.00	2.50	44,000.00	2.00	75.00	63.10	50.30	49.50	1,852.15	1,298.50	TCV-4907CC	301.40	42.00	54.00	460/3/60	BUFFALO	CUSTOM	39,113 LBS	1-7

NOTES:

1. SUPPLY FAN VFD'S AND AHU CONTROL PANELS TO BE LOCALLY MOUNTED AT EACH UNIT.
2. NO PROPYLENE GLYCOL WILL BE USED IN CHILLED WATER OR HEATING HOT WATER SYSTEM.
3. ALL AHU'S ELECTRICAL POWER SHALL BE SINGLE POINT WITH DISCONNECT SWITCH.
4. ALL AHU'S TO HAVE BASE RAILS ALONG THEIR FULL LENGTH.
5. ALL AHU'S TO HAVE MARINE GRADE INTERIOR LED LIGHTING WITH MANUAL TIMER SWITCH.
6. AHU'S TO HAVE MERV-8 PREFILTER, MERV-13 INTERMEDIATE FILTER, AND MERV-15 FINAL FILTER.
7. REFER TO INDOOR CUSTOM MECHANICAL AIR HANDLER UNITS SPECIFICATION 237313 AND INDOOR SEMI CUSTOM MODULAR AIR HANDLING UNITS SPECIFICATION 237314 FOR ADDITIONAL INFORMATION.

BUILDING 4 REHEAT COIL SCHEDULE

MARK	CFM	MAX. FACE VEL. (FPM)	MAX AIR PD (IN. W.G.)	EDB (°F)	LDB (°F)	MBH	VALVE NUMBER	MAX WATER PD (FT. W.G.)	EWT (°F)	LWT (°F)	BASE SIZE	BASIS OF DESIGN	ROWS	PIPE SIZE (IN.)	NOTES
RHC 4901A	10,740	700	0.2	46	66	232	TCV-4901A	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4901B	10,740	700	0.2	46	66	232	TCV-4901B	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4901C	12,000	700	0.2	46	66	259.2	TCV-4901C	5	130	110	48"X55"	MODINE / HEATCRAFT	2	2	1-2
RHC 4901D	10,740	700	0.2	46	66	232	TCV-4901D	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4902A	13,500	700	0.2	46	66	291.6	TCV-4902A	5	130	110	48"X60"	MODINE / HEATCRAFT	2	2	1-2
RHC 4902B	10,740	700	0.2	46	66	232	TCV-4902B	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4902C	7,230	700	0.2	46	66	156.2	TCV-4902C	5	130	110	48"X32"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4902D	12,810	700	0.2	46	66	276.7	TCV-4902D	5	130	110	48"X58"	MODINE / HEATCRAFT	2	2	1-2
RHC 4903A	5,660	700	0.2	46	66	122.3	TCV-4903A	5	130	110	36"X36"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4903B	5,660	700	0.2	46	66	122.3	TCV-4903B	5	130	110	36"X36"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4903C	11,580	700	0.2	46	66	250.1	TCV-4903C	5	130	110	48"X52"	MODINE / HEATCRAFT	2	2	1-2
RHC 4903D	5,660	700	0.2	46	66	122.3	TCV-4903D	5	130	110	36"X36"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4904A	9,200	700	0.2	46	66	198.7	TVC-4904A	5	130	110	48"x40"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4904B	10,740	700	0.2	46	66	232	TVC-4904B	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4904C	10,740	700	0.2	46	66	232	TVC-4904C	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4904D	13,740	700	0.2	46	66	296.8	TVC-4904D	5	130	110	48"x60"	MODINE / HEATCRAFT	2	2	1-2
RHC 4905A	13,980	700	0.2	46	66	302	TCV-4905A	5	130	110	48"x62"	MODINE / HEATCRAFT	2	2	1-2
RHC 4905B	10,740	700	0.2	46	66	232	TCV-4905B	5	130	110	48"X48"	MODINE / HEATCRAFT	2	2	1-2
RHC 4905C	8,460	700	0.2	46	66	182.7	TCV-4905C	5	130	110	48"X38"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4905D	13,540	700	0.2	46	66	292.5	TCV-4905D	5	130	110	48"X60"	MODINE / HEATCRAFT	2	2	1-2
RHC 4906A	6,320	700	0.2	46	66	136.5	TCV-4906A	5	130	110	42"X32"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4906B	6,320	700	0.2	46	66	136.5	TCV-4906B	5	130	110	42"X32"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4906C	7,320	700	0.2	46	66	158.1	TCV-4906C	5	130	110	48"X54"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4906D	6,320	700	0.2	46	66	136.5	TCV-4906D	5	130	110	42"X32"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4101A	2,100	700	0.2	46	71	56.7	TCV-4101A	5	130	110	24"X20"	MODINE / HEATCRAFT	2	1	1-2
RHC 4101B	2,700	700	0.2	46	71	72.9	TCV-4101B	5	130	110	24"X24"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4101C	700	700	0.2	46	71	18.9	TCV-4101C	5	130	110	12"X13"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4102	200	700	0.2	46	71	5.4	TCV-4102	5	130	110	7"X6"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4103	450	700	0.2	46	71	12.2	TCV-4103	5	130	110	12"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4107	800	700	0.2	46	71	21.6	TCV-4107	5	130	110	14"X12"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4108	200	700	0.2	46	71	5.4	TCV-4108	5	130	110	7"X6"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4110	350	700	0.2	46	71	9.5	TCV-4110	5	130	110	10"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4112	2,500	700	0.2	46	71	67.5	TCV-4112	5	130	110	24"X24"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4114	200	700	0.2	46	71	5.4	TCV-4114	5	130	110	7"X6"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4113A	500	700	0.2	46	71	13.5	TCV-4113A	5	130	110	12"X9"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4113B	2,000	700	0.2	46	71	54	TCV-4113B	5	130	110	24"X18"	MODINE / HEATCRAFT	2	1	1-2
RHC 4113C	1,800	700	0.2	46	71	48.6	TCV-4113C	5	130	110	21"X18"	MODINE / HEATCRAFT	2	1	1-2
RHC 4122A	800	700	0.2	46	71	21.6	TCV-4122A	5	130	110	14"X12"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4122B	2,000	700	0.2	46	71	54	TCV-4122B	5	130	110	24"X18"	MODINE / HEATCRAFT	2	1	1-2
RHC 4118	450	700	0.2	46	71	12.2	TCV-4118	5	130	110	12"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4117	600	700	0.2	46	71	16.2	TCV-4117	5	130	110	12"X11"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4115	250	700	0.2	46	71	6.8	TCV-4115	5	130	110	8"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4121	1,100	700	0.2	46	71	29.7	TCV-4121	5	130	110	16"X16"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4124	700	700	0.2	46	71	18.9	TCV-4124	5	130	110	13.5"X12"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4120B	2,500	700	0.2	46	71	67.5	TCV-4120B	5	130	110	24"X24"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4120F	350	700	0.2	46	71	9.5	TCV-4120F	5	130	110	10"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4123B	2,450	700	0.2	46	71	66.2	TCV-4123B	5	130	110	24"X24"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4123F	350	700	0.2	46	71	9.5	TCV-4123F	5	130	110	9"X9"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4211A	850	700	0.2	46	71	23	TCV-4211A	5	130	110	14"X13"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4211B	2,100	700	0.2	46	71	56.7	TCV-4211B	5	130	110	24"X19"	MODINE / HEATCRAFT	2	1	1-2
RHC 4211C	2,700	700	0.2	46	71	72.9	TCV-4211C	5	130	110	24"X24"	MODINE / HEATCRAFT	2	1.5	1-2
RHC 4212	800	700	0.2	46	71	21.6	TCV-4212	5	130	110	14"X12"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4202	200	700	0.2	46	71	5.4	TCV-4202	5	130	110	7"X6"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4203	450	700	0.2	46	71	12.2	TCV-4203	5	130	110	12"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4207	800	700	0.2	46	71	21.6	TCV-4207	5	130	110	14"X12"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4208	200	700	0.2	46	71	5.4	TCV-4208	5	130	110	7"X6"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4210	350	700	0.2	46	71	9.5	TCV-4210	5	130	110	10"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4213A	400	700	0.2	46	71	10.8	TCV-4213A	5	130	110	12"X8"	MODINE / HEATCRAFT	2	0.75	1-2
RHC 4213B	1,100	700	0.2	46	71	29.7	TCV-4213B	5	130	110	15"X14"	MODINE / HEATCRAFT	2	0.75	1-2
TOTAL DUCT MOUNTED REHEAT COIL HOT WATER LOAD						**955.2**									

NOTES:

1. ALL REHEAT COILS TO HAVE A TWO WAY CONTROL VALVE, CIRCUIT SETTER, AND STRAINER (BY CONTROLS CONTRACTOR).
2. HEATING HOT WATER LOOP IS 100% WATER WITH NO GLYCOL.

GRILLE AND DIFFUSER SCHEDULE ALL BUILDINGS

TAG	DESCRIPTION	SYSTEM	MANUFACTURER	MODEL	MATERIAL	INSULATION	FINISH	SLOTS/PATTERN	PANEL SIZE	NECK SIZE	BALANCING DAMPER	MAX. PD (IN. WG)	MAX. NC	NOTES
A	SQUARE DIFFUSER	SUPPLY	ANEMOSTAT	EPLA/E1-A	ALUMINUM	FIELD APPLIED	WHITE	4-WAY	24"x24"	SEE PLANS	IN DUCT	0.15	30	1, 2
B	LINEAR SLOT DIFFUSER	SUPPLY	ANEMOSTAT	SLAD-75	ALUMINUM	FIELD APPLIED	WHITE	2 SLOTS 3/4"	48" WIDE	SEE PLANS	IN DUCT	0.15	25	1, 2
C	LOUVERED SUPPLY GRILL	SUPPLY	ANEMOSTAT	10/20	ALUMINUM	NA	WHITE	DOUBLE DEFLECTION 3/4" SPACING	SEE PLANS	NA	IN DUCT	0.15	30	1, 3
D	CEILING RETURN GRILL	RETURN	ANEMOSTAT	35-0/AC35-0/GC5	ALUMINUM	NA	WHITE	3/4" SPACING AT 45 DEG.	24"x24"	SEE PLANS	IN DUCT	0.15	30	1-4
E	LOW WALL RETURN GRILL	RETURN	ANEMOSTAT	550 H	STAINLESS STEEL	NA	NA	3/4" SPACING AT 45 DEG.	SEE PLANS	NA	IN DUCT	0.15	30	1, 3

NOTES:

1. VENDOR AND CONTRACTOR SHALL COORDINATE ON CEILING, DUCT, AND WALL TYPES AND PROVIDE APPROPRIATE MOUNTING HARDWARE AND TRIM.
2. REFER TO PLANS FOR NECK SIZE.
3. LOUVER BLADES SHALL BE PARALLEL TO THE FLOOR AND ORIENTED SO THAT YOU CANNOT SEE INTO THE GRILLE.
4. ADJUST DIFFUSERS IN CEILINGS OVER 10' TO BLOW DOWN, EXCEPT OVER DESIGNATED WORK AREAS TO AVOID DRAFTS.

BG&K

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040778 ANDREW T. NEILL

08 Feb 2023

Lilly

1420 CONCORD PKWY S
CONCORD, NC 28027

HVAC SCHEDULES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
2		ISSUED FOR CONSTRUCTION		08-FEB-2023
1		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

REVISIONS

CONFIDENTIAL INFORMATION

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	PROJECT NAME: CONC-300-6070
CRITICAL BUSINESS: NO	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	DRAWING SCALE
CRITICAL HSE: NO	VENDOR		MERIDIAN REV
NON-CRITICAL: YES	ENGINEERING AGENCY DOC ID	DOCUMENT ID: CONC004-MJ-00000601	

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BUILDING 4 SPECIALTY FAN COIL UNIT SCHEDULE

EQUIPMENT NUMBER	AREA SERVED	AIR SIDE						CHILLED WATER COIL CAPACITY			VALVE NUMBER	CHILLED WATER COIL FLOW DATA						DX EVAPORATOR COIL CAPACITY					CONDENSER #	ELECTRICAL					BASIS OF DESIGN		NOTES
		CFM	UNIT WEIGHT (LBS)	ESP (IN. WG)	EDB (°F)	EWB (°F)	LDB (°F)	TMBH (NET)	SMBH (NET)	TONS		GPM	EWT (°F)	LWT (°F)	PD (FT. WC)	CHW CONN. SIZE	CONTROL VALVE	TMBH	SMBH	TONS	REFRIG. TYPE	REHEAT		DRIVE	V/Ø/Hz	FLA	MCA	MOCP	MANUFACTURER	MODEL	
FCU-4941A	BUILDING 4 2ND FLOOR MDF ROOM	10,000	2,250	0.75	72	60	54.2	225.9	207.80	18.83	TCV-4941A	30.00	42	55.6	9.7	1 5/8" OD (S+R)	2 WAY	205.90	177.80	17.16	R410-A	NA	CU-4941A	DIRECT / ECM	460/3/60	41.3	45.00	50	ABOVE AIR	MCE-063D-4-00-000-EC-DC-UFO-C2-D1	1-9
FCU-4941B	BUILDING 4 2ND FLOOR DATA CENTER	9,000	1,950	1.00	72	60	53.7	182.9	175.00	15.24	TCV-4941B	34.00	42	53.4	12.1	1 5/8" OD (S+R)	2 WAY	166.10	146.80	13.84	R410-A	NA	CU-4941B	DIRECT / ECM	460/3/60	36.2	39.20	50	ABOVE AIR	MCE-053D-4-00-000-EC-DC-DFB-B2-D1	1-9
FCU-4941C	BUILDING 4 2ND FLOOR DATA CENTER	9,000	1,950	1.00	72	60	53.7	182.9	175.00	15.24	TCV4941C	34.00	42	53.4	12.1	1 5/8" OD (S+R)	2 WAY	166.10	146.80	13.84	R410-A	NA	CU-4941C	DIRECT / ECM	460/3/60	36.2	39.20	50	ABOVE AIR	MCE-053D-4-00-000-EC-DC-DFB-B2-D1	1-9

NOTES:

1. PROVIDE DUCT COLLAR ACCESSORY KIT FOR DUCTED INSTALLATION IN FIELD.
2. PROVIDE SS SECONDARY DRAIN AND DRIP PANS (FACTORY INSTALLED) WITH 3/4" SECONDARY COPPER DRAIN CONNECTION.
3. EVAPORATOR AND CONDENSER FAN MOTORS SHALL BE ECM DIRECT DRIVE TYPE.
4. PRIMARY AND SECONDARY COILS TO BE FACTORY-INSTALLED. PROVIDE RA PLENUM (NO CABINET).
5. PROVIDE RUBBER-IN-SHEAR (RIS) VIBRATION ISOLATION ELEMENTS FOR EXTERNAL FIELD MOUNTING.
6. PROVIDE WITH MERV-13 AIR FILTERS.
7. PROVIDE INDOOR UNIT WITH CHILLED WATER AND EMERGENCY DX EVAPORATOR COILS FOR BACK-UP COOLING.
8. SPECIALTY FAN COILS ARE TO HAVE MATCHED DX CONDENSER INSTALLED ON ROOF ABOVE THE FAN COIL. SEE THE DX CONDENSER SCHEDULE FOR MORE INFORMATION.
9. INDOOR UNITS DO NOT INCLUDE STEAM HUMIDIFIER, HOT GAS REHEAT, OR HEATING SECTION.

BUILDING 4 SPECIALTY SPLIT SYSTEM CONDENSER SCHEDULE

MARK	SUMMER AMBIENT DB	SUMMER AMBIENT WB	WEIGHT (LBS)	REFRIG. TYPE	LIQUID LINE CONN. SIZE	SUCTION LINE CONN. SIZE	HEAT REJECTION (MBH)	CFM	MOTOR TYPE	FAN SPEED	FAN QUANTITY	V/Ø/Hz	FLA	MCA	MOCP	MANUFACTURER	MODEL	INDOOR UNIT MARK	
CU-4941A	95 DB (°F)	78 WB (°F)	1,350	R-410A	1/2" O.D. (QTY-2)	1-3/8" O.D. (QTY-2)	278.5	13,000	AXIAL FAN	VARIABLE (ECM)	2	460/3/60	2.00	2.5	15	ABOVE AIR	XPX-063D-4-EC-VF-1-00-B	FCU-4941A	1-5
CU-4941B	95 DB (°F)	78 WB (°F)	1,350	R-410A	1/2" O.D. (QTY-2)	7/8" O.D. (QTY-2)	222.6	13,000	AXIAL FAN	VARIABLE (ECM)	2	460/3/60	2.00	2.5	15	ABOVE AIR	XPX-053D-4-EC-VF-1-00-B	FCU-4941B	1-5
CU-4941C	95 DB (°F)	78 WB (°F)	1,350	R-410A	1/2" O.D. (QTY-2)	7/8" O.D. (QTY-2)	222.6	13,000	AXIAL FAN	VARIABLE (ECM)	2	460/3/60	2.00	2.5	15	ABOVE AIR	XPX-053D-4-EC-VF-1-00-B	FCU-4941C	1-5

NOTES:

1. INSTALL INVERTED LIQUID LINE TRAP AT ROOF TOP CONDENSER THAT IS TALLER THAN THE TOP OF THE CONDENSER COIL.
2. INSTALL SUCTION LINE OIL TRAP AT THE INDOOR UNIT.
3. INDOOR UNIT TO HAVE ONE FIXED SPEED AND ONE DIGITAL SCROLL COMPRESSOR.
4. ALL REFRIGERANT LINES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NC MECHANICAL CODE.
5. SUCTION REFIRGERANT LINES SHALL BE INSULATED IN ACCORDNACE WITH THE LATEST VERSION OF NC MECHANICAL AND ENERGY CODE REQUIREMENTS.

BUILDING 4 STEAM CONDENSATE PUMP SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	GPM	FEET OF HEAD	MOTIVE COMPRESSED AIR PRESSURE	BACK PRESSURE	MAX OPERATING COND.	MATERIAL	MANUFACTURER	MODEL NUMBER	NOTES
X-4620A	B-4 PENTHOUSE	STEAM/CONDENSATE	DUPLEX AIR-POWERED CONDENSATE PUMP PACKAGE	10.8	34.7	80 PSIG	15 PSIG	200 PSIG @ 388 F	CAST IRON	WATSON MCDANIEL	PMPM	1, 2

NOTES:

1. WITH CUST 8X36 RECEIVER (MAX OPERATING COND. OF 150 PSIG @ 550 F)
2. THE PRE PACKAGED SYSTEM PRESSURE MOTIVE PUMPS SHALL USE COMPRESSED AIR AS THE MOTIVE FORCE.

BUILDING 4 EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	CFM	S.P. (IN. WG.)	DRIVE	OPERATING BHP	MOTOR (HP)	V/Ø/Hz	FLA	WEIGHT (LBS)	DRIVE	NOTES
FAN-4940AEX	PENTHOUSE 10000	WALL PROP	WALL MOUNT	GREENHECK	AER-54-03-0320-VG	28,963	0.2	DIRECT	5.60	10	460/3/60	14	408	VFD	1, 3
FAN-4927AEX	MEN'S LOCKERROOM 4-123B, RESTROOM 4-123C, SHOWERS 4-123F	CENTRIFUGAL	UPBLAST	GREENHECK	CUE-160-VG	2,700	1	DIRECT	0.82	2	460/3/60	3.2	103	ECM	1, 2
FAN-4927BEX	WOMEN'S LOCKERROOM 4-120B, RESTROOM 4-120C, SHOWERS 4-120F, JANITOR'S CLOSET 4-119, JANITOR'S CLOSET 4-219, ELECTRICAL ROOM 4-217	CENTRIFUGAL	UPBLAST	GREENHECK	CUE-160-VG	3,035	1	DIRECT	0.82	2	460/3/60	3.2	103	ECM	1, 2

NOTES:

1. ALL FANS TO HAVE LOCAL SERVICE DISCONNECT, AND BACKDRAFT DAMPER.
2. ALL FANS WITH AN ECM MOTOR TO HAVE FACTORY SUPPLIED SPEED CONTROLLER.
3. VFD SHALL BE MODEL ACH580 MANUFACTURED BY ABB.

BUILDING 4 LOUVER SCHEDULE

MARK	DESCRIPTION	SYSTEM	MATERIAL	FINISH	SLOTS/PATTERN	HxWxD (IN.)	VOLUME (CFM)	MAX. PD (IN. WG)	MANUFACTURER	MODEL NUMBER	QUANTITY	NOTES
LVR-4900	6 INCH DRAINABLE BLADE LOUVER	OUTDOOR AIR	ALUMINUM	AAMA 2604	6" HORIZONTAL	96x96x6	38000	0.15	GREENHECK	ESD-635-96x96	1	1, 2
LVR-4911	6 INCH DRAINABLE BLADE LOUVER	OUTDOOR AIR	ALUMINUM	AAMA 2604	6" HORIZONTAL	22x18x6	635	0.15	GREENHECK	ESD-635-22x18	1	1, 2

NOTES:

1. VENDOR AND CONTRACTOR SHALL COORDINATE TYPES AND PROVIDE APPROPRIATE MOUNTING HARDWARE AND TRIM.
2. LOUVER BLADES SHALL BE PARALLEL TO THE FLOOR AND ORIENTED SO THAT YOU CANNOT SEE INTO THE GRILLE.

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08 Feb 2023

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HVAC SCHEDULES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
3		ISSUED FOR CONSTRUCTION		08-FEB-2023
2		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING: CONC004	LEVEL/FLOOR
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-6070			
CRITICAL QUALITY: NO	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE
CRITICAL BUSINESS: NO	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: NO	VENDOR	DOCUMENT ID: CONC004-MJ-00000602	
NON-CRITICAL: YES	ENGINEERING AGENCY DOC ID		

Autodesk Docs://Eli Lilly - Concord Facility/LillyCON_246_CDOC_HIPP_v22.rvt

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BUILDING 6 ACCLIMATION ROOM AIR HANDLING UNIT SCHEDULE

IDENTIFICATION			AIR SIDE				DESSICANT WHEEL (PROCESS SIDE)								REGENERATION HEATING COILS							POST COOLING COIL INFO											POST-HEATING COIL INFO								ELECTRICAL	BASIS OF DESIGN				NOTES
MARK	SERVES	LOCATION	SUPPLY FAN CFM	SUPPLY FAN ESP (IN WC)	REGEN. FAN CFM	REGEN. FAN ESP (IN WC)	EDB (°F)	ENT. GPP	LDB (°F)	LVG. GPP	CFM WHEEL	CFM BYPASS	MIXED AIR LDB (°F)	MIXED AIR LVG GPP	MOISTURE REMOVAL LB/HR	EDB (°F)	LDB (°F)	REGEN. CFM	STEAM LOAD (LB/HR)	REGEN. AIR LVG (°F)	TMBH	VALVE NUMBER	HEAT SOURCE	CFM	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TMBH	SMBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	CFM	EDB (°F)	LDB (°F)	MBH	VALVE NUMBER	GPM	EWT (°F)	LWT (°F)	VOLT-Ø-HZ	MAKE	MODEL	WEIGHT	
AHU-4911	BUILDING 6 ACCLIMATION ROOM	BUILDING 4 PENTHOUSE	5,000	2.00	653	TBD	66.00	31.60	167.00	3.10	2,220	2,780	81.00	18.90	40.80	66.00	273.00	660	153.60	167	227.70	TCV-4911AC	STEAM @ 125 PSIG	5,000	81.00	53.10	52.90	41.00	158.80	158.20	TCV-4911CC	26.00	42.00	54.00	5,000	52.00	72.00	108.00	TCV-4911HC	11.00	130.00	110.00	460/3/60	BUFFALO / MUNTERS	CUSTOM	7,509 LBS	1-7

NOTES:

1. SUPPLY FAN VFD'S AND AHU CONTROL PANELS TO BE LOCALLY MOUNTED AT EACH UNIT.
2. NO PROPYLENE GLYCOL WILL BE USED IN CHILLED WATER OR HEATING HOT WATER SYSTEM.
3. ALL AHU'S ELECTRICAL POWER SHALL BE SINGLE POINT WITH DISCONNECT SWITCH.
4. ALL AHU'S TO HAVE BASE RAILS ALONG THEIR FULL LENGTH.
5. ALL AHU'S TO HAVE MARINE GRADE INTERIOR LED LIGHTING WITH MANUAL TIMER SWITCH.
6. AHU TO...
7. REFER TO INDOOR MECHANICAL AIR HANDLING UNITS SPECIFICATION 2373131 AND INDOOR SEMI CUSTOM MODULAR AIR HANDLING UNITS SPECIFICATION 237314 FOR...

BUILDING 6 ELECTRIC HEATER SCHEDULE

IDENTIFICATION		BASIS OF DESIGN		HEATING COIL DATA				BASIC INFORMATION				NOTES
MARK	SERVING	MAKE	MODEL	CFM (MAX)	CFM (MIN)	MBH (HIGH)	MBH (LOW)	TYPE	VOLTAGE	PHASE	FLA	
UH-4972	BUILDING 6 - FIRE RISER ROOM	MARKEL	63T46C084833BSSCM0L	500	460	13.64	6.82	WALL MOUNT	480	3	11.7	1, 2, 3, 4, 6

NOTES:

1. ELECTRIC WALL HEATER TO HAVE FRONT RETURN AND TOP SUPPLY AIR.
2. CABINENT SIZE SHALL BE 46" WIDE.
3. ELECTRIC WALL HEATER TO HAVE BUILT IN TWO STAGE THERMOSTAT AND RELAYS OPERATED BY AN INTERNAL 24 VOLT POWER SOURCE.
4. ELECTRIC WALL HEATER TO HAVE SUMMER FAN SWITCH.
5. ELECTRIC WALL HEATER TO HAVE FACTORY MOUNTED INTERNAL CIRCUIT BREAKER.
6. ELECTRIC WALL HEATER TO HAVE FUSED BLOWER MOTOR AND LOCKABLE FRONT COVER.

BUILDING 6 LOUVER SCHEDULE

MARK	DESCRIPTION	SYSTEM	MATERIAL	FINISH	SLOTS/PATTERN	HxWxD (IN.)	VOLUME (CFM)	MAX. PD (IN. WG)	MANUFACTURER	MODEL NUMBER	QUANTITY	NOTES
LVR 6-103	6 INCH DRAINABLE BLADE LOUVER	OUTDOOR AIR	ALUMINUM	AAMA 2604	6" HORIZONTAL	22x18x6	800	0.15	GREENHECK	ESD-635-22x18	1	1, 2

NOTES:

1. VENDOR AND CONTRACTOR SHALL COORDINATE TYPES AND PROVIDE APPROPRIATE MOUNTING HARDWARE AND TRIM.
2. LOUVER BLADES SHALL BE PARALLEL TO THE FLOOR AND ORIENTED SO THAT YOU CANNOT SEE INTO THE GRILLE.

BUILDING 6 FAN COIL UNIT SCHEDULE

EQUIPMENT NUMBER	AREA SERVED	AIR SIDE								COOLING CAPACITY			CHILLED WATER COIL					REHEAT COIL						ELECTRICAL			BASIS OF DESIGN		NOTES
		CFM DESIGN	OA CFM	ESP (IN. WG)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	MAX P.D. (IN. WG)	TMBH	SMBH	TONS	VALVE NUMBERS	GPM	EWT (°F)	LWT (°F)	MAX PD (FT. WC)	MBH	VALVE NUMBERS	GPM	EWT (°F)	LWT (°F)	MAX PD (FT. WC)	DRIVE	FLA	V/ø/Hz	MANUFACTURER	MODEL	
FCU-4922A	BUILDING 6 - LEVEL 1 - LOADING DOCK 6-103	7,500	400	1.0	72.9	61.2	51.4	50.9	0.65	217.07	175.97	18.09	TCV-4922AA	35.8	42	54.1	10	175.48	TCV-4922AB	16.9	130	110	10	DIRECT	9.8	460/3/60	DAIKIN	CAH021GDGM	1-6
FCU-4922B	BUILDING 6 - LEVEL 1 - LOADING DOCK 6-103	7,500	400	1.0	72.9	61.2	51.4	50.9	0.65	217.07	175.97	16.27	TCV-4922BA	35.8	42	54.1	10	175.48	TCV-4922BB	16.9	130	110	10	DIRECT	9.8	460/3/60	DAIKIN	CAH021GDGM	1-6
FCU-4922C	BUILDING 6 - LEVEL 1 - IDF ROOM 6-102	1,600	NA	1.0	72	60	50	50	0.65	46.52	36.48	3.88	TCV-4922C	7.4	42	54	10	NA	NA	NA	NA	NA	NA	DIRECT	7	460/3/60	DAIKIN	BCHE0301	1-5
FCU-4922D	BUILDING 6 CNC STAIR SOUTH 6ST1-1	1,200	NA	1.0	72	60	52	52	0.65	32.94	27.47	2.74	TCV-4922DA	4.5	42	54	10	26.59	TCV-4922DB	2.6	130	110	10	DIRECT	7	460/3/60	DAIKIN	BCHE0301	1-5, 7

NOTES:

1. PROVIDE DUCT COLLAR ACCESSORY KIT FOR DUCTED INSTALLATION IN FIELD.
2. PROVIDE SS SECONDARY DRAIN AND DRIP PANS (FACTORY INSTALLED) WITH 3/4" SECONDARY COPPER DRAIN CONNECTION.
3. PRIMARY AND SECONDARY COILS TO BE FACTORY-INSTALLED. PROVIDE RA PLENUM (NO CABINET).
4. PROVIDE RUBBER-IN-SHEAR (RIS) VIBRATION ISOLATION ELEMENTS FOR EXTERNAL FIELD MOUNTING.
5. PROVIDE WITH MERV-8 FILTER.
6. PROVIDE LIBERTY 406-SERIES APPLIANCE GRADE DRAIN PUMP, 12 GPM @ 17 FT HEAD, 115V-1PH,WITH: FREE-STANDING ABS TANK AND CHECK VALVE (TO BE FIELD INSTALLED). PUMP SHALL BE CONTROLLED BY A "CSA & UL APPROVED VERTICAL FLOAT SWITCH."
7. PROVIDE WITH MERV-13 FILTER.

BUILDING 6 AIR HANDLING UNIT SCHEDULE

MARK	SERVES	LOCATION	AIR SIDE				COOLING COIL INFO											ELECTRICAL	BASIS OF DESIGN			NOTES
			SUPPLY FAN CFM	SUPPLY FAN ESP (IN WC)	RETURN FAN CFM	RETURN FAN ESP (IN WC)	VALVE NUMBER	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TMBH	SMBH	GPM	EWT (°F)	LWT (°F)	VOLT-Ø-HZ	MAKE	MODEL	WEIGHT	
AHU-4910	PROCESS AREA	BUILDING 4 PENTHOUSE	61,500	2.50	59,675	2.00	TCV-4910CC	72.00	60.00	46.00	46.00	2,323.78	1,743.20	384.10	42.00	54.00	460/3/60	BUFFALO	CUSTOM	51,781 LBS	1-6

NOTES:

1. SUPPLY FAN VFD'S AND AHU CONTROL PANELS TO BE LOCALLY MOUNTED AT EACH UNIT.
2. NO PROPYLENE GLYCOL WILL BE USED IN CHILLED WATER OR HEATING HOT WATER SYSTEM.
3. ALL AHU'S ELECTRICAL POWER SHALL BE SINGLE POINT WITH DISCONNECT SWITCH.
4. ALL AHU'S TO HAVE BASE RAILS ALONG THEIR FULL LENGTH.
5. ALL AHU'S TO HAVE MARINE GRADE INTERIOR LED LIGHTING WITH MANUAL TIMER SWITCH.
6. PROVIDE AHU WITH...
7. REFER TO INDOOR MECHANICAL AIR HANDLING UNITS SPECIFICATION 2373131 AND INDOOR SEMI CUSTOM MODULAR AIR HANDLING UNITS SPECIFICATION 237314 FOR ADDITIONAL INFORMATION.

BUILDLING 6 REHEAT COIL SCHEDULE

MARK	AHU	SERVING	CFM	MAX. FACE VEL. (FPM)	Max AIR PD (IN. W.G.)	EDB (°F)	LDB (°F)	MBH	VALVE NAME	Max WATER PD (FT. W.G.)	EWT (°F)	LWT (°F)	BASE SIZE	BASIS OF DESIGN	ROWS	PIPE SIZE (IN.)	NOTES
RHC 4910A	AHU-4910 61,500	~~B6 (1,2)~~	11,695	700	0.2	46	66	252.6	TCV-4910A	5	130	110	48"X52"	MODINE / HEATCRAFT	2	2	1-2
RHC 4910B			12,385	700	0.2	46	66	267.5	TCV-4910B	5	130	110	48"X54"	MODINE / HEATCRAFT	2	2	1-2
RHC 4910C			17,490	700	0.2	46	66	377.8	TCV-4910C	5	130	110	54"x68"	MODINE / HEATCRAFT	2	3	1-2
RHC 4910D			15,110	700	0.2	46	66	326.4	TCV-4910D	5	130	110	48"x65"	MODINE / HEATCRAFT	2	2	1-2
TOTAL DUCT MOUNTED REHEAT COIL HOT WATER LOAD								**1224.3**									

NOTES:

1. ALL REHEAT COILS TO HAVE A TWO WAY CONTROL VALVE, CIRCUIT SETTER, AND STRAINER (BY CONTROLS CONTRACTOR).
2. HEATING HOT WATER LOOP IS 100% WATER WITH NO GLYCOL.

BUILDING 6 EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	ARRANGEMENT	MANUFACTURER	MODEL	CFM	S.P. (IN. WG.)	DRIVE	OPERATING BHP	MOTOR (HP)	V/Ø/Hz	FLA	WEIGHT (LBS)	DRIVE	NOTES
FAN-4922AEX	LOADING DOCK 6-103	WALL PROP	WALL MOUNT	GREENHECK	AER-30-03-0605-VG	1,245	0.2	DIRECT	0.09	1	460/3/60	1.8	95	ECM	1, 2
FAN-4921A	ACCLIMATION ROOM 6-101	OSCILLATING WALL PROP	WALL MOUNT	DAYTON	7DD04	6,400	NA	DIRECT	NA	1/2	115/1/60	4.65	39	NA	3
FAN-4921B	ACCLIMATION ROOM 6-101	OSCILLATING WALL PROP	WALL MOUNT	DAYTON	7DD04	6,400	NA	DIRECT	NA	1/2	115/1/60	4.65	39	NA	3

NOTES:

1. FAN TO HAVE LOCAL SERVICE DISCONNECT, AND BACKDRAFT DAMPER.
2. ALL FANS WITH AN ECM MOTOR TO HAVE FACTORY SUPPLIED SPEED CONTROLLER.
3. FAN IS TWO SPEED HIGH / LOW WITH THE HIGH SPEED CFM SHOWN ON THE SCHEDULE.

BUILDING 6 ADJUSTABLE SPEED DRIVE SCHEDULE

EQUIPMENT TAG	EQUIPMENT SERVED	COMPONENT SERVED	CONTROLLING INPUT	HORSEPOWER	ELECT V/Ø/Hz	EXPECTED OPERATING RANGE (CFM)	EXPECTED OPERATING FREQUENCY	BASIS OF DESIGN	NOTES
SIC-4960SA	FCU-4922A	SUPPLY FAN	SUPPLY AIR FLOW	7.5	460/3/60	7,500	58	ABB ACH580	DIRECT DRIVE
SIC-4961SA	FCU-4922B	SUPPLY FAN	SUPPLY AIR FLOW	7.5	460/3/60	7,500	58	ABB ACH580	DIRECT DRIVE

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08 Feb 2023

Lilly

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CONCORD, NC 28027

HVAC SCHEDULES

REV.	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2				
1				
0				
1		ISSUED FOR CONSTRUCTION		08-FEB-2023
0		ISSUED FOR PERMIT - MECHANICAL & PLUMBING		14-DEC-2022

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SYSTEM TYPE		EDIFICE/BUILDING CONC006	LEVEL/FLOOR
SUB DISCIPLINE MJ	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW
CRITICAL QUALITY NO		ENTERPRISE GROUP CDAP	DRAWING INTENTION
CRITICAL BUSINESS NO		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
CRITICAL HSE NO		VENDOR	DOCUMENT ID
NON-CRITICAL YES		ENGINEERING AGENCY DOC ID	

PROJECT NAME CONC-300-5983
DRAWING SCALE
MERIDIAN REV

CONC006-MJ-00000600

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