MECHANICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS - MECHANICAL

ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLANK OFF
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CAP	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CHILLER
CO	CLEAN OUT
COMP	COMPRESSOR
CONV	CONVECTOR
CR	CEILING REGISTER
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	CONDENSER WATER
DB	DRY BULB
DF	DUCT FURNACE
DIA	DIAMETER
DN	DOWN
DRX	CLOTHES DRYER EXHAUST
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECH	ELECTRIC CABINET HEATER
EC	EVAPORATIVE CONDENSER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATOR
EHC	ELECTRIC HEATING COIL
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
F	FILTER
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FCC	FIRE CONTROL CENTER
FCU	FAN COIL UNIT
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FHX	FUME HOOD EXHAUST
FLR	FLOOR
FLA	FULL LOAD AMPS
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
FTR	FIN TUBE RADIATOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
GPS	GLYCOL PUMP SUPPLY
GX	GENERAL EXHAUST
H	HUMIDIFIER
HC	HEATING COIL
HTP	HEAT PUMP
HP	HORSE POWER
HR	HOUR
HRU	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
HX	HEAT EXCHANGER
ID	INSIDE DIMENSION
IDEC	INDIRECT EVAPORATIVE COOLER
KW	KILOWATT
KWH	KILOWATT HOURS
KX	KITCHEN EXHAUST
KRX	KITCHEN RANGE HOOD EXHAUST (RESIDENTIAL)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
LRA	LOCK ROTOR AMPS
LWS	LOUVER WITH WIRE SCREEN
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER

ABBREVIATIONS - MECHANICAL

MFG	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MUA	MAKE UP AIR UNIT
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN THIS CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIMENSION
P	PUMP
PD	PRESSURE DROP
PHC	PRE-HEAT COIL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SED	SEE ELECTRICAL DRAWINGS
SENS	SENSIBLE
SM	SHEET METAL
SP	STATIC PRESSURE
STP	STAIR PRESSURIZATION
SQFT	SQUARE FEET
ST	SOUND TRAP
SX	SMOKE EXHAUST
TF	TRANSFER FAN
TRD	TRANSFER DUCT
TRG	TRANSFER GRILLE
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VX	VAPOR HOOD EXHAUST
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WO-SIZE	WALL OPENING - [SIZE]
(X)	EXISTING TO BE DEMOLISHED
(300)	CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE

PIPING LEGEND

CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
HTHS	HIGH TEMPERATURE HOT WATER SUPPLY (__°F)
HTHR	HIGH TEMPERATURE HOT WATER RETURN (__°F)
MTHS	MEDIUM TEMPERATURE HOT WATER SUPPLY (__°F)
MTHR	MEDIUM TEMPERATURE HOT WATER RETURN (__°F)
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING
R-SV	REFRIGERANT-SAFETY VALVE RELIEF LINE
HG	HOT GAS PIPING
	ARROW INDICATES DIRECTION OF FLOW

PIPING LEGEND (CONTINUED)

	PITCH PIPE DOWN IN DIRECTION OF ARROW
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
(3'-0"x6'-0") (3'-0"x6'-0") A B	EXPANSION LOOP (SIZE AxB)
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
	ECCENTRIC REDUCER (INCREASER)
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	"Y" TYPE STRAINER
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE
40 40	AUTOMATIC FLOW CONTROL VALVE (NUMBERS INDICATES GPM)
40 40	CALIBRATED BALANCE VALVE (NUMBERS INDICATES GPM)
	GLOBE VALVE
	CHECK VALVE
M	AUTOMATIC THREE-WAY CONTROL VALVE (PNEUMATIC OPERATOR SHOWN)
M	AUTOMATIC TWO-WAY CONTROL VALVE (PNEUMATIC OPERATOR SHOWN)
M M	AUTOMATIC THREE-WAY CONTROL VALVE (ELECTRIC OPERATOR SHOWN)
M	AUTOMATIC THREE-WAY CONTROL VALVE (ELECTRIC OPERATOR SHOWN)
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	LOCKSHIELD GLOBE VALVE
S S	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	BALL VALVE
	INLINE PUMP

PIPING LEGEND (CONTINUED)

	DIRT POCKET
	REFRIGERANT EXPANSION VALVE
	SIGHT GLASS
	VALVE IN VERTICAL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	PRESSURE GAUGE WITH LOOP
	TEMPERATURE-PRESSURE TEST FITTING
	CENTER LINE
	HEAT TRACED PIPING
	PIPE SLEEVE
	BEAM PENETRATION
	PIPE GUIDE
	PIPE CAP
	PIPE BLIND FLANGE

DUCTWORK LEGEND

16x6 8x6 16x6 8x6	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT, UP
	ROUND DUCT, DOWN
	BEAM PENETRATION
R	SLOPING RISE IN DUCTWORK
D	SLOPING DROP IN DUCTWORK
18x12 18x12	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
18ø 18ø	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
18ø 18ø	OVAL DUCT SIZE
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	DUCT LINING (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	FLEXIBLE CONNECTION

DUCTWORK LEGEND (CONTINUED)

	DUCT END/CAP
	FLEXIBLE DUCT
	DUCT COIL WITH ACCESS DOOR
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
	LINEAR DIFFUSER
	LINEAR DIFFUSER WITH PLENUM
	CEILING DIFFUSER: 1-WAY BLOW, 2-WAY BLOW, 3-WAY BLOW, 4-WAY BLOW
	CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	RETURN/EXHAUST REGISTER OR GRILLE
	RETURN/EXHAUST REGISTER OR GRILLE WITH FLEXIBLE DUCT CONNECTION
	FIRE RATED ENCASED DUCT
	TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
WO-SIZE	WALL OPENING ABOVE HUNG CEILING (SIZE)
SR-A 12x8 (200) SR-A 12x8 (200)	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
ER-C 12x8 (200) ER-C 12x8 (200)	RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
ACCESS AREA	TERMINAL UNIT WITH/WITHOUT HEATING COIL
ACCESS AREA	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL
ACCESS AREA ACCESS AREA	UNDERFLOOR FAN TERMINAL UNIT WITH/WITHOUT HEATING COIL
	DOUBLE-SIDED AIR LIGHT FIXTURE TROFFER
	SINGLED-SIDED AIR LIGHT FIXTURE TROFFER

MISCELLANEOUS

P/T	DIFFERENTIAL PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SWITCH
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
	OVAL
ø	DIAMETER
	UNDERCUT DOOR
HW 1	RISER DESIGNATION: RISER SERVICE, RISER NUMBER
1 M3.1	SECTION DESIGNATION: SECTION NUMBER, DRAWING NUMBER
1 M2.1	DETAIL DESIGNATION: DETAIL NUMBER, DRAWING NUMBER
CT 1-1	EQUIPMENT DESIGNATION: EQUIPMENT TYPE, EQUIPMENT FLOOR AND NUMBER

MISCELLANEOUS

3-24	TERMINAL DESIGNATION: 3-24 THE NUMBER ON THE FLOOR; FLOOR OR LEVEL
FSD-1-1	FIRE, SMOKE & FIRE SMOKE DAMPER DESIGNATION: 1-1 THE NUMBER ON THE FLOOR; FLOOR OR LEVEL
CD-1.12x12 (550)	AIR OUTLET/INLET DEVICE DESIGNATION: CD-1.12x12 (550) TYPE, NECK OR FACE SIZE, CFM
LD-4.48x1.8ø (300)	LINEAR DIFFUSER DEVICE DESIGNATION: LD-4.48x1.8ø (300) TYPE, LENGTH & SLOT SIZE, PLENUM INLET SIZE, CFM
	KEYNOTE
1	DRAWING REVISION DESIGNATION WITH NUMBERS

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M0.01	MECHANICAL LEGENDS AND ABBREVIATIONS
M0.02	MECHANICAL GENERAL NOTES AND VENTILATION CALCULATION
M0.03	MECHANICAL SCHEDULES
M0.04	MECHANICAL SCHEDULES
M0.05	MECHANICAL SCHEDULES
M0.06	MECHANICAL SCHEDULES
M0.07	MECHANICAL SCHEDULES
M0.08	HVAC LOAD CALCULATION
M0.09	HVAC LOAD CALCULATION
M0.10	HVAC LOAD CALCULATION
M0.11	HVAC LOAD CALCULATION
M0.12	HVAC LOAD CALCULATION
M0.13	HVAC LOAD CALCULATION
M0.14	HVAC LOAD CALCULATION
M0.15	ENERGY CODE COMPLIANCE REPORT
M1.00	MECHANICAL SITE PLAN - SNOW MELT
M2.2A.01	TOWER A - LVL B MECHANICAL DUCT PLAN
M2.2A.02	TOWER A - LVL P2 MECHANICAL DUCT PLAN
M2.2A.11	TOWER A - LVL 1 MECHANICAL DUCT PLAN
M2.2A.12	TOWER A - LVL 2 MECHANICAL DUCT PLAN
M2.2A.13	TOWER A - LVL 3 MECHANICAL DUCT PLAN
M2.2A.14	TOWER A - LVL 4 MECHANICAL DUCT PLAN
M2.2A.15	TOWER A - LVL 5 MECHANICAL DUCT PLAN
M2.2A.16	TOWER A - LVL 6 MECHANICAL DUCT PLAN
M2.2A.R	TOWER A - ROOF MECHANICAL DUCT PLAN
M2.2AB.11	MECHANICAL PLANS TOWER AB LOBBY
M2.2B.01	TOWER B - LVL B MECHANICAL DUCT PLAN
M2.2B.02	TOWER B - LVL P2 MECHANICAL DUCT PLAN
M2.2B.03	TOWER B - LVL P1 MECHANICAL DUCT PLAN
M2.2B.11	TOWER B - LVL 1 MECHANICAL DUCT PLAN
M2.2B.12	TOWER B - LVL 2 MECHANICAL DUCT PLAN
M2.2B.13	TOWER B - LVL 3 MECHANICAL DUCT PLAN
M2.2B.14	TOWER B - LVL 4 MECHANICAL DUCT PLAN
M2.2B.15	TOWER B - LVL 5 MECHANICAL DUCT PLAN
M2.2B.16	TOWER B - LVL 6 MECHANICAL DUCT PLAN
M2.2B.17	TOWER B - LVL 7 MECHANICAL DUCT PLAN
M2.2B.R	TOWER B - ROOF MECHANICAL DUCT PLAN
M2.2BC.11	TOWER BC CONNECTOR - LVL 1 MECHANICAL PLAN
M2.2C.01	TOWER C - LVL P1 MECHANICAL DUCT PLAN
M2.2C.11	TOWER C - LVL 1 MECHANICAL DUCT PLAN
M2.2C.12	TOWER C - LVL 2 MECHANICAL DUCT PLAN
M2.2C.13	TOWER C - LVL 3 MECHANICAL DUCT PLAN
M2.2C.14	TOWER C - LVL 4 MECHANICAL DUCT PLAN
M2.2C.15	TOWER C - LVL 5 MECHANICAL DUCT PLAN
M2.2C.16	TOWER C - LVL 6 MECHANICAL DUCT PLAN
M2.2C.17	TOWER C - LVL 7 MECHANICAL DUCT PLAN
M2.2C.18	TOWER C - LVL 8 MECHANICAL DUCT PLAN
M2.2C.R	TOWER C - ROOF MECHANICAL DUCT PLAN
M2.4.A	ENLARGED MECHANICAL PLAN - UNIT A
M2.4.B	ENLARGED MECHANICAL PLAN - UNIT B
M2.4.C	ENLARGED MECHANICAL PLAN - UNIT C
M2.4.D	ENLARGED MECHANICAL PLAN - UNIT D
M2.4.E	ENLARGED MECHANICAL PLAN - UNIT E
M2.4.F	ENLARGED MECHANICAL PLAN - UNIT F
M2.4.G	ENLARGED MECHANICALPLAN - UNIT G
M2.4.H	ENLARGED MECHANICAL PLAN - UNIT H
M2.4.I	ENLARGED MECHANICAL PLAN - UNIT I
M2.4.J	ENLARGED MECHANICAL PLAN - UNIT J
M2.4.K	ENLARGED MECHANICAL PLAN - UNIT K
M2.4.L	ENLARGED MECHANICAL PLAN - UNIT L
M2.4.M	ENLARGED MECHANICAL PLAN - UNIT M
M2.4.N	ENLARGED MECHANICAL PLAN - UNIT N
M2.4.O	ENLARGED MECHANICAL PLAN - UNIT O
M2.4.P	ENLARGED MECHANICAL DUCT PLAN - UNIT P
M2.4.Q	ENLARGED MECHANICAL DUCT PLAN - UNIT Q
M2.4.R	ENLARGED MECHANICAL PLAN - UNIT R
M3.2A.01	TOWER A - LVL B MECHANICAL PIPING PLAN
M3.2A.02	TOWER A - LVL P2 MECHANICAL PIPING PLAN
M3.2A.11	TOWER A - LVL 1 MECHANICAL PIPING PLAN
M3.2A.12	TOWER A - LVL 2 MECHANICAL PIPING PLAN
M3.2A.13	TOWER A - LVL 3 MECHANICAL PIPING PLAN
M3.2A.14	TOWER A - LVL 4 MECHANICAL PIPING PLAN
M3.2A.15	TOWER A - LVL 5 MECHANICAL PIPING PLAN
M3.2A.16	TOWER A - LVL 6 MECHANICAL PIPING PLAN
M3.2A.R	TOWER A - ROOF MECHANICAL PIPING PLAN
M3.2B.01	TOWER B - LVL B MECHANICAL PIPING PLAN
M3.2B.02	TOWER B - LVL P2 MECHANICAL PIPING PLAN
M3.2B.03	TOWER B - LVL P1 MECHANICAL PIPING PLAN
M3.2B.11	TOWER B - LVL 1 MECHANICAL PIPING PLAN
M3.2B.12	TOWER B - LVL 2 MECHANICAL PIPING PLAN
M3.2B.13	TOWER B - LVL 3 MECHANICAL PIPING PLAN
M3.2B.14	TOWER B - LVL 4 MECHANICAL PIPING PLAN
M3.2B.15	TOWER B - LVL 5 MECHANICAL PIPING PLAN
M3.2B.16	TOWER B - LVL 6 MECHANICAL PIPING PLAN
M3.2B.17	TOWER B - LVL 7 MECHANICAL PIPING PLAN
M3.2B.R	TOWER B - ROOF MECHANICAL PIPING PLAN
M3.2C.01	TOWER C - LVL P1 MECHANICAL PIPING PLAN
M3.2C.11	TOWER C - LVL 1 MECHANICAL PIPING PLAN
M3.2C.12	TOWER C - LVL 2 MECHANICAL PIPING PLAN
M3.2C.13	TOWER C - LVL 3 MECHANICAL PIPING PLAN
M3.2C.14	TOWER C - LVL 4 MECHANICAL PIPING PLAN
M3.2C.15	TOWER C - LVL 5 MECHANICAL PIPING PLAN
M3.2C.16	TOWER C - LVL 6 MECHANICAL PIPING PLAN
M3.2C.17	TOWER C - LVL 7 MECHANICAL PIPING PLAN
M3.2C.18	TOWER C - LVL 8 MECHANICAL PIPING PLAN
M3.2C.R	TOWER C - ROOF MECHANICAL PIPING PLAN
M4.01	MECHANICAL ENLARGED PLANS
M4.02	MECHANICAL ENLARGED PLANS
M4.03	MECHANICAL ROOFTOP VIEWS - TOWER A
M4.04	MECHANICAL ROOFTOP VIEWS - TOWER B
M4.05	MECHANICAL ROOFTOP VIEWS - TOWER C
M4.06	MECHANICAL SECTIONS - GAS-FIRED BOILER VENT
M4.07	MECHANICAL SECTIONS - GAS-FIRED BOILER VENT
M5.01	MECHANICAL DETAILS
M5.02	MECHANICAL DETAILS
M5.03	MECHANICAL DETAILS
M5.04	MECHANICAL DETAILS
M5.05	MECHANICAL DETAILS
M5.06	MECHANICAL DETAILS
M5.07	MECHANICAL DETAILS
M5.08	MECHANICAL CONTROL DIAGRAM
M5.09	MECHANICAL CONTROL DIAGRAM
M5.10	MECHANICAL CONTROL DIAGRAM
M5.11	MECHANICAL CONTROL DIAGRAM
M5.12	MECHANICAL CONTROL DIAGRAM
M5.13	MECHANICAL CONTROL DIAGRAM
M6.01A	MECHANICAL AIR RISER DIAGRAM - TOWER A
M6.01B	MECHANICAL AIR RISER DIAGRAM - TOWER B
M6.01C	MECHANICAL AIR RISER DIAGRAM - TOWER C
M6.02A	MECHANICAL HYDRONIC RISER DIAGRAM - TOWER A
M6.02B	MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B
M6.02C	MECHANICAL HYDRONIC RISER DIAGRAM - TOWER C
M6.03A	MECHANICAL SNOWMELT RISER DIAGRAM - TOWER A
M6.03B	MECHANICAL SNOWMELT RISER DIAGRAM - TOWER B
M6.03C	MECHANICAL SNOWMELT RISER DIAGRAM - BLDG C

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no. date by

IFC Set 2 of 3
5/17/2024

MECHANICAL LEGENDS AND ABBREVIATIONS

M0.01

CONTROLS LEGEND

B B	TOTALIZING BTU METER
☒E	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
F F	FLOW MEASURING STATION
□ □	FLOW SWITCH
CM #	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
CD #	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
T #	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
H #	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION
TH #	COMBINATION TEMPERATURE/HUMIDITY SENSOR
S	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
P #	STATIC PRESSURE SENSOR WITH DESIGNATION
R #	REFRIGERANT SENSOR WITH DESIGNATION
XX	DDC DEVICE
XX ◀	LOCAL CONTROL DEVICE WITH DDC MONITORING
XX	PACKAGED UNIT CONTROLLED DEVICE
2P	TWO POSITION ACTUATOR
A	SUMMARY ALARM
AI	ANALOG INPUT
AMP	AMPERAGE TRANSMITTER
AMS	AIR FLOW MEASURING STATION
AO	ANALOG OUTPUT
AUX	AUXILARY INSTRUMENT OR CONTACT
C	CARBON DIOXIDE SENSOR/TRANSMITTER
CND	CONDUCTIVITY SENSOR
CR	CONTROL RELAY
CSR	CURRENT SENSING RELAY
CT	CURRENT SENSOR/TRANSMITTER
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE SENSOR/TRANSMITTER
ENB	ENABLE/DISABLE
ES	DAMPER END SWITCH
FPT	FREEZE PROTECTION THERMOSTAT
FS	FLOW SWITCH
FT	FLOW SENSOR/TRANSMITTER
H	ZONE HUMIDITY SENSOR/TRANSMITTER
HS	HUMIDITY SWITCH/HUMIDISTAT
HYD	ZONE HYDROGEN SENSOR/TRANSMITTER
KWH	POWER (KWH)
HT	HUMIDITY SENSOR/TRANSMITTER (DUCT)
LS	LEVEL SWITCH
LT	LEVEL SENSOR/TRANSMITTER
MOD	MODULATING ACTUATOR
ND	NITROGEN DIOXIDE
OS	OCCUPANCY SENSOR/SWITCH
OR	OCCUPANT OVERRIDE
PM	PULSE METER OR INITIATOR
PS	PRESSURE SWITCH
PT	PRESSURE SENSOR/TRANSMITTER
RPM	REVOLUTIONS PER MINUTE TRANSMITTER
RRV	REFRIGERANT REVERSING VALVE
SD	SMOKE DETECTOR
S	SPEED COMMAND
SR	SET POINT RESET
SS	START/STOP
SW	SWITCH
T	ZONE TEMPERATURE SENSOR/TRANSMITTER
TH	ZONE TEMPERATURE/HUMIDITY SENSOR/TRANSMITTER
TT	TEMPERATURE SENSOR/TRANSMITTER (PIPE OR DUCT)
TS	TEMPERATURE SWITCH/THERMOSTAT

GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS. ADDITIONAL NOTES MAY BE INDICATED ON INDIVIDUAL DRAWINGS.

2. DRAWINGS INDICATE CONNECTIONS FOR EQUIPMENT TO BE FURNISHED BY THE OWNER OR AS THE WORK OF THE TRADES. VERIFY LOCATION OF EQUIPMENT, ROUGH-IN LOCATIONS, AND TYPE OF CONNECTIONS PRIOR TO PREPARATION OF SHOP DRAWINGS SUBMITTALS , AND PRIOR TO INSTALLATION OF SERVICE CONNECTIONS. DO NOT INTERFERE WITH ACCESS FOR MAINTENANCE AND REMOVAL OR REPLACEMENT OF EQUIPMENT.

3. COORDINATE THE PHASING AND INSTALLATION OF NEW WORK WITH THE WORK OF ALL OTHER TRADES. BEAR THE EXPENSE FOR ANY ADDITIONAL WORK WHICH MAY BE CAUSED BY IMPROPER SEQUENCING OF CONSTRUCTION ACTIVITIES.

4. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS OF DEVICES IN FINISHED AREAS AND AT HEIGHTS INDICATED ON ARCHITECTURAL ELEVATIONS. LOCATE MECHANICAL DEVICES (E.G. TEMPERATURE SENSORS, PANELS AND SWITCHES), SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (E.G. WAINSCOT, DOOR HARDWARE), ELECTRICAL DEVICES (E.G. LIGHT SWITCHES, SPEAKERS, OUTLETS), AND THE WORK OF OTHER TRADES.

5. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, EQUIPMENT HOUSEKEEPING PADS, PENETRATION DETAILS, FLASHING AND SEALING DETAILS, AND OTHER ELEMENTS OF GENERAL CONTRACTOR. COORDINATE THE SIZE AND LOCATION OF EQUIPMENT HOUSEKEEPING PADS WITH APPROVED EQUIPMENT SO THAT HOUSEKEEPING PADS ARE NOMINALLY 4" HIGH UNLESS INDICATED OTHERWISE, AND EXTEND 6" MINIMUM IN ALL DIRECTIONS FROM THE HORIZONTAL LIMITS OF THE EQUIPMENT WHICH THEY SUPPORT.

6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CEILING MOUNTED ITEMS, INSTALL CEILING MOUNTED ITEMS IN THE CENTER OF CEILING TILES, IN THE CENTER OF ROOMS, OR WHERE INDICATED ON ARCHITECTURAL DRAWINGS. WHERE LOCATION OF ITEMS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, OBTAIN DIRECTIONS FROM ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.

7. COORDINATE EQUIPMENT POWER CONNECTION AND ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS AND CONNECTION REQUIREMENTS. COORDINATE VARIATION IN ELECTRICAL CHARACTERISTICS FROM SCHEDULE VALUES. CHANGES TO ELECTRICAL CHARACTERISTICS (E.G. VOLTAGE, AMPS, HORSEPOWER ETC.) SHALL BE SUBJECT TO APPROVAL. BEAR THE TOTAL EXPENSE FOR REQUIRED REVISIONS TO THE ELECTRICAL SCOPE OF WORK CAUSED BY VARIATION FROM THE SCHEDULED REQUIREMENTS.

8. EQUIPMENT SHORT CIRCUIT RATINGS (SCCR) SHALL BE NO LESS THAN THE INTERRUPTING RATING OF THE BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE SUPPLYING POWER TO THE EQUIPMENT. REFER TO SCHEDULES FOR BRANCH CIRCUIT OVERCURRENT DEVICE INTERRUPTING RATINGS.

9. COORDINATE THE LOCATION OF WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES AND OTHER CEILING MOUNTED DEVICES AS REQUIRED TO ALLOW FOR REMOVAL AND MAINTENANCE ACCESS.

10. DO NOT RESTRICT ACCESS TO ELECTRICAL CABLE TRAYS. AT A MINIMUM, ALLOW 18" CLEAR ON ONE SIDE OF CABLE TRAYS UP TO AN ELEVATION OF 6" ABOVE THE TOP OF THE CABLE TRAY. MAINTAIN 12" MINIMUM CLEARANCE OVER TOP OF CABLE TRAYS EXCEPT WHERE DUCT, PIPING, OR CONDUIT CROSS PERPENDICULAR TO CABLE TRAY, THIS CLEARANCE MAY BE REDUCED TO 6" OVER A DISTANCE OF NO MORE THAN 36" ALONG THE CABLE TRAY. PROVIDE NO LESS THAN 36" BETWEEN AREAS OF REDUCED CLEARANCE AND MAINTAIN INDICATED ACCESS ON THE SAME SIDE OF THE CABLE TRAY EXCEPT WHERE OTHERWISE APPROVED. DO NOT CONNECT OTHER TRADE ITEMS TO CABLE TRAY, CABLE TRAY SUPPORTS OR CABLE TRAY SEISMIC RESTRAINTS.

11. PROVIDE SUPPORT AND SEISMIC RESTRAINTS FOR PIPES, AND EQUIPMENT AS SPECIFIED, AS REQUIRED, AND AS SHOWN ON THE DRAWINGS. IF REQUIRED FOR INSTALLATION OF PIPES, DUCTS, AND EQUIPMENT, DESIGN AND PROVIDE ADDITIONAL STRUCTURAL MEMBERS BETWEEN COLUMN, JOISTS, AND STRUCTURAL FRAME TO MEET SUPPORT AND SEISMIC RESTRAINT REACTIONS (FORCES, MOMENTS, DEFLECTIONS). STRUCTURAL MEMBERS AND ANCHORAGES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. REFER TO STRUCTURAL DRAWINGS FOR DESIGN CRITERIA. SUBMIT STRUCTURAL MEMBER SHOP DRAWINGS AND CALCULATIONS FOR REVIEW. STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON THE STRUCTURAL DRAWINGS AND INDICATED IN THE SPECIFICATIONS. NO WELDING, BOLTING, OR OTHER MEANS OF ATTACHMENTS TO THE STRUCTURAL MEMBERS SHALL BE MADE ON PORTIONS OF STRUCTURAL MEMBERS AT OR NEAR CONNECTIONS BETWEEN STRUCTURAL MEMBERS ON ANY ELEMENTS DESIGNATED IN THE SEISMIC LOAD RESISTING SYSTEMS UNLESS APPROVED BY THE STRUCTURAL ENGINEER. SUPPORTS ALL NOT INDUCE TORSIONAL LOAD INTO SUPPORTING STRUCTURAL FRAMING.

12. DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS OR SHEAR WALL UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

13. PROVIDE PIPE SLEEVES AND PENETRATION SEALS AS REQUIRED FOR THE INSTALLATION OF PIPING SYSTEMS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

14. COORDINATE THE LAYOUT OF EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCE SO THAT IT FITS INTO THE SPACE ALLOTTED. PROVIDE SERVICE ACCESS AND CLEARANCE AS INDICATED ON DRAWINGS, AS REQUIRED BY CODES, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION, REMOVAL, ENTRY, SERVICING, AND MAINTENANCE OF EQUIPMENT. PRIOR TO INSTALLATION, COORDINATE LAYOUT OF EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES WITH ALL OTHER TRADES TO AVOID BLOCKING SERVICE OR REPLACEMENT ACCESS FOR NEW AND EXISTING EQUIPMENT AND EQUIPMENT INSTALLED BY OTHERS.

15. DRAWINGS ARE DIAGRAMMATIC AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES. DRAWINGS DO NOT SHOW REQUIRED TRANSITIONS, OFFSETS, FITTING, AND DEVICES. REFER TO DETAILS, DIAGRAMS, AND SPECIFICATIONS FOR REQUIRED SYSTEM APPURTENANCES, CONTROL DEVICES, ETC. INSTALL DEVICES IN ACCORDANCE WITH DEVICE MANUFACTURER RECOMMENDATIONS. CAREFULLY INVESTIGATE ELEMENTS OF CONSTRUCTION THAT COULD AFFECT THE WORK TO BE PERFORMED AND ARRANGE NEW WORK ACCORDINGLY. PREPARE COORDINATION DRAWINGS FOR NEW WORK, WHICH ARE COORDINATED WITH THE APPROVED AND INSTALLED WORK OF OTHER TRADES. PROVIDE REQUIRED OFFSETS, FITTING, TRANSITIONS, SUPPORTS AND OTHER APPURTENANCES AS REQUIRED. BEAR THE TOTAL EXPENSE OF RE-WORK THAT IS CAUSED BY FAILURE TO COORDINATE.

16. PROVIDE MAXIMUM HEADROOM AND CLEARANCE BELOW DUCTWORK, PIPING AND EQUIPMENT AND ASSOCIATED SUPPORTS AND RESTRAINTS. UNLESS OTHERWISE INDICATED, INSTALL TIGHT TO STRUCTURAL SYSTEMS ABOVE. WHERE WALL MOUNTED, INSTALL AS CLOSE TO WALL AS POSSIBLE. PROVIDE ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED.

17. REFER TO EQUIPMENT SCHEDULE FOR DESIGN CAPACITIES. SCHEDULED VALUES SHALL BE CONSIDERED DESIGN CAPACITIES. PROVIDE EQUIPMENT WHICH MEET OR EXCEEDS THE SCHEDULED VALUES. MARK THE CONTRACT DRAWING EQUIPMENT SCHEDULES TO INDICATE THE MANUFACTURER, MODEL AND CAPACITY OF THE ACTUAL APPROVED EQUIPMENT PROVIDED AND SUBMIT THIS INFORMATION WITH RECORD DRAWINGS AS PAR OF PROJECT CLOSEOUT.

18. TO ENHANCE THE CLARITY OF PLAN DRAWINGS, AND WHERE NOT NECESSARY TO DESCRIBE THE REQUIRED SIZE, INDIVIDUAL SEGMENTS OF DUCT AND PIPE BETWEEN CONNECTIONS MAY BE SHOWN WITHOUT A SIZE INDICATED. WHERE SIZE IS NOT SHOWN ON PLANS, THAT SEGMENT SHALL BE THE SAME SIZE AS THE NEXT UPSTREAM SEGMENT WITH A SIZE INDICATED.

19. WHERE NOT INDICATED ON PLANS, REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR INLET AND OUT DUCT AND/ OR PIPE SIZE. WHERE INDICATED ON PLANS, PLAN SIZES SHALL TAKE PRECEDENCE.

20. DUCTWORK SERVING INDIVIDUAL DIFFUSERS AND GRILLES IS GENERALLY NOT SIZED. WHERE NOT INDICATED ON PLAN DRAWINGS, REFER TO SCHEDULES AND DETAILS FOR NECK AND BRANCH DUCT SIZES BASED ON INDICATED AIRFLOW RATE ON NECK SIZE.

21. INSTALL DRAINS AT ALL LOW POINTS IN PIPING, INCLUDING ANY TRAPPED PORTIONS OF PIPING. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CLOSED LOOP (MECHANICAL) PIPING SYSTEM. IN GENERAL, THESE DEVICES ARE NOT INDICATED ON DRAWINGS. WHERE AUTOMATIC AIR VENTS ARE INDICATED ON DRAWINGS, EXTEND AUTOMATIC AIR VENT (AAV) DISCHARGE TO NEAREST FLOOR DRAIN USING INDIRECT DRAIN PIPING OF SAME SIZE AS AAV DISCHARGE. INDICATED THE ACTUAL LOCATION ON FIELD-LOCATION DRAINS, VENTS AND DRAIN PIPING ON THE RECORD DRAWINGS.

22. PROVIDE A MANUAL VOLUME DAMPER FOR:
    (1) EACH SUPPLY, RETURN, AND EXHAUST OPENING
    (2) IN ALL BRANCH DUCTS WHERE THREE OR MORE OPENING ARE ASSOCIATED WITH BRANCH, AND ELSEWHERE AS NOTED ON DRAWINGS OR IN SPECIFICATIONS LOCATE VOLUME DAMPERS AS FAR AS POSSIBLE FROM OPENINGS. FOR THE PURPOSE OF THIS REQUIREMENT , TERMINAL UNIT PRIMARY AIR DAMPERS ARE CONSIDERED A VOLUME DAMPERS. VOLUME DAMPERS ARE NOT REQUIRED FOR CEILING RETURN GRILLES THAT TRANSFER AIR TO A RETURN AIR PLENUM UNLESS OTHERWISE NOTED.

23. PROVIDE CONICAL TAPS FOR 90 DEGREE ROUND DUCT BRANCHES FROM RECTANGULAR SUPPLY DUCTWORK. DO NOT USE STRAIGHT TEE FITTINGS UNLESS SPECIFICALLY INDICATED ON DRAWINGS.

24. DUCTWORK STATIC PRESSURE AND SEAL CLASS, BASED ON SMACNA HDCS:

DUCT SYSTEM	STATIC PRESSURE	SEAL CLASS
A. SUPPLY DUCTWORK UPSTREAM OF AIR HANDLING UNITS	PLUS 4	A
B. RETURN DUCTWORK UPSTREAM OF AIR HANDLING UNITS	MINUS 4	A
C. UPSTREAM OF AIR TERMINAL UNITS AND FAN COIL UNITS	PLUS 4	A
D. DONWSTREAM OF AIR TERMINAL UNITS AND FAN COIL UNITS	PLUS 2	B
E. UPSTREAM OF EXHAUST FANS	PLUS 2	B
F. DOWNSTREAM OF EXHAUST FANS	MINUS 2	B
G. OUTSIDE AIR INTAKE DUCTWORK	MINUS 4	A
H. TRANSFER DUCTWORK	MINUS 2	B
I. SUPPLY DUCTWORK UPSTREAM OF HEAT PUMP UNIT	PLUS 4	A
J. RETURN DUCTWORK UPSTREAM OF HEAT PUMP UNIT	MINUS 4	A

25. PROVIDE DUCT LINING FOR DUCTWORK AND PLENUMS AS SPECIFIED, WHERE INDICATED ON DRAWINGS AND AS INDICATED BELOW. DUCT SIZES INDICATED ON DRAWINGS ARE NET INSIDE DIMENSIONS REPRESENTING THE MINIMUM DUCT FREE AREA. THICKNESS OF DUCT LINING SHALL BE AS SPECIFIED UNLESS A GREATER THICKNESS IS INDICATED ON DRAWINGS. FOR CLARITY, DUCT LINING MAY NOT BE SHOWN IN ALL REQUIRED LOCATIONS ON DRAWINGS. PROVIDE DUCT LINING FOR THE FOLLOWING:
    A. RECTANGULAR SUPPLY AIR DUCTWORK FROM TERMINAL UNITS TO SUPPLY GRILLES/DIFFUSER, AND AS INDICATED ON DRAWINGS.
    B. MIXED AIR AND EXHAUST AIR PLENUMS.
    C. PLENUMS UPSTREAM OF RETURN/EXHAUST FANS.
    D. TOILET EXHAUST DUCTWORK FROM EACH EXHAUST GRILLE TO A POINT 10' DOWNSTREAM OF GRILLE.
    E. ROUND SUPPLY AIR DUCTWORK.
    F. ROUND RETURN AIR DUCTWORK.
    G. ALL AIR TRANSFER DUCTS.

26. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTAL ITEMS. DO NOT INSTALL DEFERRED SUBMITTAL ITEMS UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN SUBMITTED AND APPROVED BY THE BUILDING OFFICIAL. MECHANICAL WORK SHOWN WITHIN THESE DOCUMENTS RELATED TO THE DEFERRED SUBMITTAL ARE FOR INFORMATION ONLY UNTIL APPROVED.

A) SEISMIC RESTRAINTS
B) OXYGEN SYSTEMS

Building: Bldg A
System Tag/Name: AHU-A-B1-1
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System		Check Figures
Floor area served by system	As	sf	11,279				
Population of area served by system	Ps	P	109	D 100%	109		9.7 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	2,240		2,240	Default entry has been overridden.	0.20 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.07				0.07 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.2				7.25 ave cfm/p
Percent increase in Vbz over minimum required			0%				

Inputs for Potentially Critical zones	Name	Units			FPT A-B1-01	FPT A-B1-02	*FPT A-B1-03*	FPT A-B1-04	FPT A-B1-05	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		FPT A-B1-01	FPT A-B1-02	*FPT A-B1-03*	FPT A-B1-04	FPT A-B1-05	
Zone Tag					game lounge and arcade	maintenance and dry storage	bowling lounge sitting	bowling lane	employee break and toilets	
Occupancy Category			Select from pull-down list:		Break rooms (General)	Occupiable storage rooms for dry materials	Bowling alley (seating)	Corridors	Break rooms (General)	
Floor Area of zone	Az	sf			2,599	1,681	2,264	2,916	1,819	11,279 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		46	8	49	0	6	109 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			1,610	735	1,430	1,085	610	5,470 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:		Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Terminal Unit	
Frac. of local recirc. air that is representative of system RA	Er				0.70	0.70	0.30	0.70	0.70	0.62 average
Inputs for Operating Condition Analyzed										
Percent of total design airflow rate at conditioned analyzed	Ds	%	May need to manually edit Ds:	99%	100%	100%	100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80	0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep				0.30	0.30	0.70	0.30	0.30	0.38 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.83**
Outdoor air intake required for system	Vot	cfm	**1921**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.17**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**17.6**
Outdoor air as a % of design primary supply air	Ypd	%	**86%**

Building: bldg A
System Tag/Name: AHU-A-1-1 restaurant
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System		Check Figures
Floor area served by system	As	sf	3438				
Population of area served by system	Ps	P	70	D 100%	70		20.4 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	1,783		1,783	Default entry has been overridden.	0.52 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.17				0.17 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.5				7.50 ave cfm/p
Percent increase in Vbz over minimum required			0%				

Inputs for Potentially Critical zones	Name	Units			FPT A-1-K-1	FPT A-1-K-2	*FPT A-1-K-3*	FPT A-1-K-4	FPT A-1-K-5	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		FPT A-1-K-1	FPT A-1-K-2	*FPT A-1-K-3*	FPT A-1-K-4	FPT A-1-K-5	
Zone Tag					kitchen	kitchen	restaurant - interior	restaurant - west	restaurant - south	
Occupancy Category			Select from pull-down list:		Kitchen (cooking)	Kitchen (cooking)	Restaurant dining rooms	Restaurant dining rooms	Restaurant dining rooms	
Floor Area of zone	Az	sf			408	408	1,649	441	532	3,438 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		2	2	48	6	12	70 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			910	910	1,315	835	995	4,965 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:		Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Terminal Unit	
Frac. of local recirc. air that is representative of system RA	Er				0.90	0.90	0.20	0.70	0.70	0.68 average
Inputs for Operating Condition Analyzed										
Percent of total design airflow rate at conditioned analyzed	Ds	%	May need to manually edit Ds:	100%	100%	100%	100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80	0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep				0.10	0.10	0.80	0.30	0.30	0.32 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.87**
Outdoor air intake required for system	Vot	cfm	**1265**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.37**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**18.1**
Outdoor air as a % of design primary supply air	Ypd	%	**71%**

Building: bldg B
System Tag/Name: AHU-A-1-2
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System		Check Figures
Floor area served by system	As	sf	10,645				
Population of area served by system	Ps	P	83	D 100%	83		7.8 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	4,220		4,220	Default entry has been overridden.	0.40 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.08				0.08 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	10.4				10.42 ave cfm/p
Percent increase in Vbz over minimum required			0%				

Inputs for Potentially Critical zones	Name	Units			FPT A-1-05	FPT A-1-06	FPT A-1-07	*FPT A-1-08*	FPT A-1-09	FPT A-1-01	FPT A-1-02	FPT A-1-03	FPT A-1-04	FPT-A-1-10	FPT-A-1-11	FPT-A-1-12	FPT-A-1-13	FPT-A-1-14	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		FPT A-1-05	FPT A-1-06	FPT A-1-07	*FPT A-1-08*	FPT A-1-09	FPT A-1-01	FPT A-1-02	FPT A-1-03	FPT A-1-04	FPT-A-1-10	FPT-A-1-11	FPT-A-1-12	FPT-A-1-13	FPT-A-1-14	
Zone Tag					private dining	fitness	strength training	yoga	treatment - double	spa lounge	treatment single	locker room and corridor	locker room	entry lobby NE	lobby vest	entry lobby SW	elev lobb and package	corridor	
Occupancy Category			Select from pull-down list:		Restaurant dining rooms	Gym, sports arena (play area)	Gym, sports arena (play area)	Gym, sports arena (play area)	Break rooms (General)	Break rooms (General)	Break rooms (General)	Corridors	Corridors	Lobbies	Corridors	Lobbies	Lobbies	Corridors	
Floor Area of zone	Az	sf			314	637	324	688	513	637	185	2,809	1,069	1,396	280	688	894	211	10,645 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		12	10	6	12	4	12	2	0	0	10	0	11	4	0	83 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			995	1,675	865	775	260	585	125	810	530	1,120	740	1,692	760	815	11,747 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:		Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Terminal Unit	
Frac. of local recirc. air that is representative of system RA	Er				0.70	0.70	0.70	0.25	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.67 average
Inputs for Operating Condition Analyzed																			
Percent of total design airflow rate at conditioned analyzed	Ds	%	May need to manually edit Ds:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep				0.30	0.30	0.30	0.75	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	1.00	1.00	0.43 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.69**
Outdoor air intake required for system	Vot	cfm	**2538**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.24**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**30.6**
Outdoor air as a % of design primary supply air	Ypd	%	**60%**

Building:
System Tag/Name: AHU-B-1-1
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System		Check Figures
Floor area served by system	As	sf	11,667				
Population of area served by system	Ps	P	108	D 100%	108		9.3 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	4,220		4,220	Default entry has been overridden.	0.36 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06				0.06 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	5.0				5.02 ave cfm/p
Percent increase in Vbz over minimum required			0%				

Inputs for Potentially Critical zones	Name	Units			FPT B-1-01	FPT B-1-02	FPT B-1-03	FPT B-1-04	FPT B-1-05	FPT B-1-06	FPT B-1-07	FPT B-1-08	FPT B-1-09	FPT B-1-10	*FPT B-1-11*	FPT B-1-12	FPT B-1-13	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		FPT B-1-01	FPT B-1-02	FPT B-1-03	FPT B-1-04	FPT B-1-05	FPT B-1-06	FPT B-1-07	FPT B-1-08	FPT B-1-09	FPT B-1-10	*FPT B-1-11*	FPT B-1-12	FPT B-1-13	
Zone Tag					guest business center	offices	kitchen	SKI LOUNGE B108 W	SKI LOUNGE B108 NW	SKI LOUNGE B106 B107	ski lounge interior	kids room	ski valet BOH	ski valet	ski lockers	SKI LOUNGE B107 E	BC CONNECTOR	
Occupancy Category			Select from pull-down list:		Conference/meeting	Office space	Kitchen (cooking)	Break rooms (General)	Break rooms (General)	Break rooms (General)	Break rooms (General)	Dayroom	Office space	Office space	Corridors	Break rooms (General)	Corridors	
Floor Area of zone	Az	sf			518	1,021	253	536	808	2,778	958	430	495	1,482	1,392	529	467	11,667 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		14	5	1	2	7	19	22	17	2	7	0	12	0	108 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			1,300	1,095	540	1,015	1,700	1,080	645	520	600	1,410	370	1,310	1,290	12,875 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:		Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Terminal Unit	
Frac. of local recirc. air that is representative of system RA	Er				0.70	0.70	0.70	0.70	0.70	0.30	0.30	0.70	0.70	0.70	0.70	0.70	0.70	0.64 average
Inputs for Operating Condition Analyzed																		
Percent of total design airflow rate at conditioned analyzed	Ds	%	May need to manually edit Ds:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep				0.30	0.30	0.30	0.30	0.30	0.70	0.70	0.30	0.30	0.30	0.30	0.30	1.00	0.42 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.77**
Outdoor air intake required for system	Vot	cfm	**1631**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.14**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**15.1**
Outdoor air as a % of design primary supply air	Ypd	%	**39%**

Building: bldg B
System Tag/Name: AHU-B-B-1
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System	Check Figures
Floor area served by system	As	sf	3043			
Population of area served by system	Ps	P	8	D 100%	8	2.6 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	1,500	100%	1,500	0.49 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06			0.06 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	20.0			20.00 ave cfm/p
Percent increase in Vbz over minimum required			0%			

Inputs for Potentially Critical zones	Name	Units			*ahu-b-b-1*	ahu-b-b-1	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		*ahu-b-b-1*	ahu-b-b-1	
Zone Tag					golf simulator	corridor	
Occupancy Category			Select from pull-down list:		Health club/weight rooms	corridors	
Floor Area of zone	Az	sf			3,043	0	3,043 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		8	0	8 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			1,500	0	1,500 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:				
Frac. of local recirc. air that is representative of system RA	Er						1.00 average
Inputs for Operating Condition Analyzed							
Percent of total design airflow rate at conditioned analyzed	Ds	%		100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep						1.00 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.94**
Outdoor air intake required for system	Vot	cfm	**363**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.12**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**45.4**
Outdoor air as a % of design primary supply air	Ypd	%	**24%**

Building: bldg C
System Tag/Name: AHU-C-1-1
Operating Condition Description: heating
Units (select from pull-down list) IP

Inputs for System	Name	Units	w/o diversity System	Diversity	w/ diversity System		Check Figures
Floor area served by system	As	sf	6,551				
Population of area served by system	Ps	P	49	D 100%	49		7.5 P/1000 sf
Design primary supply fan airflow rate	Vpsd	cfm	1,710		1,710	Default entry has been overridden.	0.26 cfm/sf
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06				0.06 ave cfm/sf
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.4				7.45 ave cfm/p
Percent increase in Vbz over minimum required			0%				

Inputs for Potentially Critical zones	Name	Units			FPT C-1-01	FPT C-1-02	FPT C-1-03	*FPT C-1-04*	FPT C-1-05	FPT C-1-06	FPT C-1-07	Totals/averages
Zone Name			*Zone title turns purple italic for critical zone(s)*		FPT C-1-01	FPT C-1-02	FPT C-1-03	*FPT C-1-04*	FPT C-1-05	FPT C-1-06	FPT C-1-07	
Zone Tag					Entry lobby perimeter	skier lounge	lounge - perimeter	golf simulation	golf simulation	lounge - interior	housekeeping and corridor	
Occupancy Category			Select from pull-down list:		Lobbies	Break rooms (General)	Break rooms (General)	Health club/weight rooms	Health club/weight rooms	Break rooms (General)	Office space	
Floor Area of zone	Az	sf			1,222	789	501	792	838	755	1,654	6,551 total sf
Design population of zone	Pz	P	(default value listed; may be overridden)		6	10	14	4	4	10	1	49 total P
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm			1,885	730	740	410	435	405	565	5,170 total cfm
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:		Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Termi	Induction Terminal Unit	
Frac. of local recirc. air that is representative of system RA	Er				0.70	0.70	0.70	0.55	0.55	0.70	0.70	0.66 average
Inputs for Operating Condition Analyzed												
Percent of total design airflow rate at conditioned analyzed	Ds	%	May need to manually edit Ds:	100%	100%	100%	100%	100%	100%	100%	100%	100% average
Air distribution type at conditioned analyzed			Select from pull-down list:		CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	
Zone air distribution effectiveness at conditioned analyzed	Ez				0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80 average
Primary air fraction of supply air at conditioned analyzed	Ep				0.30	0.30	0.30	0.45	0.45	0.30	0.30	0.34 average

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.77**
Outdoor air intake required for system	Vot	cfm	**979**
Outdoor air per unit floor area	Vot /As	cfm/sf	**0.15**
Outdoor air per person served by system (including diversity)	Vot /Ps	cfm/p	**20.0**
Outdoor air as a % of design primary supply air	Ypd	%	**57%**

No. 12196777-2202
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Reserved for permit stamp

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no.	date	by

IFC Set 2 of 3
5/17/2024

MECHANICAL GENERAL NOTES AND VENTILATION CALCULATION

M0.02

AIR HANDLING UNIT (COOLING/HEATING)

DESIGNATION	LOCATION / SERVICE	MODEL NUMBER	TOTAL AIRFLOW CFM	MINIMUM OUTSIDE AIR CFM	SUPPLY FAN					HYDRONIC COOLING COIL											HYDRONIC HEATING COIL									ELECTRICAL DATA		EMERGENCY POWER (Y/N)	VAR. SPEED (Y/N)	FAN SOUND POWER								OPERATING WEIGHT (LBS)	NOTES
					CFM	EXT. S.P. (IN. W.G.)	RPM	QUANTITY	MOTOR HP	MIXED EAT		LAT		CAPACITY		GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. W.G.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	MIXED EAT (°F)	LAT (°F)	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	P.D. AIR (IN. W.G.)	P.D. WATER (FT. H2O)	AIR VELOCITY (FPM)	VOLTAGE/ PHASE	FLA (AMPS)			OCTAVE BAND 1	2	3	4	5	6	7	8		
										DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL (MBH)	SENSIBLE (MBH)																											
AHU-A-B1-1	TOWER-A BOILER 012 / TOWER-A B AMENITY	V3-ERB-3-0-26HB-12L	8500	1500	8500	2.7	2450	2	8	78	61	50	50	243	192	40	42	54	1.5	9.5	484	57	88	151	18	120	103	0.2	1.6	321	460/3	8.3	N	Y	72/77	75/80	89/90	83/90	82/93	82/88	79/84	77/79	850	
AHU-A-B1-2	TOWER-A BOILER 012 / TOWER-A LVL-1 AMENITY	V3-ERB-3-0-26HA-12P	9500	2000	9500	2.9	2600	2	8	77	61	49	49	281	219	45	42	55	1.2	11.0	541	48	90	206	45	120	103	0.2	2.7	322	460/3	8.3	N	Y	74/78	77/81	92/91	85/92	83/95	84/90	82/87	81/82	850	
AHU-A-1-1	TOWER-A LVL-P2 / TOWER-A LVL-1 DINING	V3-ERB-3-0-26HC-12M	6500	1500	6500	3.6	2250	1	8	78	61	54	54	170	127	73	42	49	1.2	8.3	370	57	89	155	16	120	100	0.1	5.4	322	460/3	17	N	Y	72/77	75/80	86/88	81/88	79/90	79/84	72/78	66/73	850	
AHU-A-1-X	TOWER-A P213 / TOWER-A KITCHEN EX MAKEUP	SCS3H-50mm TTB-AH100-EC	10000	10000	10000	3.1	2250	2	12	85	65	58	57	220	220	53	42	54	0.9	12.8	489.0	-7.0	67.0	677	69	120	100	0.3	2.4	489	460/3	18	Y	Y	70/73	83/84	81/82	75/83	78/89	78/85	78/81	72/76	3750	
AHU-L-1-1	TOWER-A / B LOBBY / TOWER-A / B LOBBY	V3-ERB-3-0-24HA	6000	450	6000	1.0	2040	2	4	76	62	54	53	138	110	20	42	56	1.4	3.2	341	64	97	251	34	120	105	0.2	4.1	523	460/3	10	N	Y	78/82	80/84	85/89	80/86	75/86	75/81	72/77	69/72	850	
AHU-B-B-1	TOWER-B P1 / TOWER-B LVL-B AMENITY	V3-CRB-3-0-24HC-12R	2500	450	2500	1.5	1920	1	4	76	61	53	53	50	48	8	42	54	0.4	1.2	346	64	92	60	5	120	96	---	2.1	346	460/3	5	N	Y	80/83	82/85	87/92	79/85	74/86	73/79	69/74	66/69	845	
AHU-B-P1-1	TOWER-B P1 / TOWER-B LVL-1 AMENITY	DB SCS3H-50MM TTB-AH150-EC	14750	1600	14750	2.4	2250	4	5	77	60	53	53	341	245	73	42	56	1.4	19.2	449	54	93	424	25	120	85	0.1	7.7	449	460/3	(21.8)	N	Y	75/77	92/92	84/84	78/84	78/89	78/84	73/78	71/75	3750	
AHU-C-1-1	TOWER-C / LVL-1 AMENITY	H3-ERB-3-0-24QC-12K	5900	1100	5900	2.0	2325	2	3	77	61	48	48	183	139	26	42	56	1.5	62.1	341	58	87	145	16	120	102	0.2	1.2	341	460/3	7	N	Y	92/92	92/92	94/94	94/94	89/89	85/85	83/83	78/78	1245	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.
B. ALL COILS TO BE SELECTED ASSUMING 40% PROP. GLYCOL.
C. LINE SUPPLY AND RETURN OF DUCTWORK FOR 12'-0" FROM THE UNIT WITH 1" INTERNAL AL.

NOTES:

AIR SOURCE HEAT PUMP

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	COOLING DATA							HEATING DATA							ELECTRIC DATA			FAN		COMPRESSOR			EER/ COP	FAN SOUND POWER								EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (TONS)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	CAPACITY (MBH)	EAT		EWT (°F)	LWT (°F)	GPM	P.D. (FT H20)	MCA	MOP	VOLTAGE/ PHASE	CFM	QTY	TYPE	QTY	REFRIGERANT		OCTAVE BAND 1	2	3	4	5	6	7	8			
				DB (°F)	RH (%)						DB (°F)	RH (%)																								
ASHP-A-R-1	TOWER-A ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-A-R-2	TOWER-A ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-B-R-1	TOWER-B ROOF	HECOCLIMA VHA-2084(46)-4T-EC-BP-54B	49.2	87.0	40.4	56.0	42.0	92.8	12.3	587.0	35.0	72.8	102.0	120.0	71.2	6.5	133.0	160.0	460/3	46165	4	SCROLL	4	R454B	10.7 / 2.8	65	67	73	80	83	81	74	70	N	5009	
ASHP-B-R-2	TOWER-B ROOF	HECOCLIMA VHA-2142(46)-4T-EC-BP-54B	81.7	87.0	40.4	56.0	42.0	154.2	10.4	972.0	35.0	72.8	102.0	120.0	117.9	5.5	215.0	260.0	460/3	93546	8	SCROLL	4	R454B	11.1 / 2.9	69	71	77	84	87	85	78	74	N	8874	
ASHP-C-R-1	TOWER-C ROOF	HECOCLIMA VHA-2182(46)-4T-EC-BP-54B	101.3	87.0	40.4	56.0	42.0	191.1	11.8	1204	35.0	72.8	102.0	120.0	146.0	6.2	265	320	460/3	93291	8	SCROLL	4	R454B	10.5 /2.9	70	72	78	85	88	86	79	75	N	9864	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION. ALL EQUIPMENT TO BE SELECTED FOR 40% POLYPROPYLENE GLYCOL.
B. EER/COP IS QUOTED AT DESIGN CONDITIONS. REFER TO SPECIFICATIONS FOR MINIMUM VALUES AT ARI CONDITIONS.

NOTES:

FIRE SMOKE DAMPERS

DESIGNATION	LOCATION / SERVICE	DIMENSIONS		ELECTRICAL CONNECTIONS		NOTES
		WIDTH (INCHES)	HEIGHT (INCHES)	VOLTAGE/ PHASE	QTY	
FSD-A-B-1	ELEC A018	12	8	120/1	1	
FSD-A-B-2	ELEC A018	24	6	120/1	1	
FSD-A-B-3	ELEVATOR CONTROL A015	24	6	120/1	1	
FSD-A-B-4	ELEVATOR CONTROL A015	12	8	120/1	1	
FSD-A-B-5	ARCADE A006 EXHAUST	20Ø		120/1	1	
FSD-A-B-6	BOILER 012	18Ø		120/1	1	
FSD-A-B-7	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-8	T2 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-9	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-B-10	T4 ELEV REMOTE CNTRL RM	12	8	120/1	1	
FSD-A-P2-1	ELEVATOR LOBBY	10	10	120/1	1	
FSD-A-P2-2	ELEVATOR LOBBY	6	6	120/1	1	
FSD-A-P2-3	AHU RETURN DUCT UP	36	24	120/1	1	
FSD-A-P2-4	AHU RETURN DUCT DN	36	24	120/1	1	
FSD-A-P2-5	AHU SUPPLY DUCT UP	38	18	120/1	1	
FSD-A-P2-6	AHU SUPPLY DUCT DN	38	18	120/1	1	
FSD-A-P2-7	AHU VENTILATION	18	18	120/1	1	
FSD-A-P2-8	KITCHEN A102	40	16	120/1	1	
FSD-A-1-2	N/A	--	--	--	--	
FSD-A-1-3	SUPPLY DUCT	10	10	120/1	1	
FSD-A-1-4	SUPPLY DUCT	30	16	120/1	1	
FSD-A-1-5	NOT USED	--	--	--	--	
FSD-A-1-6	TREATMENT DOUBLE A115	20Ø		120/1	1	
FSD-A-1-7	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-B-1	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-2	ELEC PANEL RM B006	10	10	120/1	1	
FSD-B-B-3	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-B-4	T3 ELEV REMTOE CNTRL RM	12	8	120/1	1	
FSD-B-P2-1	POOL MECH P236	14	14	120/1	1	
FSD-B-P2-2	POOL MECH P236	14Ø		120/1	1	
FSD-B-P2-3	VESTIBULE P255	6Ø		120/1	1	
FSD-B-P2-4	TRASH P240	10Ø		120/1	1	
FSD-B-P2-5	TRASH P240	12Ø		120/1	1	
FSD-B-P2-6	POOL MECH P260	14	14	120/1	1	
FSD-B-P2-7	POOL MECH P260	12Ø		120/1	1	
FSD-B-P2-8	STORAGE P243	6Ø		120/1	1	
FSD-B-P2-9	FUEL STORAGE P264	12	12	120/2	1	
FSD-B-P2-10	FUEL STORAGE P264	12	12	120/3	1	
FSD-B-P2-11	MECH GEN P266	24	14	120/4	1	
FSD-B-P2-12	MECH GEN P266	14	14	120/5	1	
FSD-B-P1-1	VESTIBULE P108	6Ø		120/1	1	
FSD-B-P1-2	SUPPLY DUCT	20	20	120/1	1	
FSD-B-P1-3	EXHAUST DUCT	20	20	120/1	1	
FSD-B-P1-4	EF-B-P1-2 DUCT	12Ø		120/1	1	
FSD-B-P1-5	AHU-B-P1-1 RETURN DUCT	80	22	120/1	1	
FSD-B-P1-6	AHU-B-P1-1 SUPPLY DUCT	64	20	120/1	1	
FSD-B-P1-7	STORAGE P110	6Ø		120/1	1	
FSD-B-P1-8	EF-B-P1-1 DUCT	12Ø		120/1	1	
FSD-B-1-1	LEVEL 1 EXHAUST	12Ø		120/1	1	
FSD-B-1-2	AHU RETURN DUCT	76	14	120/1	1	
FSD-B-1-3	AHU SUPPLY DUCT	76	14	120/1	1	
FSD-B-1-4	ELEVATOR LOBBY	10	10	120/1	1	
FSD-B-1-5	ELEVATOR LOBBY	10	10	120/1	1	
FSD-C-P1-1	EF-C-P1-1 EXHAUST DUCT	14Ø		120/1	1	
FSD-C-1-1	MEP C106	8Ø		120/1	1	
FSD-C-1-2	MEP C106	30	12	120/1	1	
FSD-C-1-3	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-4	HOUSEKEEPING C105	14Ø		120/1	1	
FSD-C-1-5	STORAGE C110A	24	18	120/1	1	
FSD-C-8-1	ELEC C802	16	10	120/1	1	
FSD-C-8-2	ELEC C802	10	10	120/1	1	

GENERAL NOTES:
A. RUSKIN IS BASIS OF DESIGN

NOTES:
1. 120 VOLT OPERATORS. PROVIDE QUANTITY REQUIRED FOR SIZE SCHEDULED.
2. MINIMUM FIRESTAT TEMPERATURE IS 165DEG F. PROVIDE HIGHER FIRESTAT TEMPERATURE FOR SMOKE CONTROL SYSTEMS.
3. INITIATING DEVICES SHALL EITHER BE DUCT SMOKE DETECTOR (DD), AREA SMOKE DETECTOR (AD) OR FIRE ALARM SYSTEM (FAS).
4. ALL ACTIVE SMOKE CONTROL FIRE SMOKE DAMPERS SHALL BE ON EMERGENCY POWER.
5. ALL FIRE SMOKE DAMPERS ON A SINGLE SYSTEM SHALL CLOSE ON DETECTION OF SMOKE AND SHUTDOWN OF THE AIR MOVING SYSTEMS.

GARAGE EXHAUST FAN CFM VALUES

EXHAUST FAN DESIGNATIONS	LOCATION/ SERVICE	CO CONCENTRATION				NOTES:
		< 25 PPM	BETWEEN 25-50 PPM	> 50 PPM SINGLE ZONE	> 50 PPM DUAL ZONE	
GEF-A-P2-1, 2, 3	TOWER-A P2	500	2500	6400	7500	1, 2, 3
GEF-B-P1-1	TOWER-B P2	1000	7500	14325	12700	1, 2
GEF-B-P1-2, 3, 4, 5	TOWER-B P1	800	6800	11325	N/A	1
GEF-C-P1-1	TOWER-C P1	400	1600	5800	N/A	1

NOTES:
1. SEE SPEC 23 09 63 CARBON MONOXIDE AND FAN CONTROL SYSTEMS FOR MORE INFORMATION.
2. IF BOTH TOWER-A P2 AND TOWER-B P2 ARE ABOVE 50-PPM USE THE DUAL ZONE CFM VALUE.
3. THESE FANS ALSO CONTROLLED VIA THERMOSTAT SHOWN ON SHEET M2.2A.02 G/L E/7. WHEN THERMOSTAT IS ABOVE 95-F OPERATE FANS AT 6400-CFM UNTIL THERMOSTAT REACHES 85-F.

GLYCOL PUMP SUPPLY UNIT SCHEDULE

DESIGNATION	LOCATION	TYPE	MANUF-MODEL NUMBER	SERVICE	PUMP				TANK VOLUME (GALLONS)	OPERATING WEIGHT (LBS)	NOTES
					FLOWRATE	PRESSURE	MOTOR				
					(GPM)	(PSIG)	(HP)	VOLTAGE/ PHASE			
GPS-A-B-1	LEVEL B	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-B-P1-1	LEVEL P1	SIMPLEX	JOHN WOOD JWGP-53-055	CHILLED WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	160	1
GPS-B-P1-2	LEVEL P1	DUPLEX	JOHN WOOD JWDP-53-055	HOT WATER/SNOWMELT SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1
GPS-C-1-1	LEVEL 1	DUPLEX	JOHN WOOD JWDP-53-055	CHILLED/HOT WATER SYSTEM	3.2	54	1/3 X (2)	120/1	55	190	1

NOTES:
1. TANK FILLED WITH A 40% PROPYLENE GLYCOL MIXTURE(PREMIXED).

AIR OUTLETS AND INLETS

DESIGNATION	MANUF. MODEL NUMBER	TYPE OF SERVICE	FACE DIMENSIONS	NOTES
CD-A	PRICE SPD	SUPPLY	24x24	1
CD-B	PRICE SPD	SUPPLY	12x12	1
SR-A	PRICE 32	SUPPLY	SEE PLANS	
SR-B	PRICE 540/640	RESIDENTIAL SUPPLY	SEE PLANS	
SR-C	PRICE RCG	STAIRWELL SUPPLY	SEE PLANS	
JD-A	PRICE ND	JET NOZZLE	SEE PLANS	9
EG-A	PRICE PDDR	RETURN/EXHAUST	24x24	2
EG-B	PRICE PDDR	RETURN/EXHAUST	12x12	2
EG-C	PRICE SPD	RETURN/EXHAUST	12x12	2
ER-A	PRICE 630	RETURN/EXHAUST	SEE PLANS	
FD-A	PRICE LBP 15A	SUPPLY	SEE PLANS	7, 8
LD-A	PRICE SD	SUPPLY	4'-0", 1.5-INCH SLOT	10Ø INLET
LD-B	PRICE SDS150	SUPPLY	SEE PLANS	3
LD-C	PRICE SDS150	RETURN	SEE PLANS	4
LD-D	PRICE SD	SUPPLY	4'-0", 3-INCH SLOT	10Ø INLET
LD-E		SUPPLY		
LDA-A	PRICE SDS150	SUPPLY	3'-0", 5" INLET	5, 6
LDA-B	PRICE SDS150	SUPPLY	4'-0", 6" INLET	5, 6
LDA-C	PRICE SDS150	SUPPLY	5'-0", 6" INLET	5, 6

GENERAL NOTES:
1. INLET SIZES NOTED ARE THE FINAL TRANSITION FROM BRANCH DUCT TO PLENUM CONNECTION. BRANCH DUCT SIZING TO PLENUM CONNECTION PER PLANS.

NOTES:
5. PROVIDE SDB150 PLENUM WITH VCR8EC CABLE OPERATED DAMPER.
6. PROVIDE TYPE-3 SURFACE MOUNT (CONTRACTOR SHALL CONFIRM FINAL INSTALL DETAIL WITH ARCHITECT)
7. PROVIDE CONTINUOUS PLENUM WITHIN INTERSTITIAL SPACE.
8. CONFIRM BORDER TYPE WITH ARCHITECT BEFORE PROCUREMENT.
9. PROVIDE INTEGRAL DAMPER

UNIT HEATER - GAS

DESIGNATION	MANUFACTURER MODEL NUMBER	LOCATION / SERVICE	GAS HEATING			DISTRIBUTION FAN			EXHAUSTER FAN				VOLTAGE/ PHASE	FLA AMPS	MOP (AMPS)	EMERG. POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
			CAPACITY (MBH)	INPUT MBH	GAS PIPE SIZE (IN)	CFM	EXTERNAL SP INCHES	HP	COMBUSTION (CFM)	HP	FLUE SIZE							
UH-A-P2-1	APPLIED AIR MODEL 65	TOWER-A GARAGE / TOWER-A GARAGE INTAKE	650	815	1.25	8,500	1.0	10	110	0.3	10		460/3	14.4	50	N	2,600	1
UH-B-P1-1	APPLIED AIR MODEL 40	TOWER-B GARAGE / TOWER-B GARAGE INTAKE	400	500	1.00	6,000	0.3	2	110	0.3	8		460/3	6.7	20	N	1,750	
UH-C-P1-1	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE INTAKE	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2		120/1	17.6	25	N	120	
UH-C-P1-2	STERLING NEXUS 150	TOWER-C GARAGE / TOWER-C GARAGE DOOR	143	150	1.00	2,650	0.2	2 @ 1/2	---	---	2		120/1	17.6	25	N	120	

GENERAL NOTES:
A) PROVIDE BASE INLET DAMPER FOR HORIZONTAL UNIT

NUMBERED NOTES:
1. PROVIDE FLUE BOOSTER FAN FOR 1" EXT SP.

UNIT HEATER - ELECTRIC

DESIGNATION	LOCATION / SERVICE	CADET MODEL NUMBER	kW	VOLTAGE/ PHASE	AMPS	EMERGENCY POWER (Y/N)	OPER. WEIGHT (LBS)	NOTES
UH-A	STAIR	CSC101W	1	120/1	3.6	N	7	1,2

GENERAL NOTES:

NOTES:
1. COORDINATE EXACT COLOR, FINISH, AND MOUNTING LOCATION WITH ARCHITECT.
2. PROVIDE REMOTE MOUNTED THERMOSTAT.

PLATE FRAME HEAT EXCHANGER SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	CENTRAL UTILITY PLANT SIDE						BUILDING SIDE						OPERATING WEIGHT	NOTES
				FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	FLUID	GPM	EWT (°F)	LWT (°F)	PD (PSIG)	RATED PRESSURE (PSIG)	(LBS)	
HX-A-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-A-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-B-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-144	40% PROPYLENE GLYCOL	245	40	54	9.9	150	WATER	223	56	42	5.7	150	4,606	1
HX-B-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-82	40% PROPYLENE GLYCOL	224	122	102	9.5	150	WATER	205	100	120	8.4	150	3,869	1
HX-C-1-1	LEVEL 1	CHILLED WATER	BELL & GOSSETT - AP86-121	40% PROPYLENE GLYCOL	189	40	54	9.8	150	WATER	172	56	42	5.6	150	4,188	1
HX-C-1-2	LEVEL 1	HOT WATER	BELL & GOSSETT - AP86-65	40% PROPYLENE GLYCOL	174	122	102	9.8	150	WATER	158	100	120	9.2	150	3,616	1

NOTES:
1.BUILD IN ACCORANCE WITH THE AHRI STANDARD

BUFFER TANK

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	TANK VOLUME (GALLONS)	PRESS. RATING (PSIG)	OPERATING WEIGHT (LBS)	NOTES
BT-A-B-1	BOILER RM A012 / BUILDING A HOT WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-B-P1-1	MECH P105 / BUILDING B HOT WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-B-P1-2	MECH P105 / BUILDING B CHILLED WATER	TACO BTH0350F06-125N	350	125	3825	1
BT-C-1-1	MEP C109 / BUILDING C CHILLED WATER	TACO BTH0700F06-125N	700	125	7130	1
BT-C-1-2	MEP C109 / BUILDING C HOT WATER	TACO BTH0700F06-125N	700	125	7130	1

NOTES:
1. TOP VENT & BOTTOM DRAIN.

KITCHEN HOOD AIR BALANCE

HOOD TAG	LOCATION	HOOD EXHAUST CFM	MAKE-UP CFM SUPPLY TO HOOD	MAKE-UP CFM SUPPLY TO SPACE	ROOM OFFSET	RATIO SUPPLY CFM TO EXHAUST CFM	VAV SUPPLY AIR TERMINAL		MAKE-UP AIR UNIT	
							TAG	MIN. CFM	TAG	MIN. CFM
HOOD #1	BLDG A LEVEL 1	3120	2496	0	-624	80%	FPT-A-1-10	624	MUA-A-P2-1	2496
HOOD #2	BLDG A LEVEL 1	3120	2652	0	-468	85%	FPT-A-1-10	468	MUA-A-P2-1	2652
HOOD #3	BLDG A LEVEL 1	1050	0	0	-1050	N/A	FPT-A-1-10	1050	N/A	N/A

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_____
checked by _____
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date 5/31/2024

revisions:

no.	date	by
2	5/31/2024	IFC 3

IFC Set 3 of 3

5/31/2024

MECHANICAL SCHEDULES

M0.03

MAKE-UP AIR UNIT

DESIGNATION	NEPTRONIC MODEL NUMBER	MAXIMUM AIRFLOW (CFM)	SERVICE / LOCATION	STATIC PRESSURE (IN. WG)	ELECTRICAL			OPERATING WEIGHT (LBS)	OVERALL DIMENSIONS (LxWxH) (INCHES)	COLLAR SIZE (INCHES)	NOTES
					VOLTAGE / PHASE	POWER RATING (kW)	AMP RATING				
MUA-A	CMU-12-I-160-A	750	UNITS A	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-B	CMU-12-I-160-A	750	UNITS B	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-C	CMU-12-I-160-A	750	UNITS C	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-D	CMU-12-I-160-A	750	UNITS D	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-E	CMU-12-I-160-A	750	UNITS E	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-F	CMU-12-I-160-A	750	UNITS F	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-G	CMU-12-I-160-A	750	UNITS G	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-H	CMU-12-I-160-A	750	UNITS H	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-I	CMU-12-I-160-A	750	UNITS I	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-J	CMU-12-I-160-A	750	UNITS J	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-K	CMU-12-I-160-A	750	UNITS K	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-L	CMU-12-I-160-A	750	UNITS L	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-M	CMU-12-I-160-A	750	UNITS M	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-N	CMU-12-I-160-A	750	UNITS N	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-O	CMU-12-I-160-A	750	UNITS O	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	12Ø	1
MUA-P	CMU-06-I-015-A	150	UNITS P	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	6Ø	
MUA-Q	CMU-06-I-015-A	150	UNITS Q	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	6Ø	

NOTES:
1. UNIT TO NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.

PUMPS

DESIGNATION	LOCATION/ SERVICE	GRUNDFOS MODEL NUMBER	TYPE	GPM	HEAD (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	RPM	MOTOR			EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	OPER. WEIGHT (LBS)	NOTES
									BRAKE HP	NON-OVERLOADING HP	VOLTAGE/ PHASE				
PCHWP-A-B-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-A-B-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PHWP-A-B-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-A-B-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-A-B-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	73	175	1750	6.54	5	480/3	N	Y	307	
SCHWP-A-B-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	73	175	1750	6.54	5	480/3	N	Y	307	
SHWP-A-B-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
SHWP-A-B-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
BP-A-B-1	BOILER 1	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-2	BOILER 2	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-3	BOILER 3	TPE3 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
PCHWP-B-P1-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-B-P1-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	3450	9.85	10	480/3	N	Y	307	1
PHWP-B-P1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-B-P1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-B-P1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SCHWP-B-P1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SHWP-B-P1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
SHWP-B-P1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
BP-B-P1-1	BOILER 1	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-2	BOILER 2	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-3	BOILER 3	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
SMBP-B-P1-1	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	1750	28.97	40	480/3	N	Y	307	1
SMBP-B-P1-2	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	3450	28.97	40	480/3	N	Y	307	1
SMBP-B-P1-3	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	3450	28.97	40	480/3	N	Y	307	1
PCHWP-C-1-1	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PCHWP-C-1-2	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PHWP-C-1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
PHWP-C-1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
SCHWP-C-1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SCHWP-C-1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
BP-C-1-1	BOILER 1	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-2	BOILER 2	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-3	BOILER 3	TPE3-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	

GENERAL NOTES:
A. SITE ELEVATION: 7,000 FT

NOTES:
1. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

HOT WATER BOILER

DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	TYPE	FUEL	INPUT (MBH)	OUTPUT (MBH)	GPM	EWT (°F)	LWT (°F)	PRESS DROP (FT H2O)	PRESS RATING (PSIG)	FLUE SIZE (INCHES)	ELECTRICAL			EMERGENCY POWER (Y/N)	NOTES
														FLA	MCA	VOLTAGE/ PHASE		
B-A-B-1	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-2	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-3	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-1	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-2	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-3	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-4	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-5	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-6	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-7	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-8	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-9	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-C-1-1	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-2	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-3	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

NOTES:
1. REDUNDANT UNIT.

FANS

DESIGNATION	LOCATION/ SERVICE	COOK MODEL NUMBER	TYPE	CFM	STATIC PRESSURE (IN. WG.)	RPM	BHP	MOTOR		EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	OPERATING WEIGHT (LBS)	SOUND DATA (dBA)									NOTES
								HP	VOLTAGE/ PHASE				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	TOTAL	
GEF-A-P2-1	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-A-P2-2	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-A-P2-3	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	460/3	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GTF-A-P2-01	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-02	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-03	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-04	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-05	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-06	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-07	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-08	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4, 7
GTF-A-P2-09	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-10	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-11	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-12	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-A-P2-13	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-01	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	460/3	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-02	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	460/3	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-03	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-04	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P2-05	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GEF-B-P1-1	TOWER-B P2 / GARAGE EX	QMX 270QMX	MIXED FLOW	15000	1.00	1122	4.1	5	460/3	Y	Y	800	83	87	90	88	84	81	76	67	90	2
GEF-B-P1-2	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-3	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-4	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GEF-B-P1-5	TOWER-B P1 / GARAGE EX	EWD 36EW620D11	WALL PROP	2815	1.00	1140	1.5	3	460/3	Y	Y	200	NA	NA	NA	NA	NA	NA	NA	NA	78	2
GTF-B-P1-01	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-02	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-03	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-04	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-05	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	460/3	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-06	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-07	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-B-P1-08	TOWER-B P1 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GEF-C-P1-1	TOWER-C P1 / GARAGE EX	SQNB 245SQN-B	INLINE	5000	1.00	902	1.6	2	460/3	N	Y	275	77	80	86	76	74	73	67	59	81	2
EF-A-B-1	TOWER-A B / ELEC A018	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
EF-A-B-2	TOWER-A B / ELEVATOR CONTROL ROOM A015	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-B-3	TOWER-A B / ELEVATOR CONTROL ROOM A022	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-P2-1	TOWER-A P2 / TOWER-A GENERAL EX	180SQN-B	INLINE	3600	1.00	1725	1.0	1 1/2	460/3	N	Y	250	88	89	88	86	86	83	77	70	90	
EF-A-P2-2	TOWER-A P2 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-A-P2-3	TOWER-A P2 / TRASH ROOM	100SQN-B	INLINE	550	0.50	1725	0.1	1/6	208/1	N	N	50	80	74	65	62	60	59	51	42	66	
EF-A-1-1	TOWER-A LEVEL 1 / HOOD EXHAUST	120SQN-B	INLINE	1050	0.50	1444	0.21	1/4	277/1	N	N	100	69	70	71	66	60	58	54	48	68	
EF-B-B-1	TOWER-B STORAGE ELEC PANEL RM B006	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
EF-B-B-2	TOWER-B / ELEVATOR CONTROL ROOM B007	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-B-3	TOWER-B / ELEVATOR CONTROL ROOM B008	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-P2-1	TOWER-B P2 / TOWER-B POOL MECH P260	120SQN-B	INLINE	300	0.50	1725	0.1	1/6	208/1	N	N	50	89	87	80	82	80	80	80	70	87	
EF-B-P2-2	TOWER-B P2 / TOWER-B POOL MECH P267	100SQN-B	INLINE	600	0.50	1725	0.1	1/6	208/1	N	N	50	80	74	65	62	60	59	51	42	66	
EF-B-P2-3	TOWER-B P2 / GENERATOR ROOM	120SQN17D	INLINE	1000	0.50	1725	0.3	1/3	208/1	N	Y	59	70	77	78	75	67	62	60	53	75	
EF-B-P2-4	TOWER-B P2 / FUEL STORAGE	120SQNB	INLINE	150	1.00	1795	0.168	0.25	277/1	N	N	50	82	81	73	73	72	71	68	61	78	8
EF-B-P1-1	TOWER-B P1 / RESI KITCHEN HOOD	150SQN-B	INLINE	1200	1.50	1725	0.6	3/4	460/3	N	Y	100	84	81	78	76	76	74	71	64	81	
EF-B-P1-2	TOWER-B P1 / TOWER-A GENERAL EX	180SQN-B	INLINE	1600	1.00	1725	1.0	1 1/2	460/3	N	Y	150	87	89	86	83	83	81	75	68	88	
EF-B-P1-3	TOWER-A P2 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-B-P1-4	TOWER-B B / TOWER-B TRASH P258	120SQN-B	INLINE	650	1.00	1725	0.2	1/4	208/1	N	N	75	82	81	73	73	72	71	68	61	78	
EF-C-P1-1	TOWER-C P1 / TOWER-C AMENITY EX	100SQN-B	INLINE	880	1.00	2455	0.419	0.75	277/1	N	Y	50	92	85	79	76	73	72	69	61	80	
EF-C-P1-2	TOWER-C P1 / TRASH RM	120SQNB	INLINE	150	1.00	1795	0.168	0.25	277/1	N	N	50	82	81	73	73	72	71	68	61	78	
EF-C-P1-3	TOWER-C P1 / GARAGE EX	150SQNB	INLINE	2900	0.30	1725	0.602	0.75	2777/1	N	Y	175	74	72	82	75	69	68	66	60	78	
EF-C-P1-4	TOWER-C P1 / GARAGE EX	150SQNB	INLINE	2200	0.30	1725	0.602	0.75	2777/1	N	Y	175	76	74	80	74	70	68	65	59	65	
EF-C-1-1	TOWER-A 1 / TELECOM ROOM	100SQN-B	INLINE	950	0.33	2020	0.227	1/4	277/1	N	N	80	85	81	74	71	68	66	61	53	75	
EF-C-8-1	TOWER-C ELEC RM	80SQN-B	INLINE	475	0.33	1563	0.094	1/6	277/1	N	N	80	84	80	72	69	66	64	58	50	73	
GTF-C-P1-01	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-02	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-03	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
GTF-C-P1-04	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	460/3	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	3, 4
EF-C-O-2	TOWER-C UNIT O / KITCHEN EXHAUST	100SQN-B	INLINE	600	0.33	1524	0.104	1/6	208/1	N	N	80	80	74	65	62	60	59	51	42	66	
EF-C-O-3	TOWER-C UNIT O / BATHROOM EXHAUST	80SQN-B	INLINE	350	0.33	1348	0.063	1/6	208/1	N	N	80	77	71	66	62	59	55	48	39	65	
TX-A-R-1	TOWER-A ROOF	135-CPV-VF2	UTILITY SET	1050	1.0	1463	0.3	1/3	460/3	N	ECM	95	85	82	74	69	66	65	58	52	73	
TX-A-R-2	TOWER-A ROOF	135-CPV-VF2	UTILITY SET	1450	1.0	1572	332w	3/4	460/3	N	ECM	95	87	84	75	71	68	66	61	54	75	
DX-A-R-1	TOWER-A ROOF	80 CPV-VF2	UTILITY SET	450	1.0	2626	0.3	1/3	460/3	N	ECM	65	91	89	86	83	77	72	67	61	84	
DX-A-R-2	TOWER-A ROOF	80 CPV-VF2	UTILITY SET	450	1.0	2626	0.3	1/3	460/3	N	ECM	65	91	89	86	83	77	72	67	61	84	
KX-A-R-1	TOWER-A ROOF	165 CPV-VF2	UTILITY SET	2400	1.0	1140	0.6	5/8	460/3	N	ECM	150	74	75	77	68	70	65	57	50	74	
KX-A-R-2	TOWER-A ROOF	165-CPV-VF2	UTILITY SET	2400	1.0	1140	0.6	5/8	460/3	N	ECM	150	74	75	77	68	70	65	57	50	74	
BEF-A-1	TOWER-A B / BOILER VENT	ENERVEX TDF300	INLINE	1180	0.676	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-A-2	TOWER-A B / BOILER COMBUSTION AIR	ENERVEX BEF315x	CENTRIFIGUAL	770	0.035	2100	0.4	3/5	460/3	N	N	84	77	80	89	80	81	78	73	68	86	6
BEF-B-1	TOWER-B P1 / SNOW MELT BOILER VENT	ENERVEX TDF500	INLINE	4280	1.178	1950	2.8	3 3/4	460/3	N	N	164	84	84	82	81	76	71	69	72	73	5
BEF-B-2	TOWER-B P1 / HEATING BOILER VENT	ENERVEX TDF300	INLINE	1218	0.449	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-B-3	TOWER-B P1 / HEATING BOILER COMBUSTION AIR	ENERVEX BEF315x	CENTRIFIGUAL	770	0.009	2100	0.4	3/5	460/3	N	N	84	77	80	89	80	81	78	73	68	86	6
BEF-B-4	TOWER-B P1 / SNOW MELT BOILER COMBUSTION	ENERVEX BEF450x	CENTRIFIGUAL	2512	0.094	1500	1.1	1 1/2	460/3	N	N	142	84	86	88	84	82	78	75	70	87	6
BEF-B-5	TOWER-B P1 / WATER HEATER VENT	ENERVEX TDF300	INLINE	772	0.828	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-B-6	TOWER-B P1 / WATER HEATER COMBUSTION AIR	ENERVEX BEF315x	CENTRIFIGUAL	513	0.013	2100	0.4	3/5	460/3	N	N	84	77	80	89	80	81	78	73	68	86	6
BEF-B-7	TOWER-B P1 / POOL HEATER VENT	ENERVEX TDF300	INLINE	1638	0.000	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-B-8	TOWER-B P1 / POOL HEATER COMBUSTION AIR	ENERVEX BEF315x	CENTRIFIGUAL	926	0.324	2100	0.4	3/5	460/3	N	N	84	77	80	89	80	81	78	73	68	86	6
BEF-B-9	TOWER-B LVL 1 / FIREPLACE VENT	ENERVEX TDF300	INLINE	600	0.449	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-C-1	TOWER-C 1 / BOILER VENT	ENERVEX TDF300	INLINE	1663	0.774	2200	1.5	2	460/3	N	N	84	76	78	80	73	74	70	66	61	79	5
BEF-C-2	TOWER-C 1 / BOILER COMBUSTION AIR	ENERVEX BEF315x	CENTRIFIGUAL	1026	0.007	2100	0.4	3/5	460/3	N	N	84	77	80	89	80	81	78	73	68	86	6
SPF-B-P1-1	TOWER-B P1 / STAIR 04A	150QMX	MIXED FLOW	4000	2.0	2137	1.97	5	460/3	Y	Y	526	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPF-B-P1-2	TOWER-B P1 / STAIR 03A	180QMX	MIXED FLOW	5000	2.0	1689	2.48	5	460/3	Y	Y	628	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPF-B-P1-3	TOWER-B P1 / STAIR 03B	202QMX	MIXED FLOW	7000	2.0	1558	3.24	7 1/2	460/3	Y	Y	718	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPF-B-P1-4	TOWER-B P1 / STAIR 04B	150QMX	MIXED FLOW	4000	2.0	2137	1.97	5	460/3	Y	Y	526	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPF-C-R-1	TOWER-C ROOF / STAIR PRESS.	180QMX	MIXED FLOW	5000	2.0	1689	2.48	5	460/3	Y	Y	628	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPF-C-R-2	TOWER-C ROOF / STAIR PRESS.	180QMX	MIXED FLOW	5000	2.0	1689	2.48	5	460/3	Y	Y	628	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TX-B-R-1	TOWER-B ROOF	150-CPV-VF2	UTILITY SET	1850	1.0	1441	406w	1	460/3	N	Y	110	80	79	81	74	72	70	63	56	78	
TX-B-R-2	TOWER-B ROOF	150-CPV-VF2	UTILITY SET	1800	1.0	1426	393w	1	460/3	N	Y	110	80	79	81	74	72	70	63	56	78	
DX-B-R-1	TOWER-B ROOF	120-CPV-VF2	UTILITY SET	900	1.0	1674	198w	1/2	460/3	N	ECM	89	88	85	75	70	66	65	60	53	75	
DX-B-R-2	TOWER-B ROOF	120-CPV-VF2	UTILITY SET	900	1.0	1674	198w	1/2	460/3	N	ECM	89	88	85	75	70	66	65	60	53	75	
KX-B-R-1	TOWER-B ROOF	195-CPV-VF2	UTILITY SET	4800	1.0	1278	1.5	2	460/3	N	Y	187	87	82	85	77	76	73	68	64	82	
KX-B-R-2	TOWER-B ROOF	180-CPV-VF2	UTILITY SET	4000	1.0	1369	1.2	1 1/2	460/3	N	Y	167	88	82	87	78	77	74	69	65	83	
TX-C-R-1	TOWER-C ROOF	150-CPV-VF2	UTILITY SET	1750	1.00	1446	0.508	1.00	460/3	N	ECM	268	80	79	81	74	72	70	63	56	78	
TX-C-R-2	TOWER-C ROOF	150-CPV-VF2	UTILITY SET	1750	1.00	1446	0.508	1.00	460/3	N	ECM	268	80	79	81	74	72	70	63	56	78	
DX-C-R-1	TOWER-C ROOF	80-CPV-VF2	UTILITY SET	500	1.00	1947	0.184	1.00	460/3	N	ECM	164	83	84	79	78	72	67	60	52	79	
DX-C-R-2	TOWER-C ROOF	80-CPV-VF2	UTILITY SET	500	1.00	1947	0.184	1.00	460/3	N	ECM	164	83	84	79	78	72	67	60	52	79	
KX-C-R-1	TOWER-C ROOF	165-CPV-VF2	UTILITY SET	2800	1.00	1548	0.907	1.00	460/3	N	ECM	303	87	84	88	79	77	76	72	66	84	
KX-C-R-2	TOWER-C ROOF	165-CPV-VF2	UTILITY SET	2800	1.00	1548	0.907	1.00	460/3	N	ECM	303	87	84	88	79	77	76	72	66	84	
CF-A	BATHROOM CEILING FANS	PANASONIC FV-0511VK2	CEILING FAN	50	0.25	722	0.125	0.13	120/1	N	Y	10	NA	NA	NA	NA	NA	NA	NA	NA	23	1
CF-B	BATHROOM INLINE FANS	60SQN-B	INLINE	50	0.25	1213	0.024	1/6	120/1	N	N	80	86	79	67	66	63	60	52	42	70	

2

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

NOTES:
1. PANASONIC FAN SELECTED
2. SEE GARAGE EXHAUST FAN SPEED SCHEDULE ON THIS SHEET AND SPEC 23 09 63 FOR FAN SPEEDS AT VARIOUS OPERATING CONDITIONS.
3. PROVIDE THE FOLLOWING ACCESSORIES: INLET BELL, SCREEN FOR MOUNTING TO INLET BELL, SWITCHED DISCONNECT WITH NEMA-3R, OUTLET DEFLECTOR, UL-705 CERTIFICATION.
4. IF ALTERNATE GARAGE TRANSFER FAN IS SELECTED NEW MANUFACTURER MUST PERFORM CFD ANALYSIS AT THEIR COST TO DETERMINE FAN FLOW, QUANITY, AND LOCATIONS.
5. PROVIDE MOTOR DISCONNECT SWITCH, EBC 31 MODULATING PRESSURE CONTROLLER WITH XTP (120V-1PH) AND SMDS MODULATING DAMPER SYSTEM FOR EACH BOILER OR WATER HEATER (120V-1PH).
6. PROVIDE MOTOR DISCONNECT SWITCH, EDRIVE, XTP PRESSURE TRANSDUCER AND OUTDOOR STATIC PRESSURE SENSOR.
7. THESE FANS ALSO CONTROLLED VIA THERMOSTAT SHOWN ON SHEET M2.2A.02 G/L E/7. WHEN THERMOSTAT IS ABOVE 95-F OPERATE FAN UNTIL THERMOSTAT REACHES 85-F
8. SPARK PROOF FAN AND MOTOR.

PROFESSIONAL ENGINEER
No. 12196777-2202
MATTHEW WILLIAM [illegible]
STATE OF UTAH

Reserved for permit stamp

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drawn by __________
checked by __________
job no.
date 5/31/2024

revisions:

no.	date		by
2	5/31/2024	IFC 3	

IFC Set 3 of 3

5/31/2024

MECHANICAL
SCHEDULES

M0.04

FAN COIL (COOLING + HYDRONIC HEATING)

DESIGNATION	LOCATION / SERVICE	MANUF. MODEL NUMBER	CONFIGURATION	UNIT SIZE	CFM	ESP (IN. WG.)	COOLING													HEATING								FAN MOTOR		ELECTRICAL			EMERG. POWER (Y/N)	RAC NC	DIS NC	RAD SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						DIS SWLS AT OCTAVE BAND CENTER FREQUENCY HZ						OPER. WEIGHT (LBS)	NOTES
							CAPACITY		EAT		LAT		CHW ROWS	GPM	EWT (°F)	LWT (°F)	PD (FT H20)	CAPACITY (MBH)	EAT (°F)	LAT (°F)	HW ROWS	GPM	EWT (°F)	LWT (°F)	PD (FT H20)	HP	FLA	MOP	MCA	VOLTAGE/ PHASE				125	250	500	1000	2000	4000	125	250	500	1000	2000	4000		
							TOTAL (MBH)	SENSIBLE (MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)																																			
FCU-A-P2-2	RESTAURANT ELEC P264	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-A-1-2	VESTIBULE A112	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	300	0.5	6.9	6.0	76.0	60.7	52.0	51.2	3	1.0	42.0	56.2	0.2	9.0	74.0	100.2	2	1.2	120.0	105.6	0.4	1/15	2.6	15.0	3.2	208/1	N	28	16	60	54	53	48	38	25	63	59	57	55	51	45	122	
FCU-B-1-1	VESTIBULE B120	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	400	0.5	8.0	7.4	76.0	60.7	53.7	52.9	3	1.0	42.0	57.9	0.2	10.6	74.0	104.6	2	2.6	120.0	112.1	2.0	1/15	2.6	15.0	3.2	208/1	N	28	16	61	54	53	48	38	25	63	59	57	55	52	46	122	
FCU-B-P2-2	POOL MECH P267	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-B-P2-3	WATER ENTRY P257	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-B-P2-4	POOL MECH P260	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-B-P1-2	ELEV B-P3 CONTROL	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	179	
FCU-B-P1-3	MECH P105	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-C-1-1	MEP C109	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	179	
FCU-C-P1-2	VESTIBULE C002	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	425	0.5	5.0	5.4	76.0	60.7	60.7	60.7	3	0.4	42.0	66.6	0.1	9.8	74.0	100.9	2	1.5	120.0	107.3	0.7	1/15	2.6	15.0	3.2	208/1	N	29	18	61	55	54	48	38	26	64	60	58	56	52	47	122	
FCU-C-P1-3	SWITCHGEAR C010	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15.0	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-A-1	UNIT A BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	400	0.6	4.8	4.8	76.0	60.7	61.6	61.6	3	0.4	42.0	63.7	0.1	4.5	74.0	86.7	1	0.5	120.0	103.0	0.2	1/10	1.3	15	1.6	208/1	N	29	23	65	57	53	50	40	30	69	63	61	59	56	51	89	
FCU-A-2	UNIT A BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	6.5	6.1	76.0	60.7	59.6	55.3	3	0.5	42.0	65.0	0.1	8.1	74.0	94.6	1	1.8	120.0	111.4	3.6	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-A-3	UNIT A BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	9.0	8.7	76.0	60.7	55.0	53.9	3	1.0	42.0	59.3	0.2	7.8	74.0	92.1	1	1.2	120.0	107.4	1.6	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-A-4	UNIT A LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	18.8	16.4	76.0	60.7	53.9	52.6	3	2.8	42.0	55.4	0.9	16.6	74.0	95.8	2	1.7	120.0	100.7	1.0	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	179	
FCU-B-1	UNIT B BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	7.2	6.4	76.0	60.7	53.9	52.5	3	1.3	42.0	53.5	0.7	4.8	74.0	89.4	1	0.7	120.0	107.1	0.4	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-B-2	UNIT B BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.1	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.4	74.0	93.1	1	1.6	120.0	110.0	2.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-B-3	UNIT B BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	8.9	8.7	76.0	60.7	55.0	53.9	3	1.0	42.0	59.3	0.2	8.4	74.0	93.1	1	1.6	120.0	110.0	2.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-B-4	UNIT B LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1100	0.6	22.3	19.7	76.0	60.7	54.4	52.8	3	3.6	42.0	54.5	1.5	18.6	74.0	94.2	2	1.9	120.0	100.4	1.2	1/4	4.1	15	5.1	208/1	N	36	26	70	61	61	59	50	42	72	68	66	65	61	58	179	
FCU-C-1	UNIT C BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	800	0.6	8.4	8.8	76.0	60.7	62.7	62.7	3	0.7	42.0	68.5	0.1	13.3	74.0	93.4	1	2.7	120.0	110.4	10.9	1/6	4.1	15	5.1	208/1	N	32	19	65	57	57	54	45	36	67	62	61	60	56	51	172	
FCU-C-2	UNIT C BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	4.3	3.9	76.0	60.7	62.7	62.7	3	0.3	42.0	65.7	0.1	4.4	74.0	87.8	1	0.5	120.0	103.8	0.2	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-C-3	UNIT C BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	8.8	9.0	76.0	60.7	63.9	63.9	3	0.7	42.0	69.1	0.1	14.1	74.0	92.4	1	2.8	120.0	110.1	11.7	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	172	
FCU-C-4	UNIT C DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.7	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	4.5	74.0	90.8	1	0.7	120.0	107.9	0.4	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-C-5	UNIT C LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	22.5	21.6	76.0	60.7	55.9	54.1	3	3.0	42.0	56.7	1.1	21.7	74.0	94.2	2	2.5	120.0	102.4	2.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	179	
FCU-D-1	UNIT D BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	7.2	7.1	76.0	60.7	64.6	64.6	3	0.6	42.0	67.8	0.1	11.8	74.0	92.6	2	1.2	120.0	100.5	0.4	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-D-2	UNIT D BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	220	0.5	4.0	4.0	76.0	60.7	53.9	53.0	3	0.6	42.0	57.6	0.1	3.0	74.0	89.4	1	0.3	120.0	101.0	0.1	1/20	1.3	15	1.6	208/1	N	22	16	58	52	48	43	33	20	61	54	53	49	45	36	89	
FCU-D-3	UNIT D BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	8.8	8.8	76.0	60.7	61.9	61.9	3	0.8	42.0	64.6	0.1	11.8	74.0	92.6	2	1.2	120.0	100.5	0.4	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-D-4	UNIT D LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1000	0.6	20.8	18.2	76.0	60.7	54.0	52.6	3	3.3	42.0	54.6	1.3	18.4	74.0	95.7	2	2.0	120.0	101.8	1.3	1/4	4.1	15	5.1	208/1	N	35	24	68	60	60	58	48	40	70	66	64	63	60	56	179	
FCU-E-1	UNIT E BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	11.8	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.7	74.0	94.2	2	1.5	120.0	103.1	0.7	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-E-2	UNIT E BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	5.9	6.1	76.0	60.7	59.6	55.3	3	0.5	42.0	65.0	0.1	6.0	74.0	89.7	1	0.6	120.0	100.3	0.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-E-3	UNIT E BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	650	0.6	7.1	6.9	76.0	60.7	63.2	63.2	3	0.6	42.0	67.0	0.1	9.1	74.0	90.2	1	1.4	120.0	107.4	2.2	1/5	2.6	15	3.2	208/1	N	33	26	67	60	58	56	45	35	71	67	64	63	60	57	117	
FCU-E-4	UNIT E BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	380	0.6	4.5	4.7	76.0	60.7	61.1	61.1	3	0.4	42.0	63.4	0.1	4.8	74.0	89.4	1	0.7	120.0	107.1	0.4	1/10	1.3	15	1.6	208/1	N	28	21	64	56	52	49	39	29	68	62	61	58	55	50	89	
FCU-E-5	UNIT E LIVING ROOM	NAILOR D39VHZW	DUCTED/CEILING CONCEALED	15	1130	0.6	18.0	18.2	76.0	60.7	56.5	54.5	3	2.0	42.0	59.9	0.9	19.0	74.0	93.9	1	3.9	120.0	110.4	4.8	1/5	5.8	15	7.3	208/1	N	35	49	62	56	51	44	39	10	71	66	59	55	50	46	122	
FCU-F-1	UNIT F BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	10.0	9.0	76.0	60.7	54.3	53.2	3	1.3	42.0	57.3	0.3	9.2	74.0	95.1	1	3.2	120.0	114.5	10.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-F-2	UNIT F BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.8	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	5.9	74.0	96.6	2	0.7	120.0	103.8	0.1	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	92	
FCU-F-3	UNIT F BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	7.1	7.0	76.0	60.7	59.1	55.2	3	0.6	42.0	63.8	0.1	8.9	74.0	94.4	1	2.4	120.0	112.9	6.2	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-F-4	UNIT F BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	386	0.6	5.9	6.1	76.0	60.7	56.7	54.5	3	0.8	42.0	57.6	0.3	6.2	74.0	92.0	1	2.1	120.0	114.4	3.3	1/10	1.3	15	1.6	208/1	N	28	21	64	57	53	49	39	29	68	62	61	59	55	50	89	
FCU-F-5	UNIT F LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1200	0.6	20.0	19.9	76.0	60.7	55.9	54.3	3	2.5	42.0	57.9	0.8	20.0	74.0	93.6	2	2	120.0	100.3	0.2	1/3	4.1	15	5.1	208/1	N	39	29	72	62	62	60	52	44	74	70	67	66	63	60	179	
FCU-G-1	UNIT G BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	650	0.6	13.7	11.8	76.0	60.7	54.0	52.5	3	2.3	42.0	53.9	1.0	11.7	74.0	94.9	2	1.3	120.0	102.5	0.5	1/5	2.6	15	3.2	208/1	N	33	26	67	60	58	56	45	35	71	67	64	63	60	57	122	
FCU-G-2	UNIT G BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.6	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	5.8	74.0	92.4	1	1.7	120.0	113.6	2.2	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-G-3	UNIT G BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	460	0.5	6.6	6.3	76.0	60.7	59.4	55.3	3	0.6	42.0	64.6	0.1	8.3	74.0	94.7	1	2.0	120.0	112.0	4.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	65	61	59	57	54	48	117	
FCU-G-4	UNIT G BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.4	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	4.2	74.0	89.3	1	0.5	120.0	104.7	0.2	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-G-5	UNIT G LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	17.6	15.9	76.0	60.7	54.6	53.3	3	2.3	42.0	57.1	0.6	17.3	74.0	96.6	2	1.9	120.0	102.1	1.2	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	179	
FCU-H-1	UNIT H BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1000	0.6	11.9	12.0	76.0	60.7	61.5	61.5	3	1.0	42.0	65.9	0.2	15.6	74.0	92.2	1	3.9	120.0	112.2	22.2	1/4	4.1	15	5.1	208/1	N	35	24	68	60	60	58	48	40	70	66	64	63	60	56	172	
FCU-H-2	UNIT H BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	325	0.6	6.4	5.9	76.0	60.7	54.2	52.9	3	1.0	42.0	54.9	0.5	4.9	74.0	90.6	1	0.8	120.0	108.7	0.5	1/15	1.3	15	1.6	208/1	N	25	19	60	55	51	46	36	26	66	60	59	56	53	47	89	
FCU-H-3	UNIT H BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	325	0.6	3.7	3.8	76.0	60.7	61.9	61.9	3	0.3	42.0	65.3	0.1	4.7	74.0	90.1	1	0.7	120.0	107.5	0.4	1/15	1.3	15	1.6	208/1	N	25	19	60	55	51	46	36	26	66	60	59	56	53	47	89	
FCU-H-4	UNIT H BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	250	0.5	3.2	3.4	76.0	60.7	59.4	55.3	3	0.3	42.0	63.9	0.1	2.9	74.0	88.2	1	0.3	120.0	100.2	0.1	1/20	1.3	15	1.6	208/1	N	23	18	58	53	49	44	34	22	62	56	55	51	47	40	89	
FCU-H-5	UNIT H LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1500	0.5	16.8	16.7	76.0	60.7	62.5	62.5	3	1.3	42.0	68.7	0.1	20.5	74.0	90.2	1	2.9	120.0	106.0	2.6	1/5	6.3	15	7.9	208/1	N	40	29	70	59	56	51	44	40	64	62	62	60	57	54	215	
FCU-H-6	UNIT H DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.1	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.9	74.0	94.4	1	2.4	120.0	112.9	6.2	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-I-1	UNIT I BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	30	2500	0.6	23.3	23.5	76.0	60.7	64.7	64.7	3	1.7	42.0	69.8	0.1	34.0	74.0	90.2	1	6.8	120.0	110.0	3.6	3/4	8.7	15	10.9	208/1	N	36	26	71	64	58	52	49	46	72	68	67	66	63	61	296	1
FCU-I-2	UNIT I BEDROOM 2	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1900	0.6	15.7	15.5	76.0	60.7	66.1	66.1	3	1.1	42.0	71.2	0.1	25.1	74.0	89.6	1	4.5	120.0	108.9	6.3	3/4	6.3	15	7.9	208/1	N	48	34	80	73	71	73	68	58	72	74	73	74	71	70	250	2
FCU-I-3	UNIT I BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.0	5.2	76.0	60.7	59.8	55.4	3	0.5	42.0	61.6	0.1	6.7	74.0	93.3	1	4.6	120.0	117.3	14.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-I-4	UNIT I BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	6.0	6.4	76.0	60.7	60.4	60.4	3	0.6	42.0	65.4	0.1	8.5	74.0	93.5	1	1.8	120.0	110.9	3.6	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-I-5	UNIT I BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	6.5	6.2	76.0	60.7	54.6	53.3	3	1.0	42.0	55.2	0.5	6.2	74.0	93.8	1	3.3	120.0	116.5	7.8	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-I-6	UNIT I LIVING ROOM	NAILOR D39VHZW	DUCTED/CEILING CONCEALED	19	1900	0.6	36.0	33.8	76.0	60.7	54.5	53.5	3	4.6	42.0	57.6	0.3	22.7	74.0	99.8	2	5.4	120.0	104.8	21.4	1/4	8.5	15	10.6	208/1	N	40	61	60	56	52	46	42	36	79	75	69	67	64	62	179	
FCU-I-7	UNIT I DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	100	0.5	2.8	2.3	76.0	60.7	48.6	47.9	3	0.6	42.0	53.2	0.1	1.3	74.0	89.7	1	0.1	120.0	93.7	0.0	1/20	1.3	15	1.6	208/1	N	15	15	20	45	40	30	20	20	56	43	27	23	17	17	89	
FCU-J-1	UNIT J BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	12	1380	0.6	15.9	15.7	76.0	60.7	62.3	62.3	3	1.4	42.0	64.8	0.3	23.0	74.0	93.8	2	2.6	120.0	102.4	2.2	1/2	4.1	15	5.1	208/1	N	40	33	74	64	64	63	54	46	76	73	69	69	66	64	179	
FCU-J-2	UNIT J BEDROOM 2	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	12	900	0.6	9.8	10.0	76.0	60.7	62.6	62.6	3	0.8	42.0	67.7	0.1	15.1	74.0	94.1	2	1.4	120.0	98.0	0.6	1/5	4.1	15	5.1	208/1	N	33	21	66	58	58	56	47	38	68	64	63	61	58	54	179	
FCU-J-3	UNIT J BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	340	0.6	5.4	5.1	76.0	60.7	58.0	55.0	3	0.6	42.0	60.2	0.1	5.5	74.0	91.9	1	1.3	120.0	112.1	1.3	1/15	1.3	15	1.6	208/1	N	25	19	61	55	51	47	37	26	66	60	59	57	53	48	89	
FCU-J-4	UNIT J BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.9	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	5.9	74.0	92.8	1	2.0	120.0	114.5	3.0	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-J-5	UNIT J BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	370	0.6	5.6	6.0	76.0	60.7	56.3	54.3	3	0.8	42.0	57.3	0.3	4.2	74.0	86.3	1	0.4	120.0	101.0	0.1	1/10	1.3	15	1.6	208/1	N	26	21	63	56	52	48	38	28	68	62	60	58	55	49	89	
FCU-J-6	UNIT J LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1900	0.6	35.5	33.0	76.0	60.7	55.0	53.5	3	4.8	42.0	56.8	1.5	37.4	74.0	97.5	2	5.7	120.0	106.9	6.2	3/4	6.3	15	7.9	208/1	N	48	34	80	73	71	73	68	58	72	74	73	74	71	70	250	2
FCU-K-1	UNIT K BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	8	750	0.6	12.0	12.0	76.0	60.7	56.7	54.5	3	1.5	42.0	57.7	0.5	12.3	74.0	93.2	2	1.3	120.0	101.5	0.5	1/4	2.6	15	3.2	208/1	N	35	29	70	62	60	58	48	38	74	70	66	66	63	60	122	
FCU-K-2	UNIT K BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	400	0.6	8.8	7.5	76.0	60.7	53.2	51.6	3	2.0	42.0	51.1	1.8	6.1	74.0	91.0	1	1.6	120.0	112.9	1.9	1/10	1.3	15	1.6	208/1	N	29	23	65	57	53	50	40	30	69	63	61	59	56	51	89	
FCU-K-3	UNIT K BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	6.7	6.7	76.0	60.7	55.2	53.7	3	1.0	42.0	55.8	0.5	7.6	74.0	96.6	2	1.1	120.0	106.6	0.3	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	92	
FCU-K-4	UNIT K BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	6.1	6.2	76.0	60.7	56.9	54.6	3	0.8	42.0	57.7	0.3	6.3	74.0	92.1	1	2.3	120.0	114.8	3.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-K-5	UNIT K BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	4.4	4.6	76.0	60.7	60.2	60.2	3	0.4	42.0	62.8	0.1	4.2	74.0	87.8	1	0.5	120.0	103.8	0.2	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-K-6	UNIT K LIVING ROOM	NAILOR D39VHZW	DUCTED/CEILING CONCEALED	19	1900	0.6	48.0	37.9	76.0	60.7	51.9	50.7	3	10.2	42.0	51.4	0.3	41.0	74.0	99.8	1	5.4	120.0	104.8	21.4	1/4	8.5	15	10.6	208/1	N	46	61	79	75	69	67	64	61	64	59	56	50	46	39	250	2
FCU-L-1	UNIT L BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	6.7	6.7	76.0	60.7	55.2	53.7	3	1.0	42.0	55.8	0.5	7.0	74.0	94.5	2	0.8	120.0	103.3	0.1	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	92	
FCU-L-2	UNIT L BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	7.4	7.4	76.0	60.7	56.1	54.3	3	0.8	42.0	60.8	0.2	7.2	74.0	92.7	1	1.1	120.0	107.2	1.4	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-L-3	UNIT L BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.6	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	5.7	74.0	92.1	1	1.5	120.0	112.9	1.7	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-L-4	UNIT L BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.5	4.8	76.0	60.7	56.6	54.5	3	0.6	42.0	59.3	0.1	4.5	74.0	90.8	1	0.7	120.0	107.9	0.4	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-L-5	UNIT L LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	12	1380	0.6	26.6	23.9	76.0	60.7	55.1	53.2	3	4.6	42.0	53.7	2.5	24.8	74.0	95.4	2	3.4	120.0	105.4	3.8	1/2	4.1	15	5.1	208/1	N	40	33	74	64	64	63	54	46	76	73	69	69	66	64	179	
FCU-M-1	UNIT M BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	450	0.5	7.4	7.4	76.0	60.7	56.1	54.3	3	0.8	42.0	60.8	0.2	7.8	74.0	93.7	1	1.4	120.0	109.4	2.2	1/10	2.6	15	3.2	208/1	N	29	19	62	55	54	49	39	27	64	61	58	56	53	48	117	
FCU-M-2	UNIT M BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	550	0.6	8.8	8.9	76.0	60.7	56.3	54.4	3	1.0	42.0	59.6	0.2	9.8	74.0	99.2	2	1.3	120.0	105.4	0.5	1/8	2.6	15	3.2	208/1	N	31	23	64	57	56	52	42	31	68	64	61	60	57	53	122	
FCU-M-3	UNIT M BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.5	5.1	76.0	60.7	58.3	55.1	3	0.6	42.0	60.4	0.1	5.7	74.0	92.1	1	1.5	120.0	112.9	1.7	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-M-4	UNIT M BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.5	5.1	76.0	60.7	58.3	55.1	3	0.6	42.0	60.4	0.1	5.7	74.0	92.1	1	1.5	120.0	112.9	1.7	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-M-5	UNIT M BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.8	6.2	76.0	60.7	56.9	54.6	3	0.8	42.0	57.7	0.3	5.4	74.0	89.4	1	0.9	120.0	108.8	0.6	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-M-6	UNIT M LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1900	0.6	29.9	29.8	76.0	60.7	57.0	54.6	3	3.3	42.0	60.1	0.7	30.3	74.0	93.0	2	2.9	120.0	99.2	1.6	3/4	6.3	15	7.9	208/1	N	48	34	80	73	71	73	68	58	72	74	73	74	71	70	250	2
FCU-N-1	UNIT N BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	500	0.6	7.6	7.7	76.0	60.7	57.3	54.8	3	0.8	42.0	61.6	0.1	8.0	74.0	92.4	1	1.3	120.0	108.2	1.9	1/8	2.6	15	3.2	208/1	N	30	20	63	56	55	51	40	29	66	62	60	58	55	50	117	
FCU-N-2	UNIT N BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	700	0.6	11.8	11.6	76.0	60.7	56.0	54.2	3	1.5	42.0	57.2	0.5	13.3	74.0	96.2	2	1.8	120.0	105.5	1.0	1/5	2.6	15	3.2	208/1	N	34	28	68	61	59	57	46	36	72	68	65	64	61	58	122	
FCU-N-3	UNIT N BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.8	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	6.0	74.0	93.1	1	2.3	120.0	115.1	3.9	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-N-4	UNIT N BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	350	0.6	5.8	5.9	76.0	60.7	55.7	54.1	3	0.8	42.0	56.9	0.3	6.1	74.0	93.5	1	2.7	120.0	115.8	5.3	1/15	1.3	15	1.6	208/1	N	26	20	62	56	52	48	38	27	67	61	60	57	54	48	89	
FCU-N-5	UNIT N BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	6.6	6.7	76.0	60.7	55.2	53.7	3	1.0	42.0	55.8	0.5	6.4	74.0	92.4	1	2.6	120.0	115.4	4.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-N-6	UNIT N LIVING ROOM	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1800	0.6	26.2	26.1	76.0	60.7	58.5	55.2	3	2.5	42.0	62.6	0.4	26.8	74.0	91.6	1	7.6	120.0	113.0	17.8	1/2	6.3	15	7.9	208/1	N	46	33	79	73	70	73	67	57	72	73	72	72	70	69	250	2
FCU-O-1	UNIT O BEDROOM 1	NAILOR D35FHZW	DUCTED/CEILING CONCEALED	20	1800	0.6	21.7	21.5	76.0	60.7	61.5	61.5	3	1.8	42.0	66.6	0.2	24.7	74.0	90.3	1	4.7	120.0	109.6	6.9	1/2	6.3	15	7.9	208/1	N	46	33	79	73	70	73	67	57	72	73	72	72	70	69	250	2
FCU-O-2	UNIT O BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.8	6.2	76.0	60.7	56.9	54.6	3	0.8	42.0	57.7	0.3	6.0	74.0	91.3	1	1.6	120.0	113.0	1.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-O-3	UNIT O BEDROOM 3	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.6	5.2	76.0	60.7	59.8	55.4	3	0.5	42.0	61.6	0.1	5.7	74.0	90.4	1	1.2	120.0	111.1	1.1	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-O-4	UNIT O BEDROOM 4	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.6	5.2	76.0	60.7	59.8	55.4	3	0.5	42.0	61.6	0.1	5.9	74.0	90.9	1	1.4	120.0	112.1	1.5	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-O-5	UNIT O BEDROOM 5	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1300	0.6	17.0	16.7	76.0	60.7	60.5	55.9	3	1.6	42.0	62.8	0.4	19.0	74.0	91.8	2	1.8	120.0	97.9	1.0	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	179	
FCU-O-6	UNIT O LIVING ROOM	NAILOR D35VHZW	DUCTED/CEILING CONCEALED	30	1400	0.6	45.6	31.9	76.0	60.7	48.0	47.3	3	12.1	42.0	49.5	0.1	35.6	74.0	105.0	2	8.4	120.0	111.5	2.4	1/4	8.7	15	10.9	208/1	N	34	18	66	61	59	57	51	38	65	61	60	59	55	49	250	
FCU-O-7	UNIT O HALL	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1200	0.6	15.3	15.4	76.0	60.7	61.7	61.7	3	1.4	42.0	64.4	0.3	17.5	74.0	89.8	1	3.8	120.0	110.9	21.1	1/3	4.1	15	5.1	208/1	N	39	31	73	63	63	62	53	45	75	72	68	68	65	63	172	
FCU-O-8	UNIT O DEN	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	12	1200	0.6	39.0	27.4	76.0	60.7	48.0	47.4	4	12.1	42.0	48.4	0.3	25.5	74.0	100.0	2	5.9	120.0	111.3	11.3	1/6	4.1	15	5.1	208/1	N	38	29	72	62	62	60	52	44	74	70	67	66	63	60	185	
FCU-P-1	UNIT P BEDROOM 1	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	3.9	3.7	76.0	60.7	61.1	61.1	3	0.3	42.0	64.8	0.1	3.2	74.0	86.5	1	0.3	120.0	99.0	0.1	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-P-2	UNIT P BEDROOM 2	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	5.6	5.2	76.0	60.7	59.8	55.4	3	0.5	42.0	61.6	0.1	4.1	74.0	85.8	1	0.4	120.0	100.7	0.1	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	89	
FCU-P-3	UNIT P LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	8	600	0.6	13.1	11.2	76.0	60.7	53.4	52.0	3	2.3	42.0	53.6	1.0	13.4	74.0	100.1	2	2.6	120.0	109.9	2.0	1/6	2.6	15	3.2	208/1	N	32	24	65	58	57	54	43	33	69	65	63	61	58	55	122	
FCU-Q-1	UNIT Q BEDROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	300	0.6	4.3	4.3	76.0	60.7	58.8	55.1	3	0.4	42.0	62.1	0.1	3.9	74.0	88.1	1	0.4	120.0	102.3	0.1	1/15	1.3	15	1.6	208/1	N	24	18	59	54	50	45	35	24	65	59	58	55	52	45	89	
FCU-Q-2	UNIT Q LIVING ROOM	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	9.6	7.6	76.0	60.7	52.3	50.7	3	2.5	42.0	49.7	2.7	9.0	74.0	100.5	2	2.3	120.0	112.5	1.1	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	92	
FCU-R-1	UNIT R	NAILOR D37FHZW	DUCTED/CEILING CONCEALED	5	390	0.6	11.1	8.1	76.0	60.7	50.8	49.1	3	4.1	42.0	47.5	6.8	9.4	74.0	101.6	2	3.1	120.0	114.2	1.9	1/10	1.3	15	1.6	208/1	N	28	23	64	57	53	50	40	29	69	62	61	59	55	51	92	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.
B. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS.
C. PROVIDE GOOGLE NEST LEARNING THERMOSTAT FOR ALL RESIDENTIAL FAN COIL UNITS WITH ABILITY TO CONTROL BOTH TEMPERATURES AND HUMIDIFIER
NOTES:
1. PROVIDE SMOKE CONTROL DETECTOR AT INLET OF FANCOIL.
2. PROVIDE BARRICADE B-10 SERIES ACOUSTIC WRAP WITH VELCRO FLAP TO MAINTAIN UNIT ACCESS.

No. 12196777-2202
MATTHEW WILLIAM LANGSINE

Reserved for permit stamp

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____
checked by ______________
job no.
date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

MECHANICAL
SCHEDULES

M0.05

AIR SEPARATOR SCHEDULE

DESIGNATION	SERVICE	MANUF. MODEL NUMBER	TYPE	FLOW RATE	PRESS RATING	PRESS DROP	OPER. WEIGHT	REMARKS
				GPM	PSIG	FT H2O	LBS	
AS-A-B-1	BOILER RM A012 / BUILDING A CHILLED WATER	B&G R-6F	CENTRIFUGAL	245	125	2.5	579	1,2,3
AS-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	B&G R-4F	CENTRIFUGAL	223	125	2.5	278	1,2
AS-A-B-3	BOILER RM A012 / BUILDING A HOT WATER	B&G R-6F	CENTRIFUGAL	224	125	2.5	579	1,2,3
AS-A-B-4	BOILER RM A012 / BUILDING A HOT WATER	B&G R-4F	CENTRIFUGAL	205	125	2.5	278	1,2
AS-B-P1-1	MECH P105 / BUILDING B CHILLED WATER	B&G R-6F	CENTRIFUGAL	245	125	2.5	579	1,2,3
AS-B-P1-2	MECH P105 / BUILDING B CHILLED WATER	B&G R-4F	CENTRIFUGAL	223	125	2.5	278	1,2
AS-B-P1-3	MECH P105 / BUILDING B HOT WATER	B&G R-6F	CENTRIFUGAL	224	125	2.5	579	1,2,3
AS-B-P1-4	MECH P105 / BUILDING B HOT WATER	B&G R-4F	CENTRIFUGAL	205	125	2.5	278	1,2
AS-B-P1-5	MECH P105 / SNOWMELT SYSTEM	B&G R-8F	CENTRIFUGAL	960	125	2.5	1,211	1,2,3
AS-C-1-1	MEP C106 / BUILDING C CHILLED WATER	B&G R-6F	CENTRIFUGAL	189	125	2.5	579	1,2,3
AS-C-1-2	MEP C106 / BUILDING C CHILLED WATER	B&G R-4F	CENTRIFUGAL	172	125	2.5	278	1,2
AS-C-1-3	MEP C106 / BUILDING C HOT WATER	B&G R-6F	CENTRIFUGAL	174	125	2.5	579	1,2,3
AS-C-1-4	MEP C106 / BUILDING C HOT WATER	B&G R-4F	CENTRIFUGAL	158	125	2.5	278	1,2

NOTES:
1. A BLOWDOWN CONNECTION FOR ROUTINE CLEANING OF THE UNIT.
2. INTEGRAL AIR VENT AT TOP OF UNIT.
3. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

EXPANSION TANK

DESIGNATION	LOCATION/ SERVICE	B&G MODEL NUMBER	TYPE	SYSTEM VOLUME (GALLONS)	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	PRESS. RATING (PSIG)	OPERATING WEIGHT (LBS)	NOTES
ET-A-B-1	BOILER RM A012 / BUILDING A CHILLED WATER	B165	BLADDER	1500	44	44	125	517	1
ET-A-B-2	BOILER RM A012 / BUILDING A CHILLED WATER	B50	BLADDER	750	13	13	125	157	
ET-A-B-3	BOILER RM A012 / BUILDING A HOT WATER	B800	BLADDER	1450	132	132	125	2233	1
ET-A-B-4	BOILER RM A012 / BUILDING A HOT WATER	B200	BLADDER	800	53	53	125	651	
ET-B-P1-1	MECH P105 / BUILDING B CHILLED WATER	B130	BLADDER	1200	34	34	125	408	1
ET-B-P1-2	MECH P105 / BUILDING B CHILLED WATER	B50	BLADDER	700	13	13	125	157	
ET-B-P1-3	MECH P105 / BUILDING B HOT WATER	B500	BLADDER	1150	132	132	125	1450	1
ET-B-P1-4	MECH P105 / BUILDING B HOT WATER	B200	BLADDER	1000	53	53	125	651	
ET-B-P1-5	MECH P105 / SNOWMELT SYSTEM	B1200	BLADDER	2500	317	317	125	3320	1
ET-C-1-1	MEP C106 / BUILDING C CHILLED WATER	B130	BLADDER	1250	34	34	125	408	1
ET-C-1-2	MEP C106 / BUILDING C CHILLED WATER	B50	BLADDER	800	13	13	125	157	
ET-C-1-3	MEP C106 / BUILDING C HOT WATER	B500	BLADDER	1250	132	132	125	1450	1
ET-C-1-4	MEP C106 / BUILDING C HOT WATER	B200	BLADDER	800	53	53	125	651	

NOTES:
1. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

FAN POWERED TERMINAL WITH HOT WATER COIL

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	UNIT SIZE	OUTLET DUCT SIZE (INCHES)	FAN			PRIMARY CFM		HEATING CFM	HEATING COIL							ELECTRICAL			RAC NC	DIS NC	RAD SWLS AT OCTAVE BAND CENTER FREQUENCY HZ							DIS SWLS AT OCTAVE BAND CENTER FREQUENCY HZ							WEIGHT (LBS)	NOTES
					CFM	ESP (IN WG)	FLA	MAXIMUM	MINIMUM	MAXIMUM	CAPACITY (MBH)	GPM	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	HW COIL ROWS	MOP	MCA	VOLTAGE/ PHASE			125	250	500	1000	2000	4000	125	250	500	1000	2000	4000		
FPT-A-B1-1	GAME LOUNGE A003	NAILOR D37SWST	410	41 x 9	1665	0.5	5.3	1665	520	1665	24.9	1.8	120	91.5	64	81.1	2	15	6.6	277/1	36	31	71	63	56	52	47	42	76	72	71	71	68	65	175	
FPT-A-B1-2	EMPLOYEE BREAK A008	NAILOR D37SWST	105	14 5/8 x 8 3/4	300	0.5	1.3	300	100	300	7.4	1.0	120	105.8	64	89.6	2	15	1.6	277/1															95	
FPT-A-B1-3	BOWLING LOUNGE A004	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	910	1290	20.3	1.4	120	90.4	64	82.5	2	15	6.6	277/1	30	25	66	58	52	48	44	40	71	67	66	66	62	58	175	
FPT-A-B1-4	BOWLING LANE A004	NAILOR D37SWST	308	24 x 9	1085	0.5	4.4	1085	330	1085	14.0	1.0	120	92.1	64	79.1	2	15	5.5	277/1	34	34	69	62	56	52	45	39	77	74	69	67	65	62	123	
FPT-A-1-1	SPA LOUNGE A113	NAILOR D37SWST	208	24 x 9	570	0.5	2.2	570	220	570	12.6	1.5	120	103.5	64	89.6	2	15	2.8	277/1	23	19	57	51	49	45	37	32	66	58	57	52	48	42	123	
FPT-A-1-2	TREATMENT SINGLE A104	NAILOR D37SWST	104	14 5/8 x 8 3/4	210	0.5	1.3	210	50	210	3.1	0.5	120	109.2	64	88.4	1	15	1.6	277/1	15	20	32	43	38	32	26	20	64	52	41	31	23	20	93	
FPT-A-1-3	LOCKER ROOM A123 / LOBBY A100	NAILOR D37SWST	308	24 x 9	960	0.5	4.4	960	390	960	14.5	1.3	120	96.0	64	81.3	2	15	5.5	277/1	33	33	68	61	55	51	44	38	77	73	68	67	64	61	123	
FPT-A-1-4	LOCKER ROOM A122	NAILOR D37SWST	206	24 x 9	570	0.5	2.2	570	200	570	12.4	1.7	120	105.7	64	91.6	2	15	2.8	277/1	22	19	57	50	48	45	37	32	66	58	57	51	46	40	123	
FPT-A-1-5	PRIVATE DINING A111	NAILOR D37SWST	308	24 x 9	1000	0.5	4.4	1000	360	1000	18.8	2.9	120	107.2	64	86.9	2	15	5.5	277/1	33	31	68	59	54	50	42	38	77	72	67	66	63	60	123	
FPT-A-1-6	FITNESS A121	NAILOR D37SWST	410	41 x 9	1820	0.5	5.3	1820	660	1820	34.4	5.3	120	107.0	64	87.3	2	15	6.6	277/1	36	31	71	63	56	52	47	43	76	72	71	71	68	65	175	
FPT-A-1-7	STRENGTH TRAINING A120	NAILOR D37SWST	208	24 x 9	795	0.5	2.2	795	300	795	15.0	1.6	120	101.6	64	85.8	2	15	2.8	277/1	26	21	63	56	52	48	42	37	67	64	60	56	53	50	123	
FPT-A-1-8	YOGA A119	NAILOR D37SWST	208	24 x 9	700	0.5	2.2	700	490	700	10.8	4.1	120	114.9	64	81.5	1	15	2.8	277/1	26	20	61	54	52	47	40	36	67	62	59	55	51	47	120	
FPT-A-1-9	TREATMENT DOUBLE A115	NAILOR D37SWST	105	14 5/8 x 8 3/4	275	0.5	1.3	275	110	275	5.2	1.8	120	114.6	64	84.5	1	15	1.6	277/1	19	24	56	51	45	40	34	28	67	58	51	43	37	30	93	
FPT-A-1-10	KITCHEN	NAILOR D37SWST	410	41 x 9	1050	0.5	5.3	1050	320	1050	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-1	GUEST BUSINESS CENTER B109	NAILOR D37SWST	410	41 x 9	1100	0.5	5.3	1100	320	1100	30.1	2.9	120	99.4	64	96.9	3	15	6.6	277/1	26	20	63	55	50	45	43	39	68	63	64	62	58	54	180	
FPT-B-1-2	MANAGER OFFICE B106	NAILOR D37SWST	410	41 x 9	1080	0.5	5.3	1080	320	1080	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-3	SKI LOUNGE KITCHEN B105	NAILOR D37SWST	208	24 x 9	630	0.5	2.2	630	190	630	4.4	0.3	120	84.0	64	72.4	1	15	2.8	277/1	24	20	59	53	50	46	39	34	67	60	58	54	49	44	120	
FPT-B-1-4	SKI LOUNGE B108 W	NAILOR D37SWST	410	41 x 9	980	0.5	5.3	980	320	980	30.6	3.3	120	101.5	64	98	3	15	6.6	277/1	26	20	63	55	50	45	42	39	67	63	64	62	58	54	180	
FPT-B-1-5	SKI LOUNGE B108 NW	NAILOR D37SWST	410	41 x 9	1710	0.5	5.3	1710	510	1710	41.0	4.0	120	99.5	64	92.3	3	15	6.6	277/1	36	31	71	62	56	52	47	42	75	72	71	70	68	65	180	
FPT-B-1-6	SKI LOUNGE B106 B107 INTERIOR NORTH	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	810	1290	19.7	1.5	120	93.1	64	84.6	2	15	6.6	277/1	28	21	64	56	51	46	43	39	69	64	65	63	59	56	175	
FPT-B-1-7	SKI LOUNGE B106 B107 INTERIOR SOUTH	NAILOR D37SWST	208	24 x 9	660	0.5	2.2	660	470	660	9.8	2.1	120	111.0	64	80.6	1	15	2.8	277/1	25	20	60	53	51	47	39	35	67	61	59	54	50	46	120	
FPT-B-1-8	KIDS ROOM B113	NAILOR D37SWST	410	41 x 9	1200	0.5	5.3	1200	360	1200	20.3	1.5	120	92.8	64	84.3	2	15	6.6	277/1	28	23	64	56	51	47	43	39	69	65	65	64	60	56	175	
FPT-B-1-9	SKI VALET BOH B121	NAILOR D37SWST	208	24 x 9	600	0.5	2.2	600	180	600	11.0	0.9	120	96.1	64	85.2	2	15	2.8	277/1	23	19	58	52	49	45	38	33	66	59	57	53	48	43	123	
FPT-B-1-10	SKI VALET B119 AND MISC INT ZONES	NAILOR D37SWST	410	41 x 9	1150	0.5	5.3	1150	420	1150	30.0	4.5	120	106.7	64	89.1	2	15	6.6	277/1	33	26	68	59	53	49	44	40	73	68	68	67	63	60	175	
FPT-B-1-11	SKI LOCKERS B110	NAILOR D37SWST	106	14 5/8 x 8 3/4	420	0.5	1.3	420	130	420	11.8	1.8	120	107.2	64	96.4	3	15	1.6	277/1															97	
FPT-B-1-12	SKI LOUNGE B107 E	NAILOR D37SWST	410	41 x 9	1290	0.5	5.3	1290	390	1290	31.2	2.5	120	94.8	64	92.8	3	15	6.6	277/1	30	24	66	58	52	48	44	40	71	66	66	65	62	58	180	
FPT-B-1-13	BC CONNECTOR	NAILOR D37SWST	410	41 x 9	1200	0.5	5.3	1200	360	1200	38.0	10.3	120	112.6	64	101.8	3	15	6.6	277/1	28	23	64	56	51	47	43	39	69	65	65	64	60	56	180	
FPT-C-1-1	SKIER LOUNGE C101	NAILOR D37SWST	410	41 x 9	1500	0.5	5.3	1500	480	1500	41.0	4.0	120	99.5	64	92.3	3	15	6.6	277/1	36	31	71	62	56	52	47	42	75	72	71	70	68	65	180	
FPT-C-1-2	SKIER LOUNGE C101	NAILOR D37SWST	208	24 x 9	800	0.5	2.2	800	240	800	14.3	1.5	120	100.7	64	85.4	2	15	2.8	277/1	26	21	63	56	52	48	42	37	67	64	61	57	53	50	123	
FPT-C-1-3	MEP C109 / LOUNGE C111	NAILOR D37SWST	208	24 x 9	475	0.5	2.2	475	150	475	6.7	0.7	120	101.5	64	80	1	15	2.8	277/1	21	16	56	50	47	44	37	31	64	57	55	50	45	37	120	
FPT-C-1-4	GOLF SIMULATOR C107	NAILOR D37SWST	106	14 5/8 x 8 3/4	420	0.5	1.3	420	190	420	9.3	1.6	120	108.7	64	89.1	2	15	1.6	277/1															95	
FPT-C-1-5	GOLF SIMULATOR C108	NAILOR D37SWST	206	24 x 9	520	0.5	2.2	520	240	520	11.7	1.3	120	102.5	64	89.7	2	15	2.8	277/1	22	19	57	50	48	45	37	32	66	58	57	52	46	40	123	
FPT-C-1-6	STORAGE C110A	NAILOR D37SWST	206	24 x 9	430	0.5	2.2	430	130	430	4.9	0.3	120	90.0	64	76.6	1	15	2.8	277/1	21	18	55	49	47	44	38	32	65	57	55	49	44	35	120	
FPT-C-1-7	CORRIDOR C102	NAILOR D37SWST	206	24 x 9	335	0.5	2.2	335	110	335	4.9	0.3	120	90.0	64	76.6	1	15	2.8	277/1	21	18	55	49	47	44	38	32	65	57	55	49	44	35	120	

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

SPLIT SYSTEM

FAN COIL (INDOOR UNIT) SCHEDULE

DESIGNATION	LG MODEL NUMBER	TYPE	ROOM SERVICED	FAN CFM	ESP (IN. WG)	REFRIGERANT	COOLING				FAN MOTOR			WEIGHT (LBS)	SOUND DATA				NOTES
							TOTAL MBH	EAT		LAT					HIGH (dBA)	MEDIUM (dBA)	LOW (dBA)	SLEEP (dBA)	
								DB (°F)	WB (°F)	DB (°F)	WB (°F)	FLA	MCA	VOLTAGE/ PHASE					
FCU-A-P2-1	LSN363HLV3	DUCTLESS	ELEC SWITCHBOARD P214	1095	0.5	410a	34.0	80	67	53	75	NA	NA	208/1	40.8	51	47	43	33	
FCU-A-1-1	LSN090HSV5	DUCTLESS	FIRE COMMAND CENTER A124	459	0.5	410a	6.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-A-6-1	LSN243HLV3	DUCTLESS	ELEC A602	813	0.5	410a	20.0	80	67	53	75	NA	NA	208/1	36.6	49	44	40	30	
FCU-A-B1-1	LSN120HSV5	DUCTLESS	STORAGE A001	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-B-B-1	ARNU303SVA4	DUCTLESS	FIRE PUMP ROOM B011	812	0.5	410a	30.0	80	67	53	75	NA	NA	208/1	37	49	44	42	NA	1
FCU-B-P2-1	LSN120HSV5	DUCTLESS	ELEC EMERGENCY P265	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-B-P1-1	LSN243HLV3	DUCTLESS	ELECTRICAL P107	813	0.5	410a	20.0	80	67	53	75	NA	NA	208/1	36.6	49	44	40	30	
FCU-B-7-1	LSN120HSV5	DUCTLESS	ELEC B706	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	
FCU-C-P1-1	LSN120HSV5	DUCTLESS	ELEC ROOM C007	459	0.5	410a	12.0	80	67	53	75	NA	NA	208/1	18.3	39	33	23	19	

AIR COOLED CONDENSER (OUTDOOR UNIT) SCHEDULE

DESIGNATION	LG MODEL NUMBER	COOLING CAPACITY MBH	OUTDOOR TEMP (°F)	SEER	ELECTRICAL			WEIGHT (LBS)	SOUND DATA (dBA)	NOTES
					MOP	MCA	VOLTAGE/ PHASE			
CU-A-P2-1	LSU363HLV3	34	14	18.5	30	23	208/1	147.9	55	
CU-A-P2-2	LSU090HSV5	9	14	23.5	15	10	208/1	74.1	45	
CU-A-R-1	LSU243HLV3	22	14	21.5	30	19	208/1	135.4	55	
CU-A-P2-3	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-B-P2-2	ARUN060GSS4	60	14	NA	40	25.4	208/1	260	57	
CU-B-P2-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-B-P1-1	LSU243HLV3	22	14	21.5	30	19	208/1	135.4	55	
CU-B-R-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	
CU-C-P1-1	LSU120HSV5	12	14	22.7	15	10	208/1	74.1	45	

GENERAL NOTES:
A) UNLESS NOTED OTHERWISE, ALL SPLIT SYSTEM INDOOR UNITS ARE POWERED FROM THE OUTDOOR UNIT. LINE VOLTAGE WIRING FROM OUTDOOR UNIT TO INDOOR UNIT BY DIVISION 26.
B) ALL SPLIT SYSTEMS TO BE ON EMERGENCY POWER.
C) ALL SPLIT SYSTEMS TO BE COOLING ONLY, PROVIDED WITH CONDENSATE PUMP.
D) REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RL / RS SIZING

NUMBERED NOTES:
1. PROVIDE TWO HEADS IN THE FIRE PUMP ROOM B011

REMOTE RADIATOR (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	CFM	STATIC PRESSURE (IN. WG.)	RPM	BHP	CIRCUIT-1			CIRCUIT-2			MOTOR		OPERATING WEIGHT (LBS)	SOUND DATA (dBA)	NOTES
							GPM	INLET TEMP (°F)	OUTLET TEMP (°F)	GPM	INLET TEMP (°F)	OUTLET TEMP (°F)	HP	VOLTAGE/ PHASE			
RR-B-P1-1	REMOTE RADIATOR FOR GENSET	YOUNG TOUCHSTONE VB	27000	1.00	666	14	160	219	203.8	80	167.6	146	15	460/3	4517	82 @ 25 FT	1

NOTES:
1. SYSTEM DESIGNED WITH 50% ETHYLENE GLYCOL AND 7,000 FT ELEVATION.

POLLUTION CONTROL UNIT

DESIGNATION	MANUF. MODEL NUMBER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA AMPS	WEIGHT (LBS)	SONES	NOTES
PCU-A-B-1	CAPTIVEAIRE KB25	6240	2.0	1356	TECH, HIGH TEMP WASHDOWN	10.0	5.8	3	460	12.0	4,352	27	1,2

NOTES:
1. COMPLY WITH UL762.
2. MERV 15 HIGH EFFICIENCY FILTERS, MERV 18 HEPA FILTERS AND CARBON FILTERS.

PUMP - GENERATOR REMOTE RADIATOR (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

DESIGNATION	LOCATION/ SERVICE	MANUF. MODEL NUMBER	TYPE	GPM	HEAD (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	RPM	MOTOR			EMERG. POWER (Y/N)	VAR. SPEED (Y/N)	NOTES
									BRAKE HP	NON-OVERLOADING HP	VOLTAGE/ PHASE			
RRP-B-P2-1	GENSET REMOTE RADIATOR	SCOT 471-4.38x2x2	END SUCTION	80	50	72	175	3500	1.48	2	480/3	N	N	1

NOTES:
1. SYSTEM DESIGNED WITH 50% ETHYLENE GLYCOL AND 7,000 FT ELEVATION

KITCHEN HOOD MAKE-UP AIR UNIT

DESIGNATION	MANUF. MODEL NUMBER	BLOWER	HOUSING	MIN. CFM	DESIGN CFM	ESP (IN. WG.)	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA (A)	MOCP (A)	EVAP FLOW RATE (GAL/HR)	EVAP COOLER ENTERING DB TEMP. (°F)	EVAP COOLER ENTERING WB TEMP.(°F)	EVAP COOLER LEAVING DB TEMP.(°F)	EVAP COOLER LEAVING WB TEMP.(°F)	WEIGHT (LBS)	SONES	GAS INPUT BTUs	GAS OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFCIENCY(%)	NOTES
MUA-A-P2-1	CAPTIVEAIRE A2-D.500-20D	20MF-2-MOD	A2-D.500	2500	5148	0.5	2105	ODP, PREMIUM	7.50	4.14	3	460	9.6	12	20	7	95	63	76	63	928	27	323777	297875	70ºF	7 IN. W.C. - 14 IN. W.C.	NATURAL	92	1,2

NOTES:
1. MOTORIZED BACK DRAFT DAMPER.
2. EVAP COOLER (LPD CELDEK), MERV 8 FILTER.

MECH KITCHEN HOOD (FOR INFORMATION ONLY, FURNISHED BY OTHERS)

HOOD NO.	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP. (°F)	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		FILTER(S)					LIGHT(S)			FIRE SYSTEM PIPING	HOOD HANGING WEIGHT (LBS)	NOTES
									HEIGHT	DIA	CFM	VELOCITY (FPM)	SP (IN. W.G.)			END TO END	ROW	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD			
1	6024 ND-2-PSP-F	CAPITVEAIRE	13' 0"	600	I	HEAVY	240	3120	4"	18"	3120	1766	- 1.011"	2496	430 SS WHERE EXPOSED	LEFT	ALONE	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO	YES	679	1
2	6024 ND-2-PSP-F	CAPITVEAIRE	13' 0"	600	I	HEAVY	240	3120	4"	18"	3120	1766	- 1.011"	2652	430 SS WHERE EXPOSED	RIGHT	ALONE	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E27	NO	YES	1142	1
3	5424 VHB-G	CAPITVEAIRE	7' 0"	700	II	N/A	150	1050	4"	12"	1050	1337	- 0.129"	0	430 SS 100%	ALONE	ALONE	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A	NO	218	

NOTES:
1. BALANCE DAMPERS.

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IFC Set 2 of 3
5/17/2024

MECHANICAL SCHEDULES

M0.06

LOUVER COORDINATION MATRIX - REFERENCE ARCH SPECIFICATION AND SELECTIONS

EQUIPMENT	SERVICE	EXHAUST LOUVERS						INTAKE LOUVERS					
		TYPE	AIR VOLUME (CFM)	VELOCITY (FPM)	SQFT NFA	LOCATION	NOTES	TYPE	AIR VOLUME (CFM)	VELOCITY (FPM)	SQFT NFA	LOCATION	NOTES
GEF-A-X	GARAGE TOWER-A LVL-P2	EXHAUST	7800	750	10.4	A-B/4	3	INTAKE	7800	600	13.0	A-D/12	2, 6
GEF-B-X	GARAGE TOWER-B LVL-P1	EXHAUST	11,260	750	15.0	B-T/22	3	INTAKE	11260	500	22.5	B-L/18	2, 6
GEF-B-X	GARAGE TOWER-B LVL-P2	EXHAUST	15,000	750	20.0	B-T/22	3	INTAKE	15000	600	25.0	A-D/12	2, 6
EF-B-1-HOOD	KITCHEN B105 HOOD	EXHAUST	1,200	750	1.6	B-J/18	3	-	-	-	-	-	-
BEF-B-3,4,6	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	13380	600	22.3	B-K/20	4
GEF-C-X	GARAGE TOWER-C LVL-P1	EXHAUST	5100	750	6.8	C-A/9	3	INTAKE	5100	500	10.2	C-C/10	2, 6
AHU-A-B-1	VENTILATION TOWER-A LVL-B	EXHAUST	1280	750	1.7	A-B/4	3	INTAKE	1500	600	2.5	A-I/12	4
AHU-A-1-1	VENTILATION TOWER-A LVL-1 DINNING	EXHAUST	2700	750	3.6	A-B/4	3	INTAKE	2700	600	4.5	Wal Louver	4
EF-A-1-1	KITCHEN PROOFER EXHAUST	EXHAUST	1050	750	1.4	A-B/4	3	-	-	-	-	-	-
AHU-A-B-2	VENTILATION TOWER-A LVL-1	EXHAUST	1760	750	2.3	A-B/4	3	INTAKE	2000	600	3.3	A-I/12	4
B-A-B-1, 2, 3	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	1050	600	1.8	A-I/12	4
AHU-A-1-3	KITCHEN EXHAUST TOWER-A LVL-1	EXHAUST	6400	750	8.5	A-B/4	1	INTAKE	6400	600	10.7	A-A/4	4
AHU-B-1-1	VENTILATION TOWER-B LVL-B	EXHAUST	650	750	0.9	B-T/22	3	INTAKE	1525	600	2.5	B-U/20	4
AHU-P1-1	VENTILATION TOWER-B LVL-1	EXHAUST	2800	750	3.7	B-T/22	3	INTAKE	1600	600	2.7	B-U/20	4
AHU-L-1-1	VENTILATION MAIN LOBBY LVL-1	-	-	-	-	-	-	INTAKE	400	500	0.8	Wal Louver	4
AHU-C-1-1	VENTILATION TOWER-C LVL-1	EXHAUST	1030	750	1.4	C-A/9	3	INTAKE	1030	600	1.7	C-B/9	4
BEF-C-2	BOILER COMBUSTION AIR	-	-	-	-	-	-	INTAKE	1050	600	1.8	C-B/9	4
EF-TR-A-P2	TOWER-A TRASH ROOM	EXHAUST	550	750	0.7	A-B/4	3	-	-	-	-	-	-
SPF-B-P1-1	TOWER-B STAIR-06 PRESSURIZATION	-	-	-	-	-	-	INTAKE	4000	600	6.7	B-U/20	4
SPF-B-P1-2	TOWER-B STAIR-07 PRESSURIZATION	-	-	-	-	-	-	INTAKE	5000	600	8.3	B-U/20	4
SPF-B-P1-3	TOWER-B STAIR-08 PRESSURIZATION	-	-	-	-	-	-	INTAKE	7000	600	11.7	B-U/20	4
SPF-B-P1-4	TOWER-B STAIR-09 PRESSURIZATION	-	-	-	-	-	-	INTAKE	4000	600	6.7	B-U/20	4
GENERATOR	GENERATOR RADIATOR AIR	EXHAUST	27000	750	36.0	B-T/22	3	INTAKE	27000	600	45.0	B-U/20	4
GENERATOR	GENERATOR COMBUSTION FLUE	EXHAUST	5000	-	-	-	1	INTAKE	5000	600	8.3	B-U/20	4
BOILER FLUE	BOILER FLUE EXHAUST	EXHAUST	TBD	-	-	-	5	-	-	-	-	-	-

NOTES:
1. EXHAUST CLEARANCE PER IMC 506.3.13.3: 10 HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES, 10 FEET ABOVE THE ADJOINING GRADE LEVEL. 10 FEET HORIZONTALLY FROM OR NOT LESS THAN 3 FEET ABOVE AIR INTAKE OPENINGS INTO ANY BUILDING. EXCEPTION: OUTLETS SHALL TERMINATE NOT LESS THAN 5 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDING, AN ADJACENT BUILDING, ADJACENT PROPERTY LINE AND AIR INTAKE OPENINGS INTO A BUILDING WHERE AIR FROM THE EXHAUST OUTLET DISCHARGES AWAY FROM SUCH LOCATIONS.
2. PASSIVE MAKEUP AIR INTAKE CLEARANCE PER IMC 401.4 (1): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT
3. ENVIRONMENTAL AIR EXHAUST CLEARANCE PER IMC 501.3.1 (3): 3 FEET FROM PROPERTY LINES; 3 FEET FROM OPERABLE OPENINGS INTO BUILDINGS, AND 10 FEET FROM MECHANICAL AIR INTAKES.
4. MECHANICAL AIR INTAKE CLEARANCE PER IMC 401.4 (2): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT; 10 FEET HORIZONTALLY FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE.
5. TERMINATION OF BOILER VENTS PER IMC 804 WITH POWER EXHAUSTERS SHALL BE LOCATED NOT LESS THAN 10-FT FROM THE LOT LINE OR FROM ADJ BUILDINGS AND EXHAUST SHALL BE LOCATED AWAY FROM BUILDINGS. HORIZONTAL TERMINATION: 1) ADJ TO WALKWAYS, TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL BE NOT LESS THAN 10-FT ABOVE LEVEL OF WALKWAY. 2) VENT SHALL TERMINATE AT LEAST 3-FT ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10-FT. 3) VENTS SHALL TERMINATE AT LEAST 4-FT BELOW, 4-FT HORIZONTALLY FROM OR 1-FT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING. 4) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO AN INTERIOR CORNER FORMED BY TWO WALLS PERPENDICULAR TO EACH OTHER. 5) VENT SHALL NOT BE MOUNTED DIRECTLY ABOVE OR WITHIN 3-FT HORIZONTALLY FROM AN OIL TANK VENT OR GAS METER. 6) BOTTOM OF THE VENT TERMINATION SHALL BE LOCATED AT LEAST 12" ABOVE FINISHED GRADE. VERTICAL TERMINATION: 1) ADJ TO WALKWAYS, TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL BE NOT LESS THAN 10-FT ABOVE LEVEL OF WALKWAY. 2) VENT SHALL TERMINATE AT LEAST 3-FT ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10-FT. 3) VENTS LOCATED BELOW AN ADJACENT ROOF STRUCTURE SHALL BE LOCATED NOT LESS THAN 3-FT FROM THE STRUCTURE. 4) VENTS SHALL TERMINATE AT LEAST 4-FT BELOW, 4-FT HORIZONTALLY FROM OR 1-FT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING. 5) VENT CAP SHALL BE INSTALLED TO PREVENT RAIN FROM ENTERING THE VENT SYSTEM AND 6) TERMINATION SHALL BE LOCATED NOT LESS THAN 3-FT HORIZONTALLY FROM ANY PORTION OF THE ROOF STRUCTURE.
6. ARCH SHALL PROVIDE PERF ROLL-UP DOOR FOR GARAGE INTAKE.

SNOW MELT HEADER

DESIGNATION	LOCATION / SERVICE	QUANTITY	FLOW GPM		LOOP			DESIGN SURFACE TEMP (°F)	FLUID TEMP. - LOOP		FLOOR TOTAL AREA (SQ FT)	TOTAL RADIANT LOAD (MBH)	NOTES
			TOTAL HEADER	PER LOOP	QTY. OF LOOPS	HEAD LOSS	TUBE TOTAL LENGTH (FT)		EWT (°F)	LWT (°F)			
SMH-SMA-1	POOLSIDE SIDEWALK	1	26.84	2.4	11	17.4	4038	36	135	105	2019	371	
SMH-SMA-2	POOL DECK	1	37.55	3.1	12	34.3	5647	36	135	105	2823	519	
SMH-SMA-3	ENTRY	1	28.37	2.6	11	20.2	4266	36	135	105	2133	373	
SMH-SMA-4	LOBBY ENTRY	1	87.53	2.7	33	21.8	13159	36	135	105	6580	1152	
SMH-SMA-5	BACK ENTRY	1	3.46	1.7	2	6.8	520	36	135	105	260	48	
SMH-SMB-1	POOL DECK	1	14.4	2.4	6	16.6	2164	36	135	105	1082	189	
SMH-SMB-2	SIDEWALK	1	28.2	2.6	11	19.9	4236	36	135	105	2118	371	
SMH-SMB-3	DRIVEWAY	1	108.5	2.7	41	21.7	16315	36	135	105	8157	1428	
SMH-SMC-1	SIDEWALK	1	16.9	7.0	7	16.9	2542	36	135	105	1271	234	
SMH-SMC-2	ENTRY	1	53.8	2.6	21	19.8	8085	36	135	105	4040	707	
SMH-AB-1	TOWER A LEVEL B WELL	1	0.7	0.7	1	0.2	106	36	135	105	53	10	
SMH-AP-1	TOWER A LEVEL P2 WELL	1	0.8	0.8	1	1.4	110	36	135	105	55	10	
SMH-AP-2	TOWER A LEVEL P2 WELL	1	0.5	0.5	1	0.4	68	36	135	105	34	6	
SMH-AP-3	TOWER A LEVEL P2 ENTRY WAY	1	2.2	1.1	2	3.3	304	36	135	105	152	27	
SMH-B1-1	TOWER B LVL 1 WELL	1	3.2	1.6	2	11.9	486	36	135	105	259	45	
SMH-B1-2	TOWER B LVL 1 WELL	1	1.3	1.3	1	6.6	196	36	135	105	98	18	
SMH-B1-3	TOWER B LVL 1 WELL	1	0.7	0.7	1	1.1	102	36	135	105	51	9	
SMH-CP-1	TOWER C LVL P1 WELL	1	0.9	0.9	1	2.2	130	36	135	105	65	12	
SMH-A-1	UNIT A / PLAN NORTH	9	1.2	1.2	1	5.7	186	36	135	105	88	17	
SMH-A-2	UNIT A / PLAN SOUTH	9	2.5	1.2	2	5.7	370	36	135	105	183	34	
SMH-B-1	UNIT B / PLAN NORTH	8	1.3	1.3	1	6.3	192	36	135	105	96	18	
SMH-B-2	UNIT B / PLAN SOUTH	8	1.3	1.3	1	6.3	192	36	135	105	97	18	
SMH-C-1	UNIT C	4	2.2	1.1	2	2.0	332	36	135	105	166	31	
SMH-D-1	UNIT D / PLAN NORTH	3	2.2	1.1	2	4.4	336	36	135	105	168	31	
SMH-D-2	UNIT D / PLAN SOUTH	3	2.0	2.0	1	21.0	300	36	135	105	150	28	
SMH-E-1	UNIT E	4	4.7	1.6	3	11.0	708	36	135	105	354	65	
SMH-F-1	UNIT F / PLAN WEST	3	3.2	1.6	2	11.9	486	36	135	105	243	45	
SMH-F-2	UNIT F / PLAN SOUTH	3	2.2	1.1	2	4.4	336	36	135	105	168	31	
SMH-G-1	UNIT G	1	5.1	2.5	2	40.4	762	36	135	105	381	70	
SMH-H-1	UNIT H / PLAN WEST	1	27.6	2.3	12	30.9	4146	36	135	105	2073	382	
SMH-H-2	UNIT H / PLAN NORTH	1	2.1	2.1	1	25.5	322	36	135	105	161	30	
SMH-I-1	UNIT I / PLAN NW	1	2.2	2.2	1	26.8	328	36	135	105	164	30	
SMH-I-2	UNIT I / PLAN NORTH CENTER	1	2.3	1.1	2	4.6	342	36	135	105	171	31	
SMH-I-3	UNIT I / PLAN NE	1	1.5	1.5	1	10.0	228	36	135	105	114	21	
SMH-I-4	UNIT I / PLAN SE	1	10.4	2.1	5	23.5	1562	36	135	105	937	143	
SMH-I-5	UNIT I / PLAN SW	1	10.7	2.1	5	25.2	1602	36	135	105	801	147	
SMH-J-1	UNIT J / PLAN NORTH	1	2.0	2.0	1	21.8	304	36	135	105	152	28	
SMH-J-2	UNIT J / PLAN WEST	1	3.2	1.6	2	11.9	486	36	135	105	259	45	
SMH-J-3	UNIT J / PLAN SOUTH	1	10.4	2.1	5	23.5	1562	36	135	105	774	144	
SMH-K-1	UNIT K / PLAN NORTH	1	2.2	2.2	1	25.9	324	36	135	105	161	30	
SMH-K-2	UNIT K / PLAN SOUTH	1	21.4	2.1	10	25.5	3220	36	135	105	1610	296	
SMH-L-1	UNIT L / PLAN SOUTH	1	9.2	1.9	5	16.6	1375	36	135	105	688	121	
SMH-M-1	UNIT M / PLAN SOUTH	6	2.3	1.1	2	4.6	342	36	135	105	342	31	
SMH-M-2	UNIT M / PLAN EAST	6	3.1	1.5	2	10.3	462	36	135	105	231	42	
SMH-N-1	UNIT N / PLAN NORTH	5	4.0	2.0	2	20.7	596	36	135	105	298	55	
SMH-N-2	UNIT N / PLAN WEST	5	3.9	1.9	2	19.5	584	36	135	105	292	54	
SMH-O-1	UNIT O / PLAN NORTH	1	33.1	3.7	9	62.0	2754	36	135	105	1377	458	
SMH-O-2	UNIT O / PLAN WEST	1	9.0	2.2	4	28.9	1348	36	135	105	674	124	
SMH-P-1	UNIT P	2	2.2	2.2	1	25.9	324	36	135	105	162	30	

GENERAL NOTES:

NOTES:

SILENCERS - BLDGS A & B

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DESIGNATION	SYSTEM	TYPE	DIMENSIONS			AIRFLOW, CFM	VELOCITY, FPM	IDEAL DP IN.W.G.	MAX DP W/SYS EFF. IN.W.G.	MINIMUM DYNAMIC INSERTION LOSS, Db						BASIS OF DESIGN VIBRO-ACOUSTICS MODEL NUMBER	NOTES
			DUCT WIDTH, IN.	DUCT HEIGHT, IN.	LENGTH, IN.					OCTAVE BAND CENTER FREQUENCY, HZ							
										125	250	500	1000	2000	4000		
SA-A-R-1	BLDG-A-WEST-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-A-R-2	BLDG-A-EAST-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	
SA-B-R-1	BLDG-B-NORTH-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-B-R-2	BLDG-B-SOUTH-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	

GENERAL NOTES:
A. TYPE: R - RECTANGULAR D - DISSIPATIVE
B. VELOCITY IS SHOWN + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
C. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
D. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
E. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
F. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.

SILENCERS - BLDG C

TAG NUMBER	SILENCER MODULE	EQUIPMENT SERVED	QUANTITY	SIZE (in)			AIRFLOW (CFM)	P.D. INCLUDING SYSTEM EFFECTS (in.wg)	PROJECT SOUND REQUIREMENT	MANUFACTURER	MODEL NUMBER	NOTES
				W	L	H						
SA-C-R-1	INTAKE SILENCER	ASHP-C-R-1	1	288	204	36	-95178	0.09	55 dBA ABOUT 7 FT TO THE CLOSEST PROPERTY LINE	VIBRO-ACOUSTICS	VA-AY29138	1,3,5,5,6
SA-C-R-2	DISCHARGE SILENCER	ASHP-C-R-1	1	198	86	96	95178	0.23				2,3,4,5,6
	PACKAGE OVERALL DIMENSION	ASHP-C-R-1	1	288	204	192	N/A	N/A				-

NOTES:
1. Rectangular Dissipative silencer integrated and to be installed on top of the pit wall(provided by others). Include 2" x 2" birdscreen at the inlet.
2. Rectangualr Dissipative silencer integrated and to be installed on top of the chiller with access doors. Include 2" x 2" birdscreen at the outlet.
3. Manufacturer must design self-supporting structural steel and withstand the seismic and wind load requirement. Manufacturer to provide calculations with PE stamp during the submittal process.
4. Alternate manufacturer must submit acoustical calculations with PE stamp to demonstrate that the silencers will result to dBA requirement as scheduled.
5. Alternate manufacturer must submit pressure drop calculations inlcuding system effects with PE stamp.
6. For non-basis of design product, contractor is financially responsible to meet the project sound requirement.

Olson Kundig
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Seattle, Washington 98104 USA
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project:
SOMMET BLANC
9300 Matsaic Ave (B2 East Parcel)
Park City, Utah 84060

ASPEN GROUP
Aspen Group USA, LLC
PO Box 980022
Park City, Utah 84098

Reserved for permit stamp

Pool Consultant
Cloward H20
2696 N University Ave, Suite 290
Provo, UT 84604

Landscape Architect
EPG Design
6949 South High Tech Drive, Suite 100
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Specifications Writer
Friday Group
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Code Consultant
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Vertical Transportation Consulatant
Lerch Bates
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Structural Engineer
Magnusson Klemencic Associates
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Seattle, WA 98101

Lighting Designer
O-
1319 SE MLK Blvd, Suite 210
Portland, Oregon 97219

Building Envelope Consultant
RDH
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Seattle, WA 98103

Accessibility Consultant
Studio Pacifica
2144 Westlake Ave N, Suite F
Seattle, WA 98109

MEP Engineer
WSP USA
1001 Fourth Ave., Suite 3100
Seattle, WA 98154

principal architect_____
project manager_____
drawn by_____
_____
checked by Checker
job no.
date 5/31/2024

revisions:

2 5/31/2024 IFC 3

no. date by

IFC Set 3 of 3

5/31/2024

MECHANICAL SCHEDULES

M0.07

TOWER HVAC LOADS

System Checksums
By WSP USA INC.

Bldg A — Fan Coil

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: Sum of
OADB: Peaks

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	27,847	0	27,847	2	28,874	3	Roof Cond	-39,143	-39,143	2.86
Glass Solar	193,638	0	193,638	15	302,448	32	Glass Solar	0	0	0.00
Glass/Door Cond	120,100	0	120,100	9	79,982	9	Glass/Door Cond	-586,918	-586,918	42.91
Wall Cond	65,321	0	65,321	5	72,508	8	Wall Cond	-152,289	-152,289	11.13
Partition/Door	3,413		3,413	0	4,221	0	Partition/Door	-65,347	-65,347	4.78
Floor	-1,891		-1,891	0	-1,693.77	0	Floor	-99,416	-99,416	7.27
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	22,001		22,001	2	9,418	1	Infiltration	-52,892	-52,892	3.87
Sub Total ==>	430,428	0	430,428	34	495,758	53	*Sub Total ==>*	-996,005	-996,005	72.82
Internal Loads							**Internal Loads**			
Lights	140,762	35,190	175,952	14	140,762	15	Lights	0	0	0.00
People	279,773	0	279,773	22	143,565	15	People	0	0	0.00
Misc	151,724	0	151,724	12	151,724	16	Misc	0	0	0.00
Sub Total ==>	572,258	35,190	607,449	48	436,051	47	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	236,446	19	0	0	**Ventilation Load**	0	-582,231	42.57
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-4,984	-4,984	0			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		210,380	-15.38
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	1,002,686	30,207	1,269,339	100.00	931,808	100.00	***Grand Total ==>***	-996,005	-1,367,857	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.8	94.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	77.1	56.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	60,807	43,936
Terminal	60,807	43,936
Main Fan	60,807	43,936
Sec Fan	0	0
Nom Vent	7,989	7,989
AHU Vent	7,989	7,989
Infil	726	726
MinStop/Rh	0	0
Return	61,533	44,662
Exhaust	8,714	8,714
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	13.1	18.2
cfm/ft²	0.81	0.59
cfm/ton	499.87	
ft²/ton	613.89	
Btu/hr·ft²	19.55	-33.02
No. People	515	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	121.7	1,459.7	1,033.0	60,807	77.1	62.4	76.1	57.8	53.9	66.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	121.7	1,459.7								

AREAS

	Gross Total	Glass ft²	(%)
Floor	74,677		
Part	23,376		
Int Door	1		
ExFlr	18,449		
Roof	15,886	0	0
Wall	48,867	17,965	37
Ext Door	58	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2,466.0	43,936	46.5	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2,466.0			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
Alternative - 2 System Checksums Report Page 1 of 7

System Checksums
By WSP USA INC.

Bldg B — Fan Coil

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: Sum of
OADB: Peaks

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	25,952	0	25,952	2	23,918	2	Roof Cond	-32,614	-32,614	2.44
Glass Solar	303,580	0	303,580	26	437,718	44	Glass Solar	0	0	0.00
Glass/Door Cond	141,412	0	141,412	12	99,657	10	Glass/Door Cond	-685,992	-685,992	51.25
Wall Cond	82,301	0	82,301	7	91,850	9	Wall Cond	-172,686	-172,686	12.90
Partition/Door	-18,958		-18,958	-2	-18,852	-2	Partition/Door	-18,538	-18,538	1.39
Floor	-1,131		-1,131	0	-794.54	0	Floor	-62,072	-62,072	4.64
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	15,728		15,728	1	9,021	1	Infiltration	-56,518	-56,518	4.22
Sub Total ==>	548,883	0	548,883	48	642,518	64	*Sub Total ==>*	-1,028,419	-1,028,419	76.84
Internal Loads							**Internal Loads**			
Lights	132,206	33,052	165,258	14	132,206	13	Lights	0	0	0.00
People	200,840	0	200,840	17	111,578	11	People	0	0	0.00
Misc	114,644	0	114,644	10	114,644	11	Misc	0	0	0.00
Sub Total ==>	447,690	33,052	480,741	42	358,428	36	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	113,941	10	0	0	**Ventilation Load**	0	-449,819	33.61
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		8,822	8,822	1			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		139,790	-10.44
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	996,573	41,874	1,152,388	100.00	1,000,946	100.00	***Grand Total ==>***	-1,028,419	-1,338,448	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.1	88.6
Ra Plenum	120.0	50.0
Return	74.7	69.9
Ret/OA	76.3	61.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	70,056	58,087
Terminal	70,056	58,087
Main Fan	70,056	58,087
Sec Fan	0	0
Nom Vent	6,244	6,244
AHU Vent	6,244	6,244
Infil	783	783
MinStop/Rh	0	0
Return	70,839	58,870
Exhaust	7,028	7,028
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.9	10.7
cfm/ft²	0.88	0.73
cfm/ton	634.35	
ft²/ton	723.03	
Btu/hr·ft²	16.60	-28.93
No. People	446	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	110.4	1,325.3	1,041.4	70,056	76.3	63.9	85.2	59.1	57.5	80.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	110.4	1,325.3								

AREAS

	Gross Total	Glass ft²	(%)
Floor	79,849		
Part	10,259		
Int Door	1		
ExFlr	11,487		
Roof	13,236	0	0
Wall	56,030	20,988	37
Ext Door	87	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2,309.8	58,087	55.0	88.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2,309.8			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
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System Checksums
By WSP USA INC.

Bldg C — Fan Coil

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: Sum of
OADB: Peaks

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	24,809	0	24,809	3	22,124	3	Roof Cond	-31,244	-31,244	3.00
Glass Solar	181,717	0	181,717	19	281,059	36	Glass Solar	0	0	0.00
Glass/Door Cond	98,441	0	98,441	10	69,397	9	Glass/Door Cond	-477,009	-477,009	45.80
Wall Cond	51,971	0	51,971	5	61,322	8	Wall Cond	-113,693	-113,693	10.92
Partition/Door	2,214		2,214	0	2,192	0	Partition/Door	-28,840	-28,840	2.77
Floor	-939		-939	0	21.09	0	Floor	-46,928	-46,928	4.51
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	19,274		19,274	2	7,349	1	Infiltration	-45,079	-45,079	4.33
Sub Total ==>	377,488	0	377,488	39	443,464	56	*Sub Total ==>*	-742,792	-742,792	71.31
Internal Loads							**Internal Loads**			
Lights	101,355	25,339	126,694	13	101,355	13	Lights	0	0	0.00
People	149,967	0	149,967	16	83,315	11	People	0	0	0.00
Misc	78,821	0	78,821	8	78,821	10	Misc	0	0	0.00
Sub Total ==>	330,143	25,339	355,482	37	263,491	34	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	154,641	16	0	0	**Ventilation Load**	0	-363,440	34.89
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	588	588	-0.06
Ov/Undr Sizing	79,271		79,271	8	79,271	10	**Exhaust Heat**		0	0.00
Exhaust Heat		-3,204	-3,204	0			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		64,052	-6.15
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	786,903	22,135	963,679	100.00	786,226	100.00	***Grand Total ==>***	-742,204	-1,041,592	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.6	60.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	43,719	39,207
Terminal	43,719	39,207
Main Fan	43,719	39,207
Sec Fan	0	0
Nom Vent	4,987	4,987
AHU Vent	4,987	4,987
Infil	619	619
MinStop/Rh	0	0
Return	44,337	39,826
Exhaust	5,605	5,605
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.4	12.7
cfm/ft²	0.67	0.60
cfm/ton	478.52	
ft²/ton	709.68	
Btu/hr·ft²	16.91	-26.64
No. People	333	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	91.4	1,096.3	819.9	43,719	76.6	61.2	70.5	55.0	51.9	62.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	91.4	1,096.3								

AREAS

	Gross Total	Glass ft²	(%)
Floor	64,838		
Part	7,236		
Int Door	1		
ExFlr	9,517		
Roof	12,680	0	0
Wall	37,680	14,609	39
Ext Door	29	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1,727.6	39,207	52.8	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1,727.6			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:46 AM on 05/19/2022
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System Checksums
By WSP USA INC.

AHU-A-1-1 restaurant (Future) — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	7,315	0	7,315	4	11,331	13	Glass Solar	0	0	0.00
Glass/Door Cond	9,133	0	9,133	6	7,152	8	Glass/Door Cond	-45,097	-45,097	16.64
Wall Cond	3,272	0	3,272	2	4,283	5	Wall Cond	-8,340	-8,340	3.08
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-374		-374	0	-148.12	0	Floor	-13,501	-13,501	4.98
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	1,119		1,119	1	434	0	Infiltration	-2,655	-2,655	0.98
Sub Total ==>	20,464	0	20,464	12	23,053	26	*Sub Total ==>*	-69,593	-69,593	25.67
Internal Loads							**Internal Loads**			
Lights	9,387	2,347	11,734	7	9,387	11	Lights	0	0	0.00
People	38,136	0	38,136	23	19,170	22	People	0	0	0.00
Misc	36,799	0	36,799	22	36,799	41	Misc	0	0	0.00
Sub Total ==>	84,322	2,347	86,669	52	65,356	73	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	56,041	34	0	0	**Ventilation Load**	0	-133,002	49.07
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-24,100	-24,100	8.89
Ov/Undr Sizing	3,645		3,645	2	599	1	**Exhaust Heat**		0	0.00
Exhaust Heat		-876	-876	-1			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-44,360	16.37
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	108,431	1,471	165,943	100.00	89,008	100.00	***Grand Total ==>***	-93,693	-271,054	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	81.4	41.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	4,949	4,949
Terminal	4,949	4,949
Main Fan	4,949	4,949
Sec Fan	4,949	4,949
Nom Vent	1,825	1,825
AHU Vent	1,825	1,825
Infil	36	36
MinStop/Rh	1,912	4,949
Return	4,986	4,986
Exhaust	1,861	1,861
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	36.9	36.9
cfm/ft²	1.44	1.44
cfm/ton	312.12	
ft²/ton	216.81	
Btu/hr·ft²	55.35	-98.55
No. People	70	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	15.9	190.3	123.6	4,949	81.4	64.6	80.5	55.0	50.8	58.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	15.9	190.3								

AREAS

	Gross Total	Glass ft²	(%)
Floor	3,438		
Part	0		
Int Door	1		
ExFlr	3,438		
Roof	0	0	0
Wall	3,075	1,382	45
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-205.0	4,949	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-133.9	1,825	-7.0	55.0
Reheat	-87.8	4,949	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-338.8			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:36 AM on 05/19/2022
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AMENITY SYSTEM HVAC LOADS

System Checksums
By WSP USA INC.

AHU-A-1-2 — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 17
OADB: 90

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	6,074	0	6,074	2	6,985	3	Roof Cond	-8,548	-8,548	1.50
Glass Solar	43,978	0	43,978	12	51,490	24	Glass Solar	0	0	0.00
Glass/Door Cond	25,354	0	25,354	7	23,286	11	Glass/Door Cond	-125,989	-125,989	22.11
Wall Cond	17,511	0	17,511	5	18,225	9	Wall Cond	-40,778	-40,778	7.16
Partition/Door	656		656	0	766	0	Partition/Door	-4,114	-4,114	0.72
Floor	-1,411		-1,411	0	-984.71	0	Floor	-52,182	-52,182	9.16
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	3,615		3,615	1	1,806	1	Infiltration	-8,664	-8,664	1.52
Sub Total ==>	95,777	0	95,777	27	101,573	48	*Sub Total ==>*	-240,275	-240,275	42.17
Internal Loads							**Internal Loads**			
Lights	30,914	7,728	38,642	11	30,914	15	Lights	0	0	0.00
People	76,742	0	76,742	22	34,148	16	People	0	0	0.00
Misc	31,761	0	31,761	9	31,761	15	Misc	0	0	0.00
Sub Total ==>	139,416	7,728	147,145	42	96,822	46	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	94,006	27	0	0	**Ventilation Load**	0	-225,299	39.54
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	18,358	18,358	-3.22
Ov/Undr Sizing	19,678		19,678	6	12,425	6	**Exhaust Heat**		0	0.00
Exhaust Heat		-2,095	-2,095	-1			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-122,548	21.51
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	254,871	5,633	354,510	100.00	210,821	100.00	***Grand Total ==>***	-221,917	-569,765	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	79.6	49.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	11,723	11,723
Terminal	11,723	11,723
Main Fan	11,723	11,723
Sec Fan	11,723	11,723
Nom Vent	3,091	3,091
AHU Vent	3,091	3,091
Infil	119	119
MinStop/Rh	3,749	11,723
Return	11,842	11,842
Exhaust	3,210	3,210
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	26.4	26.4
cfm/ft²	1.04	1.04
cfm/ton	347.57	
ft²/ton	335.69	
Btu/hr·ft²	35.75	-62.90
No. People	84	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	33.7	404.7	272.6	11,723	79.6	63.7	78.7	55.0	51.2	60.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	33.7	404.7								

AREAS

	Gross Total	Glass ft²	(%)
Floor	11,322		
Part	753		
Int Door	1		
ExFlr	13,288		
Roof	3,469	0	0
Wall	12,110	3,835	32
Ext Door	58	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-485.4	11,723	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-226.8	3,091	-7.0	55.0
Reheat	-208.1	11,723	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-712.2			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:36 AM on 05/19/2022
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System Checksums
By WSP USA INC.

AHU-A-B1-1 — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 16
OADB: 92

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00
Partition/Door	3,231		3,231	2	3,872	4	Partition/Door	-45,972	-45,972	14.23
Floor	0		0	0	0.00	0	Floor	-17,956	-17,956	5.56
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	3,286		3,286	2	1,989	2	Infiltration	-8,393	-8,393	2.60
Sub Total ==>	6,517	0	6,517	3	5,861	6	*Sub Total ==>*	-72,322	-72,322	22.38
Internal Loads							**Internal Loads**			
Lights	29,947	7,487	37,434	19	29,947	31	Lights	0	0	0.00
People	51,682	0	51,682	26	27,351	28	People	0	0	0.00
Misc	34,482	0	34,482	18	34,482	35	Misc	0	0	0.00
Sub Total ==>	116,111	7,487	123,598	63	91,780	94	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	69,625	35	0	0	**Ventilation Load**	0	-177,867	55.05
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-30,467	-30,467	9.43
Ov/Undr Sizing	547		547	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-3,451	-3,451	-2			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-42,442	13.14
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	123,174	4,036	196,835	100.00	97,641	100.00	***Grand Total ==>***	-102,789	-323,099	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	75.4	70.0
Ret/OA	83.4	35.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	5,430	5,430
Terminal	5,430	5,430
Main Fan	5,430	5,430
Sec Fan	5,430	5,430
Nom Vent	2,440	2,440
AHU Vent	2,440	2,440
Infil	115	115
MinStop/Rh	2,138	5,430
Return	5,545	5,545
Exhaust	2,556	2,556
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	44.9	44.9
cfm/ft²	0.50	0.50
cfm/ton	287.96	
ft²/ton	581.65	
Btu/hr·ft²	20.63	-36.82
No. People	109	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	18.9	226.3	146.0	5,430	83.4	65.9	84.2	55.0	51.2	59.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	18.9	226.3								

AREAS

	Gross Total	Glass ft²	(%)
Floor	10,968		
Part	17,352		
Int Door	1		
ExFlr	457		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-224.9	5,430	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-179.0	2,440	-7.0	55.0
Reheat	-96.4	5,430	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-403.9			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 09:36 AM on 05/19/2022
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System Checksums
By WSP USA INC.

AHU-B-B-1 — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 17
OADB: 90

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00
Partition/Door	-5,852		-5,852	-13	-5,580	-23	Partition/Door	-11,641	-11,641	15.22
Floor	0		0	0	0.00	0	Floor	-5,665	-5,665	7.40
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	564		564	1	36	0	Infiltration	-2,084	-2,084	2.72
Sub Total ==>	-5,288	0	-5,288	-11	-5,544	-23	*Sub Total ==>*	-19,390	-19,390	25.34
Internal Loads							**Internal Loads**			
Lights	9,466	2,367	11,833	26	9,466	39	Lights	0	0	0.00
People	3,600	0	3,600	8	2,000	8	People	0	0	0.00
Misc	11,833	0	11,833	26	11,833	49	Misc	0	0	0.00
Sub Total ==>	24,899	2,367	27,266	59	23,299	96	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	19,118	41	0	0	**Ventilation Load**	0	-48,668	63.61
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-3,242	-3,242	4.24
Ov/Undr Sizing	6,566		6,566	14	6,421	27	**Exhaust Heat**		0	0.00
Exhaust Heat		-1,399	-1,399	-3			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-5,211	6.81
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	26,176	967	46,262	100.00	24,177	100.00	***Grand Total ==>***	-22,632	-76,511	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	80.9	68.0
Ret/OA	88.6	20.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,091	1,091
Terminal	1,091	1,091
Main Fan	1,091	1,091
Sec Fan	1,091	1,091
Nom Vent	685	685
AHU Vent	685	685
Infil	31	31
MinStop/Rh	460	1,091
Return	1,122	1,122
Exhaust	716	716
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	62.8	62.8
cfm/ft²	0.31	0.31
cfm/ton	250.68	
ft²/ton	796.76	
Btu/hr·ft²	15.06	-27.52
No. People	8	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	4.4	52.2	34.7	1,091	88.6	67.5	85.1	55.0	50.9	58.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	4.4	52.2								

AREAS

	Gross Total	Glass ft²	(%)
Floor	3,467		
Part	5,519		
Int Door	1		
ExFlr	171		
Roof	0	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-45.2	1,091	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-50.2	685	-7.0	55.0
Reheat	-16.9	1,091	55.0	68.1
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-95.4			

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System Checksums
By WSP USA INC.

AHU-B-P1-1 — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	50,771	0	50,771	18	63,427	31	Glass Solar	0	0	0.00
Glass/Door Cond	23,847	0	23,847	9	18,699	9	Glass/Door Cond	-117,967	-117,967	25.51
Wall Cond	15,171	0	15,171	5	15,691	8	Wall Cond	-32,487	-32,487	7.03
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-981		-981	0	-419.89	0	Floor	-38,485	-38,485	8.32
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	4,582		4,582	2	1,752	1	Infiltration	-10,708	-10,708	2.32
Sub Total ==>	93,390	0	93,390	33	99,150	48	*Sub Total ==>*	-199,646	-199,646	43.18
Internal Loads							**Internal Loads**			
Lights	29,215	7,304	36,519	13	29,215	14	Lights	0	0	0.00
People	49,208	0	49,208	18	27,338	13	People	0	0	0.00
Misc	39,540	0	39,540	14	39,540	19	Misc	0	0	0.00
Sub Total ==>	117,962	7,304	125,266	45	96,092	46	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	42,133	15	0	0	**Ventilation Load**	0	-98,468	21.30
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-19,250	-19,250	4.16
Ov/Undr Sizing	20,512		20,512	7	12,708	6	**Exhaust Heat**		0	0.00
Exhaust Heat		-934	-934	0			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-144,990	31.36
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	231,865	6,370	280,367	100.00	207,951	100.00	***Grand Total ==>***	-218,896	-462,353	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	76.7	61.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	11,563	11,563
Terminal	11,563	11,563
Main Fan	11,563	11,563
Sec Fan	11,563	11,563
Nom Vent	1,351	1,351
AHU Vent	1,351	1,351
Infil	147	147
MinStop/Rh	3,490	11,563
Return	11,710	11,710
Exhaust	1,498	1,498
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.7	11.7
cfm/ft²	1.08	1.08
cfm/ton	434.51	
ft²/ton	402.07	
Btu/hr·ft²	29.85	-54.01
No. People	109	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	26.6	319.4	237.7	11,563	76.7	61.2	70.4	55.0	50.9	58.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	26.6	319.4								

AREAS

	Gross Total	Glass ft²	(%)
Floor	10,700		
Part	0		
Int Door	1		
ExFlr	9,800		
Roof	0	0	0
Wall	10,168	3,575	35
Ext Door	87	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-478.8	11,563	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-99.1	1,351	-7.0	55.0
Reheat	-205.2	11,563	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-577.9			

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System Checksums
By WSP USA INC.

AHU-C-1-1 — Series Fan-Powered VAV

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	3,228	0	3,228	2	3,300	4	Roof Cond	-4,098	-4,098	1.79
Glass Solar	15,558	0	15,558	11	24,043	26	Glass Solar	0	0	0.00
Glass/Door Cond	8,745	0	8,745	6	6,885	7	Glass/Door Cond	-42,988	-42,988	18.80
Wall Cond	3,639	0	3,639	3	4,094	4	Wall Cond	-6,023	-6,023	2.63
Partition/Door	519		519	0	521	1	Partition/Door	-11,208	-11,208	4.90
Floor	-471		-471	0	-198.93	0	Floor	-23,103	-23,103	10.11
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	2,469		2,469	2	952	1	Infiltration	-5,815	-5,815	2.54
Sub Total ==>	33,687	0	33,687	24	39,596	43	*Sub Total ==>*	-93,235	-93,235	40.78
Internal Loads							**Internal Loads**			
Lights	17,887	4,472	22,359	16	17,887	19	Lights	0	0	0.00
People	22,100	0	22,100	16	12,278	13	People	0	0	0.00
Misc	21,785	0	21,785	16	21,785	23	Misc	0	0	0.00
Sub Total ==>	61,772	4,472	66,243	48	51,950	56	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	30,417	22	0	0	**Ventilation Load**	0	-71,640	31.34
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-4,434	-4,434	1.94
Ov/Undr Sizing	8,239		8,239	6	1,239	1	**Exhaust Heat**		0	0.00
Exhaust Heat		-907	-907	-1			**OA Preheat Diff.**		0	0.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		-59,296	25.94
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0						
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	103,698	3,565	137,679	100.00	92,785	100.00	***Grand Total ==>***	-97,668	-228,604	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.9	70.0
Ret/OA	78.2	55.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	5,159	5,159
Terminal	5,159	5,159
Main Fan	5,159	5,159
Sec Fan	5,159	5,159
Nom Vent	983	983
AHU Vent	983	983
Infil	80	80
MinStop/Rh	1,618	5,159
Return	5,239	5,239
Exhaust	1,063	1,063
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	19.1	19.1
cfm/ft²	0.79	0.79
cfm/ton	394.11	
ft²/ton	500.41	
Btu/hr·ft²	23.98	-43.62
No. People	49	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	13.1	157.1	113.3	5,159	78.2	62.1	72.5	55.0	50.8	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	13.1	157.1								

AREAS

	Gross Total	Glass ft²	(%)
Floor	6,551		
Part	3,033		
Int Door	1		
ExFlr	4,728		
Roof	1,663	0	0
Wall	2,526	1,304	52
Ext Door	29	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-213.7	5,159	55.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	-72.1	983	-7.0	55.0
Reheat	-91.6	5,159	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-285.8			

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RESIDENTIAL FAN COIL UNITS HVAC LOADS

Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 1

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 19
OADB: 83

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	400	0	400	8	1,151	31	Glass Solar	0	0	0.00
Glass/Door Cond	544	0	544	11	332	9	Glass/Door Cond	-2,610	-2,610	40.98
Wall Cond	439	0	439	9	580	15	Wall Cond	-729	-729	11.45
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	130		130	3	38	1	Infiltration	-345	-345	5.42
Sub Total ==>	1,513	0	1,513	32	2,101	56	*Sub Total ==>*	-3,684	-3,684	57.86
Internal Loads							**Internal Loads**			
Lights	718	180	898	19	718	19	Lights	0	0	0.00
People	900	0	900	19	500	13	People	0	0	0.00
Misc	449	0	449	9	449	12	Misc	0	0	0.00
Sub Total ==>	2,067	180	2,246	47	1,667	44	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,004	21	0	0	**Ventilation Load**	0	-523	8.21
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-26	-26	-1			**OA Preheat Diff.**		-2,161	33.93
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,580	153	4,736	100.00	3,768	100.00	***Grand Total ==>***	-3,684	-6,368	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.7	84.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.0	68.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	279	279
Terminal	279	279
Main Fan	279	279
Sec Fan	0	0
Nom Vent	37	37
AHU Vent	37	37
Infil	5	5
MinStop/Rh	0	0
Return	284	284
Exhaust	42	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	13.2	13.2
cfm/ft²	0.53	0.53
cfm/ton	609.83	
ft²/ton	1,150.03	
Btu/hr·ft²	10.43	-16.60
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.5	5.5	3.9	279	77.0	62.4	76.2	59.7	55.5	70.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	37	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.5								

AREAS

	Gross Total	Glass ft²	(%)
Floor	526		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	228	80	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.6	279	64.0	84.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	37	-7.0	55.0
Total	-8.7			

Project Name:
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Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	797	0	797	20	1,284	42	Glass Solar	0	0	0.00
Glass/Door Cond	244	0	244	6	60	2	Glass/Door Cond	-1,305	-1,305	32.46
Wall Cond	284	0	284	7	368	12	Wall Cond	-631	-631	15.69
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	90		90	2	21	1	Infiltration	-237	-237	5.91
Sub Total ==>	1,414	0	1,414	36	1,733	57	*Sub Total ==>*	-2,173	-2,173	54.06
Internal Loads							**Internal Loads**			
Lights	494	124	618	16	494	16	Lights	0	0	0.00
People	900	0	900	23	500	16	People	0	0	0.00
Misc	309	0	309	8	309	10	Misc	0	0	0.00
Sub Total ==>	1,703	124	1,827	47	1,303	43	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	691	18	0	0	**Ventilation Load**	0	-360	8.95
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,487	36.99
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,117	107	3,915	100.00	3,036	100.00	***Grand Total ==>***	-2,173	-4,020	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.1	80.7
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.6	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	216	216
Terminal	216	216
Main Fan	216	216
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	219	219
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.8	11.8
cfm/ft²	0.60	0.60
cfm/ton	571.15	
ft²/ton	958.79	
Btu/hr·ft²	12.52	-15.04
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.4	4.5	3.2	216	76.6	62.3	75.9	59.1	54.9	68.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.5								

AREAS

	Gross Total	Glass ft²	(%)
Floor	362		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	168	40	24
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.0	216	65.1	80.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-5.4			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 10:20 AM on 05/19/2022
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Zone Checksums
By WSP USA INC.

B602 unit A FCU bedroom 3

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 12
OADB: 86

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	38	0	38	1	18	0	Roof Cond	-64	-64	0.76
Glass Solar	3,139	0	3,139	43	3,914	62	Glass Solar	0	0	0.00
Glass/Door Cond	975	0	975	13	538	9	Glass/Door Cond	-5,219	-5,219	61.75
Wall Cond	382	0	382	5	393	6	Wall Cond	-808	-808	9.56
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	101		101	1	42	1	Infiltration	-269	-269	3.18
Sub Total ==>	4,635	0	4,635	63	4,905	78	*Sub Total ==>*	-6,361	-6,361	75.25
Internal Loads							**Internal Loads**			
Lights	560	140	700	10	560	9	Lights	0	0	0.00
People	900	0	900	12	500	8	People	0	0	0.00
Misc	350	0	350	5	350	6	Misc	0	0	0.00
Sub Total ==>	1,810	140	1,949	26	1,410	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	782	11	0	0	**Ventilation Load**	0	-407	4.82
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,684	19.93
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,444	130	7,357	100.00	6,315	100.00	***Grand Total ==>***	-6,361	-8,452	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.9	84.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.4	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	473	473
Terminal	473	473
Main Fan	473	473
Sec Fan	0	0
Nom Vent	29	29
AHU Vent	29	29
Infil	4	4
MinStop/Rh	0	0
Return	477	477
Exhaust	32	32
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.1	6.1
cfm/ft²	1.15	1.15
cfm/ton	668.38	
ft²/ton	579.30	
Btu/hr·ft²	20.71	-29.90
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.7	8.5	6.6	473	75.4	61.7	74.9	59.9	55.3	69.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	29	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.5								

AREAS

	Gross Total	Glass ft²	(%)
Floor	410		
Part	0		
Int Door	1		
ExFlr	0		
Roof	26	0	0
Wall	324	160	49
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.6	473	65.3	84.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	29	-7.0	55.0
Total	-12.3			

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Zone Checksums
By WSP USA INC.

B602 unit A FCU living room

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 90 / 68 / 85

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	591	0	591	4	584	5	Roof Cond	-702	-702	4.13
Glass Solar	5,586	0	5,586	36	6,246	49	Glass Solar	0	0	0.00
Glass/Door Cond	1,737	0	1,737	11	1,478	12	Glass/Door Cond	-8,938	-8,938	52.51
Wall Cond	521	0	521	3	559	4	Wall Cond	-743	-743	4.37
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	226		226	1	145	1	Infiltration	-756	-756	4.44
Sub Total ==>	8,661	0	8,661	56	9,013	70	*Sub Total ==>*	-11,140	-11,140	65.44
Internal Loads							**Internal Loads**			
Lights	1,574	394	1,968	13	1,574	12	Lights	0	0	0.00
People	2,250	0	2,250	14	1,250	10	People	0	0	0.00
Misc	984	0	984	6	984	8	Misc	0	0	0.00
Sub Total ==>	4,808	394	5,201	33	3,808	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,755	11	0	0	**Ventilation Load**	0	-1,146	6.73
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-38	-38	0			**OA Preheat Diff.**		-4,736	27.82
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	13,468	356	15,580	100.00	12,820	100.00	***Grand Total ==>***	-11,140	-17,022	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.6	82.5
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	939	939
Terminal	939	939
Main Fan	939	939
Sec Fan	0	0
Nom Vent	81	81
AHU Vent	81	81
Infil	10	10
MinStop/Rh	0	0
Return	949	949
Exhaust	91	91
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.6	8.6
cfm/ft²	0.81	0.81
cfm/ton	625.63	
ft²/ton	768.33	
Btu/hr·ft²	15.62	-20.76
No. People	5	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	1.5	17.9	14.0	939	75.8	61.8	74.8	59.6	55.0	68.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	81	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.5	18.0								

AREAS

	Gross Total	Glass ft²	(%)
Floor	1,153		
Part	0		
Int Door	1		
ExFlr	0		
Roof	285	0	0
Wall	425	274	65
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-19.2	939	65.3	82.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-4.7	81	-7.0	55.0
Total	-23.9			

Project Name:
Dataset Name: SOMMET220519.TRC
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No. 12196777-2202
MATTHEW WILLIAM LANGSINE

Reserved for permit stamp

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job no.
date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.08

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

B603 unit B FCU bedroom 1

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 90 / 68 / 85

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,561	0	2,561	39	2,871	52	Glass Solar	0	0	0.00
Glass/Door Cond	508	0	508	8	432	8	Glass/Door Cond	-2,610	-2,610	41.89
Wall Cond	537	0	537	8	593	11	Wall Cond	-729	-729	11.71
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	98		98	1	54	1	Infiltration	-329	-329	5.29
Sub Total ==>	3,704	0	3,704	56	3,950	71	*Sub Total ==>*	-3,668	-3,668	58.89
Internal Loads							**Internal Loads**			
Lights	685	171	857	13	685	12	Lights	0	0	0.00
People	900	0	900	14	500	9	People	0	0	0.00
Misc	428	0	428	6	428	8	Misc	0	0	0.00
Sub Total ==>	2,014	171	2,185	33	1,614	29	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	764	12	0	0	**Ventilation Load**	0	-499	8.01
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-2,062	33.10
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,718	155	6,637	100.00	5,563	100.00	***Grand Total ==>***	-3,668	-6,229	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.5	79.6
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	404	404
Terminal	404	404
Main Fan	404	404
Sec Fan	0	0
Nom Vent	35	35
AHU Vent	35	35
Infil	5	5
MinStop/Rh	0	0
Return	409	409
Exhaust	40	40
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.7	8.7
cfm/ft²	0.81	0.81
cfm/ton	632.50	
ft²/ton	785.18	
Btu/hr·ft²	15.28	-17.08
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.6	7.6	6.0	404	75.8	61.8	74.8	59.5	55.1	69.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	35	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.7								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	502		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	228	80	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.5	404	66.0	79.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.1	35	-7.0	55.0
Total	-8.6			

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Zone Checksums
By WSP USA INC.

B603 unit B FCU bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	797	0	797	20	1,284	43	Glass Solar	0	0	0.00
Glass/Door Cond	244	0	244	6	60	2	Glass/Door Cond	-1,305	-1,305	32.70
Wall Cond	270	0	270	7	351	12	Wall Cond	-601	-601	15.07
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	90		90	2	21	1	Infiltration	-237	-237	5.95
Sub Total ==>	1,400	0	1,400	36	1,716	57	*Sub Total ==>*	-2,144	-2,144	53.72
Internal Loads							**Internal Loads**			
Lights	494	124	618	16	494	16	Lights	0	0	0.00
People	900	0	900	23	500	17	People	0	0	0.00
Misc	309	0	309	8	309	10	Misc	0	0	0.00
Sub Total ==>	1,703	124	1,827	47	1,303	43	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	691	18	0	0	**Ventilation Load**	0	-360	9.02
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,487	37.27
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,103	107	3,901	100.00	3,019	100.00	***Grand Total ==>***	-2,144	-3,990	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.1	80.6
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.7	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	214	214
Terminal	214	214
Main Fan	214	214
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	217	217
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.8	11.8
cfm/ft²	0.59	0.59
cfm/ton	569.23	
ft²/ton	962.06	
Btu/hr·ft²	12.47	-14.91
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.5	3.2	214	76.7	62.3	75.9	59.1	54.8	68.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.5								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	362		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	162	40	25
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-3.9	214	65.1	80.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-5.4			

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Zone Checksums
By WSP USA INC.

B603 unit B FCU bedroom 3

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	232	0	232	3	50	1	Roof Cond	-392	-392	4.35
Glass Solar	2,765	0	2,765	37	4,137	66	Glass Solar	0	0	0.00
Glass/Door Cond	991	0	991	13	244	4	Glass/Door Cond	-5,324	-5,324	59.14
Wall Cond	312	0	312	4	330	5	Wall Cond	-822	-822	9.13
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	129		129	2	25	0	Infiltration	-281	-281	3.12
Sub Total ==>	4,428	0	4,428	60	4,786	77	*Sub Total ==>*	-6,818	-6,818	75.74
Internal Loads							**Internal Loads**			
Lights	584	146	730	10	584	9	Lights	0	0	0.00
People	900	0	900	12	500	8	People	0	0	0.00
Misc	365	0	365	5	365	6	Misc	0	0	0.00
Sub Total ==>	1,850	146	1,996	27	1,450	23	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	995	13	0	0	**Ventilation Load**	0	-425	4.73
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-14	-14	0			**OA Preheat Diff.**		-1,758	19.53
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,278	132	7,405	100.00	6,236	100.00	***Grand Total ==>***	-6,818	-9,002	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.8
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	76.0	68.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	347	347
Terminal	347	347
Main Fan	347	347
Sec Fan	0	0
Nom Vent	30	30
AHU Vent	30	30
Infil	4	4
MinStop/Rh	0	0
Return	351	351
Exhaust	34	34
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.6	8.6
cfm/ft²	0.81	0.81
cfm/ton	486.71	
ft²/ton	600.75	
Btu/hr·ft²	19.98	-30.55
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	8.5	6.5	347	76.0	60.1	66.2	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	30	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	428		
Part	0		
Int Door	1		
ExFlr	0		
Roof	159	0	0
Wall	330	163	49
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.3	347	63.2	90.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	30	-7.0	55.0
Total	-13.1			

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Zone Checksums
By WSP USA INC.

B603 unit B FCU living room

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 90 / 68 / 85

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	712	0	712	4	703	4	Roof Cond	-848	-848	4.53
Glass Solar	7,879	0	7,879	42	8,841	55	Glass Solar	0	0	0.00
Glass/Door Cond	2,038	0	2,038	11	1,733	11	Glass/Door Cond	-10,545	-10,545	56.40
Wall Cond	786	0	786	4	842	5	Wall Cond	-1,127	-1,127	6.03
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	210		210	1	138	1	Infiltration	-704	-704	3.76
Sub Total ==>	11,624	0	11,624	62	12,257	76	*Sub Total ==>*	-13,224	-13,224	70.72
Internal Loads							**Internal Loads**			
Lights	1,465	366	1,831	10	1,465	9	Lights	0	0	0.00
People	2,700	0	2,700	14	1,500	9	People	0	0	0.00
Misc	916	0	916	5	916	6	Misc	0	0	0.00
Sub Total ==>	5,080	366	5,447	29	3,880	24	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,634	9	0	0	**Ventilation Load**	0	-1,066	5.70
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-26	-26	0			**OA Preheat Diff.**		-4,408	23.57
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	16,704	340	18,678	100.00	16,138	100.00	***Grand Total ==>***	-13,224	-18,698	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.7	81.8
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.3	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,189	1,189
Terminal	1,189	1,189
Main Fan	1,189	1,189
Sec Fan	0	0
Nom Vent	75	75
AHU Vent	75	75
Infil	10	10
MinStop/Rh	0	0
Return	1,199	1,199
Exhaust	85	85
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.3	6.3
cfm/ft²	1.11	1.11
cfm/ton	661.88	
ft²/ton	597.07	
Btu/hr·ft²	20.10	-24.92
No. People	6	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	1.8	21.5	16.9	1,189	75.3	61.6	74.6	59.7	55.2	69.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	75	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.8	21.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,073		
Part	0		
Int Door	1		
ExFlr	0		
Roof	344	0	0
Wall	552	323	59
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-22.3	1,189	65.9	81.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-4.4	75	-7.0	55.0
Total	-26.7			

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Zone Checksums
By WSP USA INC.

B601 Unit C FCU bedroom 1

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 16
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	312	0	312	8	302	10	Glass Solar	0	0	0.00
Glass/Door Cond	269	0	269	7	213	7	Glass/Door Cond	-1,305	-1,305	24.39
Wall Cond	1,008	0	1,008	25	1,239	41	Wall Cond	-2,139	-2,139	39.98
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	82		82	2	36	1	Infiltration	-217	-217	4.06
Sub Total ==>	1,672	0	1,672	41	1,789	59	*Sub Total ==>*	-3,661	-3,661	68.43
Internal Loads							**Internal Loads**			
Lights	452	113	565	14	452	15	Lights	0	0	0.00
People	900	0	900	22	500	17	People	0	0	0.00
Misc	282	0	282	7	282	9	Misc	0	0	0.00
Sub Total ==>	1,634	113	1,747	43	1,234	41	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	632	16	0	0	**Ventilation Load**	0	-329	6.15
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-15	-15	0			**OA Preheat Diff.**		-1,360	25.42
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,306	98	4,036	100.00	3,024	100.00	***Grand Total ==>***	-3,661	-5,349	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.8	89.6
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.6	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	197	197
Terminal	197	197
Main Fan	197	197
Sec Fan	0	0
Nom Vent	23	23
AHU Vent	23	23
Infil	3	3
MinStop/Rh	0	0
Return	200	200
Exhaust	26	26
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.7	11.7
cfm/ft²	0.60	0.60
cfm/ton	507.18	
ft²/ton	851.01	
Btu/hr·ft²	14.10	-22.94
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.6	3.4	197	76.6	62.3	75.9	57.8	53.8	66.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	23	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.7								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	331		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	474	40	8
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.2	197	62.9	89.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	23	-7.0	55.0
Total	-7.6			

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Zone Checksums
By WSP USA INC.

B601 Unit C FCU bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 16
OADB: 92

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	476	0	476	5	532	7	Roof Cond	-670	-670	4.61
Glass Solar	2,508	0	2,508	28	2,341	32	Glass Solar	0	0	0.00
Glass/Door Cond	1,353	0	1,353	15	1,355	19	Glass/Door Cond	-6,642	-6,642	45.65
Wall Cond	1,129	0	1,129	12	1,261	17	Wall Cond	-2,900	-2,900	19.93
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-29		-29	0	-27.12	0	Floor	-1,055	-1,055	7.25
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	154		154	2	89	1	Infiltration	-374	-374	2.57
Sub Total ==>	5,591	0	5,591	62	5,550	76	*Sub Total ==>*	-11,641	-11,641	80.01
Internal Loads							**Internal Loads**			
Lights	778	195	973	11	778	11	Lights	0	0	0.00
People	900	0	900	10	500	7	People	0	0	0.00
Misc	486	0	486	5	486	7	Misc	0	0	0.00
Sub Total ==>	2,165	195	2,359	26	1,765	24	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,153	13	0	0	**Ventilation Load**	0	-566	3.89
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-2,342	16.09
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	7,756	178	9,086	100.00	7,315	100.00	***Grand Total ==>***	-11,641	-14,549	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.9	94.0
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	512	512
Terminal	512	512
Main Fan	512	512
Sec Fan	0	0
Nom Vent	40	40
AHU Vent	40	40
Infil	5	5
MinStop/Rh	0	0
Return	517	517
Exhaust	45	45
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.8	7.8
cfm/ft²	0.90	0.90
cfm/ton	585.71	
ft²/ton	651.78	
Btu/hr·ft²	18.41	-37.57
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.9	10.5	8.2	512	75.8	61.9	75.4	58.9	54.6	68.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.0	40	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.9	10.5								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	570		
Part	0		
Int Door	1		
ExFlr	151		
Roof	272	0	0
Wall	792	204	26
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-19.1	512	62.5	94.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.3	40	-7.0	55.0
Total	-21.4			

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Zone Checksums
By WSP USA INC.

B601 Unit C FCU bedroom 3

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 16
OADB: 92

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	318	0	318	9	317	14	Glass Solar	0	0	0.00
Glass/Door Cond	270	0	270	8	272	12	Glass/Door Cond	-1,305	-1,305	30.68
Wall Cond	299	0	299	9	319	14	Wall Cond	-986	-986	23.17
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	92		92	3	53	2	Infiltration	-224	-224	5.26
Sub Total ==>	979	0	979	29	960	43	*Sub Total ==>*	-2,514	-2,514	59.10
Internal Loads							**Internal Loads**			
Lights	466	116	582	17	466	21	Lights	0	0	0.00
People	900	0	900	26	500	23	People	0	0	0.00
Misc	291	0	291	9	291	13	Misc	0	0	0.00
Sub Total ==>	1,656	116	1,773	52	1,256	57	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	690	20	0	0	**Ventilation Load**	0	-339	7.97
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-24	-24	-1			**OA Preheat Diff.**		-1,401	32.93
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	2,635	92	3,417	100.00	2,217	100.00	***Grand Total ==>***	-2,514	-4,254	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.5	91.0
Ra Plenum	74.0	70.0
Return	75.0	70.0
Ret/OA	78.2	67.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	127	127
Terminal	127	127
Main Fan	127	127
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	3	3
MinStop/Rh	0	0
Return	130	130
Exhaust	27	27
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	18.9	18.9
cfm/ft²	0.37	0.37
cfm/ton	383.90	
ft²/ton	1,034.13	
Btu/hr·ft²	11.60	-17.18
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.3	3.9	2.7	127	78.2	63.1	77.6	55.5	51.8	61.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	24	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.3	4.0								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	341		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	240	40	17
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.5	127	61.2	91.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	24	-7.0	55.0
Total	-5.9			

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Zone Checksums
By WSP USA INC.

B601 Unit C FCU den

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 11
Outside Air: OADB/WB/HR: 81 / 61 / 63

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,569	0	2,569	60	2,569	67	Glass Solar	0	0	0.00
Glass/Door Cond	119	0	119	3	119	3	Glass/Door Cond	-2,610	-2,610	64.99
Wall Cond	236	0	236	6	236	6	Wall Cond	-404	-404	10.06
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	0		0	0	10	0	Infiltration	-114	-114	2.84
Sub Total ==>	2,924	0	2,924	68	2,934	77	*Sub Total ==>*	-3,128	-3,128	77.89
Internal Loads							**Internal Loads**			
Lights	238	59	297	7	238	6	Lights	0	0	0.00
People	900	0	900	21	500	13	People	0	0	0.00
Misc	148	0	148	3	148	4	Misc	0	0	0.00
Sub Total ==>	1,286	59	1,345	32	886	23	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	2	0	0	0	**Ventilation Load**	0	-173	4.31
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-3	-3	0			**OA Preheat Diff.**		-715	17.80
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,210	56	4,268	100.00	3,820	100.00	***Grand Total ==>***	-3,128	-4,016	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.2	82.2
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	74.5	69.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	272	272
Terminal	272	272
Main Fan	272	272
Sec Fan	0	0
Nom Vent	12	12
AHU Vent	12	12
Infil	2	2
MinStop/Rh	0	0
Return	273	273
Exhaust	14	14
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	4.5	4.5
cfm/ft²	1.56	1.56
cfm/ton	662.92	
ft²/ton	424.19	
Btu/hr·ft²	28.29	-33.75
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.9	4.0	272	74.5	61.1	73.4	59.2	54.6	67.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	12	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.9								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	174		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	162	80	49
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.2	272	66.1	82.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-0.7	12	-7.0	55.0
Total	-5.9			

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Zone Checksums
By WSP USA INC.

B601 Unit C FCU Living Room

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 90 / 68 / 85

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	980	0	980	5	968	6	Roof Cond	-1,168	-1,168	5.59
Glass Solar	6,520	0	6,520	35	6,964	46	Glass Solar	0	0	0.00
Glass/Door Cond	2,049	0	2,049	11	1,743	12	Glass/Door Cond	-10,602	-10,602	50.76
Wall Cond	820	0	820	4	842	6	Wall Cond	-1,799	-1,799	8.61
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	249		249	1	156	1	Infiltration	-834	-834	3.99
Sub Total ==>	10,617	0	10,617	57	10,673	71	*Sub Total ==>*	-14,402	-14,402	68.95
Internal Loads							**Internal Loads**			
Lights	1,735	434	2,169	12	1,735	12	Lights	0	0	0.00
People	2,700	0	2,700	15	1,500	10	People	0	0	0.00
Misc	1,084	0	1,084	6	1,084	7	Misc	0	0	0.00
Sub Total ==>	5,520	434	5,953	32	4,320	29	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,935	10	0	0	**Ventilation Load**	0	-1,263	6.05
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-40	-40	0			**OA Preheat Diff.**		-5,221	25.00
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	16,137	394	18,466	100.00	14,993	100.00	***Grand Total ==>***	-14,402	-20,887	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.5	84.0
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.7	68.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,090	1,090
Terminal	1,090	1,090
Main Fan	1,090	1,090
Sec Fan	0	0
Nom Vent	89	89
AHU Vent	89	89
Infil	11	11
MinStop/Rh	0	0
Return	1,102	1,102
Exhaust	100	100
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.2	8.2
cfm/ft²	0.86	0.86
cfm/ton	613.26	
ft²/ton	714.82	
Btu/hr·ft²	16.79	-23.37
No. People	6	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	1.8	21.2	16.6	1,090	75.7	61.8	74.8	59.5	54.8	68.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	89	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.8	21.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,271		
Part	0		
Int Door	1		
ExFlr	0		
Roof	474	0	0
Wall	690	325	47
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-24.5	1,090	65.0	84.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-5.2	89	-7.0	55.0
Total	-29.7			

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Zone Checksums
By WSP USA INC.

A401 Unit D FCU bedroom 1

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 16
OADB: 92

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,563	0	1,563	20	1,604	27	Glass Solar	0	0	0.00
Glass/Door Cond	1,401	0	1,401	18	1,407	24	Glass/Door Cond	-6,785	-6,785	53.01
Wall Cond	932	0	932	12	952	16	Wall Cond	-2,582	-2,582	20.18
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	161		161	2	93	2	Infiltration	-391	-391	3.05
Sub Total ==>	4,057	0	4,057	53	4,055	69	*Sub Total ==>*	-9,758	-9,758	76.24
Internal Loads							**Internal Loads**			
Lights	814	203	1,017	13	814	14	Lights	0	0	0.00
People	900	0	900	12	500	9	People	0	0	0.00
Misc	509	0	509	7	509	9	Misc	0	0	0.00
Sub Total ==>	2,222	203	2,426	31	1,822	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,253	16	0	0	**Ventilation Load**	0	-592	4.63
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-24	-24	0			**OA Preheat Diff.**		-2,448	19.13
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,279	180	7,711	100.00	5,877	100.00	***Grand Total ==>***	-9,758	-12,799	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	96.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.5	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	396	396
Terminal	396	396
Main Fan	396	396
Sec Fan	0	0
Nom Vent	42	42
AHU Vent	42	42
Infil	5	5
MinStop/Rh	0	0
Return	402	402
Exhaust	47	47
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.5	10.5
cfm/ft²	0.67	0.67
cfm/ton	536.54	
ft²/ton	806.51	
Btu/hr·ft²	14.88	-31.24
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	8.9	6.8	396	76.5	62.2	76.0	58.3	54.3	67.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	42	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.7	8.9								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	596		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	732	208	28
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-16.2	396	61.5	96.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.5	42	-7.0	55.0
Total	-18.6			

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Zone Checksums
By WSP USA INC.

A401 Unit D FCU bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	798	0	798	20	1,280	41	Glass Solar	0	0	0.00
Glass/Door Cond	243	0	243	6	60	2	Glass/Door Cond	-1,305	-1,305	31.28
Wall Cond	416	0	416	11	540	17	Wall Cond	-926	-926	22.21
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	83		83	2	20	1	Infiltration	-221	-221	5.30
Sub Total ==>	1,541	0	1,541	39	1,899	60	*Sub Total ==>*	-2,452	-2,452	58.79
Internal Loads							**Internal Loads**			
Lights	460	115	575	15	460	15	Lights	0	0	0.00
People	900	0	900	23	500	16	People	0	0	0.00
Misc	288	0	288	7	288	9	Misc	0	0	0.00
Sub Total ==>	1,648	115	1,763	45	1,248	40	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	649	16	0	0	**Ventilation Load**	0	-335	8.03
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-14	-14	0			**OA Preheat Diff.**		-1,384	33.18
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,188	102	3,938	100.00	3,147	100.00	***Grand Total ==>***	-2,452	-4,172	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.1	81.6
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.4	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	224	224
Terminal	224	224
Main Fan	224	224
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	3	3
MinStop/Rh	0	0
Return	227	227
Exhaust	27	27
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.5	10.5
cfm/ft²	0.66	0.66
cfm/ton	592.81	
ft²/ton	892.89	
Btu/hr·ft²	13.44	-17.03
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.5	3.3	224	76.4	62.2	75.7	59.1	55.0	69.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	24	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.4	4.5								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	337		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	228	40	18
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.4	224	65.1	81.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	24	-7.0	55.0
Total	-5.7			

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Zone Checksums
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A401 Unit D FCU bedroom 3

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 15
Outside Air: OADB/WB/HR: 93 / 70 / 94

CLG SPACE PEAK
Mo/Hr: 7 / 13
OADB: 90

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	713	0	713	15	922	26	Glass Solar	0	0	0.00
Glass/Door Cond	268	0	268	6	195	6	Glass/Door Cond	-1,305	-1,305	23.51
Wall Cond	1,163	0	1,163	25	1,088	31	Wall Cond	-2,346	-2,346	42.26
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	89		89	2	44	1	Infiltration	-216	-216	3.90
Sub Total ==>	2,233	0	2,233	48	2,250	65	*Sub Total ==>*	-3,867	-3,867	69.67
Internal Loads							**Internal Loads**			
Lights	451	113	563	12	451	13	Lights	0	0	0.00
People	900	0	900	19	500	14	People	0	0	0.00
Misc	282	0	282	6	282	8	Misc	0	0	0.00
Sub Total ==>	1,632	113	1,745	37	1,232	35	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	694	15	0	0	**Ventilation Load**	0	-328	5.91
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-13	-13	0			**OA Preheat Diff.**		-1,356	24.42
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,865	100	4,658	100.00	3,482	100.00	***Grand Total ==>***	-3,867	-5,551	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.7	88.1
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.4	68.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	226	226
Terminal	226	226
Main Fan	226	226
Sec Fan	0	0
Nom Vent	23	23
AHU Vent	23	23
Infil	3	3
MinStop/Rh	0	0
Return	229	229
Exhaust	26	26
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.2	10.2
cfm/ft²	0.69	0.69
cfm/ton	506.50	
ft²/ton	739.24	
Btu/hr·ft²	16.23	-23.97
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	5.4	4.0	226	76.4	62.2	75.9	57.7	53.7	66.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	23	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.5	5.4								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	330		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	516	40	8
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.6	226	63.6	88.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	23	-7.0	55.0
Total	-7.9			

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Zone Checksums
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A401 Unit D FCU living room

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 69 / 92

CLG SPACE PEAK
Mo/Hr: 8 / 16
OADB: 89

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	5,907	0	5,907	35	6,148	47	Glass Solar	0	0	0.00
Glass/Door Cond	1,739	0	1,739	10	1,750	13	Glass/Door Cond	-10,439	-10,439	53.55
Wall Cond	796	0	796	5	787	6	Wall Cond	-1,794	-1,794	9.20
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	297		297	2	174	1	Infiltration	-827	-827	4.24
Sub Total ==>	8,739	0	8,739	52	8,858	67	*Sub Total ==>*	-13,060	-13,060	67.00
Internal Loads							**Internal Loads**			
Lights	1,722	430	2,152	13	1,722	13	Lights	0	0	0.00
People	2,700	0	2,700	16	1,500	11	People	0	0	0.00
Misc	1,076	0	1,076	6	1,076	8	Misc	0	0	0.00
Sub Total ==>	5,497	430	5,928	35	4,297	33	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	2,307	14	0	0	**Ventilation Load**	0	-1,253	6.43
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-48	-48	0			**OA Preheat Diff.**		-5,180	26.57
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	14,236	382	16,926	100.00	13,156	100.00	***Grand Total ==>***	-13,060	-19,493	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.2	85.7
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.1	68.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	880	880
Terminal	880	880
Main Fan	880	880
Sec Fan	0	0
Nom Vent	88	88
AHU Vent	88	88
Infil	11	11
MinStop/Rh	0	0
Return	892	892
Exhaust	100	100
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.0	10.0
cfm/ft²	0.70	0.70
cfm/ton	542.82	
ft²/ton	777.41	
Btu/hr·ft²	15.44	-21.84
No. People	6	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	1.6	19.5	14.6	880	76.1	62.1	75.7	58.2	54.1	67.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	88	83.3	65.4	82.1	83.3	65.4	82.1
Total	1.6	19.5								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,261		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	684	320	47
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-22.4	880	64.2	85.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-5.2	88	-7.0	55.0
Total	-27.5			

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Zone Checksums
By WSP USA INC.

B604 unit E FCU 1 living room

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 90 / 68 / 85

CLG SPACE PEAK
Mo/Hr: 7 / 18
OADB: 87

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	1,292	0	1,292	5	1,277	6	Roof Cond	-1,547	-1,547	5.29
Glass Solar	9,013	0	9,013	38	9,942	49	Glass Solar	0	0	0.00
Glass/Door Cond	3,223	0	3,223	14	2,736	14	Glass/Door Cond	-16,898	-16,898	57.74
Wall Cond	1,329	0	1,329	6	1,364	7	Wall Cond	-2,385	-2,385	8.15
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-18		-18	0	-10.24	0	Floor	-903	-903	3.09
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	256		256	1	155	1	Infiltration	-858	-858	2.93
Sub Total ==>	15,095	0	15,095	64	15,463	77	*Sub Total ==>*	-22,592	-22,592	77.20
Internal Loads							**Internal Loads**			
Lights	1,786	446	2,232	9	1,786	9	Lights	0	0	0.00
People	3,150	0	3,150	13	1,750	9	People	0	0	0.00
Misc	1,116	0	1,116	5	1,116	6	Misc	0	0	0.00
Sub Total ==>	6,052	446	6,498	28	4,652	23	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,991	8	0	0	**Ventilation Load**	0	-1,300	4.44
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-31	-31	0			**OA Preheat Diff.**		-5,373	18.36
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	21,146	416	23,554	100.00	20,115	100.00	***Grand Total ==>***	-22,592	-29,265	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.7	86.0
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.3	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,491	1,491
Terminal	1,491	1,491
Main Fan	1,491	1,491
Sec Fan	0	0
Nom Vent	92	92
AHU Vent	92	92
Infil	12	12
MinStop/Rh	0	0
Return	1,503	1,503
Exhaust	103	103
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.1	6.1
cfm/ft²	1.14	1.14
cfm/ton	657.91	
ft²/ton	577.26	
Btu/hr·ft²	20.79	-32.65
No. People	7	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	2.3	27.1	21.5	1,491	75.3	61.6	74.6	59.7	55.1	68.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	92	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.3	27.2								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,308		
Part	0		
Int Door	1		
ExFlr	230		
Roof	628	0	0
Wall	1,002	518	52
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-37.3	1,491	64.9	86.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-5.4	92	-7.0	55.0
Total	-42.7			

Project Name:
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Zone Checksums
By WSP USA INC.

B604 unit E FCU 4 bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,879	0	1,879	34	2,778	60	Glass Solar	0	0	0.00
Glass/Door Cond	719	0	719	13	176	4	Glass/Door Cond	-3,849	-3,849	58.02
Wall Cond	280	0	280	5	322	7	Wall Cond	-690	-690	10.40
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	90		90	2	22	0	Infiltration	-239	-239	3.60
Sub Total ==>	2,968	0	2,968	54	3,297	72	*Sub Total ==>*	-4,778	-4,778	72.01
Internal Loads							**Internal Loads**			
Lights	497	124	621	11	497	11	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	311	0	311	6	311	7	Misc	0	0	0.00
Sub Total ==>	1,708	124	1,832	33	1,308	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	694	13	0	0	**Ventilation Load**	0	-362	5.45
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,495	22.54
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,675	114	5,484	100.00	4,605	100.00	***Grand Total ==>***	-4,778	-6,635	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.2	84.3
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.6	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	353	353
Terminal	353	353
Main Fan	353	353
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	356	356
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.2	7.2
cfm/ft²	0.97	0.97
cfm/ton	668.25	
ft²/ton	689.46	
Btu/hr·ft²	17.40	-26.17
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	6.3	4.8	353	75.6	61.8	75.1	60.2	55.5	69.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	364		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	258	118	46
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.0	353	65.1	84.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-9.5			

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Zone Checksums
By WSP USA INC.

B604 unit E FCU 4 bedroom 2

COOLING COIL PEAK
Peaked at Time: Mo/Hr: 7 / 14
Outside Air: OADB/WB/HR: 92 / 69 / 91

CLG SPACE PEAK
Mo/Hr: 7 / 11
OADB: 81

HEATING COIL PEAK
Mo/Hr: Heating Design
OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,879	0	1,879	34	2,778	60	Glass Solar	0	0	0.00
Glass/Door Cond	719	0	719	13	176	4	Glass/Door Cond	-3,849	-3,849	58.02
Wall Cond	280	0	280	5	322	7	Wall Cond	-690	-690	10.40
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	90		90	2	22	0	Infiltration	-239	-239	3.60
Sub Total ==>	2,968	0	2,968	54	3,297	72	*Sub Total ==>*	-4,778	-4,778	72.01
Internal Loads							**Internal Loads**			
Lights	497	124	621	11	497	11	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	311	0	311	6	311	7	Misc	0	0	0.00
Sub Total ==>	1,708	124	1,832	33	1,308	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	694	13	0	0	**Ventilation Load**	0	-362	5.45
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,495	22.54
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,675	114	5,484	100.00	4,605	100.00	***Grand Total ==>***	-4,778	-6,635	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.2	84.3
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.6	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	353	353
Terminal	353	353
Main Fan	353	353
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	356	356
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.2	7.2
cfm/ft²	0.97	0.97
cfm/ton	668.25	
ft²/ton	689.46	
Btu/hr·ft²	17.40	-26.17
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	6.3	4.8	353	75.6	61.8	75.1	60.2	55.5	69.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	364		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	258	118	46
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.0	353	65.1	84.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-9.5			

Project Name:
Dataset Name: SOMMET220519.TRC
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PROFESSIONAL ENGINEER
No. 12196777-2202
MATTHEW WILLIAM [illegible]
STATE OF UTAH

Reserved for permit stamp

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principal architect ______
project manager ______
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______
checked by ______
job no.
date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

HVAC LOAD
CALCULATION

M0.09

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

B604 unit E FCU 5 bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 7 / 14			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 92			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,617	0	2,617	40	2,617	48	Glass Solar	0	0	0.00
Glass/Door Cond	958	0	958	14	958	17	Glass/Door Cond	-5,154	-5,154	61.18
Wall Cond	672	0	672	10	672	12	Wall Cond	-1,469	-1,469	17.43
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	49	1	Infiltration	-205	-205	2.44
Sub Total ==>	4,325	0	4,325	65	4,296	78	*Sub Total ==>*	-6,828	-6,828	81.05
Internal Loads							**Internal Loads**			
Lights	427	107	534	8	427	8	Lights	0	0	0.00
People	900	0	900	14	500	9	People	0	0	0.00
Misc	267	0	267	4	267	5	Misc	0	0	0.00
Sub Total ==>	1,594	107	1,701	26	1,194	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	597	9	0	0	**Ventilation Load**	0	-311	3.69
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-1,286	15.26
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,919	100	6,616	100.00	5,490	100.00	*Grand Total ==>*	-6,828	-8,425	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.7	89.0
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.3	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	380	380
Terminal	380	380
Main Fan	380	380
Sec Fan	0	0
Nom Vent	22	22
AHU Vent	22	22
Infil	3	3
MinStop/Rh	0	0
Return	383	383
Exhaust	25	25
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.8	5.8
cfm/ft^2	1.21	1.21
cfm/ton	597.62	
ft^2/ton	492.05	
Btu/hr·ft^2	24.39	-39.75
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.6	7.6	6.0	380	75.3	61.7	74.9	58.7	54.5	67.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	22	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.6								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	313		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	456	158	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.2	380	64.2	89.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.3	22	-7.0	55.0
Total	-12.4			

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Zone Checksums
By WSP USA INC.

B604 unit E FCU 6 bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 86			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	794	0	794	17	1,247	35	Glass Solar	0	0	0.00
Glass/Door Cond	301	0	301	6	150	4	Glass/Door Cond	-1,461	-1,461	26.30
Wall Cond	929	0	929	19	759	21	Wall Cond	-1,849	-1,849	33.28
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	105		105	2	40	1	Infiltration	-256	-256	4.60
Sub Total ==>	2,130	0	2,130	44	2,197	62	*Sub Total ==>*	-3,566	-3,566	64.19
Internal Loads							**Internal Loads**			
Lights	532	133	666	14	532	15	Lights	0	0	0.00
People	900	0	900	19	500	14	People	0	0	0.00
Misc	333	0	333	7	333	9	Misc	0	0	0.00
Sub Total ==>	1,765	133	1,898	40	1,365	38	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	789	16	0	0	**Ventilation Load**	0	-388	6.98
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-1,602	28.84
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,895	116	4,800	100.00	3,562	100.00	*Grand Total ==>*	-3,566	-5,556	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.5	85.6
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.5	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	242	242
Terminal	242	242
Main Fan	242	242
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	246	246
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.3	11.3
cfm/ft^2	0.62	0.62
cfm/ton	523.59	
ft^2/ton	843.05	
Btu/hr·ft^2	14.23	-19.95
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.5	5.5	4.0	242	76.5	62.3	76.1	58.5	54.1	66.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.6								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	390		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	420	45	11
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.2	242	64.0	85.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-7.8			

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Zone Checksums
By WSP USA INC.

A304 Unit F FCU Bedroom 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	4,288	0	4,288	44	4,662	55	Glass Solar	0	0	0.00
Glass/Door Cond	997	0	997	10	848	10	Glass/Door Cond	-5,138	-5,138	47.73
Wall Cond	1,033	0	1,033	10	1,000	12	Wall Cond	-2,062	-2,062	19.16
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	121		121	1	66	1	Infiltration	-406	-406	3.77
Sub Total ==>	6,439	0	6,439	65	6,577	78	*Sub Total ==>*	-7,606	-7,606	70.66
Internal Loads							**Internal Loads**			
Lights	845	211	1,056	11	845	10	Lights	0	0	0.00
People	900	0	900	9	500	6	People	0	0	0.00
Misc	528	0	528	5	528	6	Misc	0	0	0.00
Sub Total ==>	2,273	211	2,484	25	1,873	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	942	10	0	0	**Ventilation Load**	0	-615	5.72
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-2,543	23.62
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	8,712	196	9,850	100.00	8,450	100.00	*Grand Total ==>*	-7,606	-10,764	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.3	82.4
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.4	69.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	650	650
Terminal	650	650
Main Fan	650	650
Sec Fan	0	0
Nom Vent	43	43
AHU Vent	43	43
Infil	6	6
MinStop/Rh	0	0
Return	656	656
Exhaust	49	49
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.7	6.7
cfm/ft^2	1.05	1.05
cfm/ton	689.00	
ft^2/ton	655.77	
Btu/hr·ft^2	18.30	-24.86
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.9	11.3	9.1	650	75.4	61.6	74.6	60.3	55.4	69.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	43	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.9	11.3								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	619		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	576	158	27
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-12.9	650	65.7	82.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.5	43	-7.0	55.0
Total	-15.4			

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A304 Unit F FCU Bedroom 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 93			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,384	0	1,384	27	1,384	37	Glass Solar	0	0	0.00
Glass/Door Cond	825	0	825	16	825	22	Glass/Door Cond	-3,977	-3,977	59.32
Wall Cond	228	0	228	5	228	6	Wall Cond	-700	-700	10.45
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	95		95	2	58	2	Infiltration	-231	-231	3.44
Sub Total ==>	2,532	0	2,532	50	2,494	66	*Sub Total ==>*	-4,908	-4,908	73.21
Internal Loads							**Internal Loads**			
Lights	481	120	601	12	481	13	Lights	0	0	0.00
People	900	0	900	18	500	13	People	0	0	0.00
Misc	300	0	300	6	300	8	Misc	0	0	0.00
Sub Total ==>	1,681	120	1,801	36	1,281	34	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	740	15	0	0	**Ventilation Load**	0	-350	5.22
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-14	-14	0			**OA Preheat Diff.**		-1,446	21.57
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,213	106	5,059	100.00	3,775	100.00	*Grand Total ==>*	-4,908	-6,704	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.4	91.5
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.4	68.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	241	241
Terminal	241	241
Main Fan	241	241
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	244	244
Exhaust	28	28
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.2	10.2
cfm/ft^2	0.68	0.68
cfm/ton	496.50	
ft^2/ton	726.04	
Btu/hr·ft^2	16.53	-27.45
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.5	5.8	4.3	241	76.4	62.2	75.9	57.4	53.5	65.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.5	5.8								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	352		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	264	122	46
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.2	241	62.7	91.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-9.7			

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A304 Unit F FCU Bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 17			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 90			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,396	0	2,396	37	2,396	44	Glass Solar	0	0	0.00
Glass/Door Cond	996	0	996	15	996	18	Glass/Door Cond	-5,154	-5,154	60.34
Wall Cond	835	0	835	13	835	15	Wall Cond	-1,528	-1,528	17.89
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	63		63	1	44	1	Infiltration	-212	-212	2.48
Sub Total ==>	4,290	0	4,290	66	4,271	78	*Sub Total ==>*	-6,894	-6,894	80.71
Internal Loads							**Internal Loads**			
Lights	441	110	551	8	441	8	Lights	0	0	0.00
People	900	0	900	14	500	9	People	0	0	0.00
Misc	276	0	276	4	276	5	Misc	0	0	0.00
Sub Total ==>	1,617	110	1,727	27	1,217	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	492	8	0	0	**Ventilation Load**	0	-321	3.76
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-1,327	15.53
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,906	103	6,501	100.00	5,487	100.00	*Grand Total ==>*	-6,894	-8,542	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.0	88.8
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.2	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	387	387
Terminal	387	387
Main Fan	387	387
Sec Fan	0	0
Nom Vent	23	23
AHU Vent	23	23
Infil	3	3
MinStop/Rh	0	0
Return	390	390
Exhaust	26	26
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.8	5.8
cfm/ft^2	1.20	1.20
cfm/ton	620.73	
ft^2/ton	518.45	
Btu/hr·ft^2	23.15	-39.01
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.6	7.5	5.9	387	75.2	61.6	74.5	59.0	54.6	67.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	23	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.6	7.5								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	323		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	468	158	34
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.3	387	64.2	88.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.3	23	-7.0	55.0
Total	-12.6			

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Zone Checksums
By WSP USA INC.

A304 Unit F FCU Bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 16				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 87			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	315	0	315	8	303	10	Glass Solar	0	0	0.00
Glass/Door Cond	270	0	270	7	215	7	Glass/Door Cond	-1,305	-1,305	24.87
Wall Cond	862	0	862	21	1,079	36	Wall Cond	-1,754	-1,754	33.43
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	94		94	2	41	1	Infiltration	-249	-249	4.75
Sub Total ==>	1,541	0	1,541	37	1,637	55	*Sub Total ==>*	-3,308	-3,308	63.05
Internal Loads							**Internal Loads**			
Lights	519	130	648	16	519	17	Lights	0	0	0.00
People	900	0	900	22	500	17	People	0	0	0.00
Misc	324	0	324	8	324	11	Misc	0	0	0.00
Sub Total ==>	1,743	130	1,873	45	1,343	45	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	731	18	0	0	**Ventilation Load**	0	-378	7.20
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-20	-20	0			**OA Preheat Diff.**		-1,561	29.75
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,284	110	4,125	100.00	2,980	100.00	*Grand Total ==>*	-3,308	-5,247	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.7	88.1
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.1	67.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	194	194
Terminal	194	194
Main Fan	194	194
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	3	3
MinStop/Rh	0	0
Return	197	197
Exhaust	30	30
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	13.7	13.7
cfm/ft^2	0.51	0.51
cfm/ton	489.60	
ft^2/ton	961.23	
Btu/hr·ft^2	12.48	-19.26
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.4	4.7	3.4	194	77.1	62.5	76.2	57.7	53.7	66.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.4	4.7								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	380		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	396	40	10
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.8	194	62.9	88.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-7.3			

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Zone Checksums
By WSP USA INC.

A304 Unit F FCU Living Room

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 15				Mo/Hr: 9 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 69 / 92				OADB: 80			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	6,568	0	6,568	36	9,073	60	Glass Solar	0	0	0.00
Glass/Door Cond	1,821	0	1,821	10	374	2	Glass/Door Cond	-10,941	-10,941	53.90
Wall Cond	1,143	0	1,143	6	1,073	7	Wall Cond	-2,073	-2,073	10.21
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	298		298	2	113	1	Infiltration	-830	-830	4.09
Sub Total ==>	9,829	0	9,829	53	10,633	70	*Sub Total ==>*	-13,844	-13,844	68.20
Internal Loads							**Internal Loads**			
Lights	1,727	432	2,159	12	1,727	11	Lights	0	0	0.00
People	3,150	0	3,150	17	1,750	12	People	0	0	0.00
Misc	1,079	0	1,079	6	1,079	7	Misc	0	0	0.00
Sub Total ==>	5,956	432	6,388	35	4,556	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	2,314	13	0	0	**Ventilation Load**	0	-1,257	6.19
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-40	-40	0			**OA Preheat Diff.**		-5,196	25.60
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	15,785	392	18,491	100.00	15,189	100.00	*Grand Total ==>*	-13,844	-20,297	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.9	83.8
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.7	68.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,062	1,062
Terminal	1,062	1,062
Main Fan	1,062	1,062
Sec Fan	0	0
Nom Vent	89	89
AHU Vent	89	89
Infil	11	11
MinStop/Rh	0	0
Return	1,073	1,073
Exhaust	100	100
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.3	8.3
cfm/ft^2	0.84	0.84
cfm/ton	599.11	
ft^2/ton	713.85	
Btu/hr·ft^2	16.81	-22.76
No. People	7	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	1.8	21.3	16.0	1,062	75.7	61.9	75.4	58.9	54.7	68.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	89	83.3	65.4	82.1	83.3	65.4	82.1
Total	1.8	21.3								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	1,265		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	756	335	44
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-23.6	1,062	65.0	83.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-5.2	89	-7.0	55.0
Total	-28.8			

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Zone Checksums
By WSP USA INC.

B204 Unit G FCU bedroom 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	4,147	0	4,147	41	4,641	52	Glass Solar	0	0	0.00
Glass/Door Cond	1,313	0	1,313	13	1,117	12	Glass/Door Cond	-6,768	-6,768	55.85
Wall Cond	1,299	0	1,299	13	1,347	15	Wall Cond	-1,964	-1,964	16.21
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	115		115	1	63	1	Infiltration	-386	-386	3.18
Sub Total ==>	6,874	0	6,874	68	7,168	80	*Sub Total ==>*	-9,118	-9,118	75.24
Internal Loads							**Internal Loads**			
Lights	803	201	1,003	10	803	9	Lights	0	0	0.00
People	900	0	900	9	500	6	People	0	0	0.00
Misc	502	0	502	5	502	6	Misc	0	0	0.00
Sub Total ==>	2,204	201	2,405	24	1,804	20	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	895	9	0	0	**Ventilation Load**	0	-584	4.82
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-13	-13	0			**OA Preheat Diff.**		-2,415	19.93
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	9,079	187	10,161	100.00	8,973	100.00	*Grand Total ==>*	-9,118	-12,118	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.4	83.8
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.2	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	697	697
Terminal	697	697
Main Fan	697	697
Sec Fan	0	0
Nom Vent	41	41
AHU Vent	41	41
Infil	5	5
MinStop/Rh	0	0
Return	702	702
Exhaust	46	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.9	5.9
cfm/ft^2	1.19	1.19
cfm/ton	712.98	
ft^2/ton	601.41	
Btu/hr·ft^2	19.95	-29.89
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	1.0	11.7	9.5	697	75.2	61.6	74.5	60.4	55.6	70.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	41	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.0	11.7								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	588		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	606	207	34
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-15.2	697	65.4	83.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.4	41	-7.0	55.0
Total	-17.6			

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Zone Checksums
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B204 Unit G FCU bedroom 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 7 / 11			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 81			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,879	0	1,879	34	2,778	60	Glass Solar	0	0	0.00
Glass/Door Cond	719	0	719	13	176	4	Glass/Door Cond	-3,849	-3,849	58.02
Wall Cond	280	0	280	5	322	7	Wall Cond	-690	-690	10.40
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	90		90	2	22	0	Infiltration	-239	-239	3.60
Sub Total ==>	2,968	0	2,968	54	3,297	72	*Sub Total ==>*	-4,778	-4,778	72.01
Internal Loads							**Internal Loads**			
Lights	497	124	621	11	497	11	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	311	0	311	6	311	7	Misc	0	0	0.00
Sub Total ==>	1,708	124	1,832	33	1,308	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	694	13	0	0	**Ventilation Load**	0	-362	5.45
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,495	22.54
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,675	114	5,484	100.00	4,605	100.00	*Grand Total ==>*	-4,778	-6,635	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.2	84.3
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.6	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	353	353
Terminal	353	353
Main Fan	353	353
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	356	356
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.2	7.2
cfm/ft^2	0.97	0.97
cfm/ton	668.25	
ft^2/ton	689.46	
Btu/hr·ft^2	17.40	-26.17
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.5	6.3	4.8	353	75.6	61.8	75.1	60.2	55.5	69.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.3								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	364		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	258	118	46
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.0	353	65.1	84.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-9.5			

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Zone Checksums
By WSP USA INC.

B204 Unit G FCU bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 7 / 14			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 92			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,617	0	2,617	40	2,617	48	Glass Solar	0	0	0.00
Glass/Door Cond	958	0	958	14	958	17	Glass/Door Cond	-5,154	-5,154	61.18
Wall Cond	672	0	672	10	672	12	Wall Cond	-1,469	-1,469	17.43
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	49	1	Infiltration	-205	-205	2.44
Sub Total ==>	4,325	0	4,325	65	4,296	78	*Sub Total ==>*	-6,828	-6,828	81.05
Internal Loads							**Internal Loads**			
Lights	427	107	534	8	427	8	Lights	0	0	0.00
People	900	0	900	14	500	9	People	0	0	0.00
Misc	267	0	267	4	267	5	Misc	0	0	0.00
Sub Total ==>	1,594	107	1,701	26	1,194	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	597	9	0	0	**Ventilation Load**	0	-311	3.69
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-1,286	15.26
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,919	100	6,616	100.00	5,490	100.00	*Grand Total ==>*	-6,828	-8,425	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.7	89.0
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.3	69.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	380	380
Terminal	380	380
Main Fan	380	380
Sec Fan	0	0
Nom Vent	22	22
AHU Vent	22	22
Infil	3	3
MinStop/Rh	0	0
Return	383	383
Exhaust	25	25
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.8	5.8
cfm/ft^2	1.21	1.21
cfm/ton	597.62	
ft^2/ton	492.05	
Btu/hr·ft^2	24.39	-39.75
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.6	7.6	6.0	380	75.3	61.7	74.9	58.7	54.5	67.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	22	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.6								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	313		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	456	158	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.2	380	64.2	89.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.3	22	-7.0	55.0
Total	-12.4			

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B204 Unit G FCU bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 86			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	709	0	709	15	1,114	33	Glass Solar	0	0	0.00
Glass/Door Cond	269	0	269	6	134	4	Glass/Door Cond	-1,305	-1,305	24.06
Wall Cond	939	0	939	20	773	23	Wall Cond	-1,873	-1,873	34.53
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	105		105	2	40	1	Infiltration	-256	-256	4.72
Sub Total ==>	2,022	0	2,022	43	2,061	60	*Sub Total ==>*	-3,433	-3,433	63.31
Internal Loads							**Internal Loads**			
Lights	532	133	666	14	532	16	Lights	0	0	0.00
People	900	0	900	19	500	15	People	0	0	0.00
Misc	333	0	333	7	333	10	Misc	0	0	0.00
Sub Total ==>	1,765	133	1,898	40	1,365	40	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	789	17	0	0	**Ventilation Load**	0	-388	7.15
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-1,602	29.54
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,787	116	4,692	100.00	3,426	100.00	*Grand Total ==>*	-3,433	-5,423	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	85.7
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.7	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	231	231
Terminal	231	231
Main Fan	231	231
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	234	234
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.8	11.8
cfm/ft^2	0.59	0.59
cfm/ton	510.60	
ft^2/ton	862.41	
Btu/hr·ft^2	13.91	-19.42
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.5	5.4	3.9	231	76.7	62.3	76.2	58.3	54.0	66.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.4								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	390		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	420	40	10
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.0	231	63.9	85.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-7.6			

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Zone Checksums
By WSP USA INC.

B204 Unit G FCU living room

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 16			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 92			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,822	0	1,822	13	1,763	18	Glass Solar	0	0	0.00
Glass/Door Cond	1,903	0	1,903	13	1,912	20	Glass/Door Cond	-9,178	-9,178	48.36
Wall Cond	1,008	0	1,008	7	1,172	12	Wall Cond	-2,162	-2,162	11.39
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	359		359	3	210	2	Infiltration	-870	-870	4.59
Sub Total ==>	5,091	0	5,091	36	5,057	52	*Sub Total ==>*	-12,210	-12,210	64.33
Internal Loads							**Internal Loads**			
Lights	1,812	453	2,265	16	1,812	19	Lights	0	0	0.00
People	3,150	0	3,150	22	1,750	18	People	0	0	0.00
Misc	1,132	0	1,132	8	1,132	12	Misc	0	0	0.00
Sub Total ==>	6,094	453	6,547	46	4,694	48	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	2,684	19	0	0	**Ventilation Load**	0	-1,319	6.95
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-79	-79	-1			**OA Preheat Diff.**		-5,451	28.72
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	11,185	374	14,243	100.00	9,751	100.00	*Grand Total ==>*	-12,210	-18,980	100.00

TEMPERATURES

	Cooling	Heating
SADB	56.5	91.9
Ra Plenum	74.0	70.0
Return	74.8	70.0
Ret/OA	77.5	67.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	590	590
Terminal	590	590
Main Fan	590	590
Sec Fan	0	0
Nom Vent	93	93
AHU Vent	93	93
Infil	12	12
MinStop/Rh	0	0
Return	602	602
Exhaust	105	105
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	15.8	15.8
cfm/ft^2	0.44	0.44
cfm/ton	429.19	
ft^2/ton	965.98	
Btu/hr·ft^2	12.42	-20.04
No. People	7	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	1.4	16.4	11.6	590	77.5	62.8	77.0	56.5	52.8	63.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	93	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.4	16.5								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	1,327		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	720	281	39
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-21.1	590	61.6	91.9
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-5.5	93	-7.0	55.0
Total	-26.6			

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Zone Checksums
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A503 Unit H FCU Bedroom 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 16				Mo/Hr: 9 / 16			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 89 / 68 / 90				OADB: 79			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	962	0	962	8	648	6	Roof Cond	-1,385	-1,385	8.52
Glass Solar	4,554	0	4,554	39	6,527	64	Glass Solar	0	0	0.00
Glass/Door Cond	1,504	0	1,504	13	290	3	Glass/Door Cond	-9,179	-9,179	56.50
Wall Cond	1,119	0	1,119	10	1,019	10	Wall Cond	-1,908	-1,908	11.74
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	140		140	1	28	0	Infiltration	-430	-430	2.65
Sub Total ==>	8,280	0	8,280	71	8,513	83	*Sub Total ==>*	-12,902	-12,902	79.41
Internal Loads							**Internal Loads**			
Lights	767	192	959	8	767	7	Lights	0	0	0.00
People	900	0	900	8	500	5	People	0	0	0.00
Misc	480	0	480	4	480	5	Misc	0	0	0.00
Sub Total ==>	2,147	192	2,339	20	1,747	17	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,087	9	0	0	**Ventilation Load**	0	-652	4.01
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-12	-12	0			**OA Preheat Diff.**		-2,693	16.58
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	10,426	180	11,693	100.00	10,260	100.00	*Grand Total ==>*	-12,902	-16,247	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.6	86.9
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	808	808
Terminal	808	808
Main Fan	808	808
Sec Fan	0	0
Nom Vent	46	46
AHU Vent	46	46
Infil	6	6
MinStop/Rh	0	0
Return	814	814
Exhaust	52	52
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.7	5.7
cfm/ft^2	1.44	1.44
cfm/ton	721.16	
ft^2/ton	501.51	
Btu/hr·ft^2	23.93	-42.47
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	1.1	13.5	10.8	808	75.1	61.6	74.8	60.6	55.7	70.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	46	83.3	65.4	82.1	83.3	65.4	82.1
Total	1.1	13.5								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	562		
Part	0		
Int Door	1		
ExFlr	0		
Roof	562	0	0
Wall	669	281	42
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-21.2	808	64.7	86.9
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.7	46	-7.0	55.0
Total	-23.9			

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Zone Checksums
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A503 Unit H FCU Bedroom 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 15				Mo/Hr: 9 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 69 / 92				OADB: 80			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	99	0	99	2	64	1	Roof Cond	-160	-160	2.26
Glass Solar	2,045	0	2,045	31	2,820	54	Glass Solar	0	0	0.00
Glass/Door Cond	434	0	434	7	89	2	Glass/Door Cond	-2,610	-2,610	36.87
Wall Cond	548	0	548	8	553	11	Wall Cond	-882	-882	12.46
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	140		140	2	30	1	Infiltration	-390	-390	5.51
Sub Total ==>	3,267	0	3,267	50	3,557	69	*Sub Total ==>*	-4,042	-4,042	57.11
Internal Loads							**Internal Loads**			
Lights	696	174	870	13	696	13	Lights	0	0	0.00
People	900	0	900	14	500	10	People	0	0	0.00
Misc	435	0	435	7	435	8	Misc	0	0	0.00
Sub Total ==>	2,031	174	2,205	34	1,631	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,089	17	0	0	**Ventilation Load**	0	-591	8.35
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-2,444	34.53
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,298	152	6,538	100.00	5,189	100.00	*Grand Total ==>*	-4,042	-7,078	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.0	81.7
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.3	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	365	365
Terminal	365	365
Main Fan	365	365
Sec Fan	0	0
Nom Vent	42	42
AHU Vent	42	42
Infil	5	5
MinStop/Rh	0	0
Return	371	371
Exhaust	47	47
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.4	11.4
cfm/ft^2	0.72	0.72
cfm/ton	582.98	
ft^2/ton	813.91	
Btu/hr·ft^2	14.74	-18.99
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.6	7.5	5.6	365	76.3	62.2	76.0	59.0	54.9	69.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	42	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.6	7.5								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	510		
Part	0		
Int Door	1		
ExFlr	0		
Roof	65	0	0
Wall	259	80	31
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.2	365	64.9	81.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.4	42	-7.0	55.0
Total	-9.7			

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Zone Checksums
By WSP USA INC.

A503 Unit H FCU Bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 17			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 90			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	350	0	350	8	416	15	Glass Solar	0	0	0.00
Glass/Door Cond	552	0	552	13	518	19	Glass/Door Cond	-2,662	-2,662	41.00
Wall Cond	276	0	276	6	295	11	Wall Cond	-909	-909	14.00
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	137		137	3	69	3	Infiltration	-333	-333	5.13
Sub Total ==>	1,315	0	1,315	30	1,299	47	*Sub Total ==>*	-3,904	-3,904	60.12
Internal Loads							**Internal Loads**			
Lights	594	148	742	17	594	21	Lights	0	0	0.00
People	900	0	900	21	500	18	People	0	0	0.00
Misc	371	0	371	9	371	13	Misc	0	0	0.00
Sub Total ==>	1,865	148	2,013	46	1,465	53	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,067	24	0	0	**Ventilation Load**	0	-504	7.77
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-35	-35	-1			**OA Preheat Diff.**		-2,085	32.11
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,180	114	4,360	100.00	2,764	100.00	*Grand Total ==>*	-3,904	-6,493	100.00

TEMPERATURES

	Cooling	Heating
SADB	56.5	94.7
Ra Plenum	74.0	70.0
Return	74.9	70.0
Ret/OA	78.8	66.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	167	167
Terminal	167	167
Main Fan	167	167
Sec Fan	0	0
Nom Vent	36	36
AHU Vent	36	36
Infil	5	5
MinStop/Rh	0	0
Return	171	171
Exhaust	40	40
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	21.3	21.3
cfm/ft^2	0.38	0.38
cfm/ton	399.34	
ft^2/ton	1,040.99	
Btu/hr·ft^2	11.53	-20.63
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.4	5.0	3.5	167	78.8	63.4	78.1	56.5	52.6	63.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	36	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.4	5.0								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	435		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	266	82	31
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.9	167	59.8	94.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.1	36	-7.0	55.0
Total	-9.0			

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Zone Checksums
By WSP USA INC.

A503 Unit H FCU Bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 16			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 92			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	319	0	319	8	317	14	Glass Solar	0	0	0.00
Glass/Door Cond	271	0	271	7	272	12	Glass/Door Cond	-1,305	-1,305	27.49
Wall Cond	233	0	233	6	249	11	Wall Cond	-769	-769	16.19
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	125		125	3	72	3	Infiltration	-305	-305	6.42
Sub Total ==>	948	0	948	25	910	40	*Sub Total ==>*	-2,378	-2,378	50.10
Internal Loads							**Internal Loads**			
Lights	543	136	679	18	543	24	Lights	0	0	0.00
People	900	0	900	24	500	22	People	0	0	0.00
Misc	340	0	340	9	340	15	Misc	0	0	0.00
Sub Total ==>	1,783	136	1,919	50	1,383	60	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	976	26	0	0	**Ventilation Load**	0	-461	9.72
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-37	-37	-1			**OA Preheat Diff.**		-1,907	40.18
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	2,731	99	3,805	100.00	2,293	100.00	*Grand Total ==>*	-2,378	-4,747	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.4	89.3
Ra Plenum	74.0	70.0
Return	75.1	70.0
Ret/OA	79.6	66.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	130	130
Terminal	130	130
Main Fan	130	130
Sec Fan	0	0
Nom Vent	33	33
AHU Vent	33	33
Infil	4	4
MinStop/Rh	0	0
Return	134	134
Exhaust	37	37
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	25.0	25.0
cfm/ft^2	0.33	0.33
cfm/ton	356.33	
ft^2/ton	1,091.39	
Btu/hr·ft^2	11.00	-15.94
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.4	4.4	3.0	130	79.6	63.8	78.9	55.4	51.6	61.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	33	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.4	4.4								

AREAS

	Gross Total	Glass ft^2	(%)
Floor	398		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	196	40	20
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.4	130	60.5	89.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.9	33	-7.0	55.0
Total	-6.3			

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No. 12196777-2202
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date 5/17/2024

revisions:

no.	date	by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.10

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

A503 Unit H FCU Den

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16 — Outside Air: OADB/WB/HR: 92 / 69 / 91

	Space Sens. + Lat. Btuh	Plenum Sens. + Lat Btuh	Net Total Btuh	Percent Of Total (%)	Space Sensible Btuh	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	3,738	0	3,738	11	3,244	11
Glass Solar	9,642	0	9,642	29	14,686	51
Glass/Door Cond	3,847	0	3,847	12	1,588	6
Wall Cond	2,200	0	2,200	7	1,963	7
Partition/Door	0	0	0	0	0	0
Floor	0	0	0	0.00	0	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	542		542	2	228	1
Sub Total ==>	19,969	0	19,969	60	21,698	76
Internal Loads						
Lights	2,975	744	3,718	11	2,975	10
People	3,600	0	3,600	11	2,000	7
Misc	1,859	0	1,859	6	1,859	7
Sub Total ==>	8,434	744	9,178	28	6,834	24
Ceiling Load	0	0	0	0	0	0
Ventilation Load			4,216	13	0	0
Adj Air Trans Heat	0	0	0	0	0	0
Dehumid. Or Sizing			0	0	0	0
Ov/Undr Sizing	0	0	0	0	0	0
Exhaust Heat		-71	-71	0	0	0
Sup. Fan Heat			0	0	0	0
Ret. Fan Heat		0	0	0	0	0
Duct Heat Plup		0	0	0	0	0
Underfl Sup Ht Plup		0	0	0	0	0
Supply Air Leakage		0	0	0	0	0
Grand Total ==>	28,403	673	33,292	100.00	28,532	100.00

HEATING COIL PEAK — Mo/Hr: Heating Design — OADB: -7

	Space Peak Btuh	Coil Peak Tot Sens Btuh	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-719	-719	7.95
Glass Solar	0	0	0.00
Glass/Door Cond	-4,236	-4,236	46.82
Wall Cond	-2,133	-2,133	23.57
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-223	-223	2.47
Sub Total ==>	-7,314	-7,314	80.90
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	-329	-329	3.74
Adj Air Trans Heat	0	0	0.00
Dehumid. Or Sizing	0	0	0.00
Exhaust Heat	0	0	0.00
Sup. Fan Heat		0	0.00
Ret. Fan Heat		0	0.00
Duct Heat Plup		0	0.00
Underfl Sup Ht Plup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-7,314	-9,052	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.2	85.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.5	69.0
Fn Mn/TD	0.0	0.0
Fn Bl/ETD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	349	349
Terminal	349	349
Main Fan	349	349
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	0	0
Min/Stop/Rh	0	0
Return	325	325
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	6.8	6.8
cfm/ft²	1.19	1.19
cfm/ton	589.95	
ft²/ton	494.12	
Btu/hr ft²	24.29	-45.74
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	grs/lb	Leave DB/WB/HR °F	°F	grs/lb
Main Clg	0.6	7.1	5.5	349	75.5	61.8	75.1	58.8	54.5	67.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	24	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.6	7.1								

AREAS

	Gross Total	Glass	ft² (%)
Floor	292		0
Part	0		0
Int Door	1		
ExFlr	0		0
Roof	292	0	0
Wall	563	130	23
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-12.0	349	63.2	92.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	24	-7.0	55.0
Total	-13.4			

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A503 Unit H FCU Living Room

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85

	Space Sens. + Lat. Btuh	Plenum Sens. + Lat Btuh	Net Total Btuh	Percent Of Total (%)	Space Sensible Btuh	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	3,133	0	3,133	12	2,883	12
Glass Solar	7,683	0	7,683	30	9,475	44
Glass/Door Cond	3,976	0	3,976	15	3,141	14
Wall Cond	980	0	980	4	998	4
Partition/Door	0		0	0	0	0
Floor	0		0	0	0	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	378		378	1	232	1
Sub Total ==>	16,172	0	16,172	61	16,673	75
Internal Loads						
Lights	2,259	565	2,824	11	2,259	10
People	3,150	0	3,150	12	1,750	8
Misc	1,412	0	1,412	5	1,412	6
Sub Total ==>	6,822	565	7,386	28	5,422	25
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	2,940	11	0	0
Adj Air Trans Heat			0	0	0	0
Dehumid. Or Sizing			0	0	0	0
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-54	-54	0	0	0
Sup. Fan Heat			0	0	0	0
Ret. Fan Heat			0	0	0	0
Duct Heat Plup			0	0	0	0
Underfl Sup Ht Plup			0	0	0	0
Supply Air Leakage			0	0	0	0
Grand Total ==>	22,993	511	26,444	100.00	22,095	100.00

HEATING COIL PEAK — Mo/Hr: Heating Design — OADB: -7

	Space Peak Btuh	Coil Peak Tot Sens Btuh	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-1,693	-1,693	7.33
Glass Solar	0	0	0.00
Glass/Door Cond	-14,890	-14,890	64.49
Wall Cond	-1,891	-1,891	8.19
Partition/Door	0	0	0.00
Floor	0.00	0.00	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-526	-526	2.28
Sub Total ==>	-19,000	-19,000	82.29
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	-797	-797	3.45
Adj Air Trans Heat	0	0	0.00
Dehumid. Or Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		-3,292	14.25
Sup. Fan Heat		0	0.00
Ret. Fan Heat		0	0.00
Duct Heat Plup		0	0.00
Underfl Sup Ht Plup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-19,000	-23,089	100.00

TEMPERATURES

	Cooling	Heating
SADB	61.0	87.9
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	74.8	69.3
Fn Mn/TD	0.0	0.0
Fn Bl/ETD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,582	1,582
Terminal	1,582	1,582
Main Fan	1,582	1,582
Sec Fan	0	0
Nom Vent	135	135
AHU Vent	135	135
Infil	7	7
Min/Stop/Rh	0	0
Return	1,600	1,600
Exhaust	153	153
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.5	8.5
cfm/ft²	0.96	0.96
cfm/ton	624.34	
ft²/ton	653.06	
Btu/hr ft²	18.37	-32.62
No. People	7	

COOLING COIL SELECTION

	Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	grs/lb	Leave DB/WB/HR °F	°F	grs/lb
Main Clg	1.8	22.1	15.0	511	74.8	61.3	74.0	59.3	54.9	68.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	135	83.3	65.4	82.1	83.3	65.4	82.1
Total	2.5	30.4								

AREAS

	Gross Total	Glass	ft² (%)
Floor	1,655		
Part	0		0
Int Door	1		
ExFlr	0		0
Roof	1,530	0	0
Wall	997	636	64
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-46.1	1,582	62.8	88.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-7.9	135	-7.0	55.0
Total	-54.0			

Project Name:
Dataset Name: SOMMET220519.TRC

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A601 Unit I FCU bedroom 1

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85

	Space Sens. + Lat. Btuh	Plenum Sens. + Lat Btuh	Net Total Btuh	Percent Of Total (%)	Space Sensible Btuh	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	1,369	0	1,369	4	1,369	5
Glass Solar	7,641	0	7,641	23	9,475	39
Glass/Door Cond	3,421	0	3,421	20	2,901	19
Wall Cond	1,480	0	1,480	9	1,475	9
Partition/Door	0		0	0	0	0
Floor	0		0	0	0	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	155		155	1	93	1
Sub Total ==>	13,459	0	13,459	78	13,471	87
Internal Loads						
Lights	926	231	1,157	7	926	6
People	900	0	900	5	500	3
Misc	579	0	579	3	579	4
Sub Total ==>	2,404	231	2,636	15	2,004	13
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	1,204	7	0	0
Adj Air Trans Heat			0	0	0	0
Dehumid. Or Sizing			0	0	0	0
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-11	-11	0	0	0
Sup. Fan Heat			0	0	0	0
Ret. Fan Heat			0	0	0	0
Duct Heat Plup			0	0	0	0
Underfl Sup Ht Plup			0	0	0	0
Supply Air Leakage			0	0	0	0
Grand Total ==>	15,863	220	17,287	100.00	15,475	100.00

HEATING COIL PEAK — Mo/Hr: Heating Design — OADB: -7

	Space Peak Btuh	Coil Peak Tot Sens Btuh	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-1,073	-1,073	4.63
Glass Solar	0	0	0.00
Glass/Door Cond	-18,017	-18,017	66.04
Wall Cond	-3,039	-3,039	11.14
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-519	-519	1.90
Sub Total ==>	-23,245	-23,245	85.21
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	-786	-786	2.88
Adj Air Trans Heat	0	0	0.00
Dehumid. Or Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		-3,249	11.91
Sup. Fan Heat		0	0.00
Ret. Fan Heat		0	0.00
Duct Heat Plup		0	0.00
Underfl Sup Ht Plup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-23,245	-27,281	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.4	84.1
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	74.9	69.4
Fn Mn/TD	0.0	0.0
Fn Bl/ETD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,274	1,274
Terminal	1,274	1,274
Main Fan	1,274	1,274
Sec Fan	0	0
Nom Vent	55	55
AHU Vent	55	55
Infil	6	6
Min/Stop/Rh	0	0
Return	1,281	1,281
Exhaust	62	62
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	4.3	4.3
cfm/ft²	1.88	1.88
cfm/ton	768.88	
ft²/ton	409.24	
Btu/hr ft²	29.32	-60.17
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	grs/lb	Leave DB/WB/HR °F	°F	grs/lb
Main Clg	1.7	19.9	16.5	1,274	74.9	61.4	74.4	61.2	55.9	70.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	55	83.3	65.4	82.1	83.3	65.4	82.1
Total	1.7	19.9								

AREAS

	Gross Total	Glass	ft² (%)
Floor	678		
Part	0		0
Int Door	1		
ExFlr	0		0
Roof	678	0	0
Wall	1,166	562	47
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-37.6	1,274	64.0	88.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-3.3	55	-7.0	55.0
Total	-40.8			

Project Name:
Dataset Name: SOMMET220519.TRC

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A601 Unit I FCU bedroom 2

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85

	Space Sens. + Lat. Btuh	Plenum Sens. + Lat Btuh	Net Total Btuh	Percent Of Total (%)	Space Sensible Btuh	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	907	0	907	3	907	11
Glass Solar	3,067	0	3,067	9	3,067	37
Glass/Door Cond	1,687	0	1,687	17	1,687	20
Wall Cond	867	0	867	9	867	10
Partition/Door	0	0	0	0	0	0
Floor	0	0	0	0.00	0	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	163		163	2	99	1
Sub Total ==>	6,705	0	6,705	66	6,640	80
Internal Loads						
Lights	707	177	884	9	707	8
People	900	0	900	9	500	6
Misc	442	0	442	4	442	5
Sub Total ==>	2,049	177	2,226	22	1,649	20
Ceiling Load	0	0	0	0	0	0
Ventilation Load	0	0	1,222	12	0	0
Adj Air Trans Heat			0	0	0	0
Dehumid. Or Sizing			0	0	0	0
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-14	-14	0	0	0
Sup. Fan Heat			0	0	0	0
Ret. Fan Heat			0	0	0	0
Duct Heat Plup			0	0	0	0
Underfl Sup Ht Plup			0	0	0	0
Supply Air Leakage			0	0	0	0
Grand Total ==>	8,754	162	10,139	100.00	8,289	100.00

HEATING COIL PEAK — Mo/Hr: Heating Design — OADB: -7

	Space Peak Btuh	Coil Peak Tot Sens Btuh	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-1,276	-1,276	8.20
Glass Solar	0	0	0.00
Glass/Door Cond	-4,285	-4,285	27.52
Wall Cond	-2,526	-2,526	16.23
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-396	-396	2.55
Sub Total ==>	-12,483	-12,483	80.19
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	-601	-601	3.86
Adj Air Trans Heat	0	0	0.00
Dehumid. Or Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		-2,483	15.95
Sup. Fan Heat		0	0.00
Ret. Fan Heat		0	0.00
Duct Heat Plup		0	0.00
Underfl Sup Ht Plup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-12,483	-15,566	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.4	84.1
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	74.6	68.9
Fn Mn/TD	0.0	0.0
Fn Bl/ETD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	583	583
Terminal	583	583
Main Fan	583	583
Sec Fan	0	0
Nom Vent	42	42
AHU Vent	42	42
Infil	8	8
Min/Stop/Rh	0	0
Return	588	588
Exhaust	48	48
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.3	7.3
cfm/ft²	1.13	1.13
cfm/ton	597.60	
ft²/ton	530.94	
Btu/hr ft²	22.60	-44.26
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	grs/lb	Leave DB/WB/HR °F	°F	grs/lb
Main Clg	1.0	11.7	9.2	583	75.6	61.8	75.3	59.0	54.7	68.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	42	83.2	70.2	93.8	92.0	69.9	93.8
Total	1.0	11.7								

AREAS

	Gross Total	Glass	ft² (%)
Floor	518		
Part	0		0
Int Door	1		
ExFlr	0		0
Roof	518	0	0
Wall	797	254	32
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-20.4	583	63.0	92.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.5	42	-7.0	55.0
Total	-22.9			

Project Name:
Dataset Name: SOMMET220519.TRC

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A601 Unit I FCU bedroom 3

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 16 — Outside Air: OADB/WB/HR: 92 / 69 / 91

	Space Sens. + Lat. Btuh	Plenum Sens. + Lat Btuh	Net Total Btuh	Percent Of Total (%)	Space Sensible Btuh	Percent Of Total (%)
Envelope Loads						
Skylite Solar	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0
Roof Cond	795	0	795	15	795	20
Glass Solar	1,425	0	1,425	23	2,203	46
Glass/Door Cond	535	0	535	8	359	8
Wall Cond	333	0	333	5	469	10
Partition/Door	0		0	0	0	0
Floor	0		0	0.00	0	0
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00
Infiltration	117		117	2	74	2
Sub Total ==>	2,592	48	2,649	53	3,223	68
Internal Loads						
Lights	554	139	693	13	554	11
People	900	0	900	17	500	13
Misc	383	0	383	7	383	8
Sub Total ==>	1,801	139	1,939	36	1,401	35
Ceiling Load	0	0	0	0	0	0
Ventilation Load			912	17	0	0
Adj Air Trans Heat	0		0	0	0	0
Dehumid. Or Sizing			0	0	0	0
Ov/Undr Sizing	0		0	0	0	0
Exhaust Heat		-20	-20	0	0	0
Sup. Fan Heat			0	0	0	0
Ret. Fan Heat			0	0	0	0
Duct Heat Plup			0	0	0	0
Underfl Sup Ht Plup			0	0	0	0
Supply Air Leakage			0	0	0	0
Grand Total ==>	4,393	118	5,423	100.00	3,949	100.00

HEATING COIL PEAK — Mo/Hr: Heating Design — OADB: -7

	Space Peak Btuh	Coil Peak Tot Sens Btuh	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-1,000	-1,000	12.62
Glass Solar	0	0	0.00
Glass/Door Cond	-2,610	-2,610	34.59
Wall Cond	-813	-813	10.78
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-344	-344	4.56
Sub Total ==>	-4,873	-4,873	64.56
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	-521	-521	6.90
Adj Air Trans Heat	0	0	0.00
Dehumid. Or Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		-2,152	28.52
Sup. Fan Heat		0	0.00
Ret. Fan Heat		0	0.00
Duct Heat Plup		0	0.00
Underfl Sup Ht Plup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-5,511	-7,527	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.3	84.9
Ra Plenum	74.0	70.0
Return	74.5

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

B702 unit K FCU bedroom 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 18				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 65 / 76				OADB: 87			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	745	0	745	11	745	13	Roof Cond	-904	-904	13.28
Glass Solar	2,734	0	2,734	40	2,734	46	Glass Solar	0	0	0.00
Glass/Door Cond	424	0	424	6	424	7	Glass/Door Cond	-2,610	-2,610	38.32
Wall Cond	669	0	669	10	669	11	Wall Cond	-830	-830	12.19
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	51		51	1	46	1	Infiltration	-281	-281	4.12
Sub Total ==>	4,622	0	4,622	68	4,617	78	*Sub Total ==>*	-4,625	-4,625	67.92
Internal Loads							Internal Loads			
Lights	501	125	626	9	501	8	Lights	0	0	0.00
People	900	0	900	13	500	8	People	0	0	0.00
Misc	313	0	313	5	313	5	Misc	0	0	0.00
Sub Total ==>	1,714	125	1,839	27	1,314	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	395	6	0	0	**Ventilation Load**	0	-426	6.25
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,759	25.83
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,336	116	6,847	100.00	5,932	100.00	***Grand Total ==>***	-4,625	-6,810	100.00

TEMPERATURES	Cooling	Heating
SADB	59.7	81.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.1	69.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	437	437
Terminal	437	437
Main Fan	437	437
Sec Fan	0	0
Nom Vent	30	30
AHU Vent	30	30
Infil	4	4
MinStop/Rh	0	0
Return	440	440
Exhaust	34	34
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	6.9	6.9
cfm/ft²	1.19	1.19
cfm/ton	662.53	
ft²/ton	556.94	
Btu/hr·ft²	21.55	-26.30
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	7.9	6.4	437	75.1	61.4	74.0	59.7	55.0	68.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	30	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	7.9								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	367		
Part	0		
Int Door	1		
ExFlr	0		
Roof	367	0	0
Wall	249	80	32
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	437	65.9	81.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	30	-7.0	55.0
Total	-9.7			

Project Name:
Dataset Name: SOMMET220519.TRC
TRACE® 700 v6.3.5 calculated at 10:20 AM on 05/19/2022
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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 93			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	886	0	886	12	886	16	Roof Cond	-1,244	-1,244	13.36
Glass Solar	1,719	0	1,719	24	1,719	32	Glass Solar	0	0	0.00
Glass/Door Cond	796	0	796	11	796	15	Glass/Door Cond	-3,882	-3,882	41.69
Wall Cond	317	0	317	4	317	6	Wall Cond	-793	-793	8.52
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	159		159	2	96	2	Infiltration	-386	-386	4.15
Sub Total ==>	3,877	0	3,877	54	3,814	70	*Sub Total ==>*	-6,306	-6,306	67.72
Internal Loads							Internal Loads			
Lights	689	172	862	12	689	13	Lights	0	0	0.00
People	900	0	900	12	500	9	People	0	0	0.00
Misc	431	0	431	6	431	8	Misc	0	0	0.00
Sub Total ==>	2,020	172	2,193	30	1,620	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,192	16	0	0	**Ventilation Load**	0	-586	6.29
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-2,420	25.99
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,897	150	7,239	100.00	5,434	100.00	***Grand Total ==>***	-6,306	-9,312	100.00

TEMPERATURES	Cooling	Heating
SADB	58.0	88.6
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.5	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	359	359
Terminal	359	359
Main Fan	359	359
Sec Fan	0	0
Nom Vent	41	41
AHU Vent	41	41
Infil	5	5
MinStop/Rh	0	0
Return	364	364
Exhaust	47	47
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.5	11.5
cfm/ft²	0.71	0.71
cfm/ton	514.32	
ft²/ton	723.87	
Btu/hr·ft²	16.58	-26.12
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	8.3	6.3	359	76.5	62.3	76.2	58.0	54.0	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	41	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	505		
Part	0		
Int Door	1		
ExFlr	0		
Roof	505	0	0
Wall	280	119	43
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.8	359	63.2	88.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.4	41	-7.0	55.0
Total	-13.2			

Project Name:
Dataset Name: SOMMET220519.TRC
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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 86			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	804	0	804	12	323	6	Roof Cond	-1,131	-1,131	14.23
Glass Solar	1,427	0	1,427	22	2,191	44	Glass Solar	0	0	0.00
Glass/Door Cond	534	0	534	8	269	5	Glass/Door Cond	-2,610	-2,610	32.84
Wall Cond	459	0	459	7	647	13	Wall Cond	-1,124	-1,124	14.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	145		145	2	55	1	Infiltration	-351	-351	4.42
Sub Total ==>	3,369	0	3,369	52	3,484	70	*Sub Total ==>*	-5,216	-5,216	65.62
Internal Loads							Internal Loads			
Lights	627	157	783	12	627	13	Lights	0	0	0.00
People	900	0	900	14	500	10	People	0	0	0.00
Misc	392	0	392	6	392	8	Misc	0	0	0.00
Sub Total ==>	1,918	157	2,075	32	1,518	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,083	17	0	0	**Ventilation Load**	0	-532	6.70
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-2,200	27.68
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,288	139	6,509	100.00	5,002	100.00	***Grand Total ==>***	-5,216	-7,947	100.00

TEMPERATURES	Cooling	Heating
SADB	59.4	85.3
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.3	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	361	361
Terminal	361	361
Main Fan	361	361
Sec Fan	0	0
Nom Vent	37	37
AHU Vent	37	37
Infil	5	5
MinStop/Rh	0	0
Return	366	366
Exhaust	42	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	10.4	10.4
cfm/ft²	0.79	0.79
cfm/ton	575.36	
ft²/ton	731.64	
Btu/hr·ft²	16.40	-24.36
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.6	7.5	5.6	361	76.3	62.2	76.0	59.4	54.8	68.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	37	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	459		
Part	0		
Int Door	1		
ExFlr	0		
Roof	459	0	0
Wall	308	80	26
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.0	361	64.2	85.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	37	-7.0	55.0
Total	-11.2			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 5

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 93			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	685	0	685	14	685	20	Roof Cond	-963	-963	16.73
Glass Solar	713	0	713	14	713	21	Glass Solar	0	0	0.00
Glass/Door Cond	267	0	267	5	267	8	Glass/Door Cond	-1,305	-1,305	22.65
Wall Cond	354	0	354	7	354	10	Wall Cond	-865	-865	15.02
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	123		123	2	75	2	Infiltration	-299	-299	5.19
Sub Total ==>	2,143	0	2,143	43	2,095	61	*Sub Total ==>*	-3,433	-3,433	59.60
Internal Loads							Internal Loads			
Lights	534	133	667	13	534	15	Lights	0	0	0.00
People	900	0	900	18	500	14	People	0	0	0.00
Misc	334	0	334	7	334	10	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	38	1,367	39	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	923	19	0	0	**Ventilation Load**	0	-453	7.87
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-1,874	32.53
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,911	111	4,945	100.00	3,462	100.00	***Grand Total ==>***	-3,433	-5,760	100.00

TEMPERATURES	Cooling	Heating
SADB	56.9	87.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.2	67.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	214	214
Terminal	214	214
Main Fan	214	214
Sec Fan	0	0
Nom Vent	32	32
AHU Vent	32	32
Infil	4	4
MinStop/Rh	0	0
Return	218	218
Exhaust	36	36
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	14.9	14.9
cfm/ft²	0.55	0.55
cfm/ton	448.39	
ft²/ton	819.89	
Btu/hr·ft²	14.64	-20.32
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	5.7	4.1	214	77.2	62.6	76.9	56.9	53.1	64.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	32	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	391	0	0
Wall	216	40	19
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.1	214	63.0	87.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.9	32	-7.0	55.0
Total	-8.0			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU den 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 15			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 93			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	428	0	428	6	428	8	Roof Cond	-604	-604	6.14
Glass Solar	2,094	0	2,094	31	2,094	37	Glass Solar	0	0	0.00
Glass/Door Cond	1,175	0	1,175	17	1,175	21	Glass/Door Cond	-5,803	-5,803	59.03
Wall Cond	850	0	850	13	850	15	Wall Cond	-1,779	-1,779	18.09
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	47	1	Infiltration	-187	-187	1.91
Sub Total ==>	4,625	0	4,625	69	4,594	81	*Sub Total ==>*	-8,373	-8,373	85.17
Internal Loads							Internal Loads			
Lights	334	84	418	6	334	6	Lights	0	0	0.00
People	900	0	900	13	500	9	People	0	0	0.00
Misc	209	0	209	3	209	4	Misc	0	0	0.00
Sub Total ==>	1,444	84	1,527	23	1,044	19	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	578	9	0	0	**Ventilation Load**	0	-284	2.89
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-5	-5	0			**OA Preheat Diff.**		-1,174	11.94
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,068	79	6,725	100.00	5,638	100.00	***Grand Total ==>***	-8,373	-9,831	100.00

TEMPERATURES	Cooling	Heating
SADB	58.8	92.6
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	391	391
Terminal	391	391
Main Fan	391	391
Sec Fan	0	0
Nom Vent	20	20
AHU Vent	20	20
Infil	3	3
MinStop/Rh	0	0
Return	394	394
Exhaust	23	23
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	5.1	5.1
cfm/ft²	1.60	1.60
cfm/ton	604.81	
ft²/ton	379.03	
Btu/hr·ft²	31.66	-60.00
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.6	7.7	6.1	391	75.1	61.6	74.9	58.8	54.5	67.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	20	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	245		
Part	0		
Int Door	1		
ExFlr	0		
Roof	245	0	0
Wall	539	178	33
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-13.5	391	63.4	92.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.2	20	-7.0	55.0
Total	-14.7			

Project Name:
Dataset Name: SOMMET220519.TRC
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Zone Checksums
By WSP USA INC.

B702 unit K FCU Living Room

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	4,351	0	4,351	12	4,315	14	Roof Cond	-5,219	-5,219	9.51
Glass Solar	10,364	0	10,364	28	12,486	39	Glass Solar	0	0	0.00
Glass/Door Cond	5,605	0	5,605	15	4,800	15	Glass/Door Cond	-29,384	-29,384	53.52
Wall Cond	3,302	0	3,302	9	3,108	10	Wall Cond	-6,075	-6,075	11.06
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	484		484	1	294	1	Infiltration	-1,621	-1,621	2.95
Sub Total ==>	24,105	0	24,105	65	25,003	79	*Sub Total ==>*	-42,298	-42,298	77.04
Internal Loads							Internal Loads			
Lights	2,891	723	3,614	10	2,891	9	Lights	0	0	0.00
People	3,600	0	3,600	10	2,000	6	People	0	0	0.00
Misc	1,807	0	1,807	5	1,807	6	Misc	0	0	0.00
Sub Total ==>	8,299	723	9,022	24	6,699	21	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,762	10	0	0	**Ventilation Load**	0	-2,456	4.47
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-58	-58	0			**OA Preheat Diff.**		-10,151	18.49
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	32,404	664	36,830	100.00	31,702	100.00	***Grand Total ==>***	-42,298	-54,905	100.00

TEMPERATURES	Cooling	Heating
SADB	60.0	88.7
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.5	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	2,392	2,392
Terminal	2,392	2,392
Main Fan	2,392	2,392
Sec Fan	0	0
Nom Vent	173	173
AHU Vent	173	173
Infil	22	22
MinStop/Rh	0	0
Return	2,414	2,414
Exhaust	195	195
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	7.2	7.2
cfm/ft²	1.13	1.13
cfm/ton	674.51	
ft²/ton	597.31	
Btu/hr·ft²	20.09	-37.81
No. People	8	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	3.5	42.4	34.0	2,392	75.5	61.7	74.7	60.0	55.4	69.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.2	0.2	173	93.2	70.2	93.8	92.0	69.9	93.8
Total	3.6	42.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	2,118		
Part	0		
Int Door	1		
ExFlr	0		
Roof	2,118	0	0
Wall	2,134	901	42
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-69.9	2,392	64.0	88.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-10.2	173	-7.0	55.0
Total	-80.1			

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C202 Unit L FCU Bedroom 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 16				Mo/Hr: 8 / 17			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 89 / 68 / 90				OADB: 87			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,449	0	2,449	35	2,650	48	Glass Solar	0	0	0.00
Glass/Door Cond	436	0	436	6	401	7	Glass/Door Cond	-2,610	-2,610	30.53
Wall Cond	670	0	670	10	700	13	Wall Cond	-1,084	-1,084	12.68
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-22		-22	0	-19.79	0	Floor	-373	-373	4.36
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	135		135	2	60	1	Infiltration	-356	-356	4.16
Sub Total ==>	3,668	0	3,668	53	3,790	69	*Sub Total ==>*	-4,422	-4,422	51.74
Internal Loads							Internal Loads			
Lights	740	185	925	13	740	13	Lights	0	0	0.00
People	900	0	900	13	500	9	People	0	0	0.00
Misc	462	0	462	7	462	8	Misc	0	0	0.00
Sub Total ==>	2,102	185	2,287	33	1,702	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,051	15	0	0	**Ventilation Load**	0	-539	6.30
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,359	-1,359	15.91
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-26	-26	0			**OA Preheat Diff.**		-2,226	26.05
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,771	159	6,981	100.00	5,493	100.00	***Grand Total ==>***	-5,782	-8,547	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.4	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	305	305
Terminal	305	305
Main Fan	305	305
Sec Fan	0	0
Nom Vent	38	38
AHU Vent	38	38
Infil	5	5
MinStop/Rh	0	0
Return	310	310
Exhaust	43	43
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	12.4	12.4
cfm/ft²	0.56	0.56
cfm/ton	454.12	
ft²/ton	805.86	
Btu/hr·ft²	14.89	-22.33
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	8.0	6.0	305	76.4	61.0	70.0	55.0	51.2	60.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	38	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.1								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	542		
Part	0		
Int Door	1		
ExFlr	95		
Roof	0	0	0
Wall	300	80	27
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.9	305	62.7	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	38	-7.0	55.0
Total	-12.1			

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C202 Unit L FCU Bedroom 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 13				Mo/Hr: 8 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 67 / 83				OADB: 83			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,340	0	2,340	41	2,534	56	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	37.56
Wall Cond	405	0	405	7	388	9	Wall Cond	-670	-670	9.65
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	82		82	1	32	1	Infiltration	-276	-276	3.97
Sub Total ==>	3,119	0	3,119	55	3,127	69	*Sub Total ==>*	-3,556	-3,556	51.18
Internal Loads							Internal Loads			
Lights	575	144	718	13	575	13	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	359	0	359	6	359	8	Misc	0	0	0.00
Sub Total ==>	1,834	144	1,978	35	1,434	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	641	11	0	0	**Ventilation Load**	0	-418	6.02
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,245	-1,245	17.91
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-19	-19	0			**OA Preheat Diff.**		-1,729	24.89
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,953	125	5,719	100.00	4,561	100.00	***Grand Total ==>***	-4,801	-6,949	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.0	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	254	254
Terminal	254	254
Main Fan	254	254
Sec Fan	0	0
Nom Vent	29	29
AHU Vent	29	29
Infil	4	4
MinStop/Rh	0	0
Return	257	257
Exhaust	33	33
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.6	11.6
cfm/ft²	0.60	0.60
cfm/ton	460.38	
ft²/ton	764.26	
Btu/hr·ft²	15.70	-23.48
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.6	6.6	5.0	254	76.0	60.6	68.4	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	29	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	6.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	421		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	216	80	37
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.2	254	62.8	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	29	-7.0	55.0
Total	-9.9			

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C202 Unit L FCU Bedroom 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 13				Mo/Hr: 8 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 67 / 83				OADB: 83			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,340	0	2,340	42	2,534	56	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	38.69
Wall Cond	405	0	405	7	388	9	Wall Cond	-670	-670	9.94
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	30	1	Infiltration	-258	-258	3.83
Sub Total ==>	3,113	0	3,113	56	3,125	69	*Sub Total ==>*	-3,538	-3,538	52.45
Internal Loads							Internal Loads			
Lights	538	134	672	12	538	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	336	0	336	6	336	7	Misc	0	0	0.00
Sub Total ==>	1,774	134	1,909	34	1,374	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	600	11	0	0	**Ventilation Load**	0	-392	5.80
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,197	-1,197	17.75
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-1,619	23.99
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,887	118	5,605	100.00	4,499	100.00	***Grand Total ==>***	-4,736	-6,746	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	250	250
Terminal	250	250
Main Fan	250	250
Sec Fan	0	0
Nom Vent	28	28
AHU Vent	28	28
Infil	4	4
MinStop/Rh	0	0
Return	254	254
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.44	
ft²/ton	729.92	
Btu/hr·ft²	16.44	-24.44
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	6.5	4.9	250	75.9	60.5	68.3	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	28	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	394		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	216	80	37
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.0	250	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	28	-7.0	55.0
Total	-9.6			

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C202 Unit L FCU Bedroom 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 7 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 86			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	843	0	843	18	1,089	31	Glass Solar	0	0	0.00
Glass/Door Cond	242	0	242	5	134	4	Glass/Door Cond	-1,305	-1,305	22.72
Wall Cond	886	0	886	18	923	26	Wall Cond	-2,168	-2,168	37.76
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	109		109	2	40	1	Infiltration	-257	-257	4.48
Sub Total ==>	2,080	0	2,080	43	2,186	61	*Sub Total ==>*	-3,730	-3,730	64.96
Internal Loads							Internal Loads			
Lights	535	134	669	14	535	15	Lights	0	0	0.00
People	900	0	900	19	500	14	People	0	0	0.00
Misc	334	0	334	7	334	9	Misc	0	0	0.00
Sub Total ==>	1,770	134	1,903	40	1,370	39	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	842	18	0	0	**Ventilation Load**	0	-390	6.78
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-12	-12	0.22
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-21	-21	0			**OA Preheat Diff.**		-1,610	28.04
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,850	113	4,805	100.00	3,556	100.00	***Grand Total ==>***	-3,743	-5,743	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.1	67.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	198	198
Terminal	198	198
Main Fan	198	198
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	201	201
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	13.9	13.9
cfm/ft²	0.50	0.50
cfm/ton	426.93	
ft²/ton	846.48	
Btu/hr·ft²	14.18	-20.58
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	5.5	4.0	198	77.1	61.5	71.3	55.0	51.1	59.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	392		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	480	40	8
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.5	198	62.4	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-8.1			

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Zone Checksums
By WSP USA INC.

C202 Unit L FCU Living Room

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 14			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 92			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	3,913	0	3,913	17	4,253	24	Glass Solar	0	0	0.00
Glass/Door Cond	2,780	0	2,780	12	2,504	14	Glass/Door Cond	-13,401	-13,401	48.67
Wall Cond	1,247	0	1,247	5	1,307	7	Wall Cond	-2,523	-2,523	9.16
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	531		531	2	279	2	Infiltration	-1,177	-1,177	4.28
Sub Total ==>	8,471	0	8,471	36	8,342	48	*Sub Total ==>*	-17,101	-17,101	62.11
Internal Loads							Internal Loads			
Lights	2,450	613	3,063	13	2,450	14	Lights	0	0	0.00
People	3,150	0	3,150	13	1,750	10	People	0	0	0.00
Misc	1,531	0	1,531	7	1,531	9	Misc	0	0	0.00
Sub Total ==>	7,132	613	7,744	33	5,732	33	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,989	17	0	0	**Ventilation Load**	0	-1,784	6.48
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,276	-1,276	4.63
Ov/Undr Sizing	3,384		3,384	14	3,384	19	**Exhaust Heat**		0	0.00
Exhaust Heat		-88	-88	0			**OA Preheat Diff.**		-7,373	26.78
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	18,987	525	23,500	100.00	17,458	100.00	***Grand Total ==>***	-18,377	-27,534	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	76.9	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	971	971
Terminal	971	971
Main Fan	971	971
Sec Fan	0	0
Nom Vent	126	126
AHU Vent	126	126
Infil	16	16
MinStop/Rh	0	0
Return	987	987
Exhaust	142	142
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	12.9	12.9
cfm/ft²	0.54	0.54
cfm/ton	436.95	
ft²/ton	807.88	
Btu/hr·ft²	14.85	-21.66
No. People	7	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	2.2	26.5	20.0	971	76.9	61.7	72.3	55.0	51.5	61.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	126	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.2	26.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	1,795		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	923	411	45
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-31.5	971	62.6	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-7.4	126	-7.0	55.0
Total	-38.9			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 8 / 17			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	818	0	818	11	715	12	Roof Cond	-976	-976	10.59
Glass Solar	2,288	0	2,288	30	2,605	43	Glass Solar	0	0	0.00
Glass/Door Cond	503	0	503	7	398	6	Glass/Door Cond	-2,610	-2,610	28.31
Wall Cond	615	0	615	8	635	10	Wall Cond	-848	-848	9.20
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	128		128	2	60	1	Infiltration	-357	-357	3.87
Sub Total ==>	4,351	0	4,351	57	4,413	72	*Sub Total ==>*	-4,790	-4,790	51.96
Internal Loads							Internal Loads			
Lights	743	186	928	12	743	12	Lights	0	0	0.00
People	900	0	900	12	500	8	People	0	0	0.00
Misc	464	0	464	6	464	8	Misc	0	0	0.00
Sub Total ==>	2,107	186	2,293	30	1,707	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	993	13	0	0	**Ventilation Load**	0	-541	5.87
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,652	-1,652	17.93
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-23	-23	0			**OA Preheat Diff.**		-2,235	24.24
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,457	163	7,613	100.00	6,120	100.00	***Grand Total ==>***	-6,442	-9,218	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.3	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	340	340
Terminal	340	340
Main Fan	340	340
Sec Fan	0	0
Nom Vent	38	38
AHU Vent	38	38
Infil	5	5
MinStop/Rh	0	0
Return	345	345
Exhaust	43	43
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.2	11.2
cfm/ft²	0.63	0.63
cfm/ton	464.18	
ft²/ton	741.98	
Btu/hr·ft²	16.17	-24.16
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	8.8	6.8	340	76.3	60.7	68.7	55.0	51.1	59.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	38	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	544		
Part	0		
Int Door	1		
ExFlr	0		
Roof	396	0	0
Wall	252	80	32
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.9	340	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	38	-7.0	55.0
Total	-13.2			

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Zone Checksums
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C702 Unit M FCU bedrooM FCU 2

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 8 / 13			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 87			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,092	0	2,092	26	2,706	41	Glass Solar	0	0	0.00
Glass/Door Cond	922	0	922	12	552	8	Glass/Door Cond	-4,958	-4,958	54.73
Wall Cond	718	0	718	9	647	10	Wall Cond	-1,764	-1,764	19.47
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	119		119	1	44	1	Infiltration	-266	-266	2.94
Sub Total ==>	3,851	0	3,851	48	3,949	59	*Sub Total ==>*	-6,989	-6,989	77.14
Internal Loads							Internal Loads			
Lights	554	139	693	9	554	8	Lights	0	0	0.00
People	900	0	900	11	500	8	People	0	0	0.00
Misc	346	0	346	4	346	5	Misc	0	0	0.00
Sub Total ==>	1,801	139	1,939	24	1,401	21	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	917	11	0	0	**Ventilation Load**	0	-404	4.45
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	1,290		1,290	16	1,290	19	**Exhaust Heat**		0	0.00
Exhaust Heat		-12	-12	0			**OA Preheat Diff.**		-1,668	18.41
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,942	127	7,985	100.00	6,640	100.00	***Grand Total ==>***	-6,989	-9,060	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	369	369
Terminal	369	369
Main Fan	369	369
Sec Fan	0	0
Nom Vent	28	28
AHU Vent	28	28
Infil	4	4
MinStop/Rh	0	0
Return	373	373
Exhaust	32	32
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	7.7	7.7
cfm/ft²	0.91	0.91
cfm/ton	491.08	
ft²/ton	540.03	
Btu/hr·ft²	22.22	-32.56
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.8	9.0	7.1	369	75.8	60.3	67.5	55.0	51.1	59.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	28	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.8	9.0								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	406		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	510	152	30
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.6	369	63.6	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	28	-7.0	55.0
Total	-13.2			

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Zone Checksums
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C702 Unit M FCU bedrooM FCU 3

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 13				Mo/Hr: 8 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 67 / 83				OADB: 83			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,340	0	2,340	42	2,534	57	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	39.03
Wall Cond	369	0	369	7	354	8	Wall Cond	-611	-611	9.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	76		76	1	30	1	Infiltration	-256	-256	3.84
Sub Total ==>	3,077	0	3,077	55	3,090	69	*Sub Total ==>*	-3,477	-3,477	52.00
Internal Loads							Internal Loads			
Lights	534	133	667	12	534	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	334	0	334	6	334	7	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	34	1,367	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	595	11	0	0	**Ventilation Load**	0	-389	5.81
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,215	-1,215	18.17
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,606	24.02
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,844	117	5,556	100.00	4,458	100.00	***Grand Total ==>***	-4,692	-6,687	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	248	248
Terminal	248	248
Main Fan	248	248
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	251	251
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.28	
ft²/ton	730.79	
Btu/hr·ft²	16.42	-24.41
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	6.4	4.9	248	75.9	60.6	68.4	55.0	50.8	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	248	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-9.6			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 4

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 8 / 13				Mo/Hr: 8 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 67 / 83				OADB: 83			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	2,340	0	2,340	42	2,534	57	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	39.03
Wall Cond	369	0	369	7	354	8	Wall Cond	-611	-611	9.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	76		76	1	30	1	Infiltration	-256	-256	3.84
Sub Total ==>	3,077	0	3,077	55	3,090	69	*Sub Total ==>*	-3,477	-3,477	52.00
Internal Loads							Internal Loads			
Lights	534	133	667	12	534	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	334	0	334	6	334	7	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	34	1,367	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	595	11	0	0	**Ventilation Load**	0	-389	5.81
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,215	-1,215	18.17
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,606	24.02
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,844	117	5,556	100.00	4,458	100.00	***Grand Total ==>***	-4,692	-6,687	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	248	248
Terminal	248	248
Main Fan	248	248
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	251	251
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.28	
ft²/ton	730.79	
Btu/hr·ft²	16.42	-24.41
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	6.4	4.9	248	75.9	60.6	68.4	55.0	50.8	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	248	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-9.6			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 5

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 14				Mo/Hr: 8 / 12			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 92 / 69 / 91				OADB: 83			OADB: -7		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	843	0	843	20	1,267	41	Glass Solar	0	0	0.00
Glass/Door Cond	244	0	244	6	86	3	Glass/Door Cond	-1,305	-1,305	25.67
Wall Cond	411	0	411	10	434	14	Wall Cond	-749	-749	14.73
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	98		98	2	27	1	Infiltration	-234	-234	4.59
Sub Total ==>	1,596	0	1,596	39	1,814	58	*Sub Total ==>*	-2,287	-2,287	45.00
Internal Loads							Internal Loads			
Lights	486	122	608	15	486	16	Lights	0	0	0.00
People	900	0	900	22	500	16	People	0	0	0.00
Misc	304	0	304	7	304	10	Misc	0	0	0.00
Sub Total ==>	1,690	122	1,811	44	1,290	42	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	756	18	0	0	**Ventilation Load**	0	-354	6.96
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-980	-980	19.28
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-19	-19	0			**OA Preheat Diff.**		-1,462	28.77
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,286	102	4,143	100.00	3,104	100.00	***Grand Total ==>***	-3,267	-5,084	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.2	67.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	173	173
Terminal	173	173
Main Fan	173	173
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	176	176
Exhaust	28	28
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	14.4	14.4
cfm/ft²	0.48	0.48
cfm/ton	432.12	
ft²/ton	891.26	
Btu/hr·ft²	13.46	-20.00
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.8	3.4	173	77.2	61.7	72.0	55.0	51.5	61.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	356		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	192	40	21
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.7	173	62.3	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-7.1			

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No. 12196777-2202
MATTHEW WILLIAM

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principal architect ______
project manager ______
drawn by ______
______
checked by Checker
job no.
date 5/17/2024

revisions:

no.	date	by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.12

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

C702 Unit M FCU living room

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 8 / 17 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	652	0	652	2	571	3	Roof Cond	-779	-779	2.43
Glass Solar	7,012	0	7,012	26	8,173	38	Glass Solar	0	0	0.00
Glass/Door Cond	3,087	0	3,087	12	2,503	12	Glass/Door Cond	-16,020	-16,020	49.97
Wall Cond	1,080	0	1,080	4	1,008	5	Wall Cond	-2,541	-2,541	7.93
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-24		-24	0	-60.66	0	Floor	-1,151	-1,151	3.59
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	410		410	2	239	1	Infiltration	-1,200	-1,200	3.74
Sub Total ==>	12,217	0	12,217	46	12,434	58	*Sub Total ==>*	-21,691	-21,691	67.66
Internal Loads							**Internal Loads**			
Lights	2,498	624	3,122	12	2,498	12	Lights	0	0	0.00
People	3,600	0	3,600	13	2,000	9	People	0	0	0.00
Misc	1,561	0	1,561	6	1,561	7	Misc	0	0	0.00
Sub Total ==>	7,659	624	8,283	31	6,059	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,190	12	0	0	**Ventilation Load**	0	-1,818	5.67
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,035	-1,035	3.23
Ov/Undr Sizing	3,097		3,097	12	3,097	14	**Exhaust Heat**		0	0.00
Exhaust Heat		-74	-74	0			**OA Preheat Diff.**		-7,515	23.44
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	22,973	550	26,713	100.00	21,590	100.00	***Grand Total ==>***	-22,726	-32,059	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.2	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,201	1,201
Terminal	1,201	1,201
Main Fan	1,201	1,201
Sec Fan	0	0
Nom Vent	128	128
AHU Vent	128	128
Infil	16	16
MinStop/Rh	0	0
Return	1,217	1,217
Exhaust	145	145
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.7	10.7
cfm/ft²	0.66	0.66
cfm/ton	473.87	
ft²/ton	722.16	
Btu/hr·ft²	16.62	-25.07
No. People	8	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	2.5	30.3	23.7	1,201	76.2	61.0	70.3	55.0	51.7	61.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.2	0.1	128	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.5	30.4								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,830		
Part	0		
Int Door	1		
ExFlr	293		
Roof	316	0	0
Wall	1,007	491	49
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-38.4	1,201	63.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-7.5	128	-7.0	55.0
Total	-45.9			

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Bedroom 1

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 8 / 17 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	817	0	817	11	715	11	Roof Cond	-976	-976	10.45
Glass Solar	2,275	0	2,275	29	2,591	41	Glass Solar	0	0	0.00
Glass/Door Cond	502	0	502	6	397	6	Glass/Door Cond	-2,610	-2,610	27.95
Wall Cond	798	0	798	10	785	13	Wall Cond	-1,202	-1,202	12.88
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	127		127	2	60	1	Infiltration	-355	-355	3.80
Sub Total ==>	4,520	0	4,520	58	4,548	73	*Sub Total ==>*	-5,143	-5,143	55.08
Internal Loads							**Internal Loads**			
Lights	739	185	923	12	739	12	Lights	0	0	0.00
People	900	0	900	12	500	8	People	0	0	0.00
Misc	462	0	462	6	462	7	Misc	0	0	0.00
Sub Total ==>	2,100	185	2,285	29	1,700	27	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	991	13	0	0	**Ventilation Load**	0	-538	5.76
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,434	-1,434	15.36
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-2,222	23.80
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,620	162	7,773	100.00	6,248	100.00	***Grand Total ==>***	-6,577	-9,337	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.2	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	347	347
Terminal	347	347
Main Fan	347	347
Sec Fan	0	0
Nom Vent	38	38
AHU Vent	38	38
Infil	5	5
MinStop/Rh	0	0
Return	352	352
Exhaust	43	43
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.9	10.9
cfm/ft²	0.64	0.64
cfm/ton	464.18	
ft²/ton	722.82	
Btu/hr·ft²	16.60	-24.66
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.7	8.9	6.9	347	76.2	60.7	68.5	55.0	51.0	59.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	38	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	9.0								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	541		
Part	0		
Int Door	1		
ExFlr	0		
Roof	396	0	0
Wall	324	80	25
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.1	347	63.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	38	-7.0	55.0
Total	-13.3			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Bedroom 2

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	817	0	817	7	802	8	Roof Cond	-993	-993	7.60
Glass Solar	2,639	0	2,639	22	2,855	27	Glass Solar	0	0	0.00
Glass/Door Cond	1,211	0	1,211	10	1,020	10	Glass/Door Cond	-6,524	-6,524	49.92
Wall Cond	860	0	860	7	863	8	Wall Cond	-2,149	-2,149	16.44
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-20		-20	0	-10.75	0	Floor	-1,084	-1,084	8.29
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	102		102	1	43	0	Infiltration	-264	-264	2.02
Sub Total ==>	5,608	0	5,608	47	5,572	53	*Sub Total ==>*	-11,014	-11,014	84.27
Internal Loads							**Internal Loads**			
Lights	550	138	688	6	550	5	Lights	0	0	0.00
People	900	0	900	8	500	5	People	0	0	0.00
Misc	344	0	344	3	344	3	Misc	0	0	0.00
Sub Total ==>	1,794	138	1,932	16	1,394	13	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	796	7	0	0	**Ventilation Load**	0	-401	3.06
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	3,497		3,497	30	3,497	33	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-1,655	12.67
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	10,900	130	11,826	100.00	10,463	100.00	***Grand Total ==>***	-11,014	-13,070	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.0	69.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	582	582
Terminal	582	582
Main Fan	582	582
Sec Fan	0	0
Nom Vent	28	28
AHU Vent	28	28
Infil	4	4
MinStop/Rh	0	0
Return	585	585
Exhaust	32	32
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	4.8	4.8
cfm/ft²	1.44	1.44
cfm/ton	532.69	
ft²/ton	368.97	
Btu/hr·ft²	32.52	-48.36
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	1.1	13.1	11.0	582	75.0	59.4	64.1	55.0	50.8	58.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	28	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.1	13.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	403		
Part	0		
Int Door	1		
ExFlr	276		
Roof	403	0	0
Wall	636	200	31
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-17.8	582	64.1	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	28	-7.0	55.0
Total	-19.5			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Bedroom 3

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 18 — Outside Air: OADB/WB/HR: 87 / 65 / 76
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	595	0	595	10	595	13	Roof Cond	-719	-719	10.38
Glass Solar	1,902	0	1,902	33	1,902	40	Glass Solar	0	0	0.00
Glass/Door Cond	428	0	428	7	428	9	Glass/Door Cond	-2,610	-2,610	37.64
Wall Cond	372	0	372	7	372	8	Wall Cond	-611	-611	8.81
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	61		61	1	42	1	Infiltration	-255	-255	3.68
Sub Total ==>	3,358	0	3,358	59	3,339	71	*Sub Total ==>*	-4,195	-4,195	60.51
Internal Loads							**Internal Loads**			
Lights	531	133	664	12	531	11	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	332	0	332	6	332	7	Misc	0	0	0.00
Sub Total ==>	1,763	133	1,896	33	1,363	29	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	477	8	0	0	**Ventilation Load**	0	-387	5.58
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-754	-754	10.87
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-15	-15	0			**OA Preheat Diff.**		-1,598	23.05
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,121	117	5,716	100.00	4,702	100.00	***Grand Total ==>***	-4,949	-6,934	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	75.8	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	261	261
Terminal	261	261
Main Fan	261	261
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	265	265
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.4	10.4
cfm/ft²	0.67	0.67
cfm/ton	475.03	
ft²/ton	706.79	
Btu/hr·ft²	16.98	-25.54
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.6	6.6	5.1	261	75.8	60.3	67.5	55.0	50.8	58.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	6.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	389		
Part	0		
Int Door	1		
ExFlr	0		
Roof	292	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.3	261	63.1	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-9.9			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Bedroom 4

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 18 — Outside Air: OADB/WB/HR: 87 / 65 / 76
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	740	0	740	13	740	16	Roof Cond	-897	-897	13.07
Glass Solar	1,872	0	1,872	33	1,872	39	Glass Solar	0	0	0.00
Glass/Door Cond	425	0	425	7	425	9	Glass/Door Cond	-2,610	-2,610	38.03
Wall Cond	371	0	371	6	371	8	Wall Cond	-611	-611	8.91
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	58		58	1	39	1	Infiltration	-239	-239	3.48
Sub Total ==>	3,465	0	3,465	60	3,447	72	*Sub Total ==>*	-4,356	-4,356	63.49
Internal Loads							**Internal Loads**			
Lights	497	124	621	11	497	10	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	311	0	311	5	311	7	Misc	0	0	0.00
Sub Total ==>	1,708	124	1,832	32	1,308	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	449	8	0	0	**Ventilation Load**	0	-362	5.27
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-648	-648	9.44
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-13	-13	0			**OA Preheat Diff.**		-1,495	21.79
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,173	111	5,733	100.00	4,754	100.00	***Grand Total ==>***	-5,004	-6,862	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	75.7	68.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	264	264
Terminal	264	264
Main Fan	264	264
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	268	268
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	9.6	9.6
cfm/ft²	0.73	0.73
cfm/ton	479.10	
ft²/ton	659.67	
Btu/hr·ft²	18.19	-27.14
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.6	6.6	5.2	264	75.7	60.3	67.3	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	6.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	364		
Part	0		
Int Door	1		
ExFlr	0		
Roof	364	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.4	264	63.2	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-9.9			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Bedroom 5

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	747	0	747	16	737	20	Roof Cond	-894	-894	15.62
Glass Solar	745	0	745	16	933	25	Glass Solar	0	0	0.00
Glass/Door Cond	250	0	250	5	212	6	Glass/Door Cond	-1,305	-1,305	22.79
Wall Cond	389	0	389	8	455	12	Wall Cond	-749	-749	13.08
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	82		82	2	39	1	Infiltration	-238	-238	4.16
Sub Total ==>	2,213	0	2,213	47	2,376	65	*Sub Total ==>*	-3,186	-3,186	55.64
Internal Loads							**Internal Loads**			
Lights	496	124	619	13	496	13	Lights	0	0	0.00
People	900	0	900	19	500	14	People	0	0	0.00
Misc	310	0	310	7	310	8	Misc	0	0	0.00
Sub Total ==>	1,705	124	1,829	39	1,305	35	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	642	14	0	0	**Ventilation Load**	0	-361	6.30
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-688	-688	12.02
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-1,491	26.04
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,918	107	4,666	100.00	3,681	100.00	***Grand Total ==>***	-3,875	-5,727	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.5	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	205	205
Terminal	205	205
Main Fan	205	205
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	208	208
Exhaust	29	29
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	12.4	12.4
cfm/ft²	0.56	0.56
cfm/ton	455.28	
ft²/ton	807.40	
Btu/hr·ft²	14.86	-22.34
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.5	5.4	4.0	205	76.5	61.1	70.1	55.0	51.3	60.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.4								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	363		
Part	0		
Int Door	1		
ExFlr	0		
Roof	363	0	0
Wall	192	40	21
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.6	205	62.7	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-8.1			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C701 Unit N FCU Living Room

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	650	0	650	3	618	3	Roof Cond	-771	-771	2.68
Glass Solar	4,351	0	4,351	19	6,603	35	Glass Solar	0	0	0.00
Glass/Door Cond	2,919	0	2,919	13	2,015	11	Glass/Door Cond	-14,999	-14,999	52.16
Wall Cond	1,211	0	1,211	5	1,361	7	Wall Cond	-2,146	-2,146	7.46
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	398		398	2	176	1	Infiltration	-1,123	-1,123	3.91
Sub Total ==>	9,528	0	9,528	41	10,773	57	*Sub Total ==>*	-19,040	-19,040	66.21
Internal Loads							**Internal Loads**			
Lights	2,338	584	2,922	13	2,338	12	Lights	0	0	0.00
People	3,600	0	3,600	16	2,000	11	People	0	0	0.00
Misc	1,461	0	1,461	6	1,461	8	Misc	0	0	0.00
Sub Total ==>	7,399	584	7,984	35	5,799	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,092	13	0	0	**Ventilation Load**	0	-1,702	5.92
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-978	-978	3.40
Ov/Undr Sizing	2,445		2,445	11	2,445	13	**Exhaust Heat**		0	0.00
Exhaust Heat		-74	-74	0			**OA Preheat Diff.**		-7,035	24.47
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	19,372	511	22,974	100.00	19,017	100.00	***Grand Total ==>***	-20,017	-28,754	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.3	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,057	1,057
Terminal	1,057	1,057
Main Fan	1,057	1,057
Sec Fan	0	0
Nom Vent	120	120
AHU Vent	120	120
Infil	15	15
MinStop/Rh	0	0
Return	1,073	1,073
Exhaust	135	135
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.3	11.3
cfm/ft²	0.62	0.62
cfm/ton	484.51	
ft²/ton	784.67	
Btu/hr·ft²	15.29	-23.92
No. People	8	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	2.2	26.1	19.9	1,057	76.3	60.8	69.1	55.0	51.6	61.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	120	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.2	26.2								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,713		
Part	0		
Int Door	1		
ExFlr	0		
Roof	313	0	0
Wall	895	460	51
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-33.9	1,057	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-7.0	120	-7.0	55.0
Total	-41.0			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU bedroom 1

COOLING COIL PEAK Peaked at Time: Mo/Hr: 8 / 17 — Outside Air: OADB/WB/HR: 87 / 67 / 84
CLG SPACE PEAK Mo/Hr: 8 / 17 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	1,135	0	1,135	5	1,135	6	Roof Cond	-1,562	-1,562	6.46
Glass Solar	8,109	0	8,109	38	8,109	42	Glass Solar	0	0	0.00
Glass/Door Cond	2,328	0	2,328	11	2,328	12	Glass/Door Cond	-15,553	-15,553	64.29
Wall Cond	1,290	0	1,290	6	1,290	7	Wall Cond	-2,819	-2,819	11.65
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	166		166	1	82	0	Infiltration	-485	-485	2.01
Sub Total ==>	13,030	0	13,030	61	12,945	67	*Sub Total ==>*	-20,420	-20,420	84.40
Internal Loads							**Internal Loads**			
Lights	866	216	1,082	5	866	4	Lights	0	0	0.00
People	900	0	900	4	500	3	People	0	0	0.00
Misc	541	0	541	3	541	3	Misc	0	0	0.00
Sub Total ==>	2,307	216	2,523	12	1,907	10	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,292	6	0	0	**Ventilation Load**	0	-735	3.04
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	4,547		4,547	21	4,547	23	**Exhaust Heat**		0	0.00
Exhaust Heat		-12	-12	0			**OA Preheat Diff.**		-3,038	12.56
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	19,883	205	21,380	100.00	19,399	100.00	***Grand Total ==>***	-20,420	-24,193	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	74.8	69.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,079	1,079
Terminal	1,079	1,079
Main Fan	1,079	1,079
Sec Fan	0	0
Nom Vent	52	52
AHU Vent	52	52
Infil	7	7
MinStop/Rh	0	0
Return	1,085	1,085
Exhaust	58	58
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	4.8	4.8
cfm/ft²	1.70	1.70
cfm/ton	540.15	
ft²/ton	317.48	
Btu/hr·ft²	37.80	-56.93
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	2.0	23.9	20.2	1,079	74.8	59.2	63.5	55.0	50.7	57.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	52	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.0	24.0								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	634		
Part	0		
Int Door	1		
ExFlr	0		
Roof	634	0	0
Wall	1,049	477	45
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-33.1	1,079	64.1	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-3.0	52	-7.0	55.0
Total	-36.1			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU bedroom 2

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 — Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK Mo/Hr: 8 / 13 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	663	0	663	11	329	7	Roof Cond	-931	-931	12.88
Glass Solar	1,175	0	1,175	19	1,893	40	Glass Solar	0	0	0.00
Glass/Door Cond	633	0	633	10	342	7	Glass/Door Cond	-3,088	-3,088	42.71
Wall Cond	323	0	323	5	402	8	Wall Cond	-672	-672	9.29
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	134		134	2	48	1	Infiltration	-289	-289	4.00
Sub Total ==>	2,928	0	2,928	47	3,013	64	*Sub Total ==>*	-4,981	-4,981	68.88
Internal Loads							**Internal Loads**			
Lights	516	129	645	10	516	11	Lights	0	0	0.00
People	900	0	900	15	500	11	People	0	0	0.00
Misc	323	0	323	5	323	7	Misc	0	0	0.00
Sub Total ==>	1,739	129	1,868	30	1,339	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,009	16	0	0	**Ventilation Load**	0	-438	6.06
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	380		380	6	380	8	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-1,812	25.05
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,047	112	6,168	100.00	4,732	100.00	***Grand Total ==>***	-4,981	-7,231	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.6	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	263	263
Terminal	263	263
Main Fan	263	263
Sec Fan	0	0
Nom Vent	31	31
AHU Vent	31	31
Infil	4	4
MinStop/Rh	0	0
Return	267	267
Exhaust	35	35
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.7	11.7
cfm/ft²	0.70	0.70
cfm/ton	446.49	
ft²/ton	641.46	
Btu/hr·ft²	18.71	-27.19
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.6	7.0	5.2	263	76.6	61.2	70.6	55.0	51.2	60.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	31	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	378		
Part	0		
Int Door	1		
ExFlr	0		
Roof	378	0	0
Wall	231	95	41
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.5	263	62.8	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	31	-7.0	55.0
Total	-10.3			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU bedroom 3

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 — Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK Mo/Hr: 8 / 13 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	673	0	673	11	334	7	Roof Cond	-946	-946	13.46
Glass Solar	1,005	0	1,005	17	1,624	36	Glass Solar	0	0	0.00
Glass/Door Cond	570	0	570	9	308	7	Glass/Door Cond	-2,784	-2,784	39.61
Wall Cond	345	0	345	6	429	10	Wall Cond	-718	-718	10.22
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	136		136	2	48	1	Infiltration	-294	-294	4.18
Sub Total ==>	2,729	0	2,729	45	2,744	61	*Sub Total ==>*	-4,742	-4,742	67.48
Internal Loads							**Internal Loads**			
Lights	524	131	655	11	524	12	Lights	0	0	0.00
People	900	0	900	15	500	11	People	0	0	0.00
Misc	328	0	328	5	328	7	Misc	0	0	0.00
Sub Total ==>	1,752	131	1,883	31	1,352	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,020	17	0	0	**Ventilation Load**	0	-445	6.34
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	409		409	7	409	9	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-1,840	26.19
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,890	113	6,023	100.00	4,505	100.00	***Grand Total ==>***	-4,742	-7,027	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.7	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	250	250
Terminal	250	250
Main Fan	250	250
Sec Fan	0	0
Nom Vent	31	31
AHU Vent	31	31
Infil	4	4
MinStop/Rh	0	0
Return	255	255
Exhaust	35	35
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	12.5	12.5
cfm/ft²	0.65	0.65
cfm/ton	435.56	
ft²/ton	667.75	
Btu/hr·ft²	17.97	-25.90
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.6	6.9	5.1	250	76.7	61.3	71.0	55.0	51.1	59.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	31	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	6.9								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	384		
Part	0		
Int Door	1		
ExFlr	0		
Roof	384	0	0
Wall	231	85	37
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.1	250	62.7	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	31	-7.0	55.0
Total	-9.9			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU bedroom 4

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 — Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK Mo/Hr: 8 / 13 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	674	0	674	11	334	7	Roof Cond	-946	-946	13.29
Glass Solar	1,089	0	1,089	18	1,759	38	Glass Solar	0	0	0.00
Glass/Door Cond	602	0	602	10	325	7	Glass/Door Cond	-2,936	-2,936	41.22
Wall Cond	317	0	317	5	395	9	Wall Cond	-660	-660	9.27
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	136		136	2	48	1	Infiltration	-294	-294	4.13
Sub Total ==>	2,818	0	2,818	46	2,862	62	*Sub Total ==>*	-4,836	-4,836	67.91
Internal Loads							**Internal Loads**			
Lights	524	131	655	11	524	11	Lights	0	0	0.00
People	900	0	900	15	500	11	People	0	0	0.00
Misc	328	0	328	5	328	7	Misc	0	0	0.00
Sub Total ==>	1,752	131	1,883	31	1,352	29	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,022	17	0	0	**Ventilation Load**	0	-445	6.25
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	381		381	6	381	8	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-1,840	25.84
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,951	113	6,086	100.00	4,595	100.00	***Grand Total ==>***	-4,836	-7,122	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.7	68.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	255	255
Terminal	255	255
Main Fan	255	255
Sec Fan	0	0
Nom Vent	31	31
AHU Vent	31	31
Infil	4	4
MinStop/Rh	0	0
Return	255	255
Exhaust	35	35
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	12.3	12.3
cfm/ft²	0.67	0.67
cfm/ton	439.39	
ft²/ton	660.43	
Btu/hr·ft²	18.17	-26.28
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.6	6.9	5.1	255	76.7	61.3	70.9	55.0	51.2	59.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	31	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.0								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	384		
Part	0		
Int Door	1		
ExFlr	0		
Roof	384	0	0
Wall	224	90	40
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.3	255	62.7	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	31	-7.0	55.0
Total	-10.1			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU bedroom 5

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 — Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK Mo/Hr: 8 / 13 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	676	0	676	5	337	3	Roof Cond	-951	-951	6.72
Glass Solar	2,939	0	2,939	23	4,284	38	Glass Solar	0	0	0.00
Glass/Door Cond	1,896	0	1,896	15	1,027	9	Glass/Door Cond	-9,288	-9,288	65.64
Wall Cond	518	0	518	4	483	4	Wall Cond	-1,319	-1,319	9.32
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	147		147	1	49	0	Infiltration	-295	-295	2.09
Sub Total ==>	6,177	0	6,177	48	6,179	55	*Sub Total ==>*	-11,853	-11,853	83.76
Internal Loads							**Internal Loads**			
Lights	527	132	659	5	527	5	Lights	0	0	0.00
People	900	0	900	7	500	4	People	0	0	0.00
Misc	329	0	329	3	329	3	Misc	0	0	0.00
Sub Total ==>	1,756	132	1,888	15	1,356	12	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,108	9	0	0	**Ventilation Load**	0	-448	3.16
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	3,725		3,725	29	3,725	33	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-1,850	13.07
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	11,658	124	12,891	100.00	11,260	100.00	***Grand Total ==>***	-11,853	-14,150	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	626	626
Terminal	626	626
Main Fan	626	626
Sec Fan	0	0
Nom Vent	32	32
AHU Vent	32	32
Infil	4	4
MinStop/Rh	0	0
Return	630	630
Exhaust	36	36
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.0	5.0
cfm/ft²	1.62	1.62
cfm/ton	525.38	
ft²/ton	323.89	
Btu/hr·ft²	37.05	-54.58
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	1.2	14.3	11.9	626	75.1	59.6	64.9	55.0	50.9	58.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	32	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.2	14.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	386		
Part	0		
Int Door	1		
ExFlr	0		
Roof	386	0	0
Wall	552	285	52
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-19.2	626	64.1	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.9	32	-7.0	55.0
Total	-21.1			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C801 Unit O FCU den

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	998	0	998	6	984	7	Roof Cond	-1,198	-1,198	6.89
Glass Solar	3,599	0	3,599	23	3,961	29	Glass Solar	0	0	0.00
Glass/Door Cond	2,156	0	2,156	14	1,830	13	Glass/Door Cond	-11,303	-11,303	65.08
Wall Cond	655	0	655	4	679	5	Wall Cond	-1,604	-1,604	9.23
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	145		145	1	61	0	Infiltration	-372	-372	2.14
Sub Total ==>	7,554	0	7,554	49	7,516	55	*Sub Total ==>*	-14,477	-14,477	83.35
Internal Loads							**Internal Loads**			
Lights	663	166	829	5	663	5	Lights	0	0	0.00
People	900	0	900	6	500	4	People	0	0	0.00
Misc	415	0	415	3	415	3	Misc	0	0	0.00
Sub Total ==>	1,978	166	2,144	14	1,578	11	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,132	7	0	0	**Ventilation Load**	0	-564	3.24
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	4,659		4,659	30	4,659	34	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-2,329	13.41
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	14,191	156	15,479	100.00	13,753	100.00	***Grand Total ==>***	-14,477	-17,369	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	765	765
Terminal	765	765
Main Fan	765	765
Sec Fan	0	0
Nom Vent	40	40
AHU Vent	40	40
Infil	5	5
MinStop/Rh	0	0
Return	770	770
Exhaust	45	45
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.2	5.2
cfm/ft²	1.57	1.57
cfm/ton	535.20	
ft²/ton	340.12	
Btu/hr·ft²	35.28	-53.15
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	1.4	17.1	14.5	765	75.1	59.3	63.7	55.0	50.7	58.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	40	93.2	70.2	93.8	92.0	69.9	93.8
Total	1.4	17.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	486		
Part	0		
Int Door	1		
ExFlr	0		
Roof	486	0	0
Wall	672	347	52
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-23.5	765	64.0	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.3	40	-7.0	55.0
Total	-25.8			

Project Name:
Dataset Name: SOMMET220519.TRC

TRACE® 700 v6.3.5 calculated at 10:20 AM on 05/19/2022
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Zone Checksums
By WSP USA INC.

C801 Unit O FCU Living Room

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 17 — Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK Mo/Hr: 7 / 18 — OADB: 87
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	4,423	0	4,423	9	3,487	8	Roof Cond	-5,312	-5,312	9.13
Glass Solar	14,016	0	14,016	29	18,698	43	Glass Solar	0	0	0.00
Glass/Door Cond	6,072	0	6,072	12	4,295	10	Glass/Door Cond	-31,975	-31,975	54.92
Wall Cond	3,025	0	3,025	6	3,051	7	Wall Cond	-5,216	-5,216	8.96
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-23		-23	0	-12.69	0	Floor	-1,151	-1,151	1.98
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	632		632	1	195	0	Infiltration	-1,650	-1,650	2.83
Sub Total ==>	28,146	0	28,146	58	29,713	69	*Sub Total ==>*	-45,304	-45,304	77.82
Internal Loads							**Internal Loads**			
Lights	2,943	736	3,679	8	2,943	7	Lights	0	0	0.00
People	3,600	0	3,600	7	2,000	5	People	0	0	0.00
Misc	1,840	0	1,840	4	1,840	4	Misc	0	0	0.00
Sub Total ==>	8,383	736	9,119	19	6,783	16	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	4,918	10	0	0	**Ventilation Load**	0	-2,500	4.29
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-80	-80	0.14
Ov/Undr Sizing	6,619		6,619	14	6,619	15	**Exhaust Heat**		0	0.00
Exhaust Heat		-60	-60	0			**OA Preheat Diff.**		-10,333	17.75
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	43,148	675	48,741	100.00	43,115	100.00	***Grand Total ==>***	-45,384	-58,217	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.5	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	2,397	2,397
Terminal	2,397	2,397
Main Fan	2,397	2,397
Sec Fan	0	0
Nom Vent	176	176
AHU Vent	176	176
Infil	23	23
MinStop/Rh	0	0
Return	2,420	2,420
Exhaust	199	199
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.3	7.3
cfm/ft²	1.11	1.11
cfm/ton	520.62	
ft²/ton	468.19	
Btu/hr·ft²	25.63	-39.50
No. People	8	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	4.6	55.1	44.6	2,397	75.5	59.7	65.1	55.0	51.0	59.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.2	0.2	176	93.2	70.2	93.8	92.0	69.9	93.8
Total	4.6	55.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	2,156		
Part	0		
Int Door	1		
ExFlr	293		
Roof	2,156	0	0
Wall	2,039	980	48
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-74.8	2,397	63.6	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-10.3	176	-7.0	55.0
Total	-85.2			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

A22 unit P FCU bedroom 1

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 12 — Outside Air: OADB/WB/HR: 86 / 65 / 74
CLG SPACE PEAK Mo/Hr: 7 / 11 — OADB: 81
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,112	0	1,112	30	1,262	41	Glass Solar	0	0	0.00
Glass/Door Cond	134	0	134	4	60	2	Glass/Door Cond	-1,305	-1,305	33.64
Wall Cond	691	0	691	19	692	23	Wall Cond	-1,193	-1,193	30.74
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	25		25	1	14	0	Infiltration	-157	-157	4.06
Sub Total ==>	1,963	0	1,963	54	2,029	66	*Sub Total ==>*	-2,655	-2,655	68.44
Internal Loads							**Internal Loads**			
Lights	328	82	410	11	328	11	Lights	0	0	0.00
People	900	0	900	25	500	16	People	0	0	0.00
Misc	205	0	205	6	205	7	Misc	0	0	0.00
Sub Total ==>	1,432	82	1,514	41	1,032	34	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	196	5	0	0	**Ventilation Load**	0	-239	6.15
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-7	-7	0			**OA Preheat Diff.**		-986	25.41
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,395	75	3,665	100.00	3,061	100.00	***Grand Total ==>***	-2,655	-3,879	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.7	83.3
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.3	68.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	212	212
Terminal	212	212
Main Fan	212	212
Sec Fan	0	0
Nom Vent	17	17
AHU Vent	17	17
Infil	2	2
MinStop/Rh	0	0
Return	214	214
Exhaust	19	19
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	7.9	7.9
cfm/ft²	0.88	0.88
cfm/ton	602.13	
ft²/ton	683.22	
Btu/hr·ft²	17.56	-22.94
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.4	4.2	3.3	212	75.3	61.5	73.9	58.7	54.3	67.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	17	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.4	4.2								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	240		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	282	40	14
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.5	212	65.2	83.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.0	17	-7.0	55.0
Total	-5.5			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

A22 unit P FCU bedroom 2

COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 13 — Outside Air: OADB/WB/HR: 90 / 68 / 84
CLG SPACE PEAK Mo/Hr: 7 / 12 — OADB: 86
HEATING COIL PEAK Mo/Hr: Heating Design — OADB: -7

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	912	0	912	29	1,079	41	Glass Solar	0	0	0.00
Glass/Door Cond	195	0	195	6	135	5	Glass/Door Cond	-1,305	-1,305	38.85
Wall Cond	621	0	621	20	592	23	Wall Cond	-1,311	-1,311	39.03
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	24		24	1	13	1	Infiltration	-85	-85	2.52
Sub Total ==>	1,752	0	1,752	55	1,818	70	*Sub Total ==>*	-2,700	-2,700	80.40
Internal Loads							**Internal Loads**			
Lights	176	44	220	7	176	7	Lights	0	0	0.00
People	900	0	900	28	500	19	People	0	0	0.00
Misc	110	0	110	3	110	4	Misc	0	0	0.00
Sub Total ==>	1,186	44	1,230	39	786	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	189	6	0	0	**Ventilation Load**	0	-128	3.82
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-3	-3	0			**OA Preheat Diff.**		-530	15.78
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	2,938	41	3,169	100.00	2,604	100.00	***Grand Total ==>***	-2,700	-3,358	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.4	87.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	166	166
Terminal	166	166
Main Fan	166	166
Sec Fan	0	0
Nom Vent	9	9
AHU Vent	9	9
Infil	1	1
MinStop/Rh	0	0
Return	167	167
Exhaust	10	10
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	5.5	5.5
cfm/ft²	1.28	1.28
cfm/ton	545.60	
ft²/ton	424.80	
Btu/hr·ft²	28.25	-38.37
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter °F	Enter gr/lb	Leave DB/WB/HR °F	Leave °F	Leave gr/lb
Main Clg	0.3	3.6	2.7	166	75.1	61.5	74.4	57.4	53.5	65.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	9	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.3	3.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	129		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	306	40	13
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.4	166	64.7	87.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-0.5	9	-7.0	55.0
Total	-5.0			

Project Name:
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PROFESSIONAL ENGINEER
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STATE OF UTAH

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checked by Checker
job no.
date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.13

RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

A22 unit P FCU living room 1

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 15				Mo/Hr: 7 / 16			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 93 / 70 / 94				OADB: 92			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,286	0	1,286	14	1,328	21	Glass Solar	0	0	0.00
Glass/Door Cond	1,169	0	1,169	13	1,175	18	Glass/Door Cond	-5,652	-5,652	43.19
Wall Cond	983	0	983	11	1,007	16	Wall Cond	-2,754	-2,754	21.04
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	220		220	2	126	2	Infiltration	-533	-533	4.08
Sub Total ==>	3,658	0	3,658	40	3,636	56	*Sub Total ==>*	-8,938	-8,938	68.30
Internal Loads							**Internal Loads**			
Lights	1,110	277	1,387	15	1,110	17	Lights	0	0	0.00
People	1,800	0	1,800	20	1,000	16	People	0	0	0.00
Misc	694	0	694	8	694	11	Misc	0	0	0.00
Sub Total ==>	3,604	277	3,881	42	2,804	44	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,709	19	0	0	**Ventilation Load**	0	-808	6.17
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-44	-44	0			**OA Preheat Diff.**		-3,340	25.52
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	7,262	233	9,204	100.00	6,440	100.00	***Grand Total ==>***	-8,938	-13,086	100.00

TEMPERATURES

	Cooling	Heating
SADB	56.9	93.7
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.4	67.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	398	398
Terminal	398	398
Main Fan	398	398
Sec Fan	0	0
Nom Vent	57	57
AHU Vent	57	57
Infil	7	7
MinStop/Rh	0	0
Return	405	405
Exhaust	64	64
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	14.3	14.3
cfm/ft²	0.49	0.49
cfm/ton	450.98	
ft²/ton	921.75	
Btu/hr·ft²	13.02	-22.84
No. People	4	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.9	10.6	7.6	398	77.4	62.7	76.7	56.9	53.1	64.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	57	83.3	65.4	82.1	83.3	65.4	82.1
Total	0.9	10.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	813		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	732	173	24
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-15.2	398	61.4	93.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-3.3	57	-7.0	55.0
Total	-18.6			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

B21 Unit Q FCU Bedroom

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 18				Mo/Hr: 7 / 19			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 87 / 65 / 76				OADB: 83			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	1,309	0	1,309	31	1,504	44	Glass Solar	0	0	0.00
Glass/Door Cond	432	0	432	10	332	10	Glass/Door Cond	-2,610	-2,610	52.81
Wall Cond	304	0	304	7	298	9	Wall Cond	-375	-375	7.58
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	40		40	1	25	1	Infiltration	-223	-223	4.51
Sub Total ==>	2,086	0	2,086	50	2,159	63	*Sub Total ==>*	-3,207	-3,207	64.90
Internal Loads							**Internal Loads**			
Lights	464	116	580	14	464	14	Lights	0	0	0.00
People	900	0	900	22	500	15	People	0	0	0.00
Misc	290	0	290	7	290	9	Misc	0	0	0.00
Sub Total ==>	1,654	116	1,770	43	1,254	37	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	313	8	0	0	**Ventilation Load**	0	-338	6.84
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-13	-13	0			**OA Preheat Diff.**		-1,397	28.26
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,740	103	4,157	100.00	3,413	100.00	***Grand Total ==>***	-3,207	-4,942	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.0	84.1
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	75.7	68.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	241	241
Terminal	241	241
Main Fan	241	241
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	3	3
MinStop/Rh	0	0
Return	244	244
Exhaust	27	27
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	9.9	9.9
cfm/ft²	0.71	0.71
cfm/ton	601.03	
ft²/ton	848.68	
Btu/hr·ft²	14.14	-20.40
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.4	4.8	3.7	241	75.7	61.6	74.1	59.0	54.5	67.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	24	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.8								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	340		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	156	80	51
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.5	241	64.6	84.1
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	24	-7.0	55.0
Total	-6.9			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

B21 Unit Q FCU Living Room

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	694	0	694	14	909	25	Glass Solar	0	0	0.00
Glass/Door Cond	759	0	759	16	646	17	Glass/Door Cond	-3,915	-3,915	55.37
Wall Cond	581	0	581	12	609	16	Wall Cond	-1,198	-1,198	16.94
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	67		67	1	36	1	Infiltration	-223	-223	3.15
Sub Total ==>	2,101	0	2,101	44	2,201	59	*Sub Total ==>*	-5,335	-5,335	75.46
Internal Loads							**Internal Loads**			
Lights	464	116	580	12	464	13	Lights	0	0	0.00
People	1,350	0	1,350	28	750	20	People	0	0	0.00
Misc	290	0	290	6	290	8	Misc	0	0	0.00
Sub Total ==>	2,104	116	2,220	46	1,504	41	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	518	11	0	0	**Ventilation Load**	0	-338	4.78
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-13	-13	0			**OA Preheat Diff.**		-1,397	19.76
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,205	103	4,825	100.00	3,705	100.00	***Grand Total ==>***	-5,335	-7,070	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.1	94.4
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.1	68.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	231	231
Terminal	231	231
Main Fan	231	231
Sec Fan	0	0
Nom Vent	24	24
AHU Vent	24	24
Infil	3	3
MinStop/Rh	0	0
Return	234	234
Exhaust	27	27
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.3	10.3
cfm/ft²	0.68	0.68
cfm/ton	497.61	
ft²/ton	731.72	
Btu/hr·ft²	16.40	-30.18
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.5	5.6	4.1	231	76.1	61.9	75.0	57.1	53.2	65.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	24	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.6								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	340		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	363	120	33
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.9	231	62.0	94.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.4	24	-7.0	55.0
Total	-10.3			

Project Name:
Dataset Name: SOMMET220519.TRC

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Zone Checksums
By WSP USA INC.

C25 Unit R FCU Bedroom

	COOLING COIL PEAK				CLG SPACE PEAK			HEATING COIL PEAK		
Peaked at Time:	Mo/Hr: 7 / 17				Mo/Hr: 7 / 18			Mo/Hr: Heating Design		
Outside Air:	OADB/WB/HR: 90 / 68 / 85				OADB: 87			OADB: -7		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads							**Envelope Loads**			
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00
Glass Solar	822	0	822	12	1,030	19	Glass Solar	0	0	0.00
Glass/Door Cond	275	0	275	4	234	4	Glass/Door Cond	-1,435	-1,435	17.80
Wall Cond	1,224	0	1,224	18	1,343	25	Wall Cond	-3,095	-3,095	38.38
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-14		-14	0	-3.90	0	Floor	-774	-774	9.59
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	106		106	2	42	1	Infiltration	-315	-315	3.90
Sub Total ==>	2,412	0	2,412	35	2,645	50	*Sub Total ==>*	-5,618	-5,618	69.67
Internal Loads							**Internal Loads**			
Lights	561	140	701	10	561	11	Lights	0	0	0.00
People	1,800	0	1,800	26	1,000	19	People	0	0	0.00
Misc	351	0	351	5	351	7	Misc	0	0	0.00
Sub Total ==>	2,712	140	2,852	42	1,912	36	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	822	12	0	0	**Ventilation Load**	0	-477	5.91
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	781		781	11	781	15	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-1,970	24.42
Sup. Fan Heat			0	0			**RA Preheat Diff.**		0	0.00
Ret. Fan Heat		0	0	0			**Additional Reheat**		0	0.00
Duct Heat Pkup		0	0	0			**System Plenum Heat**		0	0.00
Underflr Sup Ht Pkup			0	0			**Underflr Sup Ht Pkup**		0	0.00
Supply Air Leakage		0	0	0			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,905	123	6,849	100.00	5,337	100.00	***Grand Total ==>***	-5,618	-8,065	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.3	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	297	297
Terminal	297	297
Main Fan	297	297
Sec Fan	0	0
Nom Vent	34	34
AHU Vent	34	34
Infil	4	4
MinStop/Rh	0	0
Return	301	301
Exhaust	38	38
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.3	11.3
cfm/ft²	0.72	0.72
cfm/ton	456.72	
ft²/ton	632.49	
Btu/hr·ft²	18.97	-27.96
No. People	4	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.7	7.8	5.7	297	76.3	61.2	71.1	55.0	51.5	61.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	34	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	7.8								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	411		
Part	0		
Int Door	1		
ExFlr	197		
Roof	0	0	0
Wall	672	44	7
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.5	297	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.0	34	-7.0	55.0
Total	-11.5			

Project Name:
Dataset Name: SOMMET220519.TRC

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No. 12196777-2202
MATTHEW WILLIAM LONGSINE

Reserved for permit stamp

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principal architect ____________
project manager ____________
drawn by ____________
____
checked by Checker
job no.
date 5/17/2024

revisions:

no.	date	by

IFC Set 2 of 3
5/17/2024

HVAC LOAD
CALCULATION

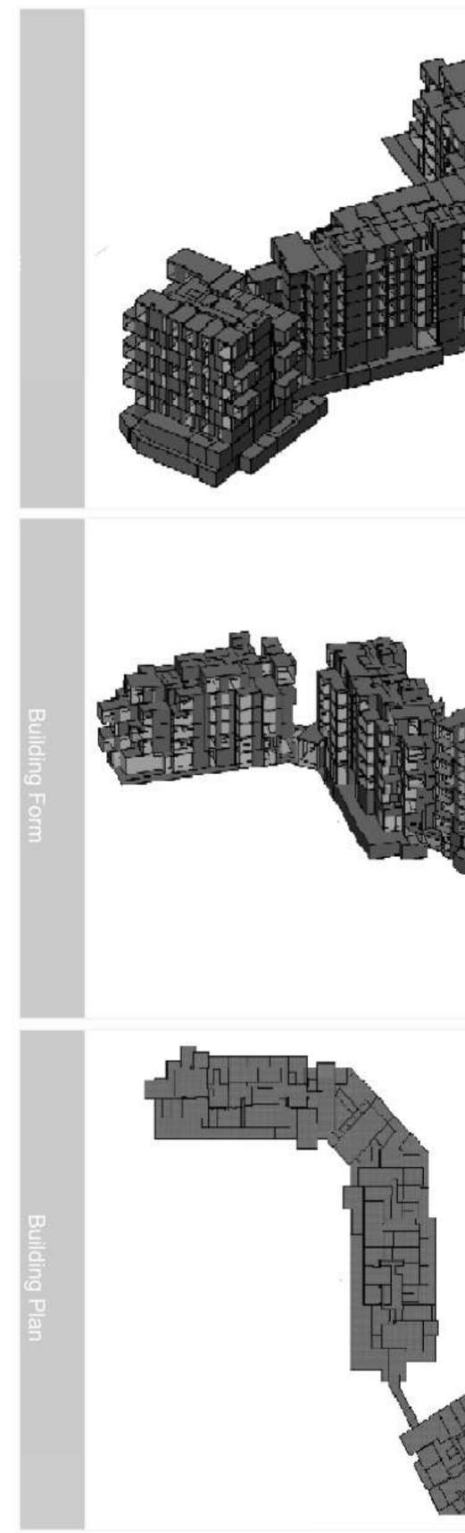
M0.14

sommet ABC 20220518_2.mit

General info · Space summary · Advisory messages · Proposed vs baseline · Energy type summary · On site renewables · Exceptional calc measure · Report

INTEGRATED ENVIRONMENTAL SOLUTIONS LTD — IES

1.1 General information



Responsible individual:

Company name:

Simulation program:

Virtual Environment version 2021

Energy Code:

ASHRAE 90.1 - 2016 Appendix G

Model data:

Project file	sommet ABC 20220518_2.mit
Model floor area[1]	333847.53 ft2
Building floor area[2]	278208.75 ft2
Building volume[3]	3519347.00 ft3
Number of conditioned spaces	613
No of floors	25

Heating calculation data:

Principal heating source: Electricity
Results file
Calculated

Cooling calculation data:

Principal cooling source: Electricity
Results file
Calculated

Design weather:

Source: ASHRAE design weather database
Weather location: Evanston-Uinta County Burns , Wyoming
Weather file: USA_WY_Evanston-Uinta.County.AP-Burns.Field.725775_TMY3

Climate zone:

ASHRAE 90.1: 6A
Koeppen-Geiger: Dfb

Construction:

New construction %: 100
Existing construction %: 0

This report produces output in accordance with LEED v4 BD+C New construction - option 1: Whole-building energy simulation

The Virtual Environment software has a the capabilities described in G2 Simulation General Requirements in Appendix G of ASHRAE 90.1 - 2016

The baseline building and proposed building in this project's energy simulation runs use the assumptions ar modelling methodology described in Appendix G of ASHRAE 90.1 - 2016

The report outputs that sequence with the following 90.1 sections:

1.1 - General info
1.2 - Space Summary
1.3 - Advisory messages
1.4 - Comparison of proposed design versus baseline design energy model inputs
1.5 - Energy type summary
1.6 - On site renewable energy (if applicable)
1.7 - Exceptional calculation measure summary (if applicable)
1.8 - Performance rating method compliance report

1. 'Model floor area' is the total floor are of all spaces in the building regardless whether they are conditioned

2. 'Building floor area' is the total area c all spaces for which 'Include in building floor area' is ticked in 'Space Data' (use for loads metrics in this report)

3. 'Building volume' is the total volume c all spaces for which 'Include in building floor area' is ticked in 'Space Data'

1.2 - Space Summary

Table 1.2 Space Summary

Building Use (Occupancy type)	Conditioned Area ft²	Un-conditioned Area ft²	Total Area ft²	BPF (Table 4.2.1.1)
A-Z	Hi/Lo	Hi/Lo	Hi/Lo	Hi/Lo
BLDG: Multifamily	179,143	0	179143	0.56
SPACE: Conference/ Meeting/ Multipurpose	604	0	604	0.56
SPACE: Corridor - All Other Corridors	22,123	0	22123	0.56
SPACE: Dining area - Family dining	2,656	0	2656	0.56
SPACE: Electrical/ Mechanical	9,911	0	9911	0.56
SPACE: Elevators - Equipment	357	0	357	0.56
SPACE: Food preparation	1,192	0	1192	0.56
SPACE: Gymnasium/ Fitness center - Exercise area	3,989	0	3989	0.56
SPACE: Lobby	3,155	0	3155	0.56
SPACE: Lobby - Elevator	938	0	938	0.56
SPACE: Locker room	2,738	0	2738	0.56
SPACE: Lounge/ Breakroom	16,175	0	16175	0.56
SPACE: Office - Enclosed	326	0	326	0.56
SPACE: Parking area - Interior	55,639	0	55639	0.56
SPACE: Restrooms	2,199	0	2199	0.56
SPACE: Stairwell	16,255	0	16255	0.56
SPACE: Storage - >=50ft2	16,449	0	16449	0.56
SPACE: Void/Plenum	0	11,684	11684	0.56
Totals	333,847.9	11,683.6	345,531.5	0.56

1.3 - Advisory Messages

Table 1.3 - Advisory messages

Advisory Messages	Proposed Building	Baseline Building	Difference
Number of hours heating loads not met:	116.0	178.000000	62.0
Number of hours cooling loads not met:	0.0	47.000000	47.0
Number of warning messages:	0	0	0.0
Number of error messages:	0	0	0.0
Number of defaults overridden	0	0	0.0

Spaces Excluded from UMLH Test per space type or application:
(voids, plenums, unconditioned spaces, and non-master rooms in an HVAC zone are always excluded)

Spaces Excluded from UMLH Test per inclusion in ASHRAE 55 Thermal Comfort Analysis:

1.4 - Comparison of Proposed versus Baseline Design

Table 1.4 - Proposed vs Baseline Const.

Model Input parameter Construction	Proposed Description	Proposed Input U value / % (area weighted)	Baseline Description	Baseline Input U value / % (area weighted)
Exterior wall construction	Proposed Wall U-0.067	0.07	ASHRAE ExternalWall: Below Ground C=0.119	0.02
Exterior wall construction	Proposed BGW U-0.119	0.12	PRM CZ6 Ext Wall (Non-Res) - Steel Framed; R-13+R3.8ci; U=0.084	0.08
Roof construction	proposed U-0.032	0.03	PRM CZ6 Roof (Non-Res & Res) - Ins Above Deck; R-15 (2.6); U=0.063 (0.360)	0.06
Floor/slab construction	Proposed Exposed Floor U-0.032	0.03	CZ7 Floor (Res) - Steel Joist; R-38.0; U=0.032 (0.183)	0.03
Floor/slab construction	Ground contact floor: U=F(0.54)*Floor perim.(2172ft)/Floor area(52172ft²) U-0.022	0.02	Ground contact floor: U=F(0.54)*Floor perim.(2172ft)/Floor area(52172ft²) U-0.022	0.02
Window to gross wall ratio	Overall	31%	Overall	31%
Window to gross wall ratio	North / South / East / West	26 / 33 / 22 / 42%	North / South / East / West	26 / 33 / 22 / 42%
Fenestration U-Value (North)	proposed glazing operable U-0.43 SHGC-0.27	0.43	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.30
Fenestration U-Value (non - North)	proposed glazing operable U-0.43 SHGC-0.27	0.43	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.30
Fenestration SHGC - North	proposed glazing operable U-0.43 SHGC-0.27	0.23	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.40
Fenestration SHGC - non - North	proposed glazing operable U-0.43 SHGC-0.27	0.23	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.40
Fenestration visual light transmittance (N)	proposed glazing operable U-0.43 SHGC-0.27	0.44	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.44
Fenestration visual light transmittance	proposed glazing operable U-0.43 SHGC-0.27	0.44	ASHRAE 90.1-2016; CZ6 Window (Non-Res) - Nonmetal framing (all); U=0.30; SHGC=0.40; VT=0.44	0.44
Shading devices				

Table 1.4 - Proposed vs Baseline MEP

Model Input parameter MEP	Proposed Description	Proposed Input (area weighted)	Baseline Description	Baseline Input (area weighted)
Other Lighting Controls				
Interior lighting power density	Total power density (Btu/h•ft²)	1.89	Total power density (Btu/h•ft²)	1.98
Day lighting controls	Radiance simulation	Yes	Radiance simulation	Yes
Exterior lighting power	Total power consumption (kBtu/h)	8.16	Total power consumption (kBtu/h)	15.37
Process lighting	Total power density (Btu/h•ft²)	0.00	Total power density (Btu/h•ft²)	0.00
Receptacle equipment	Total power density (Btu/h•ft²)	1.08	Total power density (Btu/h•ft²)	1.08
Elevators/escalators	Total power consumption (kBtu/h)	27.04	Total power consumption (kBtu/h)	27.04
Refridgeration equipment	Total power density (Btu/h•ft²)	0.00	Total power density (Btu/h•ft²)	0.00
Cooking equipment	Total power density (Btu/h•ft²)	0.00	Total power density (Btu/h•ft²)	0.00
Data processing/centre equipment	Total power density (Btu/h•ft²)	0.00	Total power density (Btu/h•ft²)	0.00

1.8.1 Baseline Performance

(Electricity usage values account for user defined transformer losses.)

☑ As per G3.1.3.18, include only 25% of the system reheat energy in the baseline building performance

Table 1.8.1 - Baseline Performance - PRM

End Use	Process	Baseline Design Energy Type	Units of Annual Energy & peak demand	Baseline 0 rotation	Baseline 90 rotation	Baseline 180 rotation	Baseline 270 rotation	Baseline Solution
Regulated Energy								
Interior Lighting	No	Electricity	Energy use kBtu	2,156,336.75	0.00	0.00	0.00	2,156,336.75
Interior Lighting Demand	No	Electricity	Demand MBH	548.90	0.00	0.00	0.00	548.90
Exterior Lighting	No	Electricity	Energy use kBtu	87,486.07	0.00	0.00	0.00	87,486.07
Exterior Lighting Demand	No	Electricity	Demand MBH	15.37	0.00	0.00	0.00	15.37
Space Heating (Fossil Fuel)	No	Gas	Energy use kBtu	7,702,074.50	0.00	0.00	0.00	7,702,074.50
Space Heating (Fossil Fuel) Demand	No	Gas	Demand MBH	5,671.73	0.00	0.00	0.00	5,671.73
Space Heating	No	Electricity	Energy use kBtu	2,787,121.50	0.00	0.00	0.00	2,787,121.50
Space Heating Demand	No	Electricity	Demand MBH	906.70	0.00	0.00	0.00	906.70
Space Cooling	No	Electricity	Energy use kBtu	1,592,663.50	0.00	0.00	0.00	1,592,663.50
Space Cooling Demand	No	Electricity	Demand MBH	932.10	0.00	0.00	0.00	932.10
Fans (Interior)	No	Electricity	Energy use kBtu	4,168,178.50	0.00	0.00	0.00	4,168,178.50
Fans (Interior) Demand	No	Electricity	Demand MBH	603.95	0.00	0.00	0.00	603.95
Fans (Parking)	No	Electricity	Energy use kBtu	50,504.57	0.00	0.00	0.00	50,504.57
Fans (Parking) Demand	No	Electricity	Demand MBH	5.77	0.00	0.00	0.00	5.77
Pumps	No	Electricity	Energy use kBtu	23,778.12	0.00	0.00	0.00	23,778.12
Pumps Demand	No	Electricity	Demand MBH	10.53	0.00	0.00	0.00	10.53
Heat Rejection	No	Electricity	Energy use kBtu	101,659.37	0.00	0.00	0.00	101,659.37
Heat Rejection Demand	No	Electricity	Demand MBH	59.50	0.00	0.00	0.00	59.50
Service Water Heating (Fossil Fuel)	No	Gas	Energy use kBtu	2,068,444.13	0.00	0.00	0.00	2,068,444.13
Service Water Heating (Fossil Fuel) Demand	No	Gas	Demand MBH	236.12	0.00	0.00	0.00	236.12
Service Water Heating	No	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Service Water Heating Demand	No	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Refrigeration	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Refrigeration Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Elevators & Escalators	Yes	Electricity	Energy use kBtu	236,881.09	0.00	0.00	0.00	236,881.09
Elevators & Escalators Demand	Yes	Electricity	Demand MBH	27.04	0.00	0.00	0.00	27.04
Motors	No	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Motors Demand	No	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Combined Heat and Power (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Combined Heat and Power (Fossil Fuel) Demand	No	Gas	Demand MBH	0.00	0.00	0.00	0.00	0.00
Humidification (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Humidification (Fossil Fuel) Demand	No	Gas	Demand MBH	0.00	0.00	0.00	0.00	0.00
Humidification	No	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Humidification Demand	No	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Total Gas Energy kBtu/year				9,770,518.63	0.00	0.00	0.00	9,770,518.63
Total Electrical Energy kBtu/year				11,204,609.47	0.00	0.00	0.00	11,204,609.47
Total Annual Regulated Energy Use kBtu/year				20,975,128.10	0.00	0.00	0.00	20,975,128.10
Unregulated Energy								
Office Equipment	Yes	Electricity	Energy use kBtu	1,852,689.50	0.00	0.00	0.00	1,852,689.50
Office Equipment Demand	Yes	Electricity	Demand MBH	297.54	0.00	0.00	0.00	297.54
Other Computers/Servers	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Other Computers/Servers Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Cooking (Fossil Fuel)	Yes	Gas	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Cooking (Fossil Fuel) Demand	Yes	Gas	Demand MBH	0.00	0.00	0.00	0.00	0.00
Cooking	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Cooking Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Interior Lighting (Process)	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Interior Lighting (Process) Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Fans (Process)	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Fans (Process) Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Other Processes (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Other Processes (Fossil Fuel) Demand	No	Gas	Demand MBH	0.00	0.00	0.00	0.00	0.00
Other Processes	Yes	Electricity	Energy use kBtu	0.00	0.00	0.00	0.00	0.00
Other Processes Demand	Yes	Electricity	Demand MBH	0.00	0.00	0.00	0.00	0.00
Total Gas Energy kBtu/year				0.00	0.00	0.00	0.00	0.00
Total Electrical Energy kBtu/year				1,852,689.50	0.00	0.00	0.00	1,852,689.50
Total Annual Unregulated Energy Use kBtu/year				1,852,689.50	0.00	0.00	0.00	1,852,689.50
Total Energy kBtu/year				22,827,817.60	0.00	0.00	0.00	22,827,817.60

1.8.1 (b) Baseline Energy Costs

(Electricity costs account for user defined transformer losses.)

Table 1.8.1 (b) - Baseline Energy Costs

Energy Type	Baseline 0 rotation ($)	Baseline 90 rotation ($)	Baseline 180 rotation ($)	Baseline 270 rotation ($)	Baseline Building Performance ($)
Electricity	316,469.53	0.00	0.00	0.00	316,469.53
Gas	73,003.22	0.00	0.00	0.00	73,003.22
Oil	0.00	0.00	0.00	0.00	0.00
Coal	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
Total Baseline Costs:	389,472.75	0.00	0.00	0.00	**389,472.75**

1.8.2 Performance Rating Table - PRM Compliance

(Electricity usage values account for user defined transformer losses.)

Table 1.8.2 - Performance Rating

End Use	Process	Proposed Design Energy Type	Proposed Design Units	Proposed Building Results	Baseline Design Units	Baseline Building Results	Percent Savings %
Regulated Energy							
Interior Lighting	No	Electricity	Energy use kBtu	2,102,779.00	Energy use kBtu	2,156,336.75	2.5
Interior Lighting	No	Electricity	Demand MBH	545.34	Demand MBH	548.90	0.6
Exterior Lighting	No	Electricity	Energy use kBtu	46,433.70	Energy use kBtu	87,486.07	46.9
Exterior Lighting	No	Electricity	Demand MBH	8.16	Demand MBH	15.37	46.9
Space Heating (Fossil Fuel)	No	Gas	Energy use kBtu	6,013,890.00	Energy use kBtu	7,702,074.50	21.9
Space Heating (Fossil Fuel)	No	Gas	Demand MBH	3,393.69	Demand MBH	5,671.73	40.2
Space Heating	No	Electricity	Energy use kBtu	4,580,906.50	Energy use kBtu	2,787,121.50	-64.4
Space Heating	No	Electricity	Demand MBH	2,907.01	Demand MBH	906.70	-220.6
Space Cooling	No	Electricity	Energy use kBtu	980,955.88	Energy use kBtu	1,592,663.50	45.0
Space Cooling	No	Electricity	Demand MBH	735.95	Demand MBH	932.10	21.1
Fans (Interior)	No	Electricity	Energy use kBtu	1,006,699.38	Energy use kBtu	4,168,178.50	75.8
Fans (Interior)	No	Electricity	Demand MBH	320.26	Demand MBH	603.95	46.8
Fans (Parking)	No	Electricity	Energy use kBtu	50,506.39	Energy use kBtu	50,504.57	0.0
Fans (Parking)	No	Electricity	Demand MBH	5.77	Demand MBH	5.77	0.0
Pumps	No	Electricity	Energy use kBtu	102,801.48	Energy use kBtu	23,778.12	-335.6
Pumps	No	Electricity	Demand MBH	30.57	Demand MBH	10.53	-196.9
Heat Rejection	No	Electricity	Energy use kBtu	88,917.47	Energy use kBtu	101,659.37	21.8
Heat Rejection	No	Electricity	Demand MBH	65.01	Demand MBH	59.50	-9.2
Service Water Heating (Fossil Fuel)	No	Gas	Energy use kBtu	2,068,444.13	Energy use kBtu	2,068,444.13	0.0
Service Water Heating (Fossil Fuel)	No	Gas	Demand MBH	236.12	Demand MBH	236.12	0.0
Service Water Heating	No	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Service Water Heating	No	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Refrigeration	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Refrigeration	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Elevators & Escalators	Yes	Electricity	Energy use kBtu	236,881.09	Energy use kBtu	236,881.09	0.0
Elevators & Escalators	Yes	Electricity	Demand MBH	27.04	Demand MBH	27.04	0.0
Motors	No	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Motors	No	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Combined Heat and Power (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Combined Heat and Power (Fossil Fuel)	No	Gas	Demand MBH	0.00	Demand MBH	0.00	0.0
Humidification (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Humidification (Fossil Fuel)	No	Gas	Demand MBH	0.00	Demand MBH	0.00	0.0
Humidification	No	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Humidification	No	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Total Gas Energy kBtu/year				19,131,904.52		9,770,518.63	17.28
Total Electrical Energy Use kBtu/year				19,131,904.52		11,204,609.47	18.94
Total Annual Regulated Energy Use kBtu/year				19,131,904.52		20,975,128.10	18.17
Unregulated Energy							
Office Equipment	Yes	Electricity	Energy use kBtu	1,852,689.50	Energy use kBtu	1,852,689.50	0.0
Office Equipment	Yes	Electricity	Demand MBH	297.54	Demand MBH	297.54	0.0
Other Computers/Servers	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Other Computers/Servers	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Cooking (Fossil Fuel)	Yes	Gas	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Cooking (Fossil Fuel)	Yes	Gas	Demand MBH	0.00	Demand MBH	0.00	0.0
Cooking	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Cooking	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Interior Lighting (Process)	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Interior Lighting (Process)	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Fans (Process)	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Fans (Process)	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Other Processes (Fossil Fuel)	No	Gas	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Other Processes (Fossil Fuel)	No	Gas	Demand MBH	0.00	Demand MBH	0.00	0.0
Other Processes	Yes	Electricity	Energy use kBtu	0.00	Energy use kBtu	0.00	0.0
Other Processes	Yes	Electricity	Demand MBH	0.00	Demand MBH	0.00	0.0
Total Gas Energy Use kBtu/year				19,131,904.52		0.00	0.00
Total Electrical Energy Use kBtu/year				19,131,904.52		1,852,689.50	0.00
Total Annual Unregulated Energy Use kBtu/year				19,131,904.52		1,852,689.50	0.00
Total Energy kBtu/year				19,131,904.52		22,827,817.60	16.69

1.8.2 (b) Energy Cost & Consumption by energy Type - PRM Compliance

(Electricity costs account for user defined transformer losses.)

Table 1.8.2 (b) - Energy Cost

Energy Type	Units	Proposed Design Energy Use	Proposed Design Cost ($)	Baseline Design Energy Use	Baseline Design Cost ($)	Performance Cost Index (PCI)
Electricity	kBtu	11,049,570.39	267,808.24	13,057,298.96	316,469.53	0.84
Gas	kBtu	8,082,334.13	60,389.45	9,770,518.63	73,003.22	0.83
Subtotal (Model Outputs):		19,131,904.52	328,197.69	22,827,817.59	389,472.75	0.84

On site Renewable Energy	Energy Generated (kBtu)	Renewable Energy Cost ($)	Narrative
Photovoltaic Panels	0.00	0.00	Generated from source
Wind Power	0.00	0.00	Generated from source
Solar Water Heating	0.00	0.00	Generated from source

Exceptional Calculations	Energy Savings	Cost Savings	Narrative

Summary	Units	Proposed Design Energy use	Proposed Design Cost ($)	Baseline Design Energy use	Baseline Design Cost ($)	Performance Cost Index (PCI)
Total ex Onsite Generation	kBtu	19,131,904.52	328,197.69	22,827,817.59	389,472.75	0.84
Total inc Onsite Generation	kBtu	19,131,904.52	328,197.69	22,827,817.59	389,472.75	0.84

The Proposed design model is based on the permit drawing set.

The baseline design model is based on 2018 IECC 2018 C407.5.

The Proposed model saves 15.7% over the baseline design model, complying with 2018 IECC 2018 C401.2 option 3.

PROFESSIONAL ENGINEER — STATE OF UTAH

Reserved for permit stamp

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project manager ______
drawn by ______
checked by Checker
job no.
date 5/17/2024

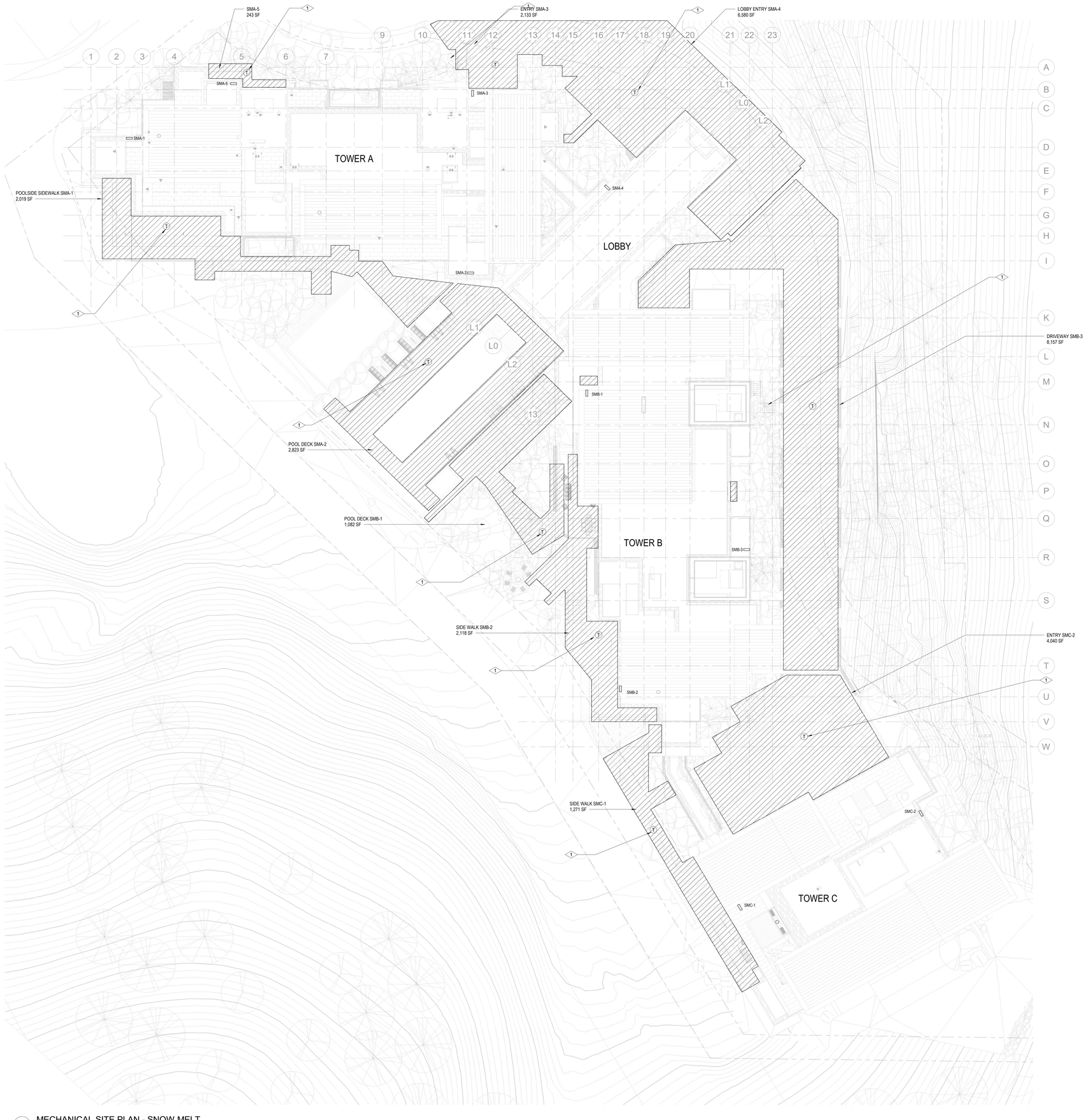
revisions:

no. date by

IFC Set 2 of 3
5/17/2024

ENERGY CODE COMPLIANCE REPORT

M0.15

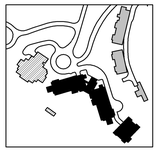


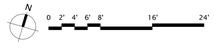
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

1 SNOW MELT SURFACE TEMPERATURE SENSOR.





1 MECHANICAL SITE PLAN - SNOW MELT
SCALE: 1/16" = 1'-0"

Reserved for permit stamp

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principal architect
project manager
drawn by
checked by Checker
job no.
date 5/17/2024

revisions:

no.	date	by
1	5/17/2024	IFC 2

IFC Set 2 of 3
5/17/2024

MECHANICAL SITE PLAN - SNOW MELT

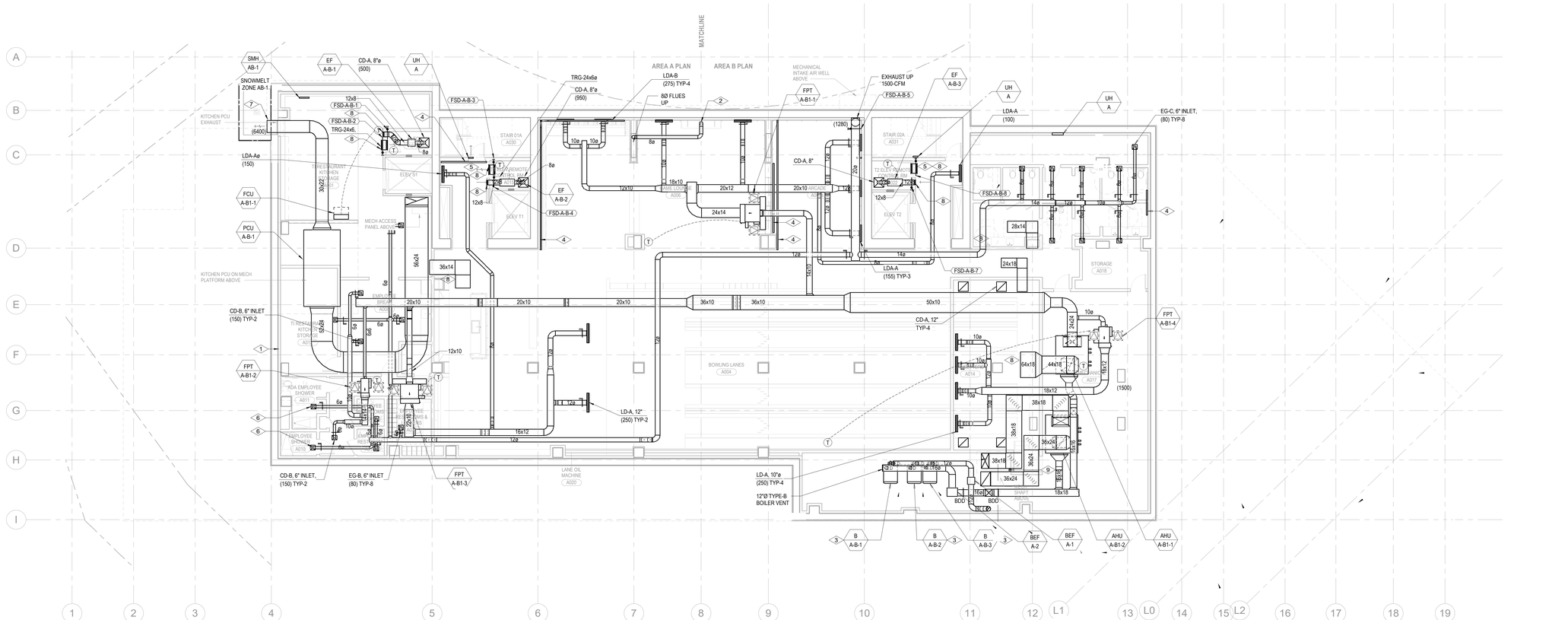
M1.00

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

1 FUTURE KITCHEN EQUIPMENT AND INFRASTRUCTURE PROVIDED UNDER SEPARATE PERMIT.
2 CONNECT TO MANUFACTURED FIREPLACE. SEE FIREPLACE INSTRUCTIONS FOR MORE INFORMATION.
R EXHAUST
STACK WITH 120V/1PH ELECTRICAL POWER.
SEE ARCH DRAWINGS
5 FSD ACCESS IN ELECTRICAL ROOM.
GRILL AND DUCTWORK BACK TO BRANCH LINE SHALL BE STAINLESS
...) ECT EXHAUST DUCT OPENING INTO WELL WITH WMS.
o DISCHARGE AND/OR INTAKE PROVIDE HOUSED PLENUM. PROTECT OPENING WITH WMS
9 PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER.



1 TOWER A - LEVEL B MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

N 0 2' 4' 6' 8' 16' 24'

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TOWER A - LVL B MECHANICAL DUCT PLAN

M2.2A.01

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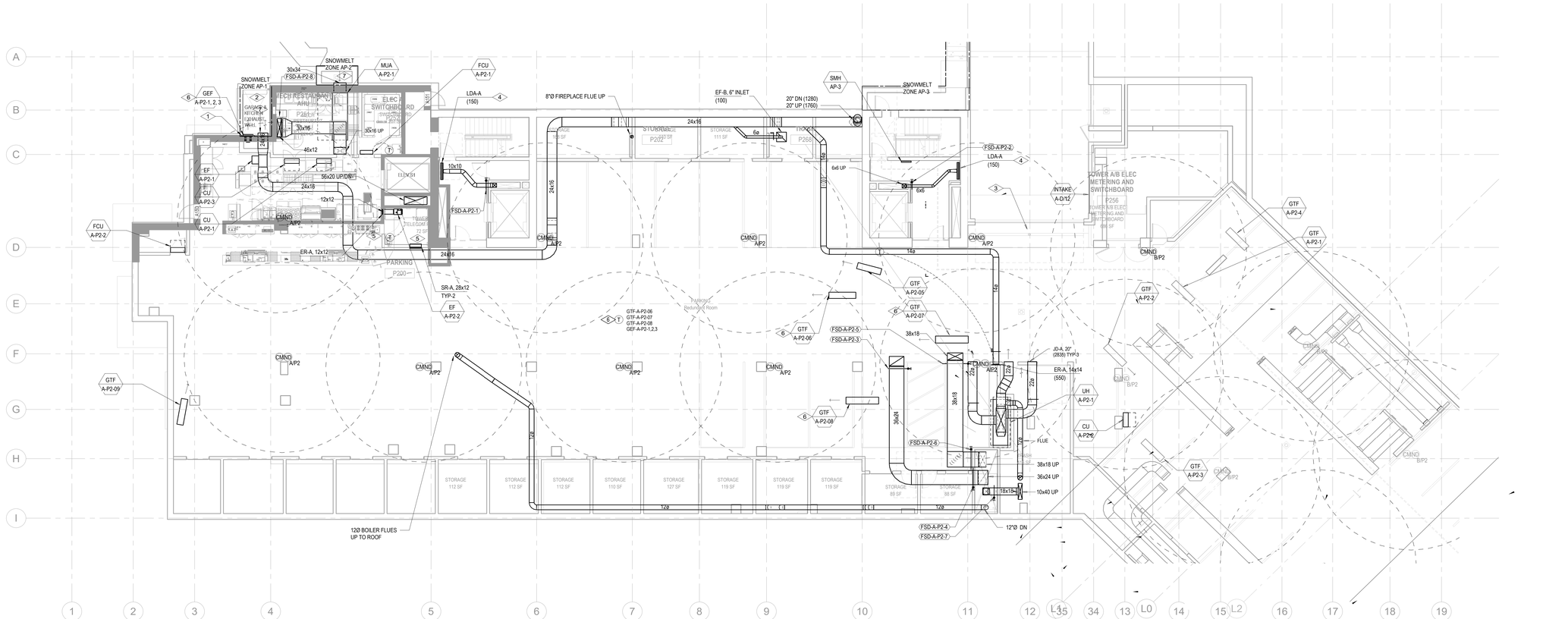
SHEET NOTES:

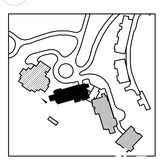
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.

NUMBERED NOTES:

1 GARAGE EXHAUST FANS TO BE STACKED AT THE EXHAUST WELL WALL UNDER THE DUCT PENETRATIONS SHOWN. SEE DETAIL-7, SHEET M5.01.
2 SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3 ARCHITECT TO PROVIDE 41-SQFT NFA GARAGE INTAKE.
5 DISCHARGE AND/OR INTAKE ABOVE CEILING PLENUM. PROTECT OPENING WITH WMS
4 OF KITCHEN CONDENSING UNITS. SUSPEND THERMOSTAT APPX. 6"
PERATION OF GTF-A-P2-06, GTF-A-P2-07, GTF-A-P2-08, AND
GEF-A-P2-1,2,3.
7 PROTECT EXHAUST DUCT OPENING INTO WELL WITH WMS.



1 TOWER A - PARKING LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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TOWER A - LVL P2 MECHANICAL DUCT PLAN

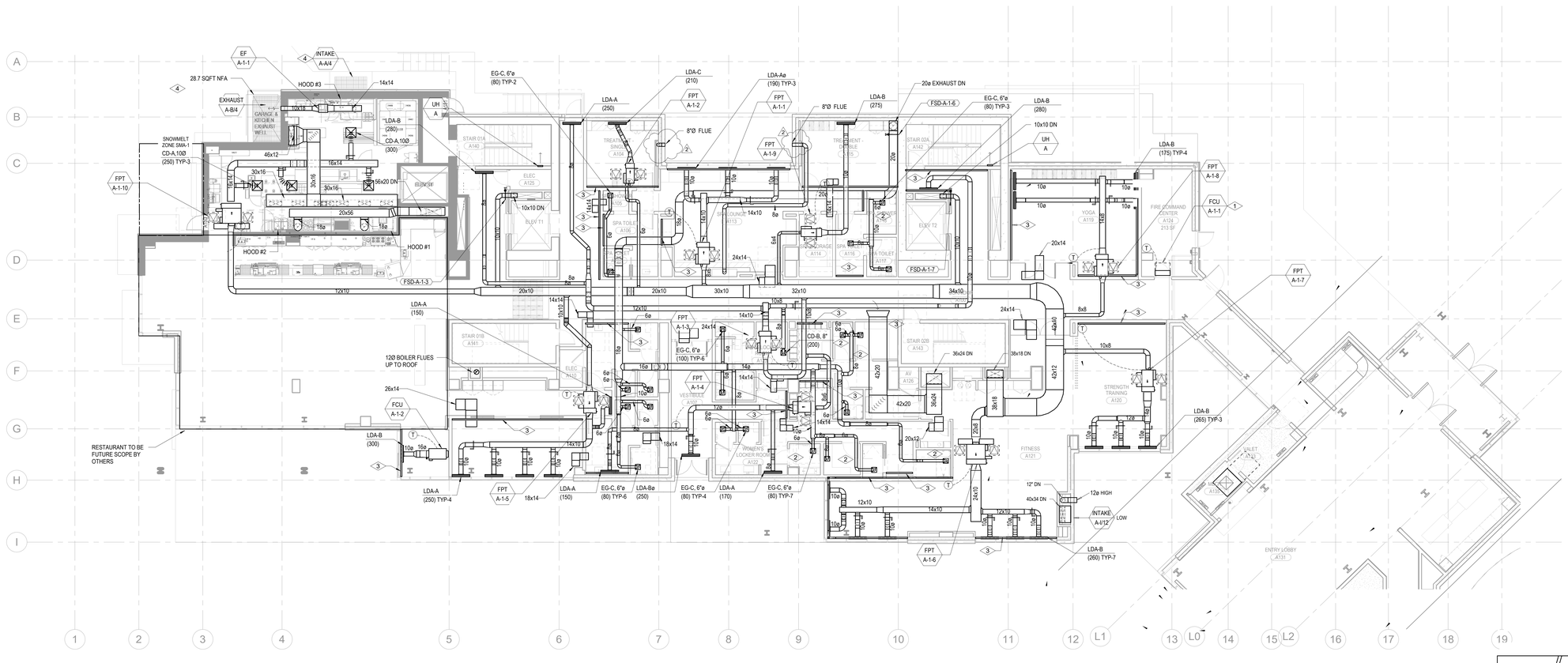
M2.2A.02

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04
I. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.

◇ NUMBERED NOTES:

1 ROUTE CONDENSATE TO NEAREST SINK DRAIN AIR GAP FITTING. SEE 3/M5.04
2 GRILL AND DUCTWORK BACK TO BRANCH LINE SHALL BE STAINLESS STEEL CONSTRUCTION
3 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR. SEE ARCH DRAWINGS
4 PROTECT EXHAUST/INTAKE DUCT OPENING INTO WELL WITH WMS.



1 TOWER A - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

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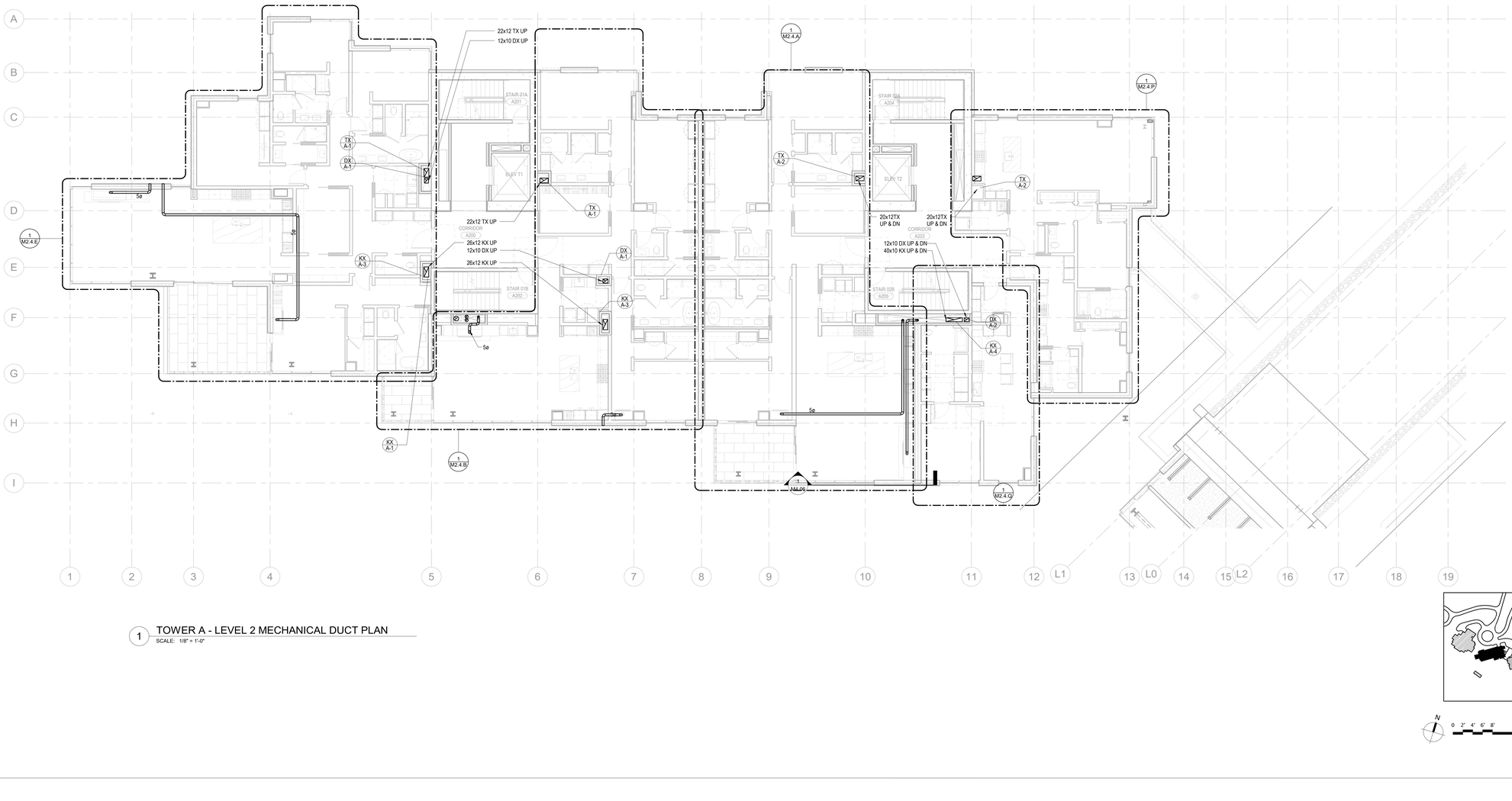
TOWER A - LVL 1 MECHANICAL DUCT PLAN

M2.2A.11

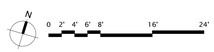
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER A - LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - LVL 2 MECHANICAL DUCT PLAN

M2.2A.12

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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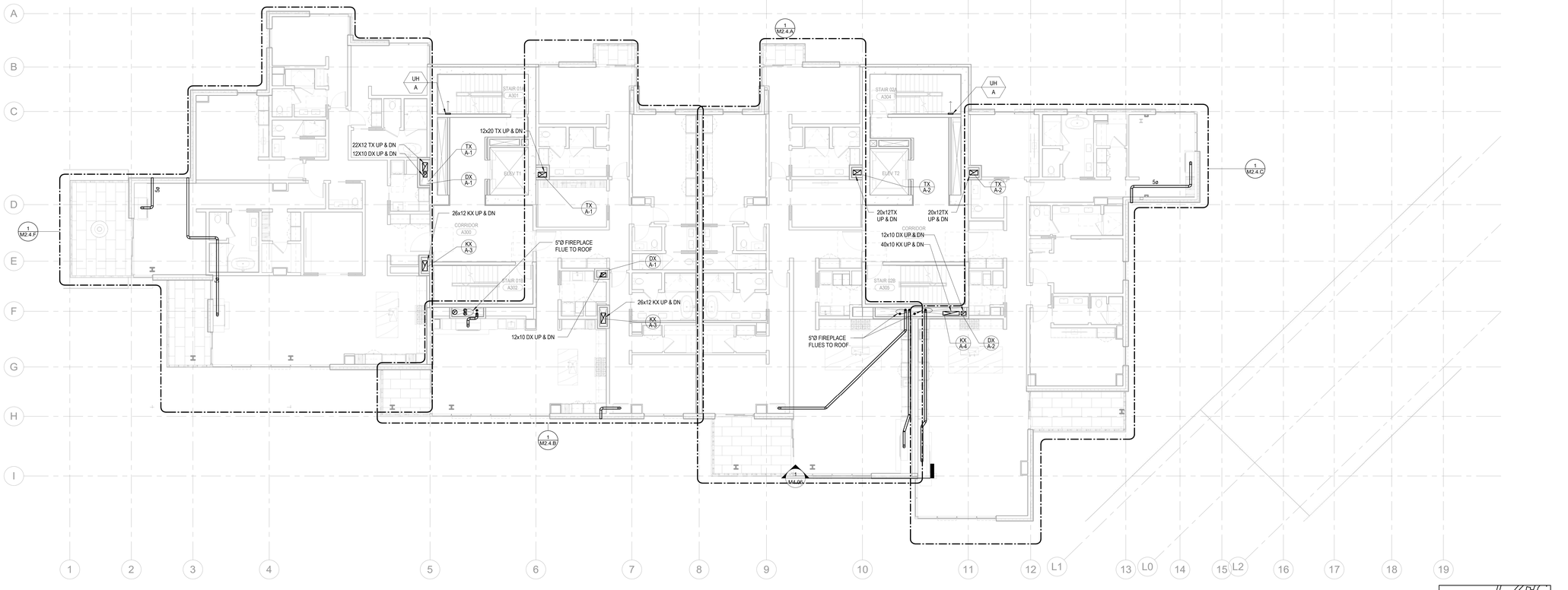
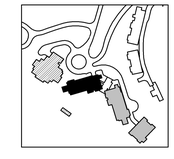


1 TOWER A - LEVEL 3 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - LVL 3 MECHANICAL DUCT PLAN

M2.2A.13

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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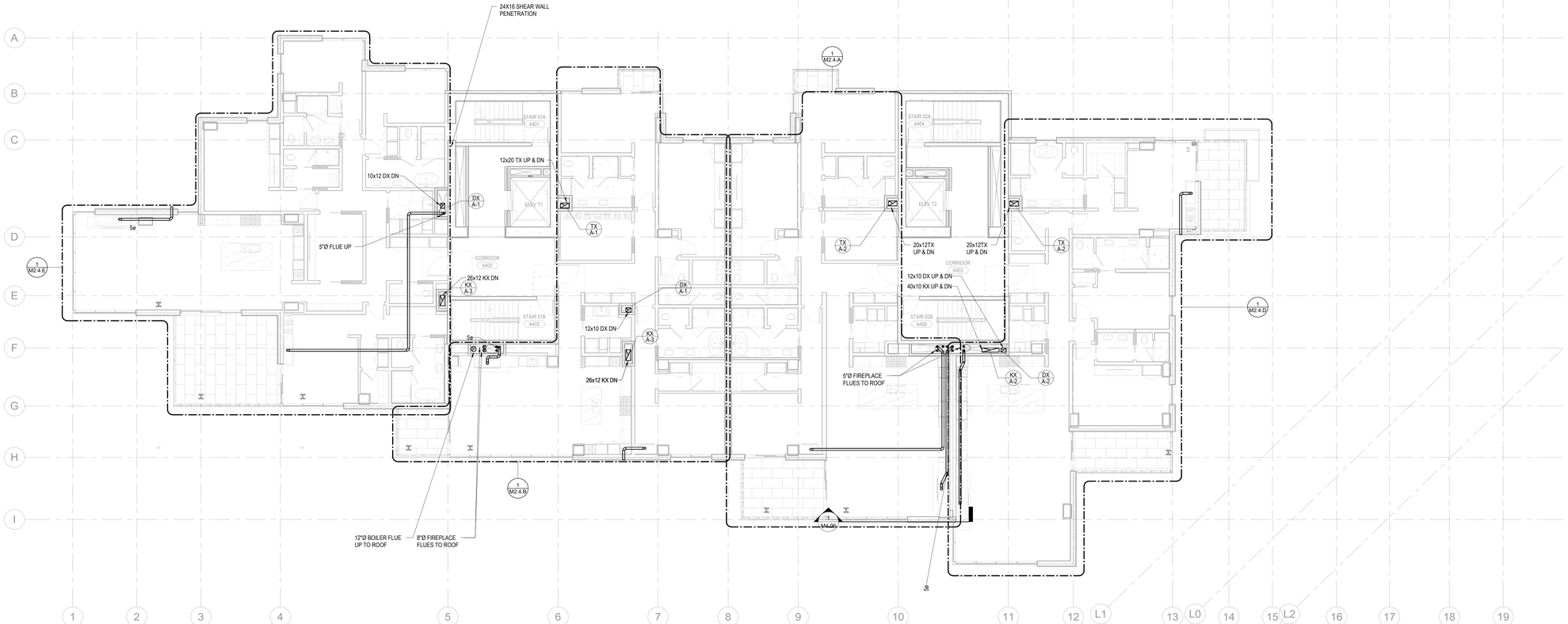
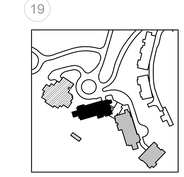


1 TOWER A - LEVEL 4 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - LVL 4 MECHANICAL DUCT PLAN

M2.2A.14

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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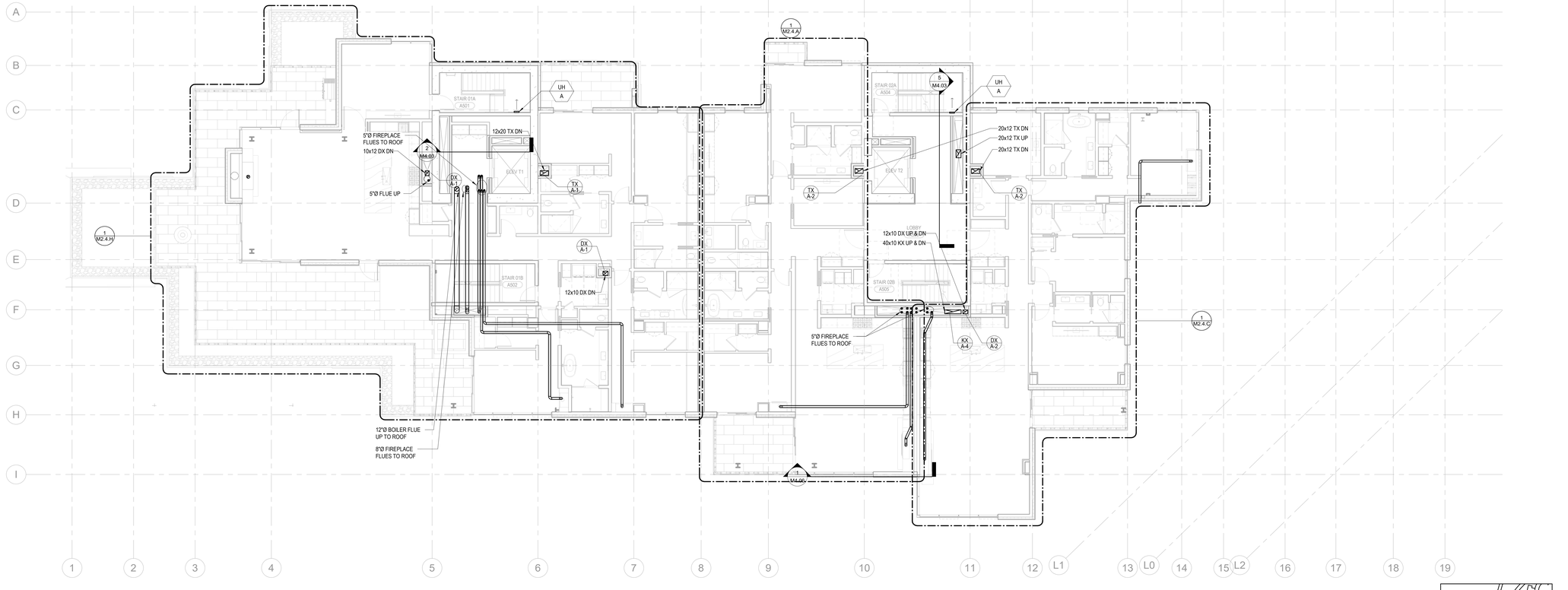
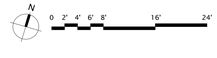


1 TOWER A - LEVEL 5 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - LVL 5 MECHANICAL DUCT PLAN

M2.2A.15

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
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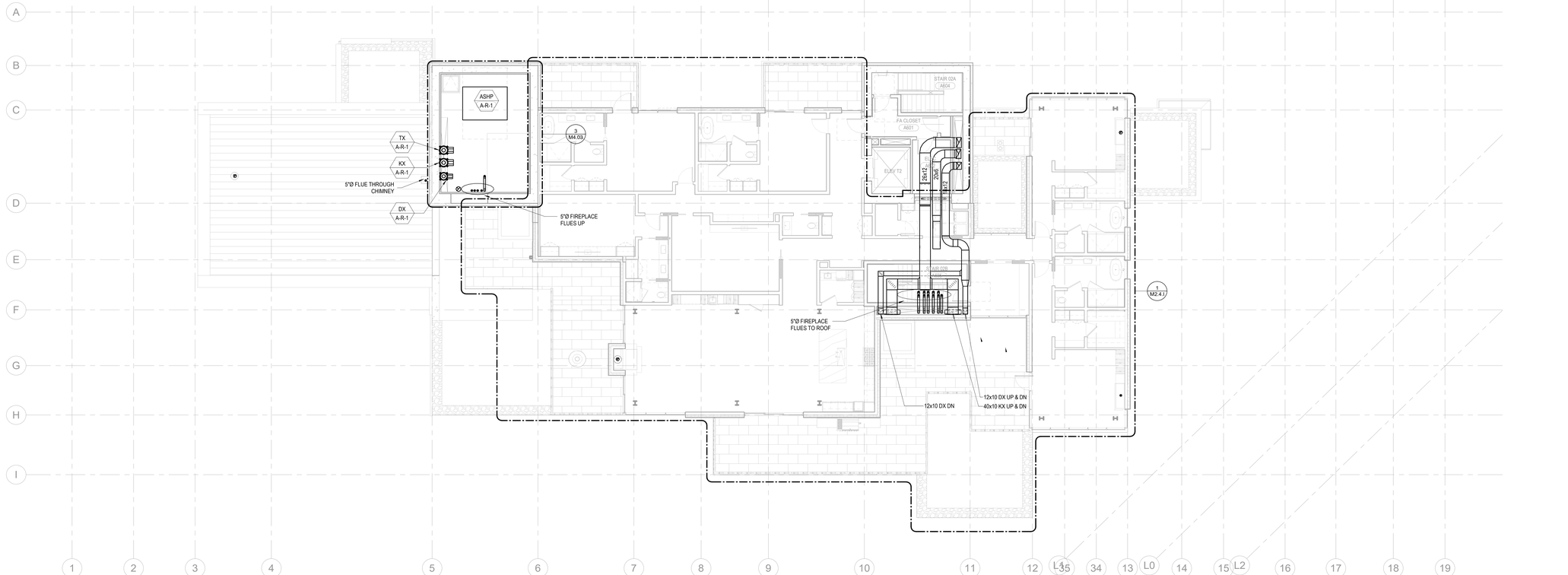
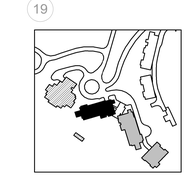


1 TOWER A - LEVEL 6 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - LVL 6 MECHANICAL DUCT PLAN

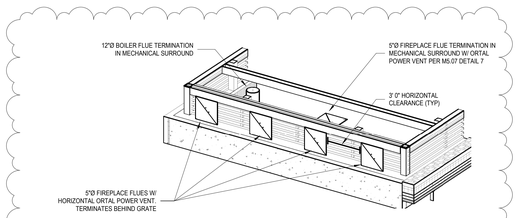
M2.2A.16

SHEET NOTES:

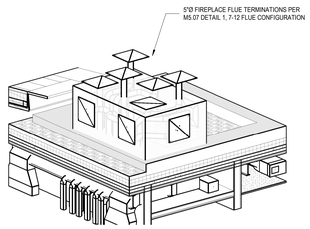
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

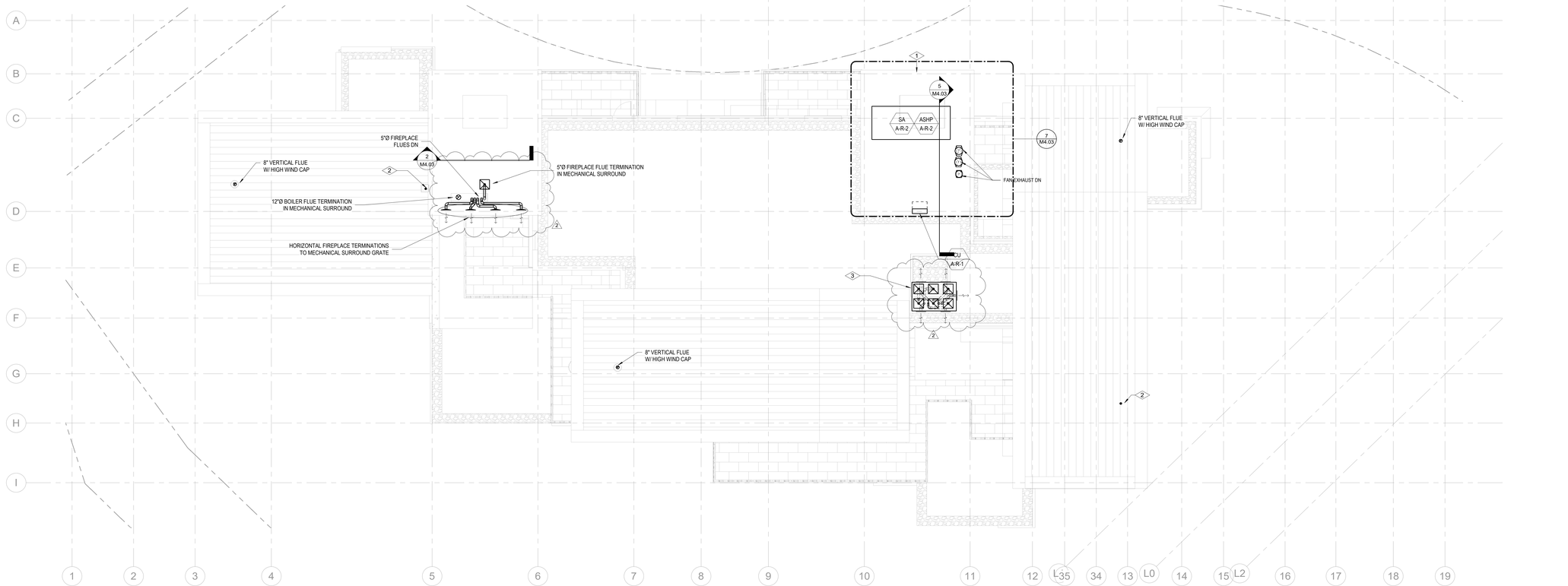
1 36-INCH TALL LOUVER FOR ASHP AIR INTAKE PROVIDED AROUND TOP OF ENTIRE MECHANICAL WELL. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
2 FIREPLACE FLUE TERMINATION TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.07 DETAIL 7
3 5"Ø FIREPLACE FLUE TERMINATIONS PER M5.07 DETAIL 1, 7-12 FLUE CONFIGURATION



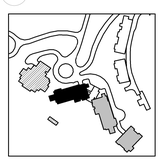
2 TOWER A FLUE TERMINATIONS WEST - ORTHOGRAPHIC
SCALE:



3 TOWER A FLUE TERMINATIONS EAST - ORTHOGRAPHIC
SCALE:



1 TOWER A - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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0 2' 4' 6' 8' 16' 24'

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IFC Set 3 of 3
5/31/2024

TOWER A - ROOF MECHANICAL DUCT PLAN

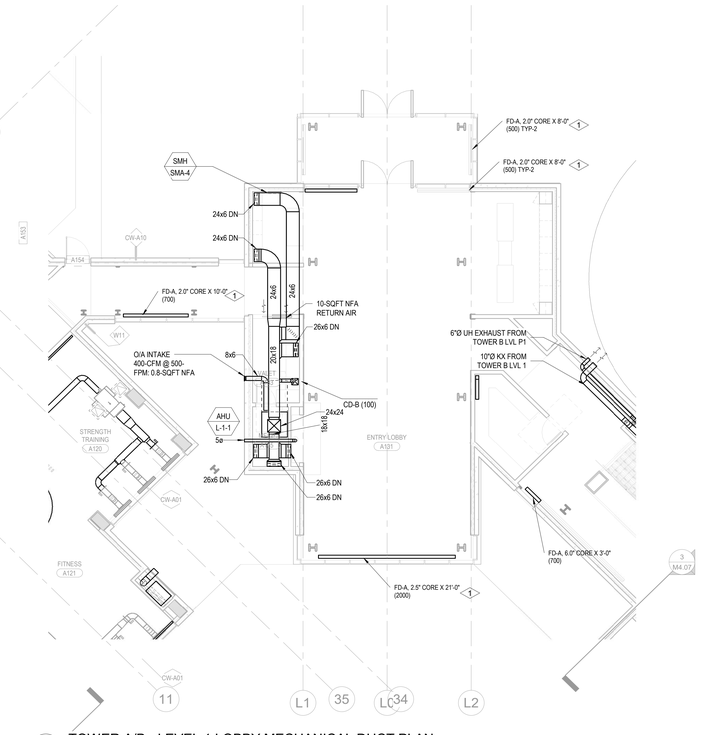
M2.2A.R

SHEET NOTES:

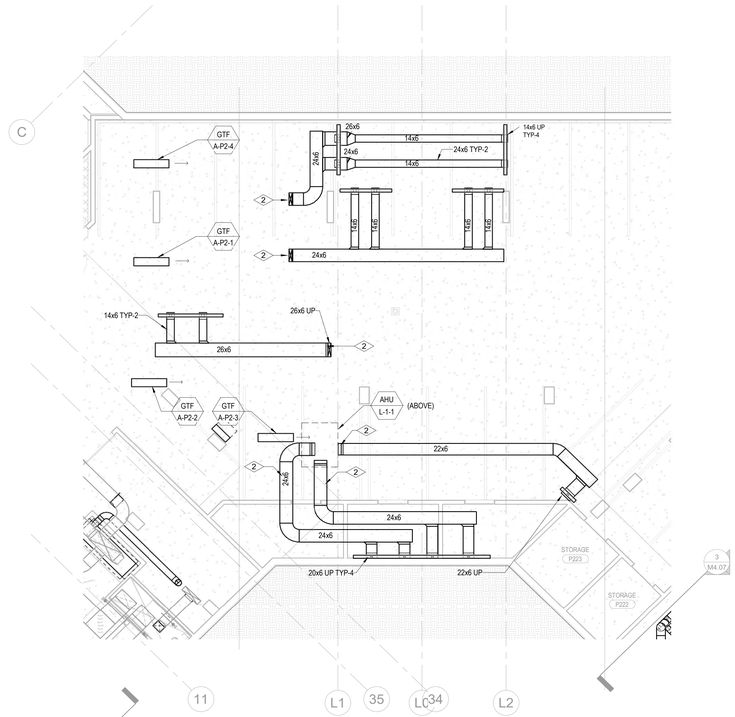
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-8" CLEARANCES FOR VEHICLES.
E. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
F. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
G. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
H. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
I. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

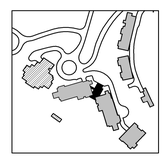
1 PROVIDE CONTINUOUS PLENUM ON UNDERSIDE OF FLOOR GRILL WITHIN INTERSTITIAL SPACE FOR CONNECTION TO DUCT FROM BELOW. PROVIDE REMOTE DAMPER ACTUATORS ACCESSIBLE FROM FLOOR GRILL
2 ARCHITECT SHALL PROVIDE RATED ENCLOSURE WITH DUCT INSTALLED TIGHT TO UNDERSIDE OF SLAB TO PREVENT THE NEED FOR FSDS



2 TOWER A/B - LEVEL 1 LOBBY MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



1 TOWER A/B - PARKING LEVEL 2 LOBBY MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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MECHANICAL PLANS
TOWER AB LOBBY

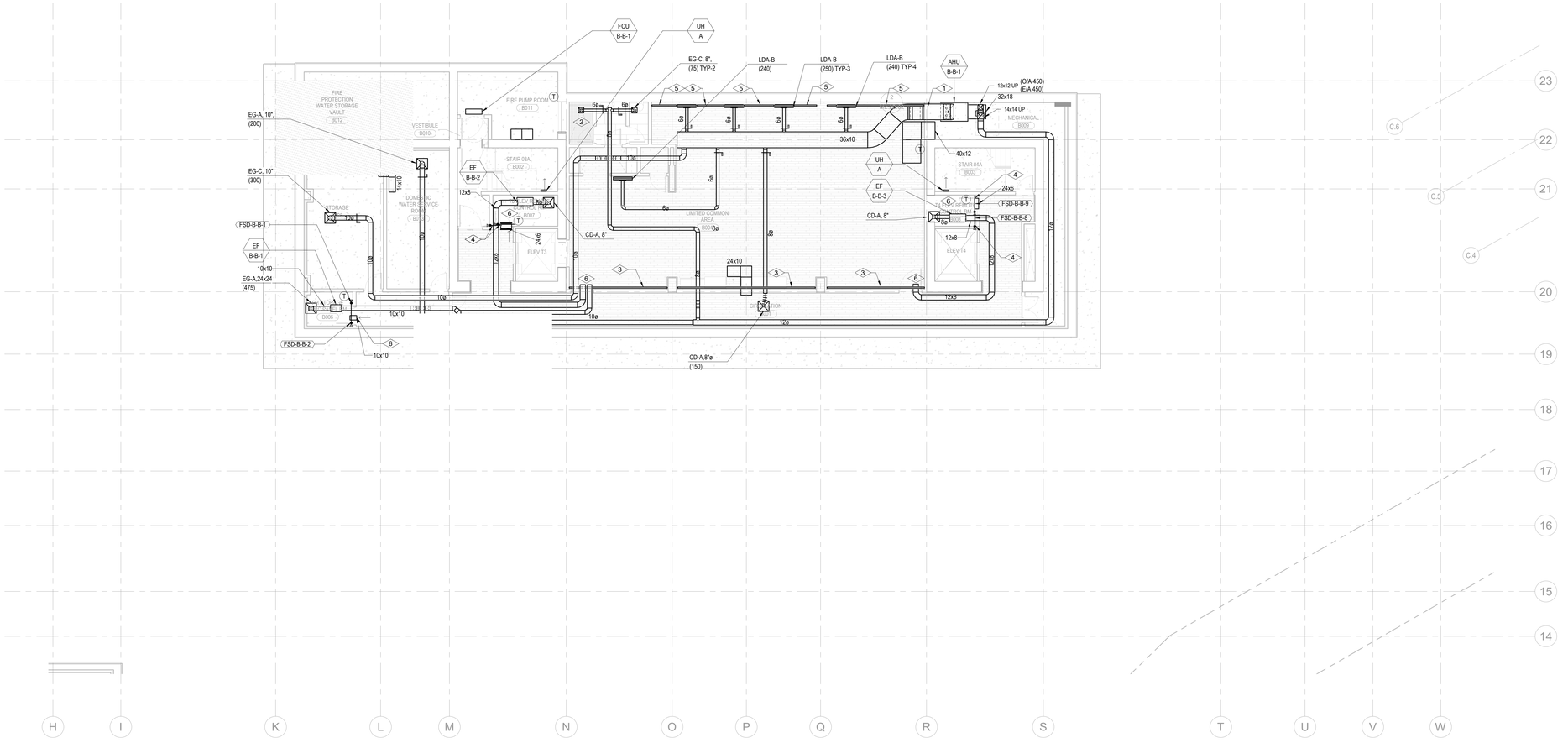
M2.2AB.11

SHEET NOTES:

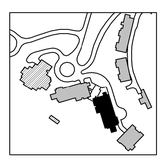
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

1 PROVIDE 44X10 TRANSFER DUCT INTO MECH ROOM
2 GRILL AND DUCTWORK BACK TO BRANCH LINE SHALL BE STAINLESS STEEL CONSTRUCTION
3 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR. SEE ARCH DRAWINGS
4 WALL GRILL SHALL BE ABOVE FINISHED CEILING. FSD ACCESS IN ELECTRICAL ROOM
5 REMAINING 3" GAP NOT OCCUPIED BY LINEAR DIFFUSER IN THIS LINE SHALL BE BLANKED OFF TO RETURN AIR AT THIS LOCATION
6 DISCHARGE AND/OR INTAKE ABOVE CEILING PLENUM. PROTECT OPENING WITH WMS



1 TOWER B - LEVEL B1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER B - LVL B MECHANICAL DUCT PLAN

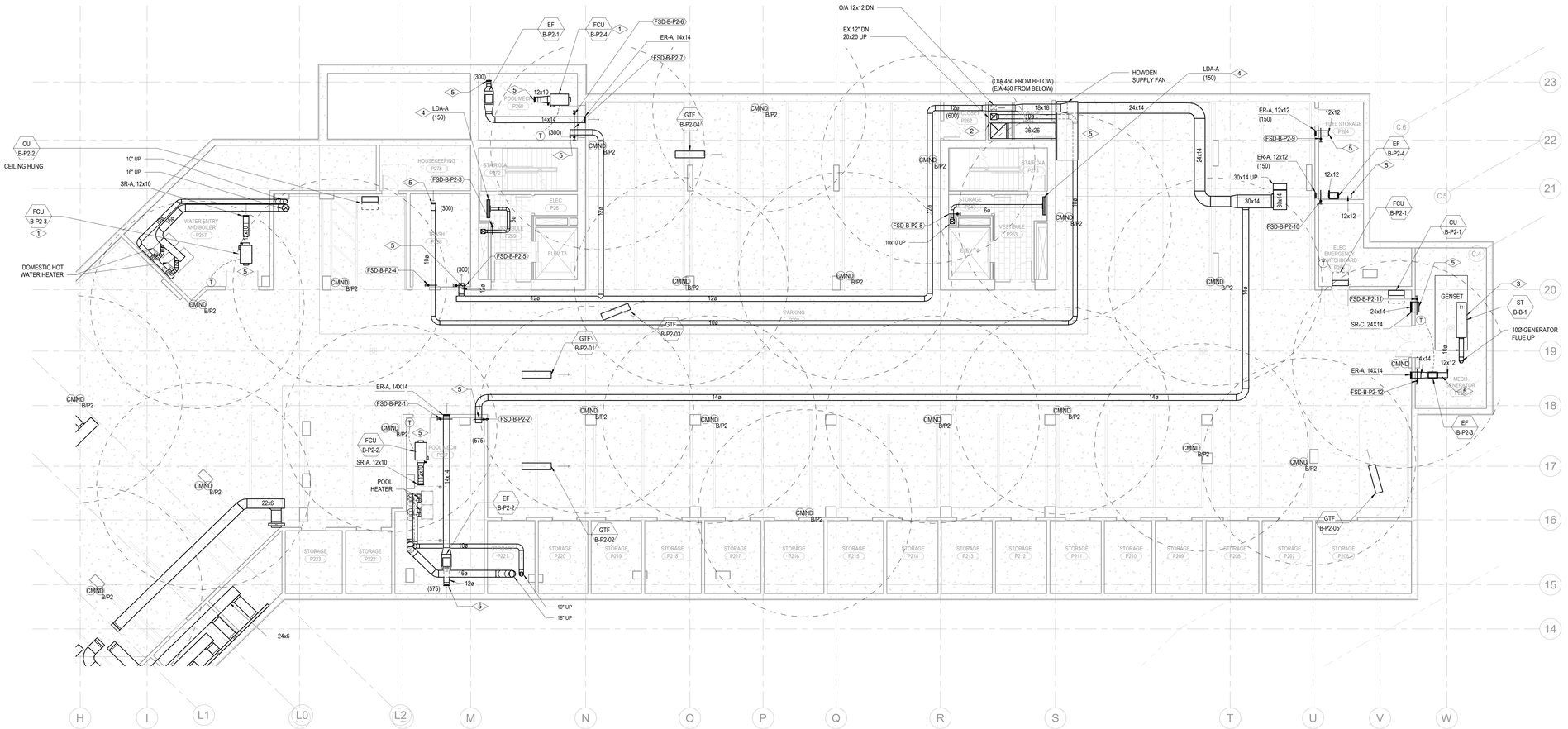
M2.2B.01

SHEET NOTES:

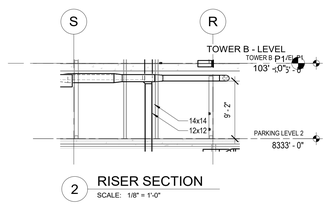
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.

NUMBERED NOTES:

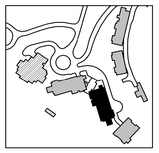
1 ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
2 ARCHITECT TO PROVIDE 30-SQFT GRILL IN SHAFT WALL FOR GARAGE EXHAUST INTAKE.
3 GENSET EXHAUST SILENCER, FURNISHED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR.
4 ARCHITECT TO PROVIDE 58-SQFT NFA GARAGE AND SPF AIR INTAKE.
5 DISCHARGE AND/OR INTAKE - PROTECT OPENING WITH WMS.



1 TOWER B - PARKING LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



2 RISER SECTION
SCALE: 1/8" = 1'-0"



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TOWER B - LVL P2 MECHANICAL DUCT PLAN

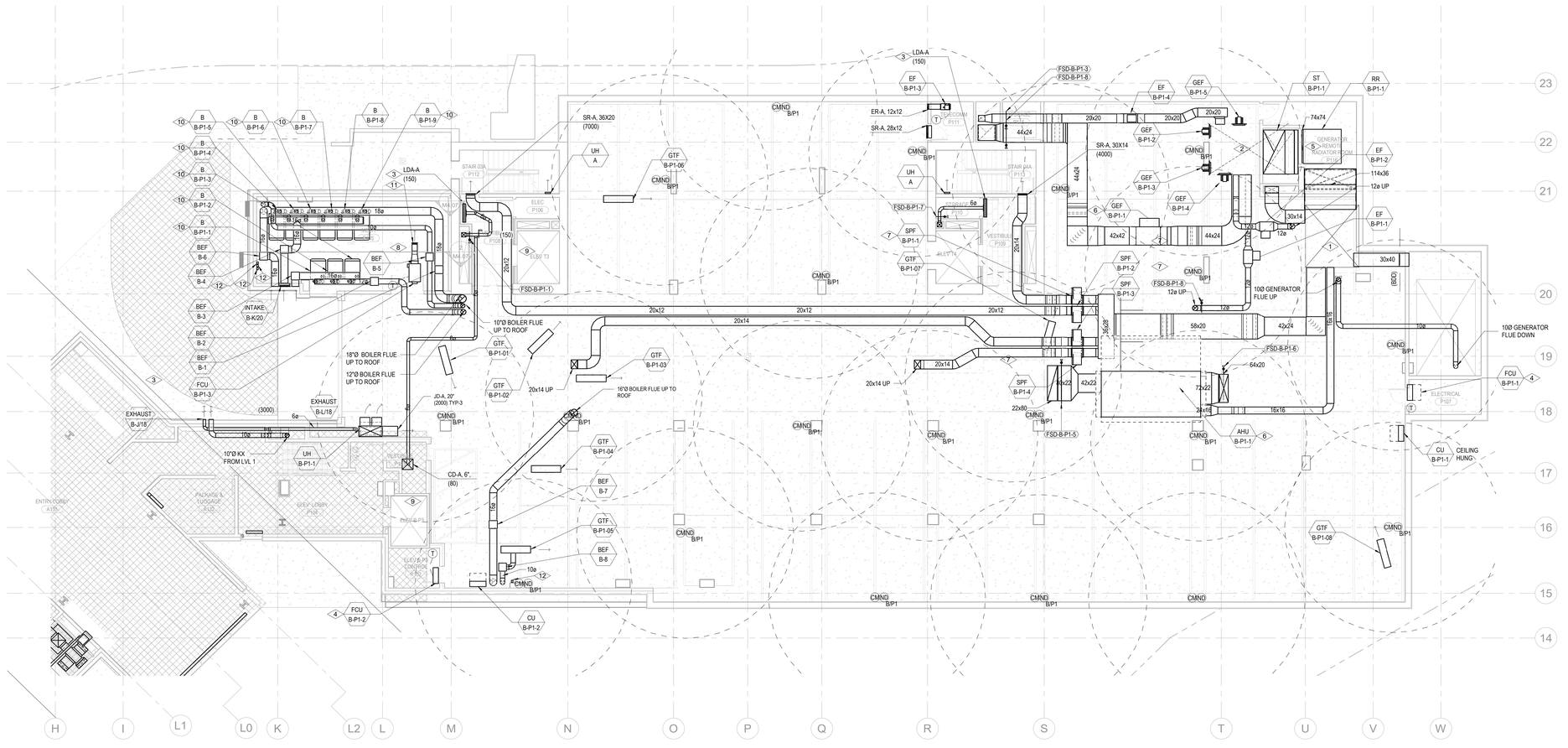
M2.2B.02

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.

NUMBERED NOTES:

1 SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
2 SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3 ARCHITECT TO PROVIDE 58-SQFT NFA GARAGE AND SPF AIR INTAKE.
4 ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
5 GENERATOR REMOTE RADIATOR. PROVIDE BACKDRAFT DAMPERS ON THE EXHAUST AIR DUCT.
6 EQUIPMENT SHALL BE MOUNTED ON MECHANICAL PLATFORM ABOVE GARAGE DRIVE ISLE
7 STAIR PRESSURIZATION FANS AND ASSOCIATED DUCTWORK TO BE LOCATED IN A 2-HR RATED ENCLOSURE ADJACENT TO FAN. SEE ARCHITECTURAL DRAWINGS FOR ENCLOSURE DETAIL.
8 REFER TO M6.04 FOR BLDG B HYDRONIC RISER DIAGRAM AND MECHANICAL ROOM PIPE CONFIGURATION.
9 1-CFM / SQFT PROVIDED FOR ELEVATOR LOBBY PRESSURIZATION.
10 PROVIDE ENERVEX SMDS-8 MODULATING DAMPER OFF BOILER EXHAUST STACK WITH 120V/1PH ELECTRICAL POWER.
11 DISCHARGE AND/OR INTAKE - PROTECT OPENING WITH WMS.
12 PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER.



1 TOWER B - PARKING LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

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TOWER B - LVL P1 MECHANICAL DUCT PLAN

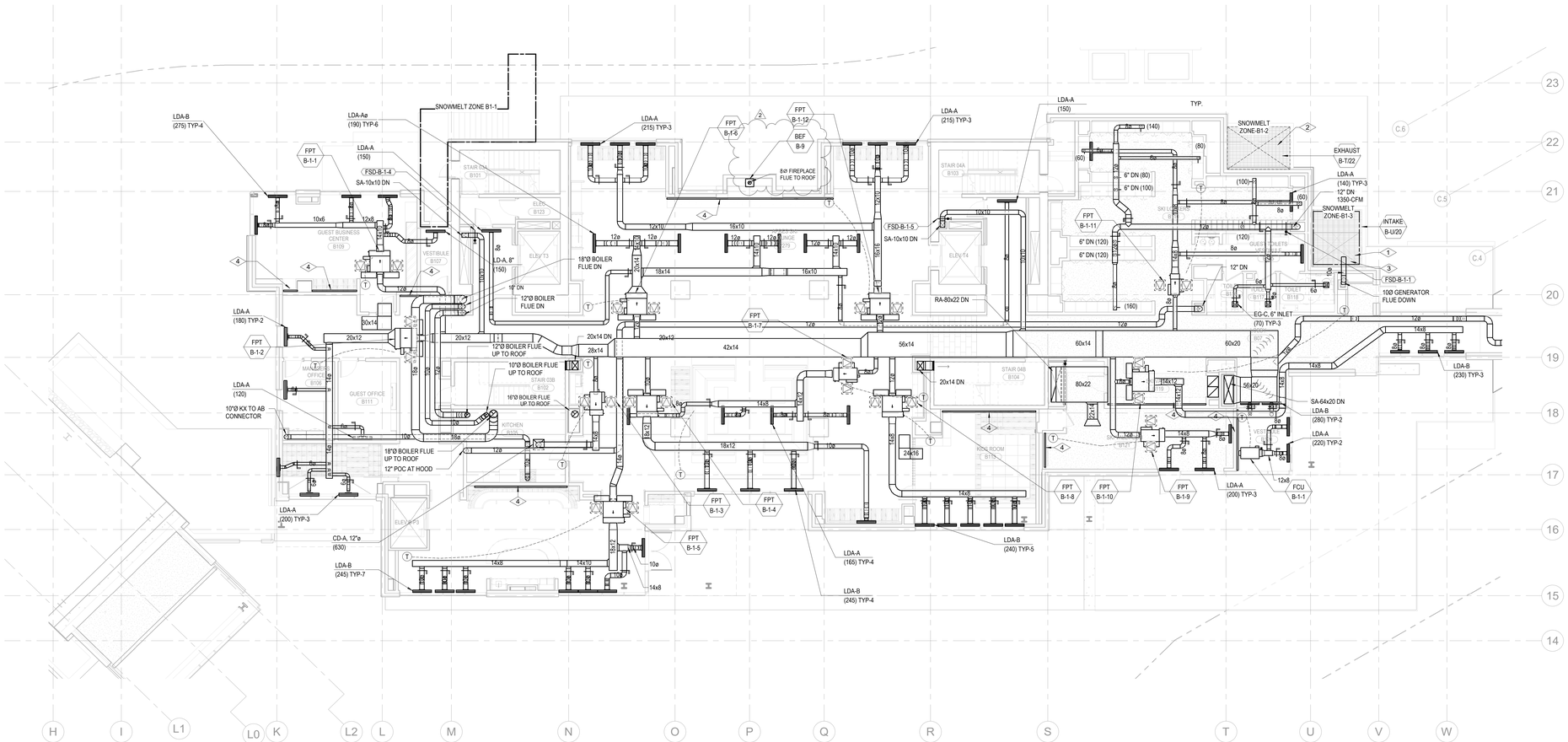
M2.2B.03

SHEET NOTES:

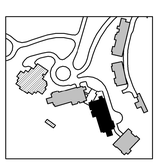
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1-SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

(#) NUMBERED NOTES:

1 SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
2 SEE ARCHITECTURAL DRAWINGS FOR EXHAUST WELL INFORMATION.
3 GENERATOR COMBUSTION SHALL EXHAUST 10' FROM PROPERTY LINES, 3' FROM EXTERIOR WALLS AND ROOFS, 10' ABOVE GRADE AND 10' FROM OPERABLE OPENINGS INTO THE BUILDING.
4 3" FREE AIR GAP ALONG THIS WALL FOR RETURN AIR. SEE ARCH DRAWINGS



1 TOWER B - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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TOWER B - LVL 1 MECHANICAL DUCT PLAN

M2.2B.11

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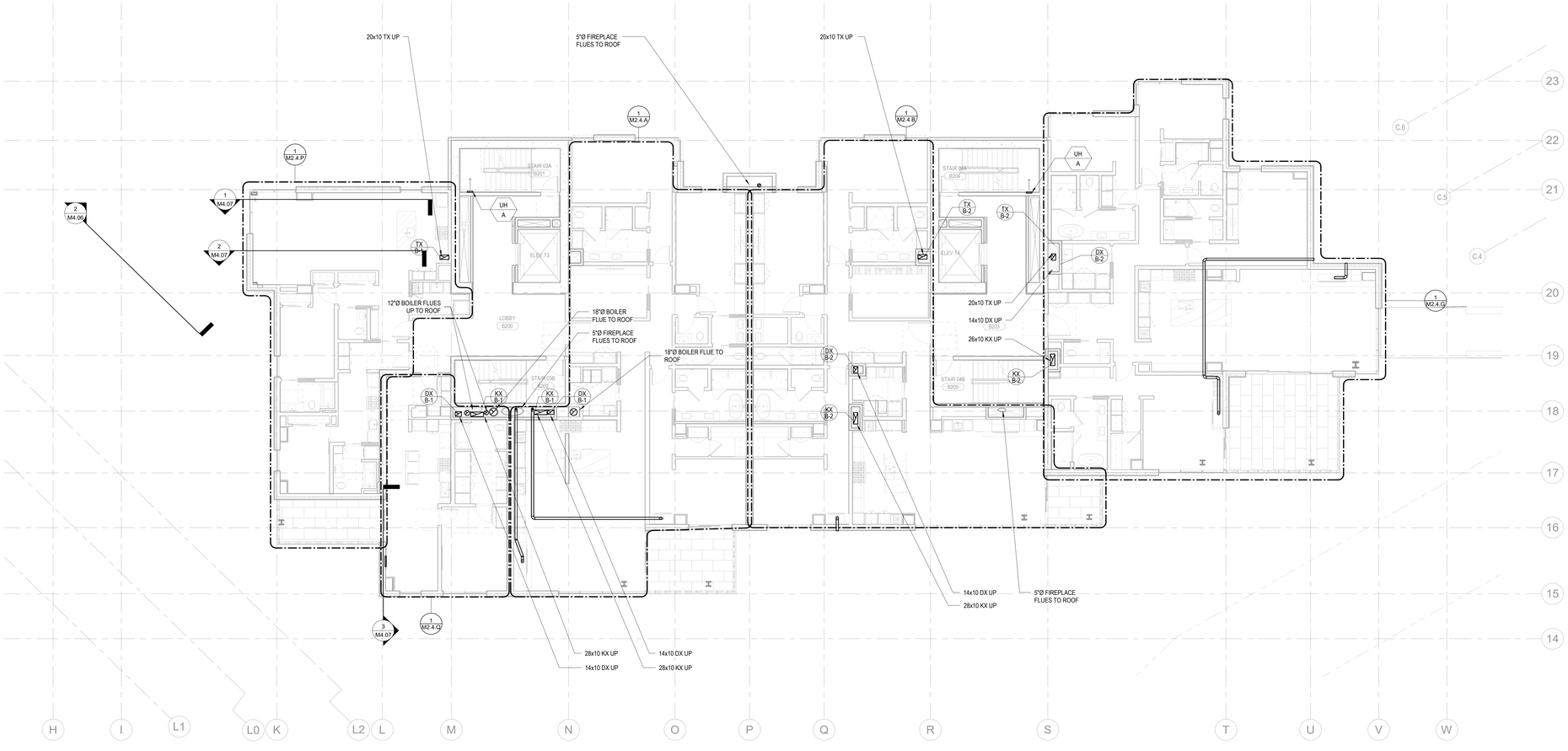
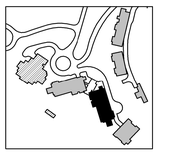
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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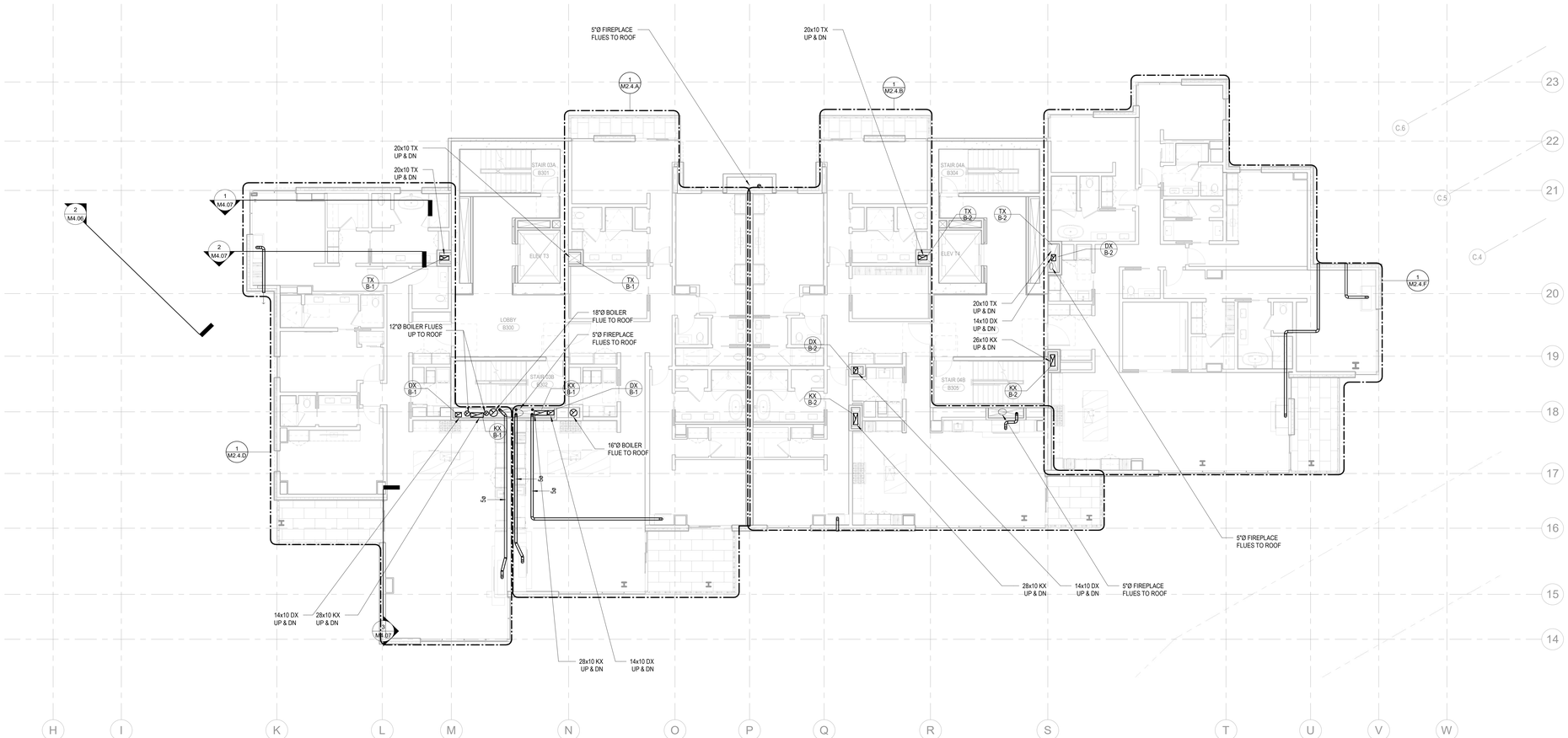
TOWER B - LVL 2 MECHANICAL DUCT PLAN

M2.2B.12

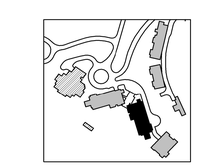
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 3 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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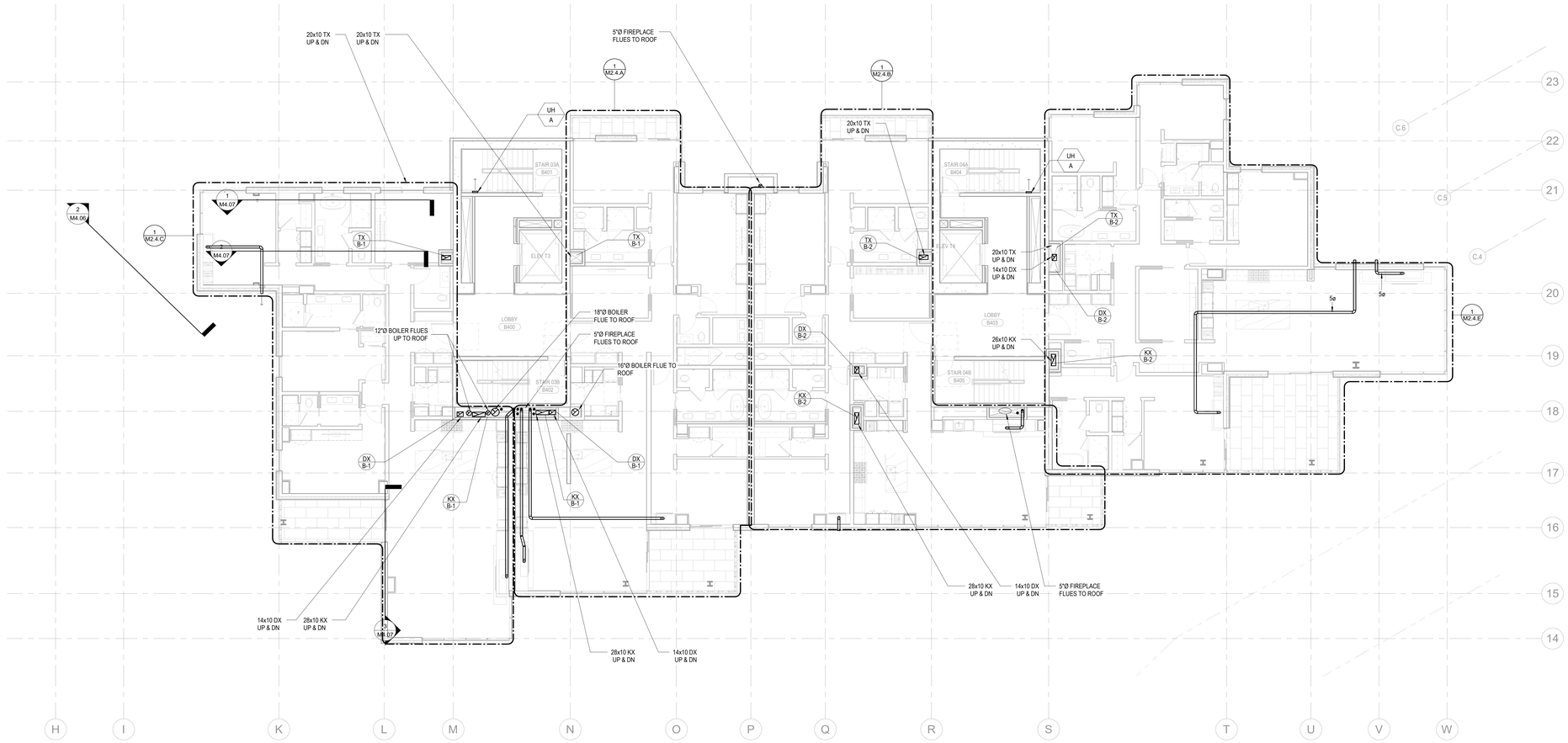
TOWER B - LVL 3 MECHANICAL DUCT PLAN

M2.2B.13

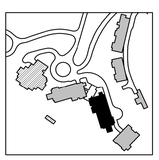
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 4 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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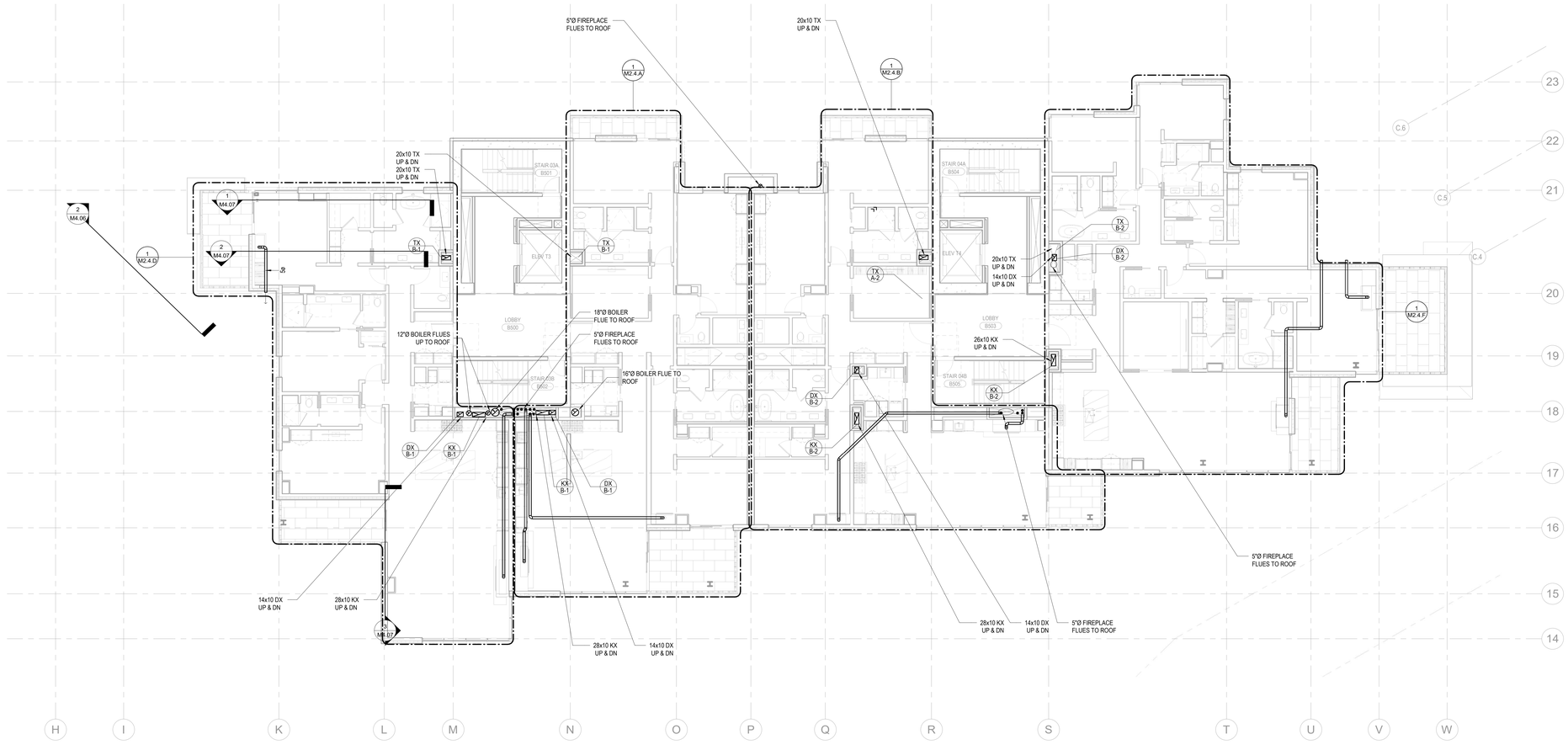
TOWER B - LVL 4 MECHANICAL DUCT PLAN

M2.2B.14

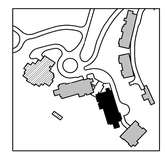
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 5 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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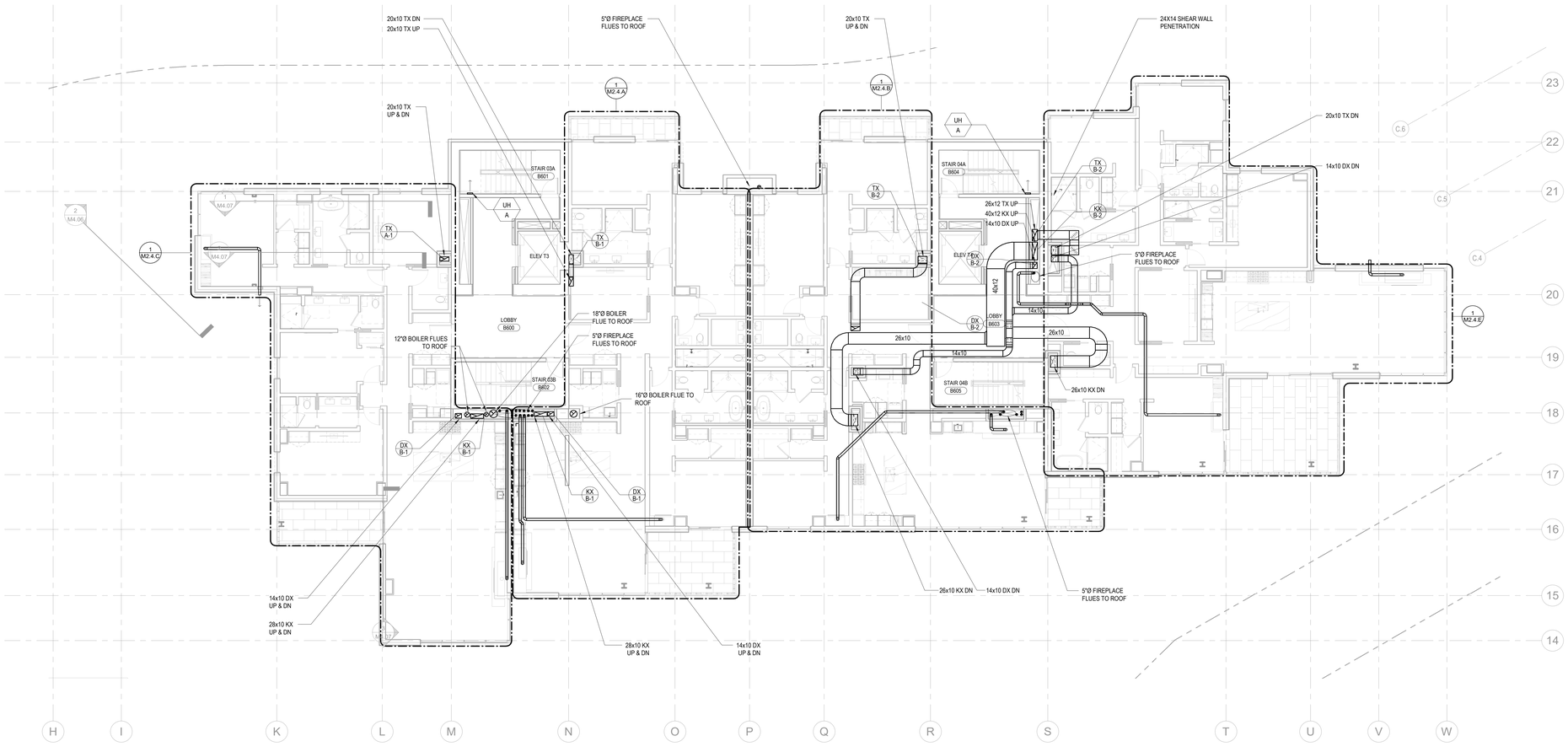
TOWER B - LVL 5 MECHANICAL DUCT PLAN

M2.2B.15

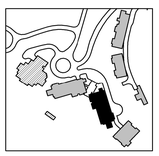
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 6 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 1'6' 2'4'

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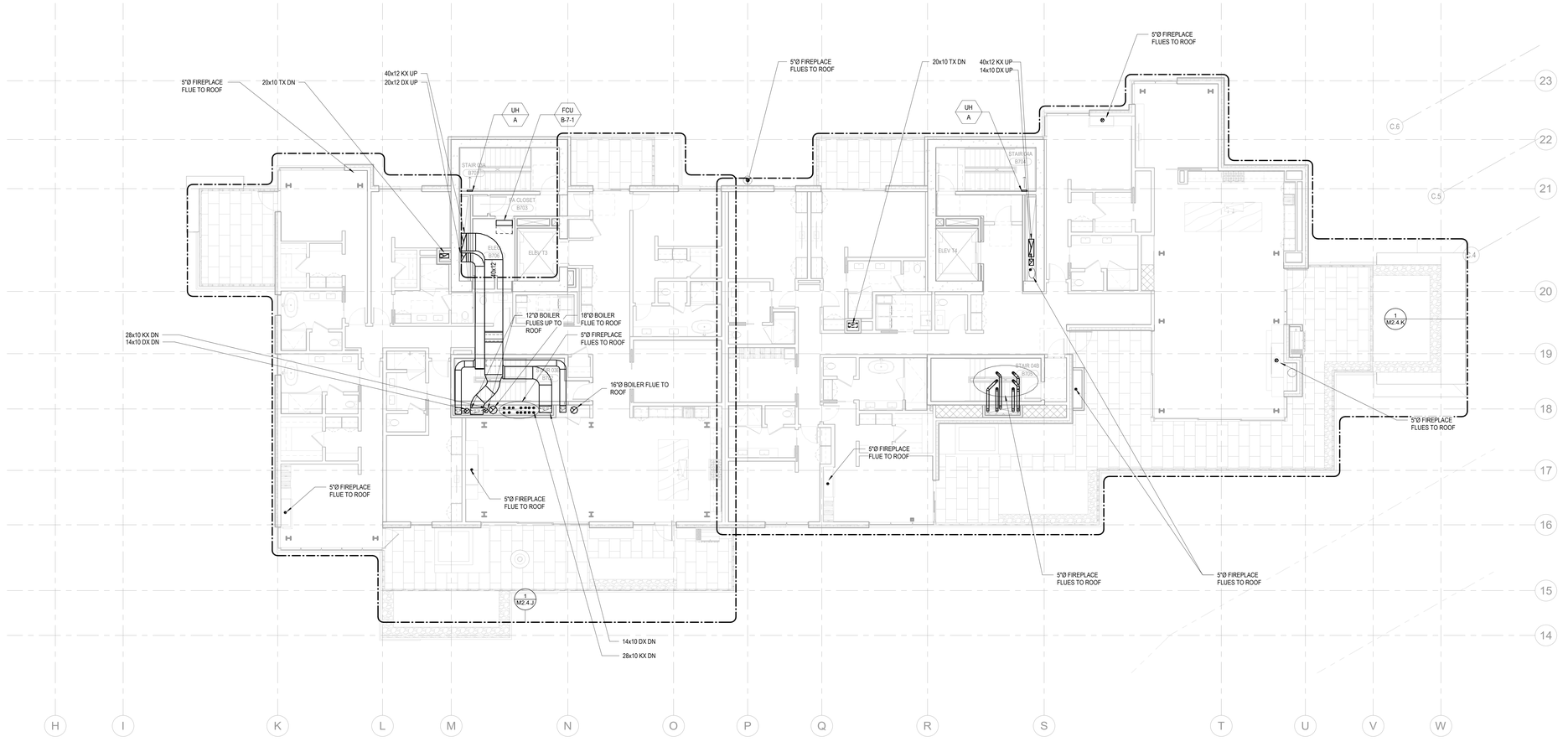
TOWER B - LVL 6 MECHANICAL DUCT PLAN

M2.2B.16

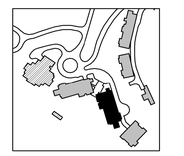
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

⟨#⟩ NUMBERED NOTES:



1 TOWER B - LEVEL 7 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 1'6' 2'4'

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project manager _____
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TOWER B - LVL 7 MECHANICAL DUCT PLAN

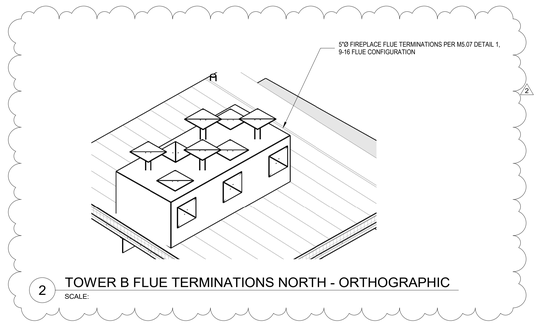
M2.2B.17

SHEET NOTES:

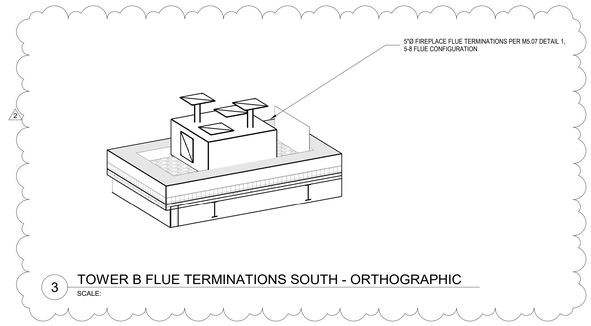
A. REFER TO M2.4 SERIES FOR ENLARGED PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

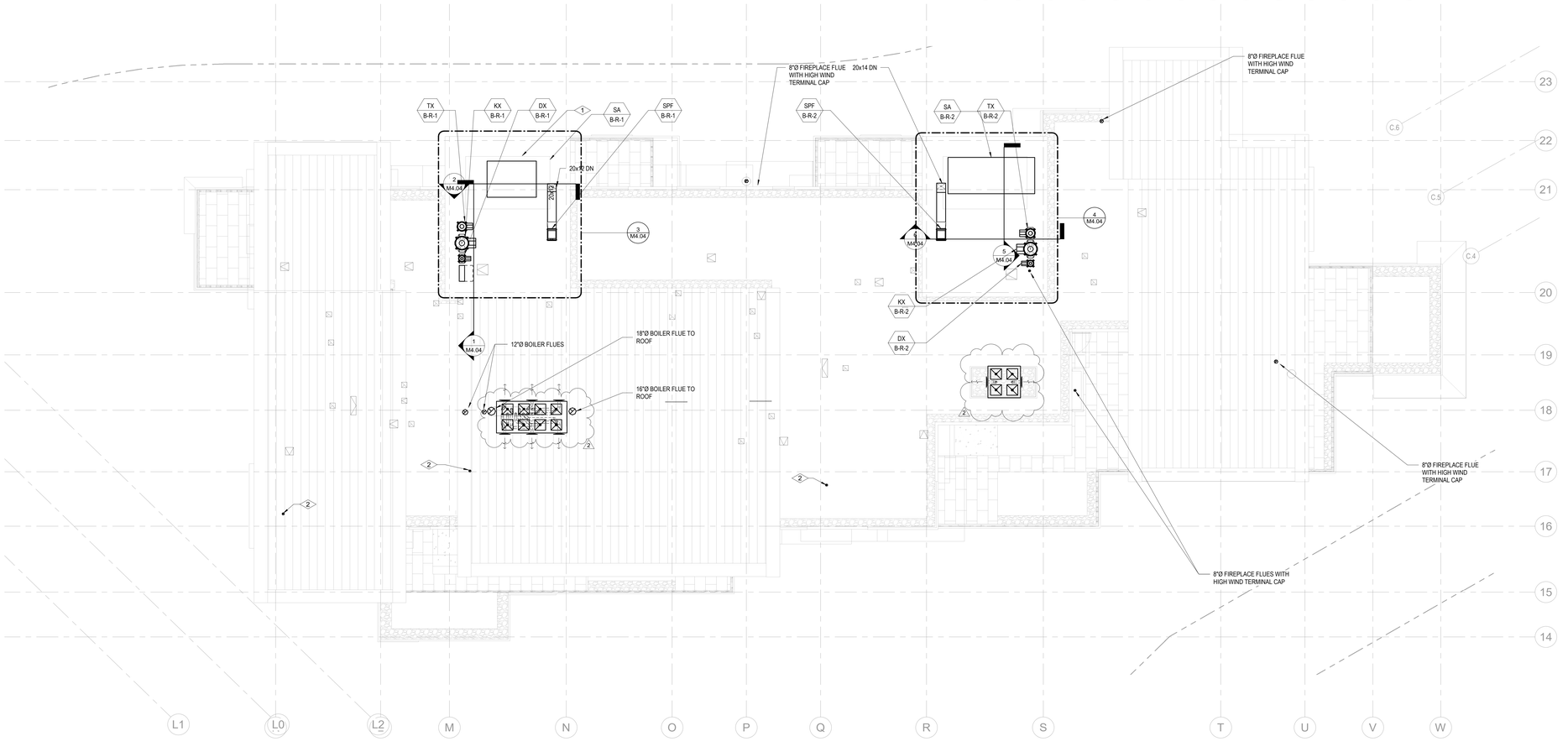
1 STAIR TO BE PROVIDED WITH 2-HR RATED CEILING
2 FIREPLACE FLUE TERMINATION TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.07 DETAIL 7



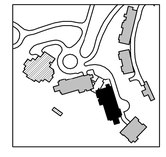
2 TOWER B FLUE TERMINATIONS NORTH - ORTHOGRAPHIC
SCALE:



3 TOWER B FLUE TERMINATIONS SOUTH - ORTHOGRAPHIC
SCALE:



1 TOWER B - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



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5/31/2024

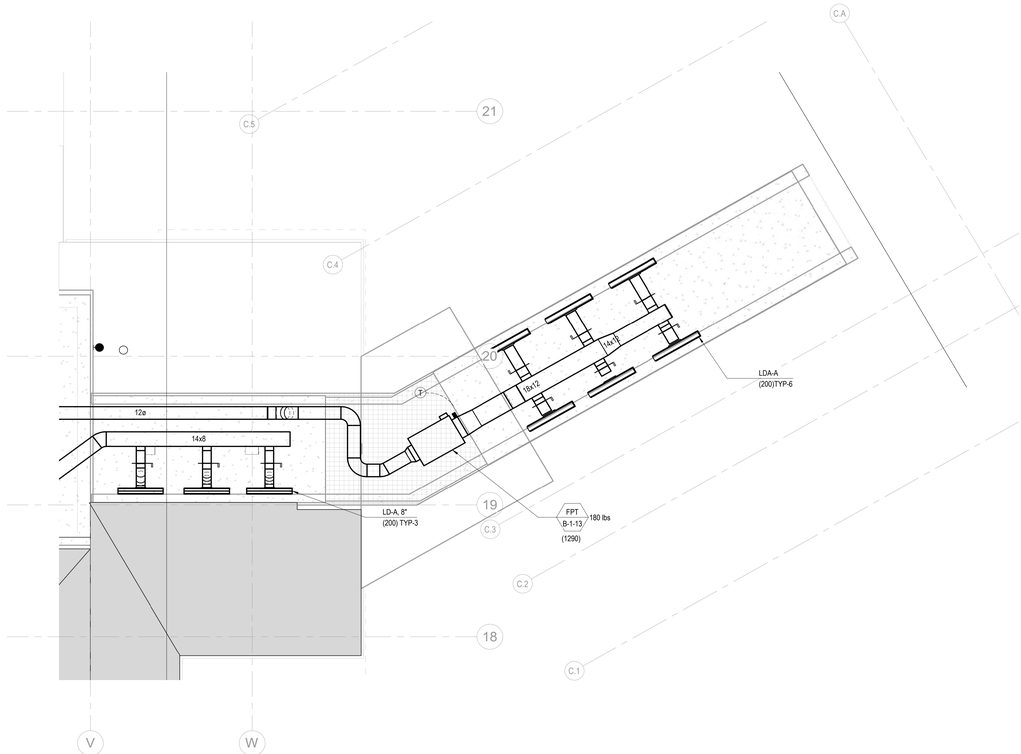
TOWER B - ROOF MECHANICAL DUCT PLAN

M2.2B.R

SHEET NOTES:

A. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
B. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
C. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
D. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:



1 TOWER BC - LVL 1 CONNECTOR MACHANICAL PLAN
SCALE: 1/4" = 1'-0"

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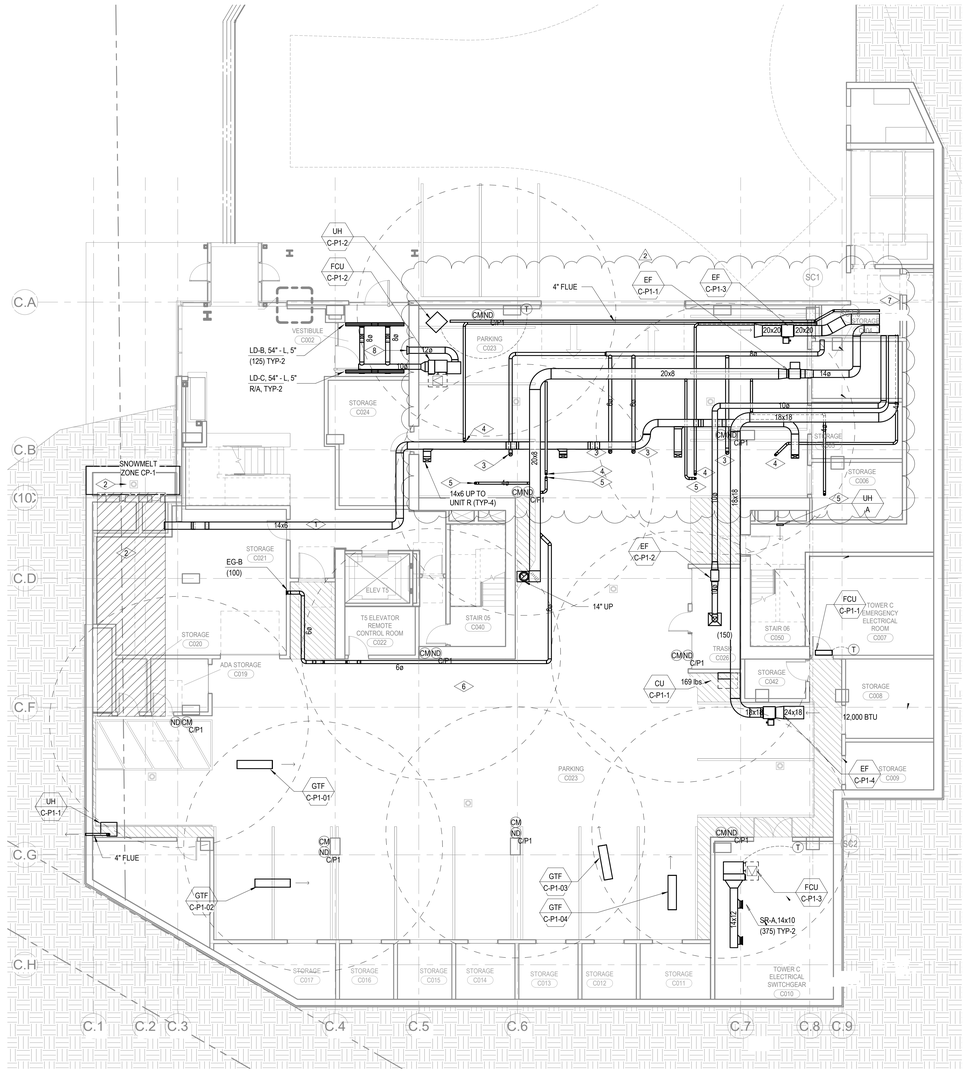
TOWER BC CONNECTOR - LVL 1 MECHANICAL PLAN

M2.2BC.11



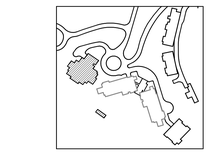
1 TOWER C - PARKING LEVEL MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT AS SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. UNLESS OTHERWISE NOTED, MEDIUM PRESSURE DUCT RUNOUTS TO TERMINAL BOXES SHALL BE THE SAME SIZE AS TERMINAL BOX INLET. DUCT RUNOUTS TO TERMINAL BOXES SHALL BE 2" LARGER THAN INLET IF RUNOUT IS GREATER THAN 15".
E. ALL DUCT BRANCHES LEADING TO DIFFUSERS ARE TO MATCH NECK SIZE OF DIFFUSER UNLESS NOTED OTHERWISE.

NUMBERED NOTES:

1 THIS SPACE TO MAINTAIN POSITIVE PRESSURE RELATIVE TO THE GARAGE.
2 SEE ARCHITECTURAL DRAWINGS FOR INTAKE WELL INFORMATION.
3 6" DUCT UP TO KITCHEN EXHAUST
4 4" DUCT UP TO DRYER EXHAUST
5 4" DUCT UP TO BATHROOM EXHAUST
6 ALL DUCTS AND EQUIPMENT LOCATED IN THE GARAGE SHALL BE INSTALLED TIGHT TO UNDERSIDE OF THE SLAB TO MAINTAIN 8'-6" CLEARANCES FOR VEHICLES.
7 PROTECT EXHAUST DUCT OPENING INTO WELL WITH WMS.
8 DISCHARGE AND/OR INTAKE - PROTECT OPENING WITH WMS.



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date 05/31/2024

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2 5/24/2024 IFC 3

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IFC Set 3 of 3

05/31/2024

TOWER C - LVL P1
MECHANICAL DUCT
PLAN

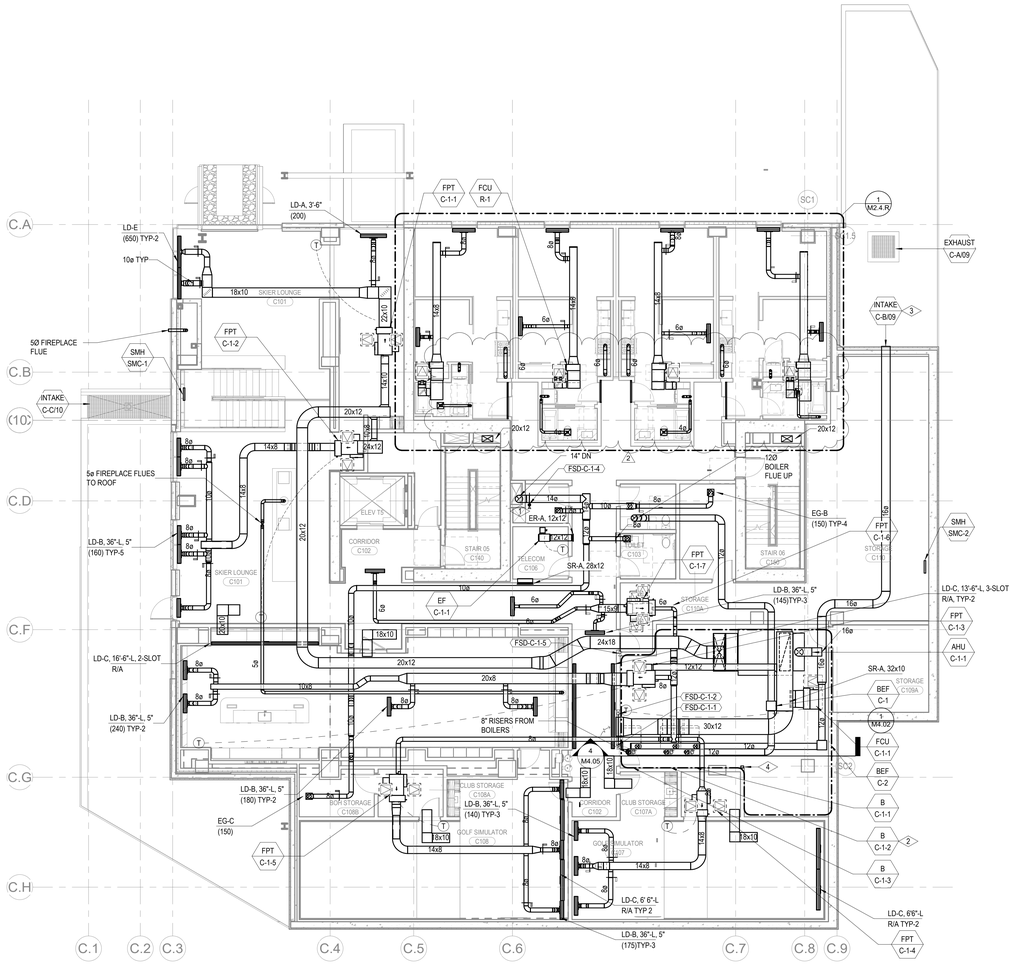
M2.2C.01

SHEET NOTES:

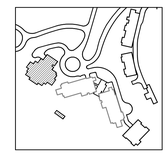
A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ARCHITECT SHALL PROVIDE 1.SQFT NFA OPENINGS IN ALL FULL HEIGHT, NON-RATED WALLS FOR RETURN AIR PATHS IF NO DUCT TRANSFER IS SHOWN.
E. ALL EQUIPMENT, INSULATION, WIRING, AND INFRASTRUCTURE IN THE PLENUM SHALL BE PLENUM RATED.
F. FLEX DUCT SHAL NOT BE INSTALLED ABOVE FINISHED HARD-LID CEILINGS.
G. PROVIDE BUTTON TYPE TEMPERATURE SENSOR IN PUBLIC AREAS. SEE DETAIL-13, SHEET M5.04
H. PROVIDE REMOTE CABLE DAMPER OPERATOR IN DIFFUSERS ABOVE HARD-LID CEILINGS. SEE DETAIL-9, SHEET M5.04

NUMBERED NOTES:

1 DUCT RISERS SHALL BE ROUTED IN RATED SHAFT
2 PROVIDE ENERVEX SMDS-8 MODULATING DAMPER OFF BOILER EXHAUST STACK WITH 120V/1PH ELECTRICAL POWER.
3 PROTECT INTAKE DUCT OPENING INTO LOUVER WITH WMS
4 PROVIDE MODULATING PRESSURE CONTROLLER WITH 120V/1PH ELECTRICAL POWER.



1 TOWER C - LEVEL 1 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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05/31/2024

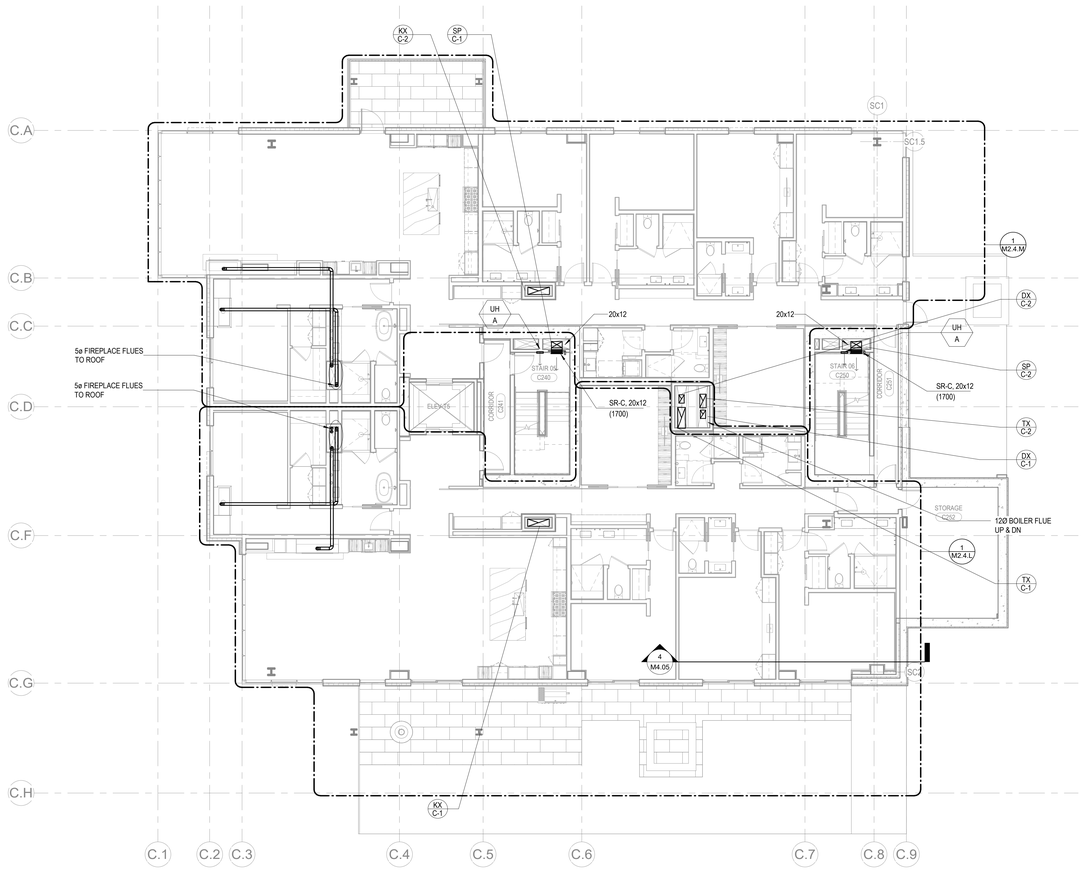
TOWER C - LVL 1 MECHANICAL DUCT PLAN

M2.2C.11

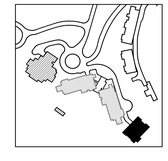
SHEET NOTES:

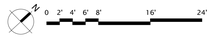
A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

(#) **NUMBERED NOTES:**



1 TOWER C - LEVEL 2 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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no.	date	by

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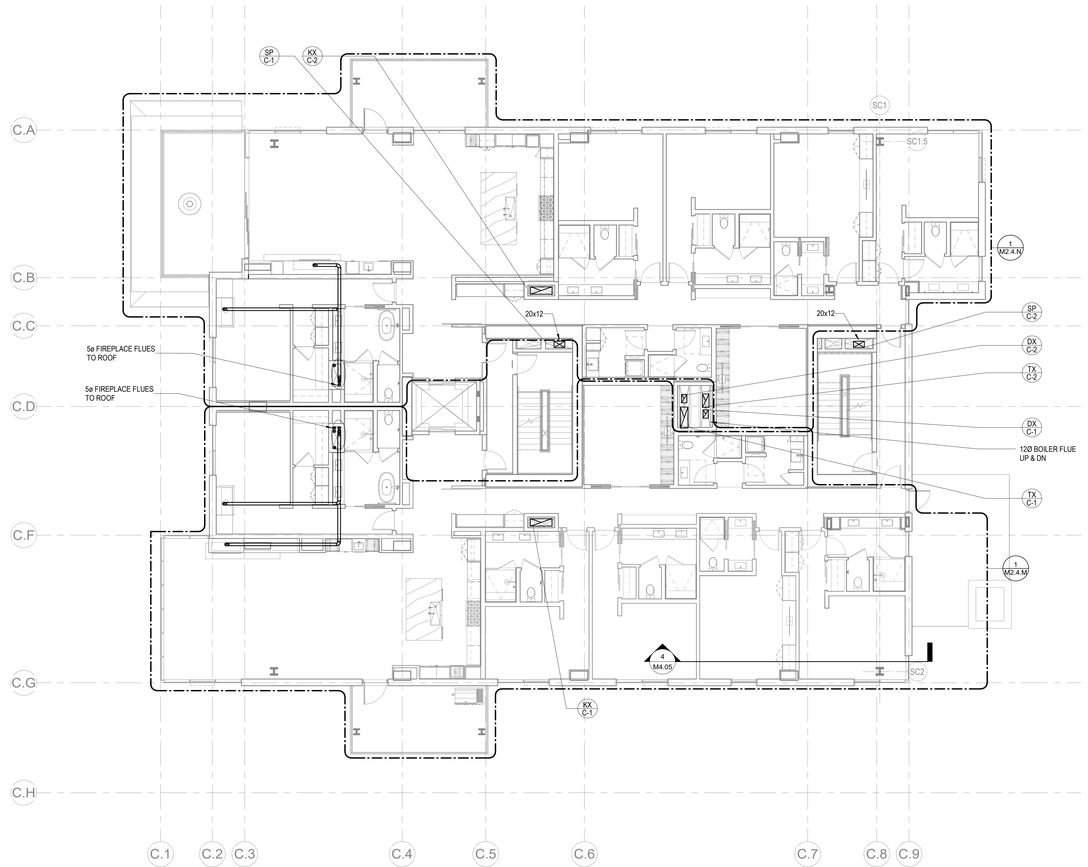
05/17/2024

TOWER C - LVL 2 MECHANICAL DUCT PLAN

M2.2C.12



1 TOWER C - LEVEL 3 MECHANICAL DUCT PLAN

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

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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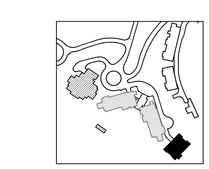
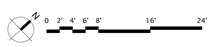
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

NUMBERED NOTES:





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date 05/17/2024

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05/17/2024

TOWER C - LVL 3 MECHANICAL DUCT PLAN

M2.2C.13

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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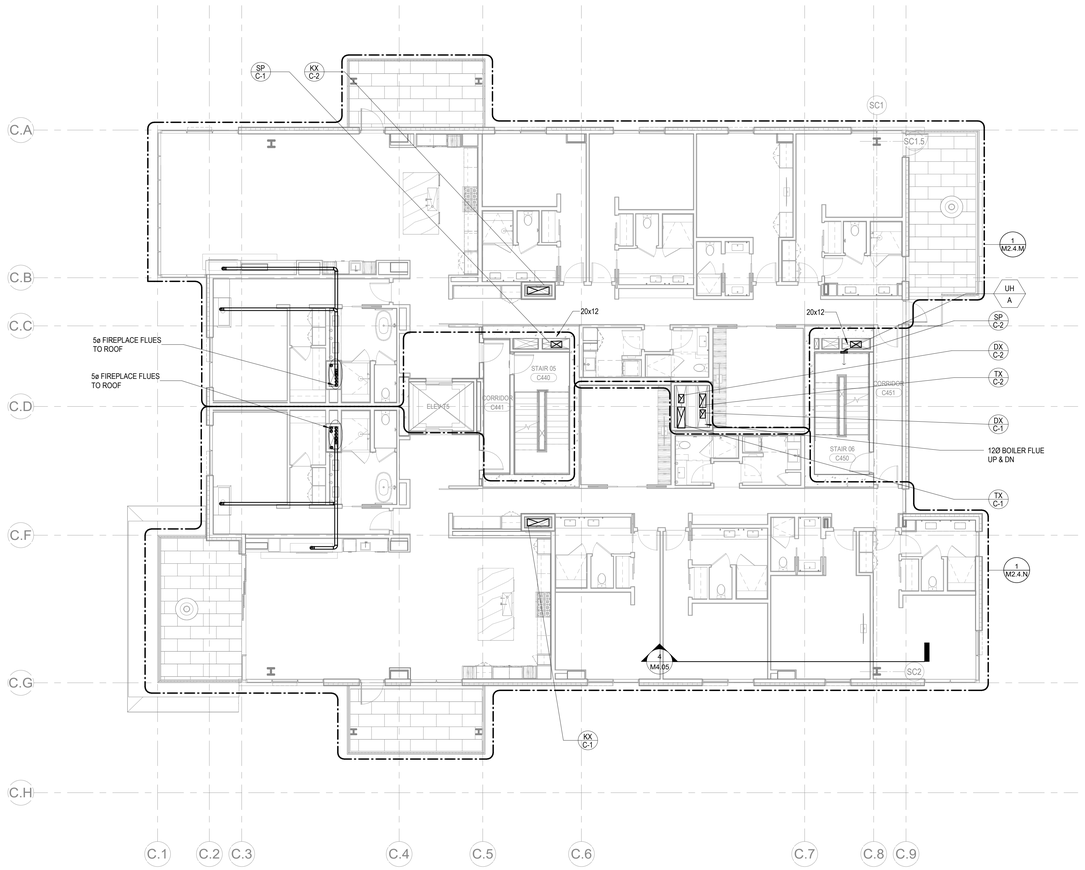
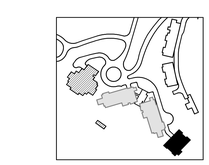
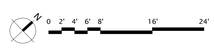
(#) **NUMBERED NOTES:**



1 TOWER C - LEVEL 4 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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TOWER C - LVL 4 MECHANICAL DUCT PLAN

M2.2C.14

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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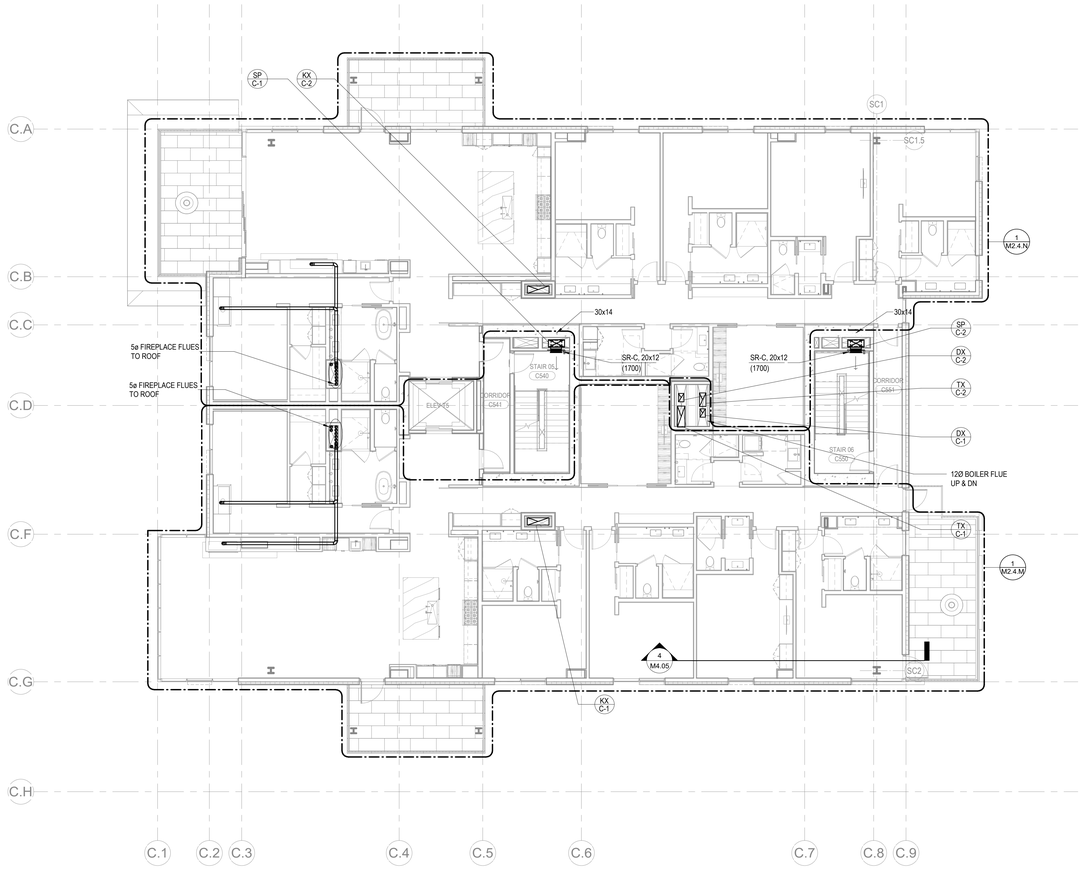
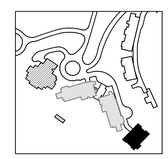
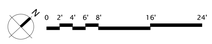
NUMBERED NOTES:



1 TOWER C - LEVEL 5 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"





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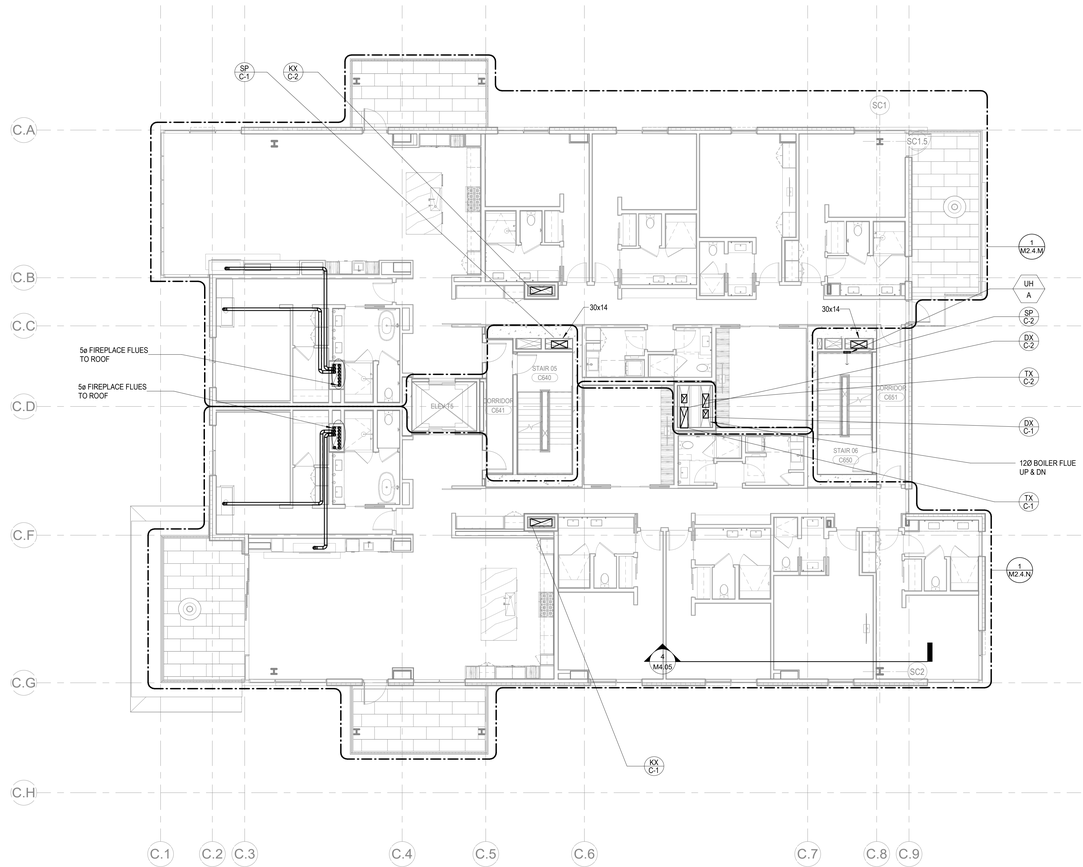
05/17/2024

TOWER C - LVL 5
MECHANICAL DUCT
PLAN

M2.2C.15



1 TOWER C - LEVEL 6 MECHANICAL DUCT PLAN

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

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
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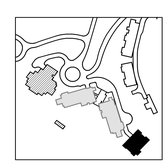
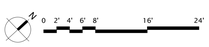
(#) **NUMBERED NOTES:**





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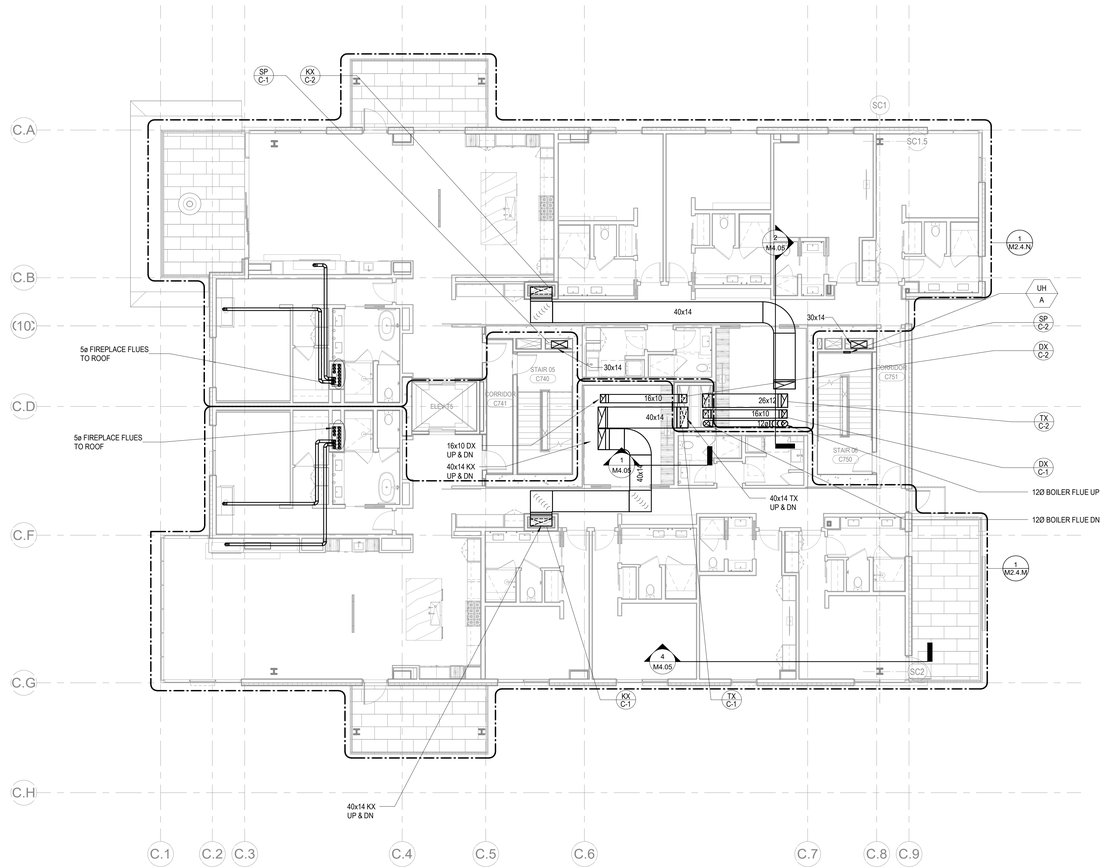
TOWER C - LVL 6 MECHANICAL DUCT PLAN

M2.2C.16



1 TOWER C - LEVEL 7 MECHANICAL DUCT PLAN

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

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
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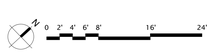
NUMBERED NOTES:



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TOWER C - LVL 7 MECHANICAL DUCT PLAN

M2.2C.17

SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
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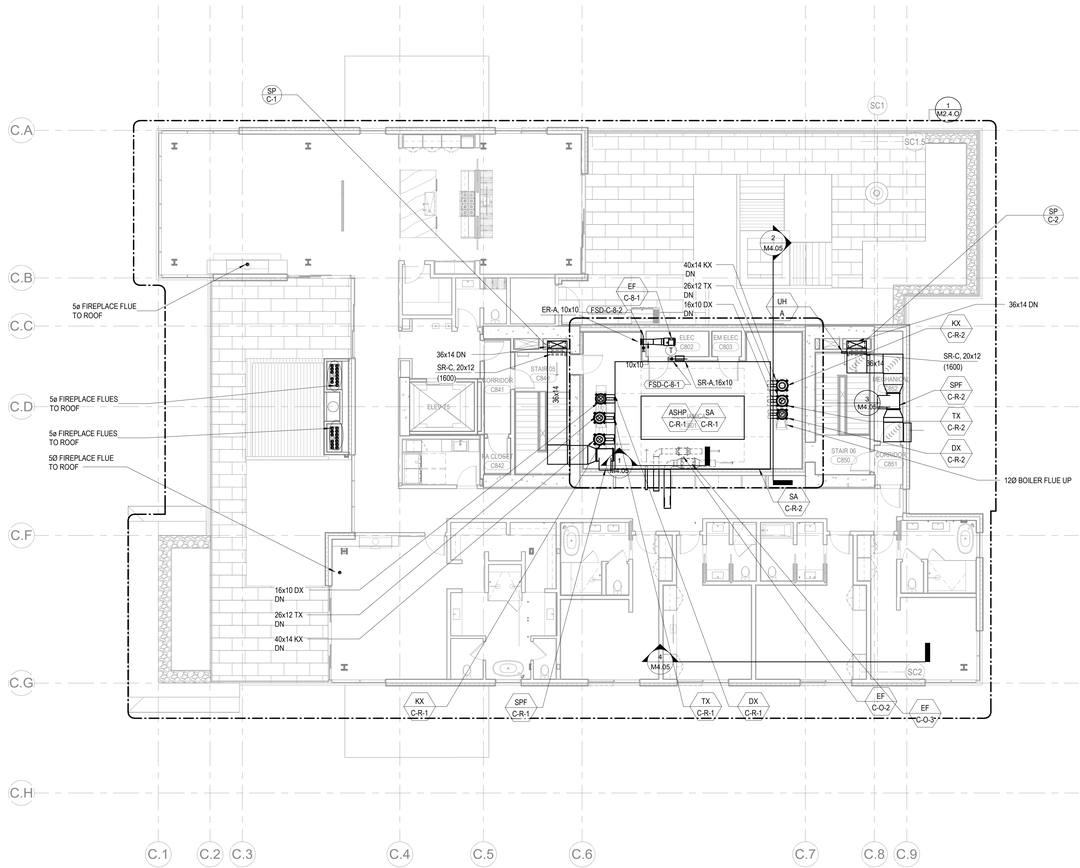
D. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.

(#) **NUMBERED NOTES:**



1 TOWER C - LEVEL 8 MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

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principal architect
project manager
drawn by
checked by Checker
job no.
date 05/17/2024

revisions:

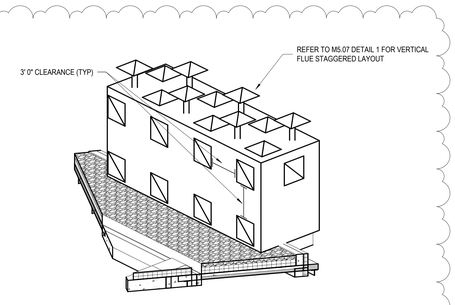
no. date by

IFC Set 2 of 3
05/17/2024

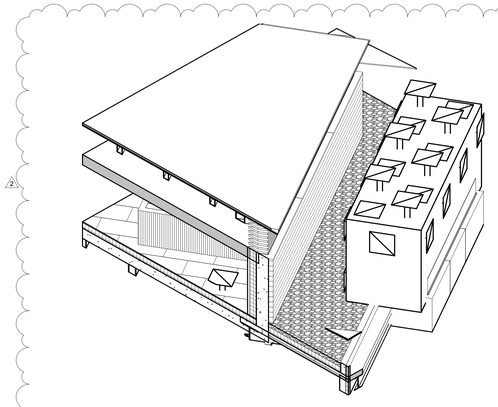
N 0 2' 4' 6' 8' 16' 24'

TOWER C - LVL 8 MECHANICAL DUCT PLAN

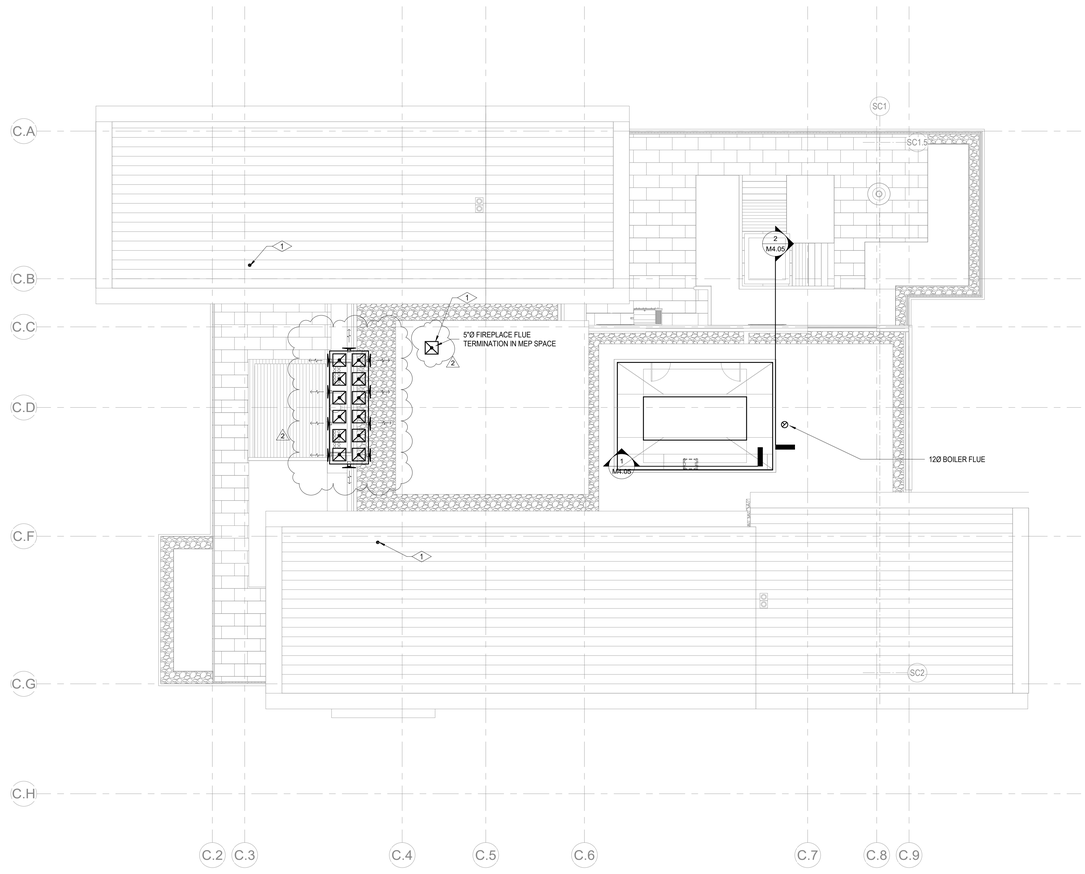
M2.2C.18



3 TOWER C FLUE TERMINATIONS - ORTHOGRAPHIC 2
SCALE:



2 TOWER C FLUE TERMINATIONS - ORTHOGRAPHIC 1
SCALE:



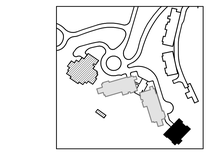
1 TOWER C - ROOF MECHANICAL DUCT PLAN
SCALE: 1/8" = 1'-0"

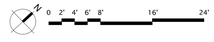
SHEET NOTES:

A. REFER TO M2.4 SERIES FOR ENLARGED UNIT PLANS.
B. FIREPLACE FLUE ROUTING SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR ROUTING AND SIZING DETAIL.
C. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE. REFER TO ENLARGED UNIT PLANS FOR DETAIL.

NUMBERED NOTES:

1 5'0 FIREPLACE FLUE TERMINATION TO BE CAPPED WITH ORTAL VERTICAL POWER VENT PER M5.07 DETAIL 7.





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project manager _____
drawn by _____
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checked by Checker
job no.
date 05/31/2024

revisions:

2 5/24/2024 IFC 3

no. date by

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05/31/2024

TOWER C - ROOF MECHANICAL DUCT PLAN

M2.2C.R

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCPS AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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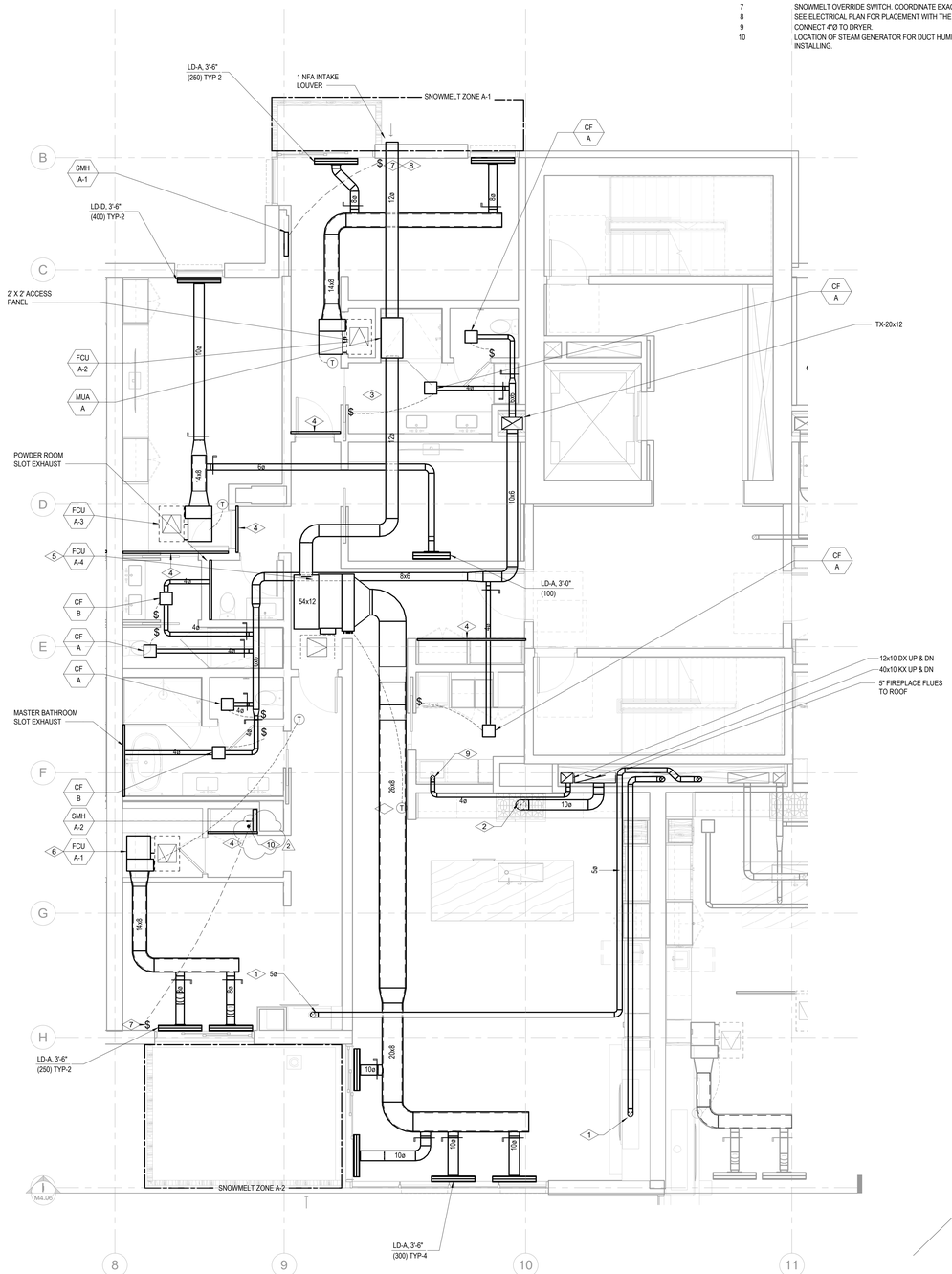
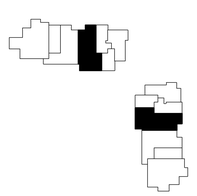
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
8 SEE ELECTRICAL PLAN FOR PLACEMENT WITH THE DECK LIGHT SWITCH.
9 CONNECT 4"Ø TO DRYER.
10 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT A
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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project manager _____
drawn by _____
checked by Checker
job no.
date 5/31/2024

revisions:

no.	date	by
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT A

M2.4.A

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRETY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 2" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

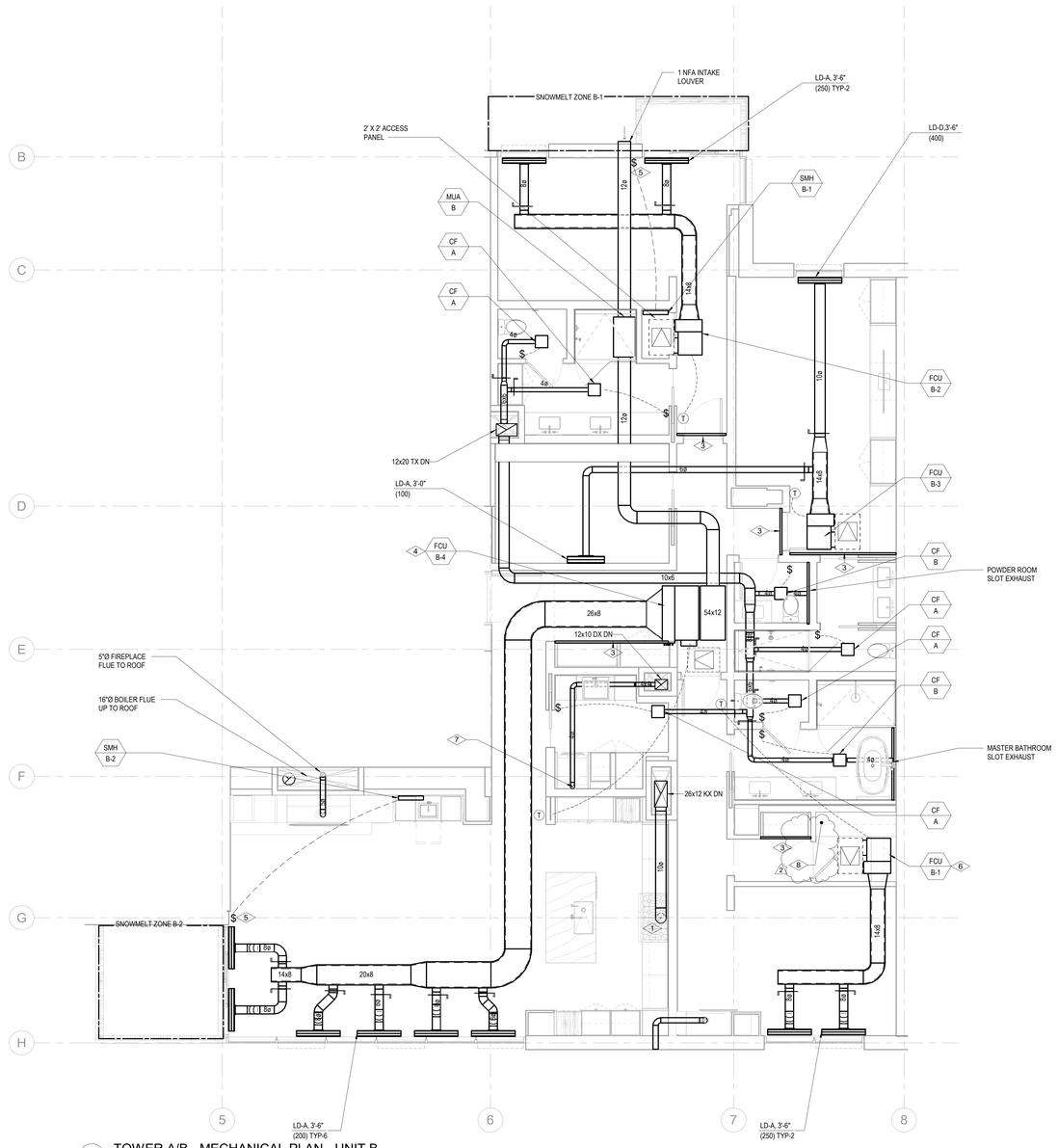
5 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

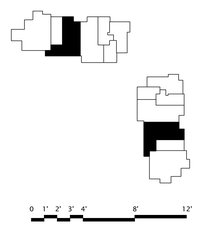
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT B
SCALE: 1/4" = 1'-0"



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revisions:

2 5/31/2024 IFC 3

no. date by

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5/31/2024

ENLARGED MECHANICAL PLAN - UNIT B

M2.4.B

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

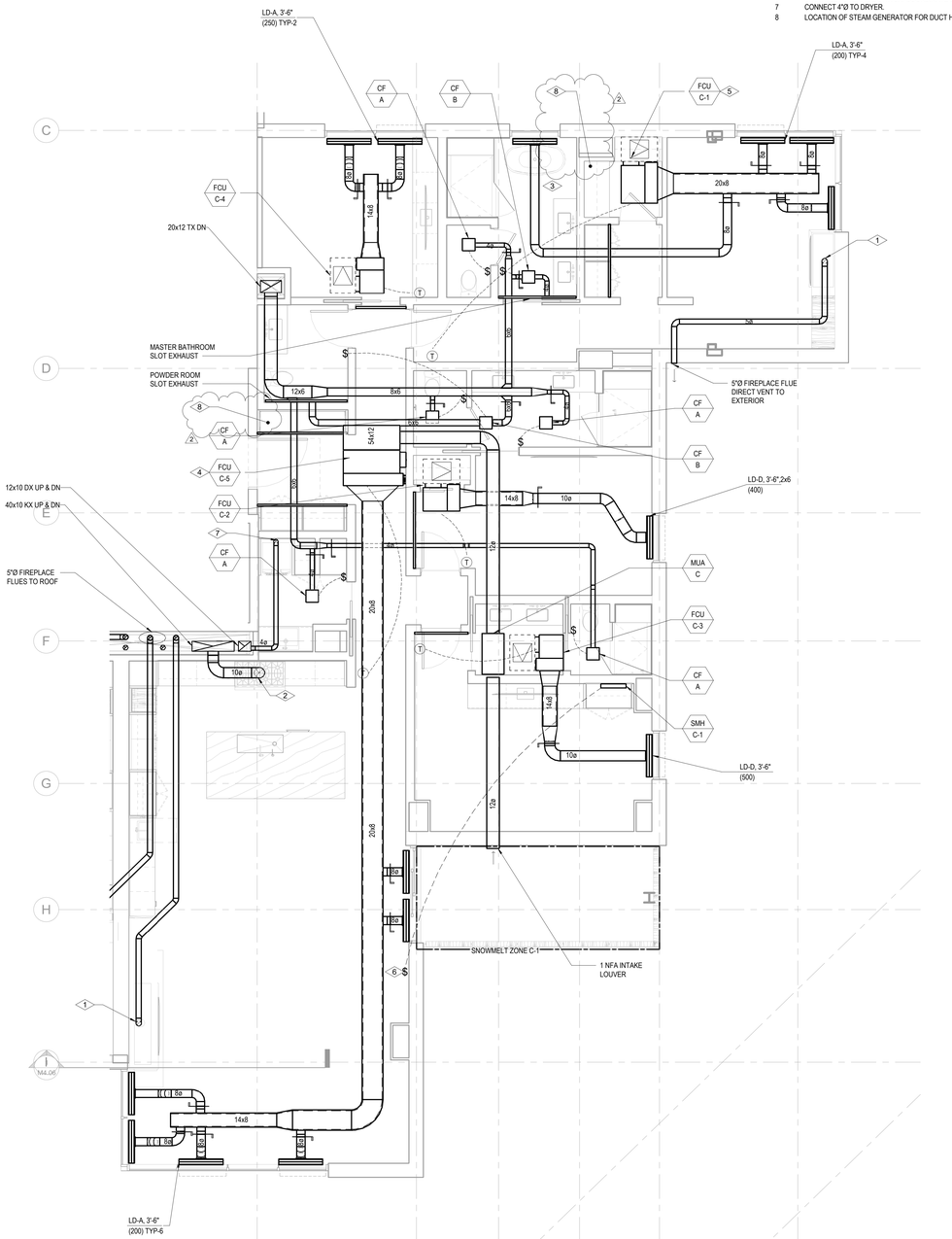
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

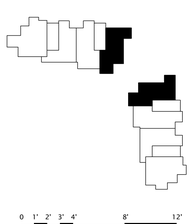
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT C
SCALE: 1/4" = 1'-0"



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project manager
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no. date by

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ENLARGED MECHANICAL PLAN - UNIT C

M2.4.C

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 160 POWERVENT (120V/15A).
2 RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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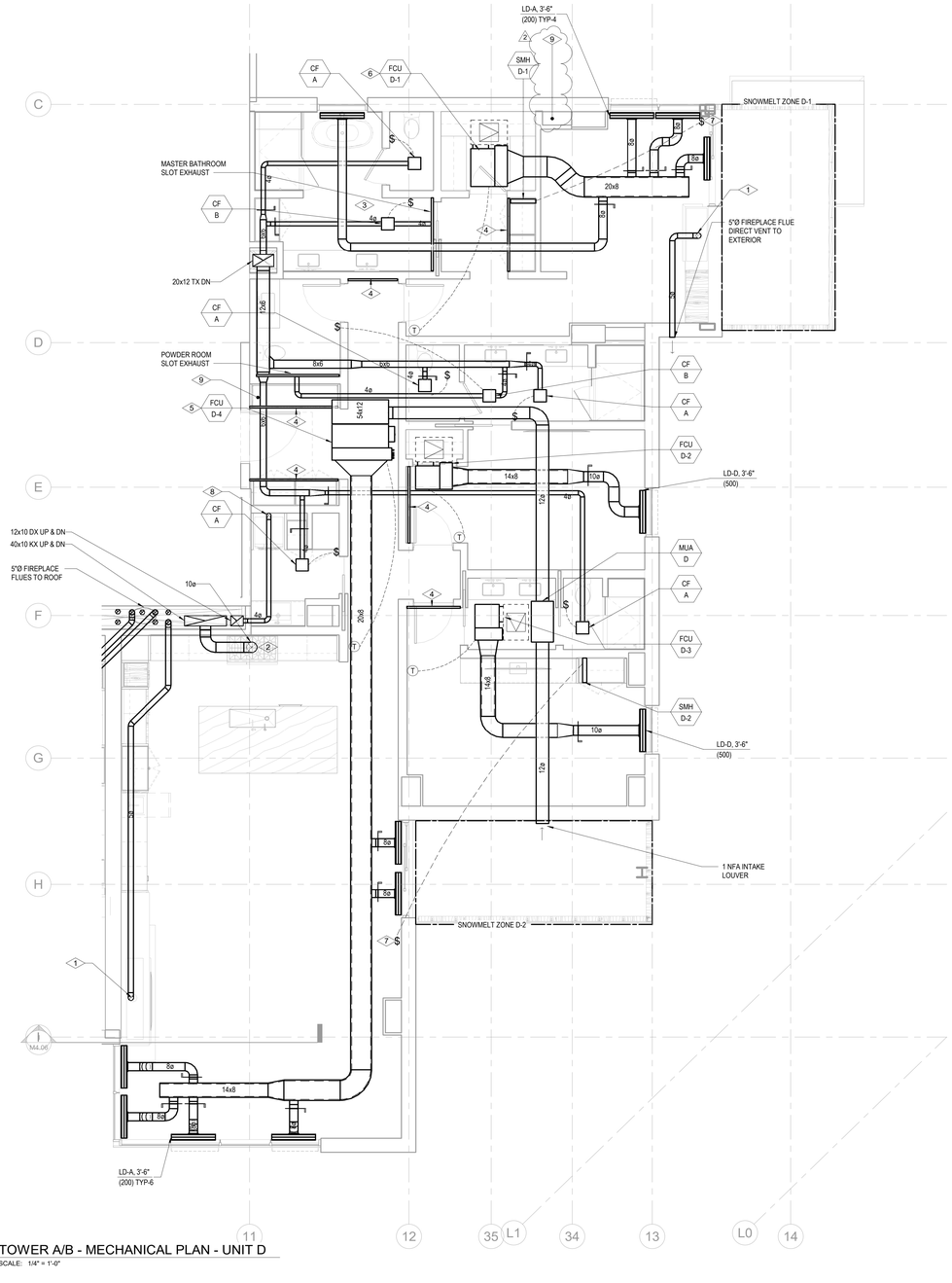
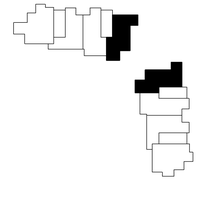
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT D
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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date 5/31/2024

revisions:

no.	date	by
2	5/31/2024	IFC 3

IFC Set 3 of 3
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT D

M2.4.D

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

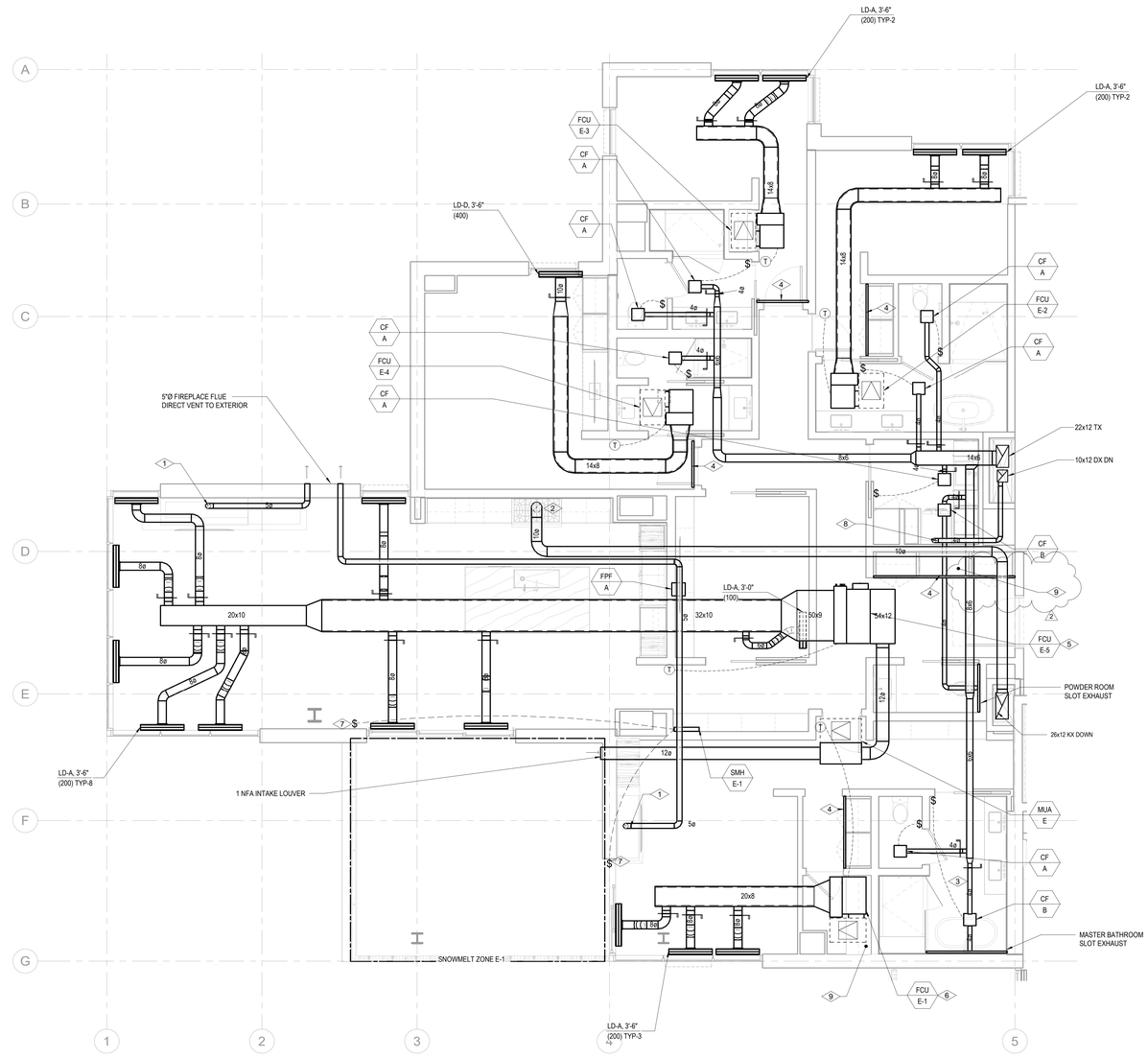
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

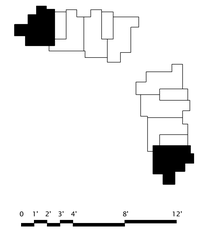
REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT E
SCALE: 1/4" = 1'-0"



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2	5/31/2024	IFC 3

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5/31/2024

ENLARGED MECHANICAL PLAN - UNIT E

M2.4.E

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

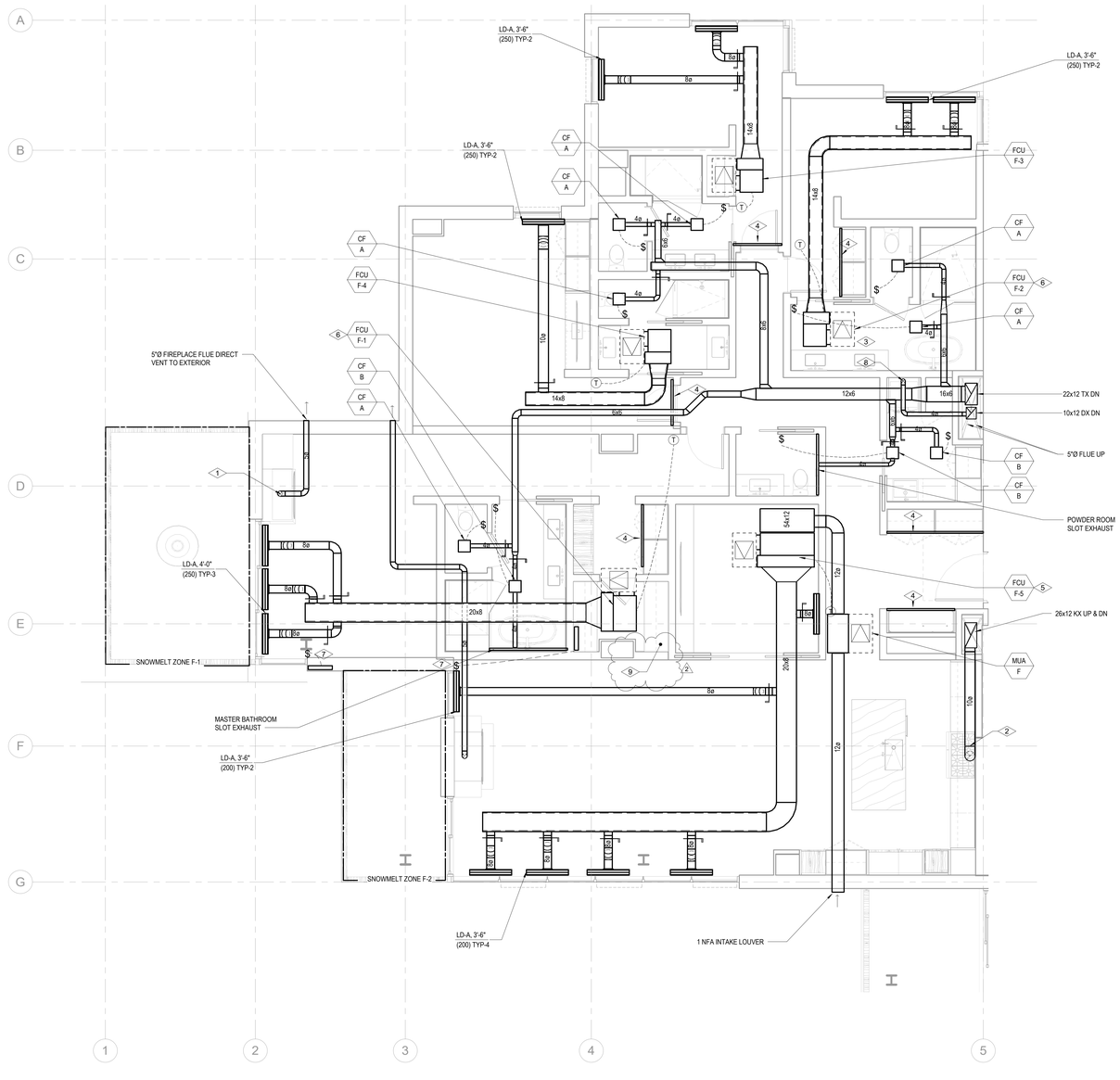
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

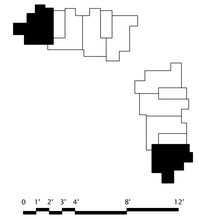
REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT F
SCALE: 1/4" = 1'-0"



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revisions:

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5/31/2024

ENLARGED MECHANICAL PLAN - UNIT F

M2.4.F

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5'Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 2" RETURN AIR SLOT
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

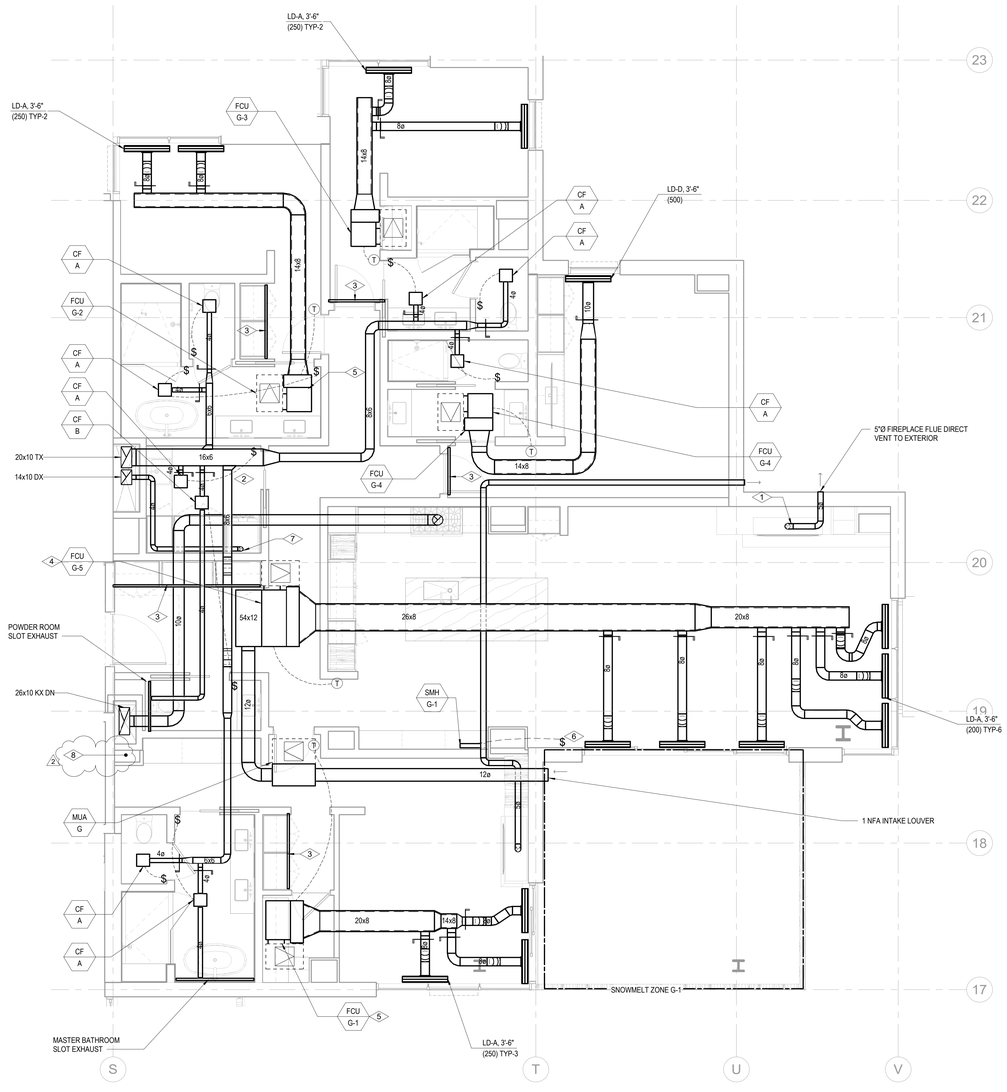
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

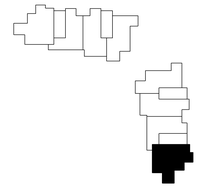
REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
6 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
7 CONNECT 4"Ø TO DRYER.
8 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT G
SCALE: 1/4" = 1'-0"



0 2' 4' 6' 8' 16' 24'

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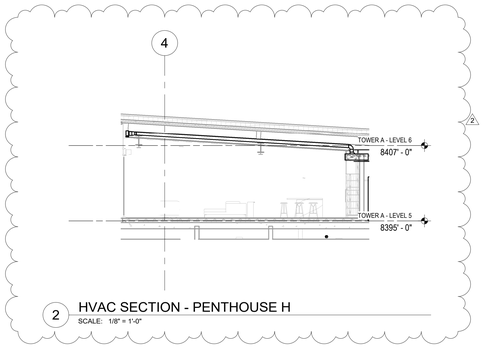
ENLARGED MECHANICALPLAN - UNIT G

M2.4.G



2 HVAC SECTION - PENTHOUSE H
SCALE: 1/8" = 1'-0"

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

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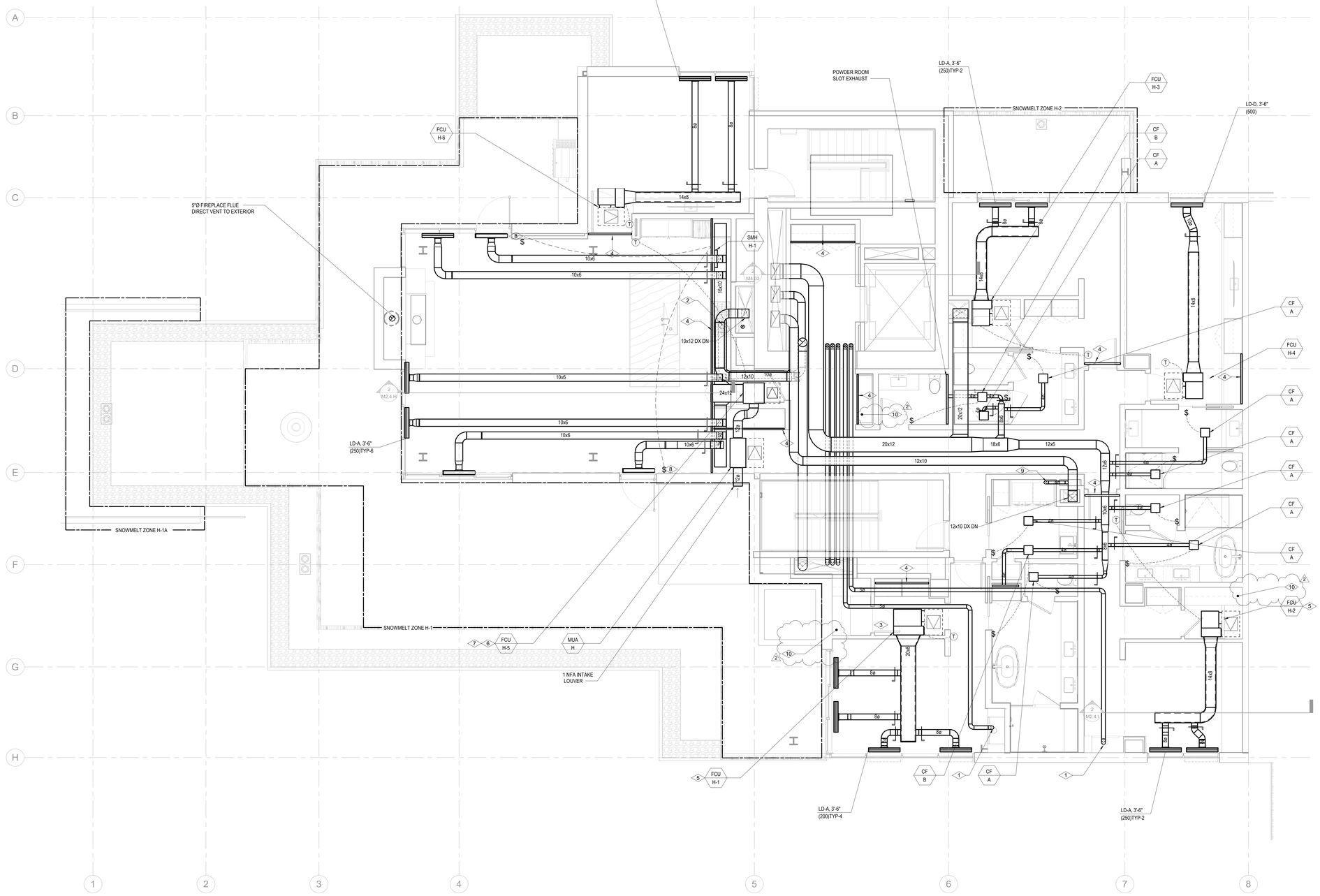
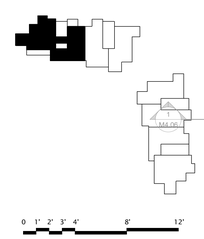
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB
8 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
9 CONNECT 4"Ø TO DRYER.
10 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B -MECHANICAL PLAN - UNIT H
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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revisions:

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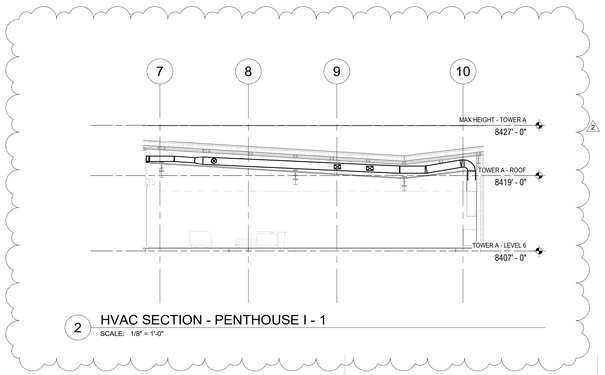
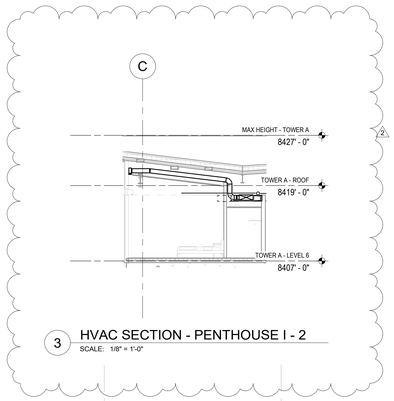
ENLARGED MECHANICAL PLAN - UNIT H

M2.4.H



2 HVAC SECTION - PENTHOUSE I - 1
SCALE: 1/8" = 1'-0"



3 HVAC SECTION - PENTHOUSE I - 2
SCALE: 1/8" = 1'-0"

SHEET NOTES:

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B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

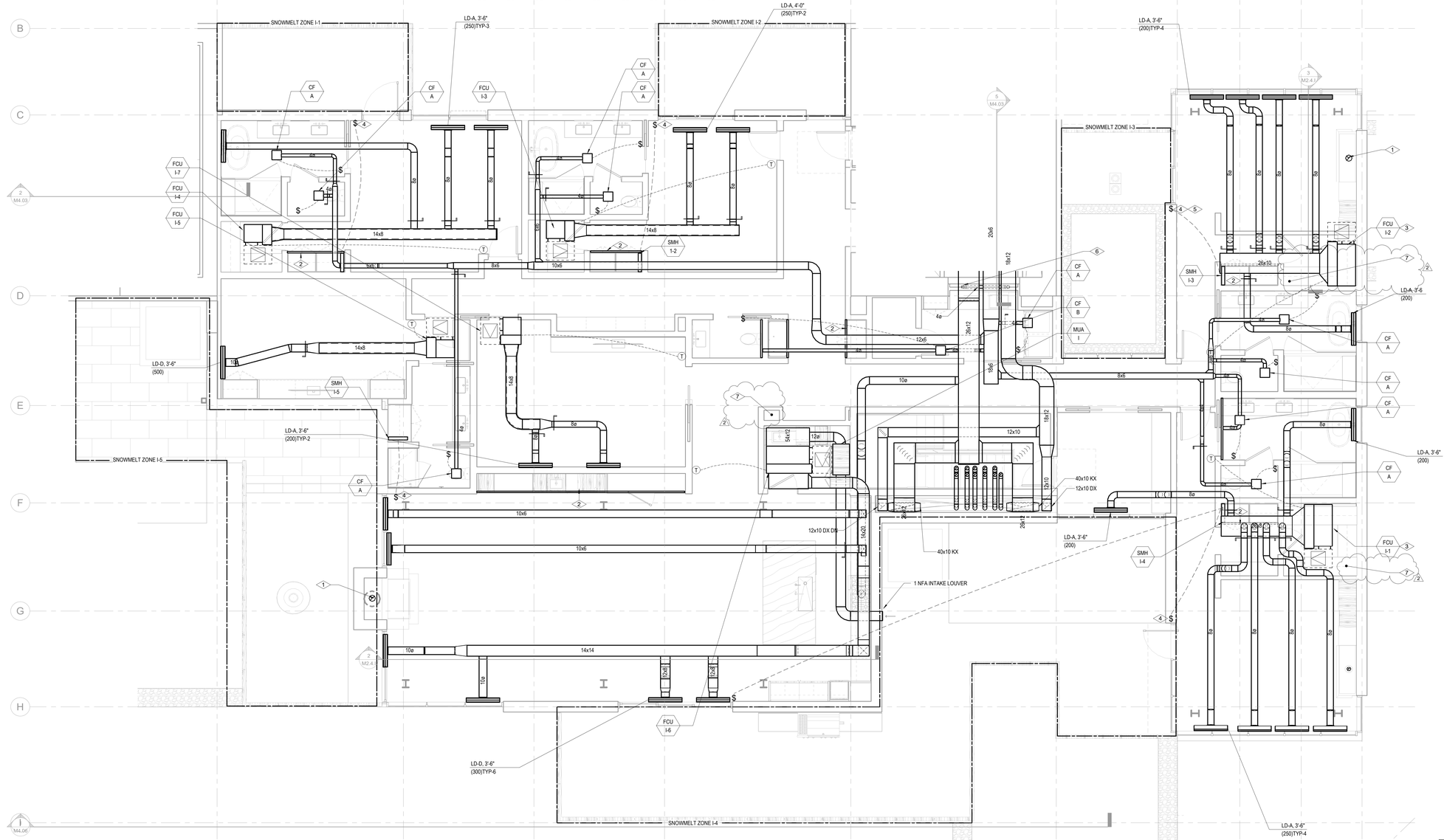
1 5'Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 2" RETURN AIR SLOT
3 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/I & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

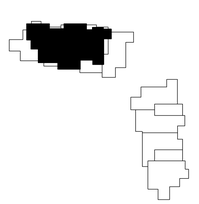
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
4 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
5 SEE ELECTRICAL PLAN FOR PLACEMENT WITH THE DECK LIGHT SWITCH.
6 CONNECT 4"Ø TO DRYER.
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0



1 TOWER A/B - MECHANICAL PLAN - UNIT I
SCALE: 1/4" = 1'-0"



0 1' 2' 3' 4' 8' 12'

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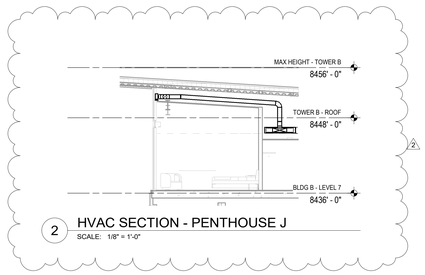
5/31/2024

ENLARGED MECHANICAL PLAN - UNIT I

M2.4.I



2 HVAC SECTION - PENTHOUSE J

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

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 5'0 CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
3 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 120(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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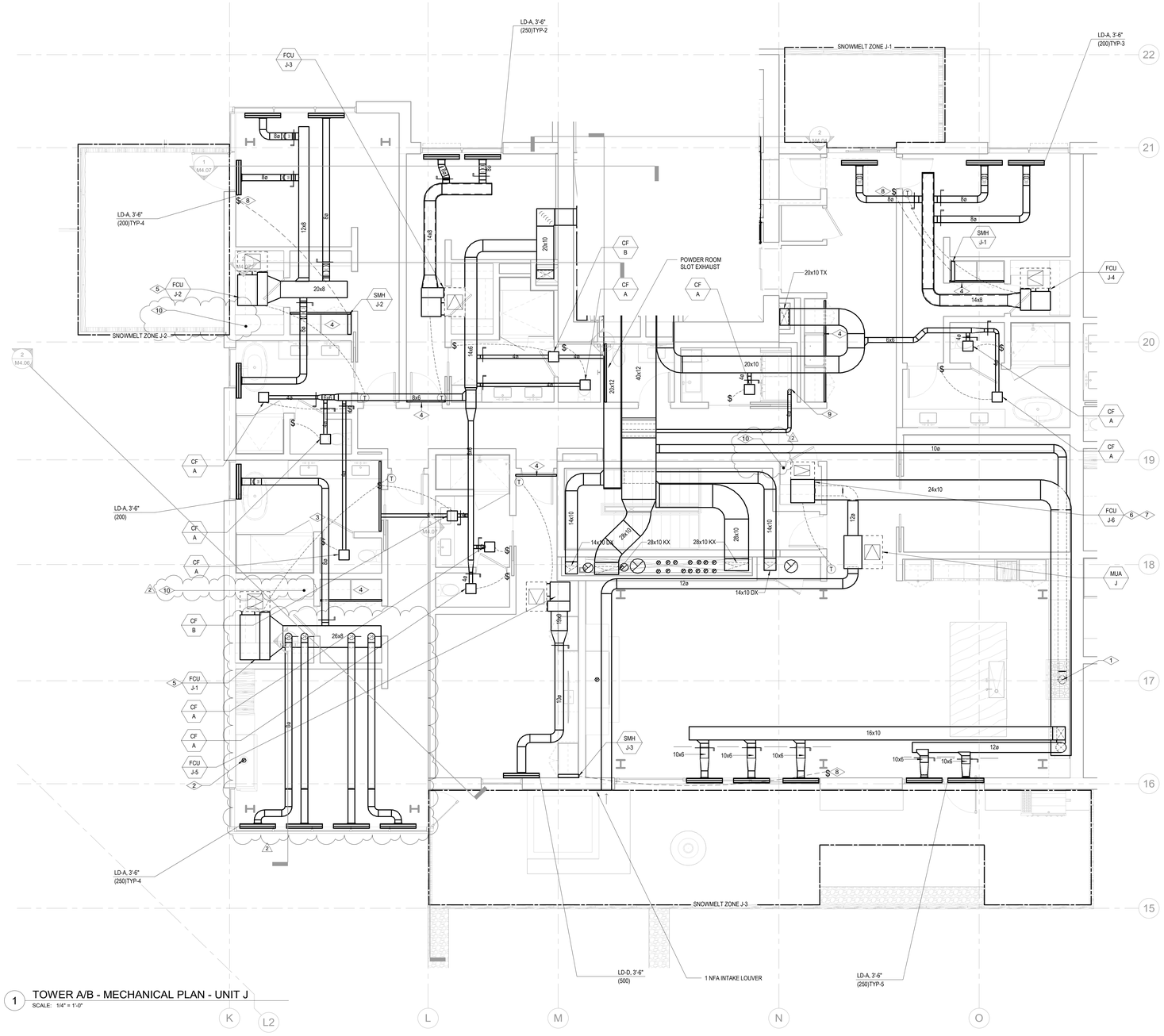
0	4	6	8	7	9	8	0

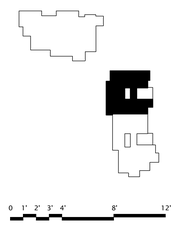
CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 VERTICAL FAN COIL UNIT
8 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
9 CONNECT 4"Ø TO DRYER.
10 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATON WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT J

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



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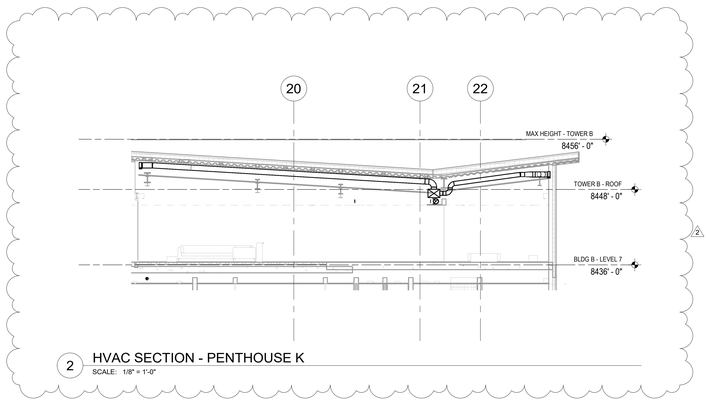
ENLARGED MECHANICAL PLAN - UNIT J

M2.4.J



2 HVAC SECTION - PENTHOUSE K

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

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 208(16A)1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

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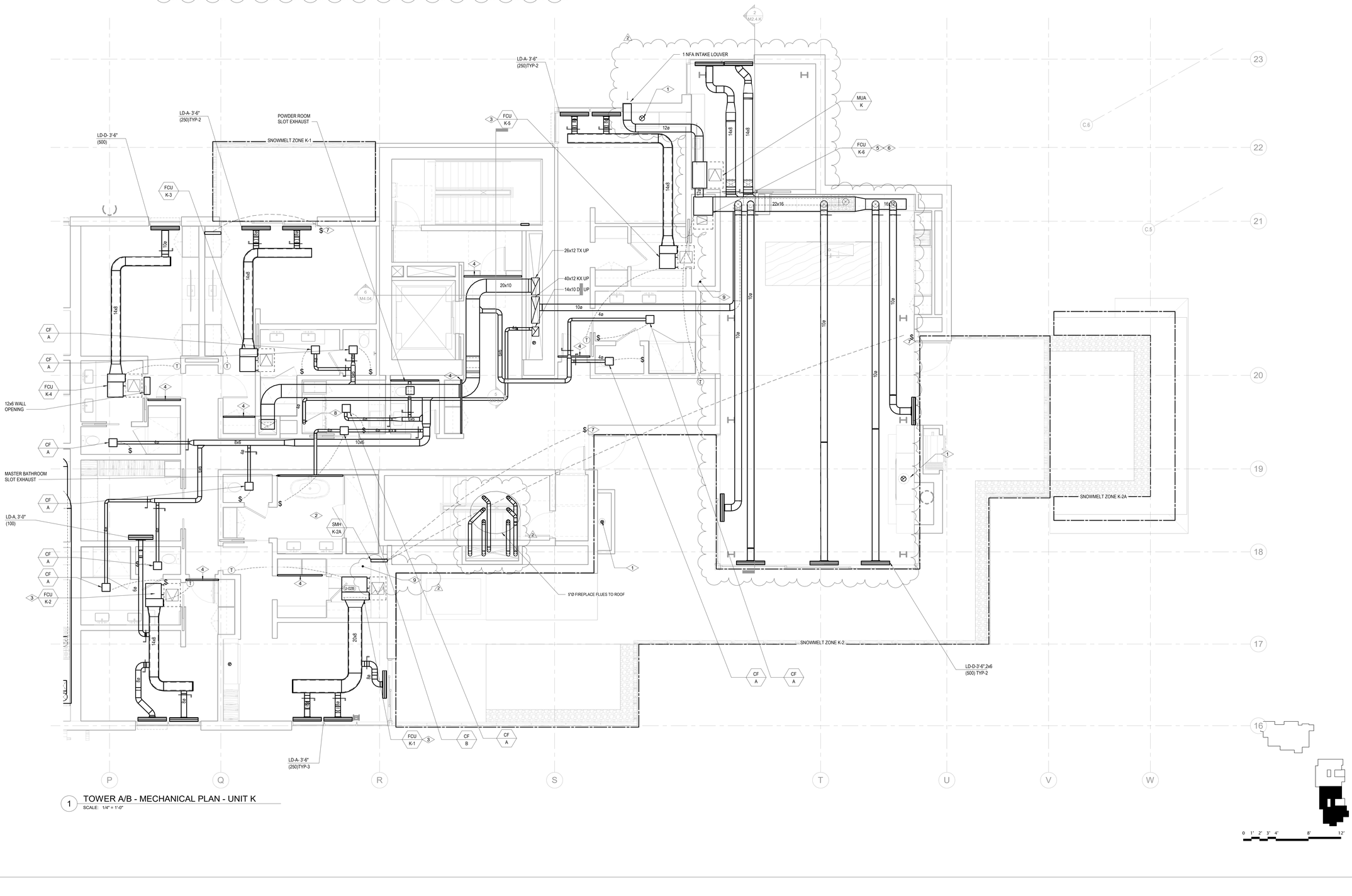
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 VERTICAL FAN COIL UNIT
7 SNOWMELT OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH ARCHITECT.
8 CONNECT 4"Ø TO DRYER.
9 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT K

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

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revisions:

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5/31/2024

ENLARGED MECHANICAL PLAN - UNIT K

M2.4.K

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.

2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.

3 2" RETURN AIR SLOT

4 1" RETURN AIR SLOT

5 5'Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).

6 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

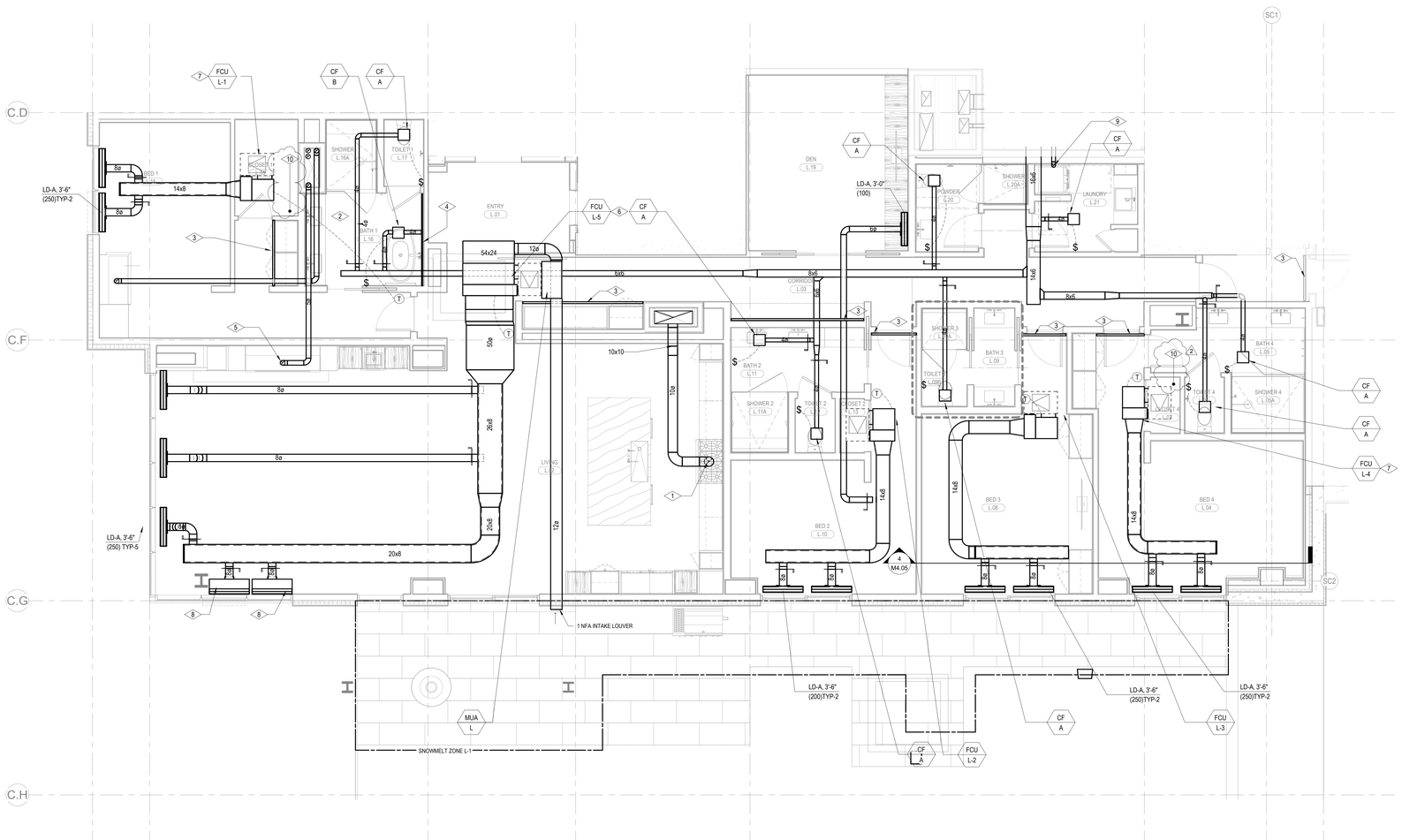
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

8 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB

9 CONNECT 4"Ø TO DRYER.

10 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT



1 BLDG C - MECHANICAL UNIT PLAN - L
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

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05/31/2024

ENLARGED MECHANICAL PLAN - UNIT L

M2.4.L

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SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
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E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).

2 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.

3 2" RETURN AIR SLOT

4 1" RETURN AIR SLOT

5 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.

6 OWNER OPTION: PROVIDE 208/164/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

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CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

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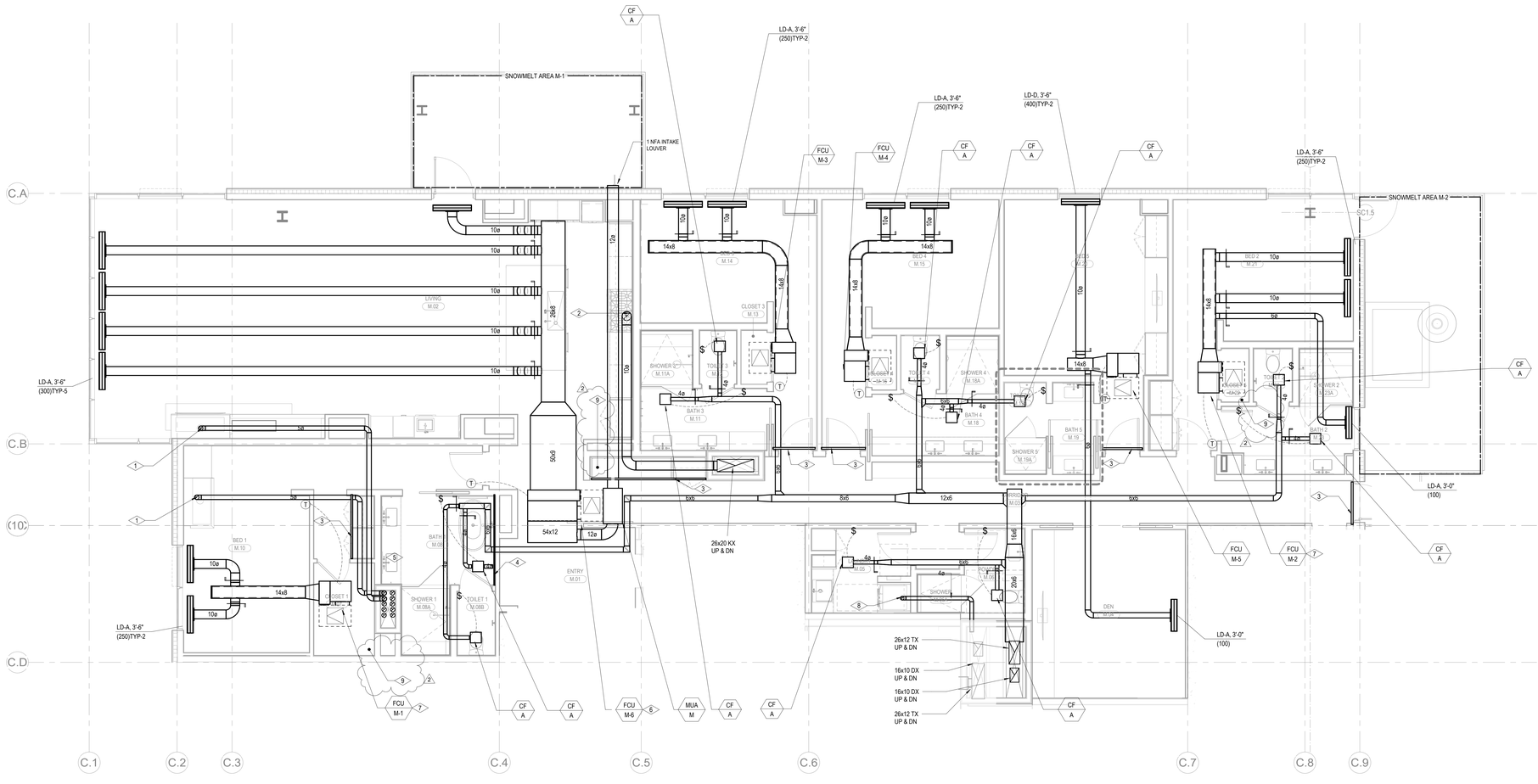

1 BLDG C - MECHANICAL UNIT PLAN - M
SCALE: 1/4" = 1'-0"

ENLARGED MECHANICAL PLAN - UNIT M

M2.4.M

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SHEET NOTES:

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E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.

2 2" RETURN AIR SLOT

3 1" RETURN AIR SLOT

4 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.

5 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).

6 OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

7 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

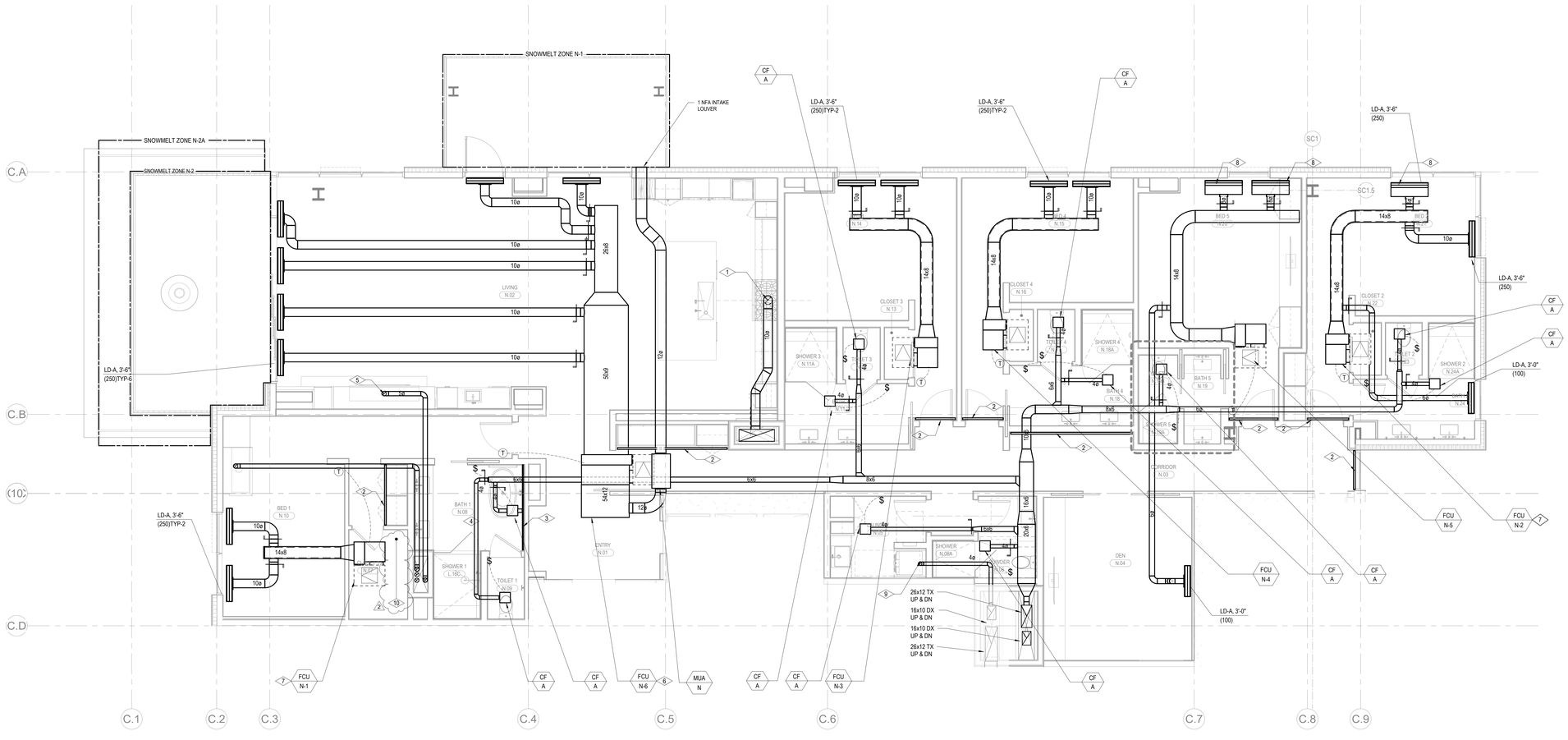
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

8 FLAT DIFFUSERS TO FIT BENEATH LOWERED SLAB

9 CONNECT 4"Ø TO DRYER.

10 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT



1 BLDG C - MECHANICAL UNIT PLAN - N
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

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05/31/2024

ENLARGED MECHANICAL PLAN - UNIT N

M2.4.N

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1. 5"Ø CONCENTRIC FLUE TO GAS FIREPLACE. PROVIDE ORTAL IN-LINE 180 POWERVENT (120V/15A).
2. RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
3. PROVIDE APRILAIRE 800 HUMIDIFIER. ASSUME 1/2" CW, 3/4" CD TO NEAREST SINK TAILPIECE, AND 120/1 ELECTRICAL CONNECTION
4. 2" RETURN AIR SLOT
5. OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

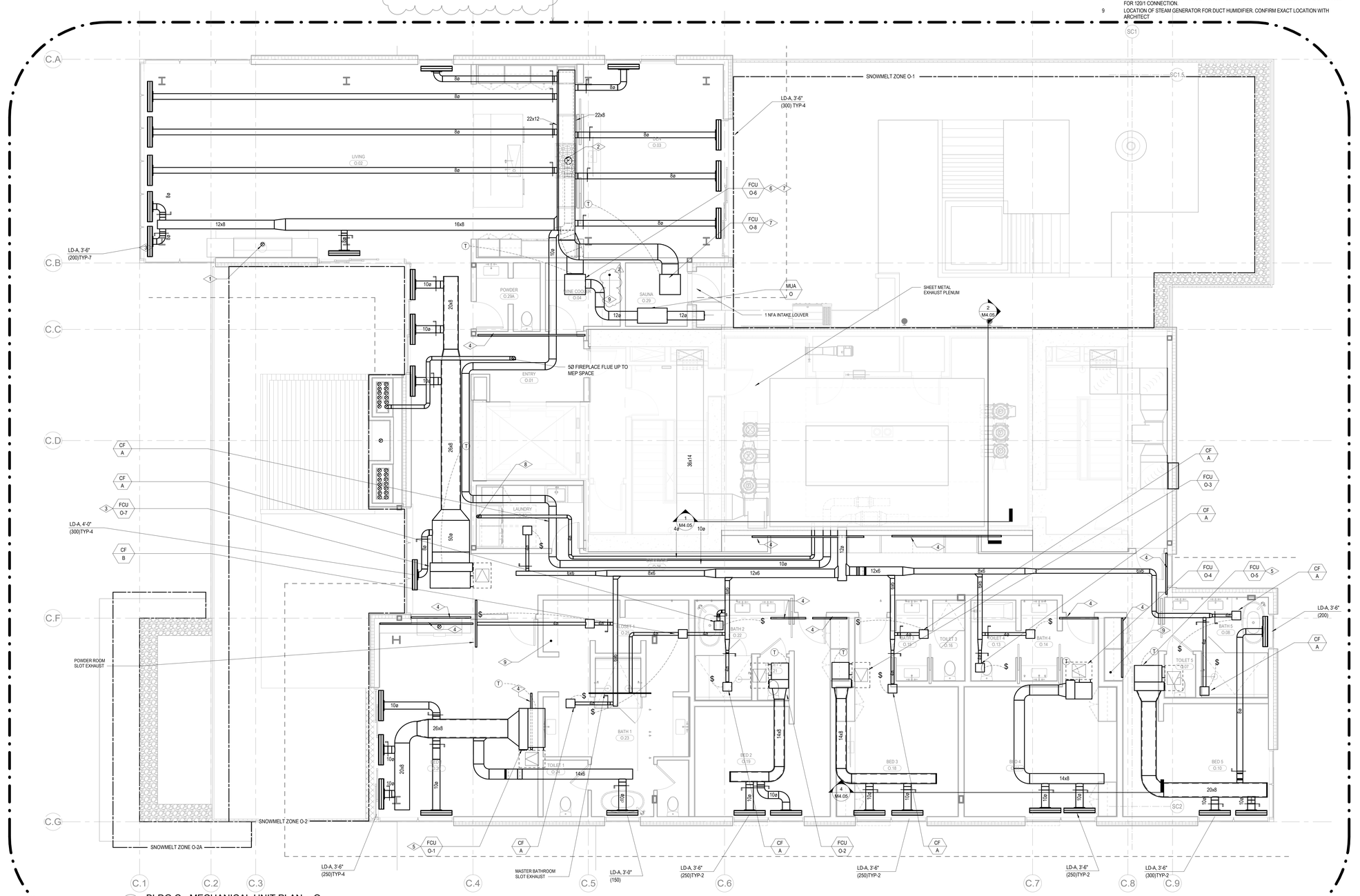
   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
6. OWNER OPTION: PROVIDE 208/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

   REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

   CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
7. VERTICAL FAN COIL UNIT
8. CONNECT 4"Ø TO DRYER. PROVIDE FANTECH DBF110 BOOSTER FAN. SEE ELECTRICAL DRAWINGS FOR 120/1 CONNECTION.
9. LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT

UNIT O TO BE FINALIZED IN FUTURE SUBMISSION



1 BLDG C - MECHANICAL UNIT PLAN - O
SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 8' 12'

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05/31/2024

ENLARGED MECHANICAL PLAN - UNIT O

M2.4.O

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 OWNER OPTION: PROVIDE 208(16A)1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

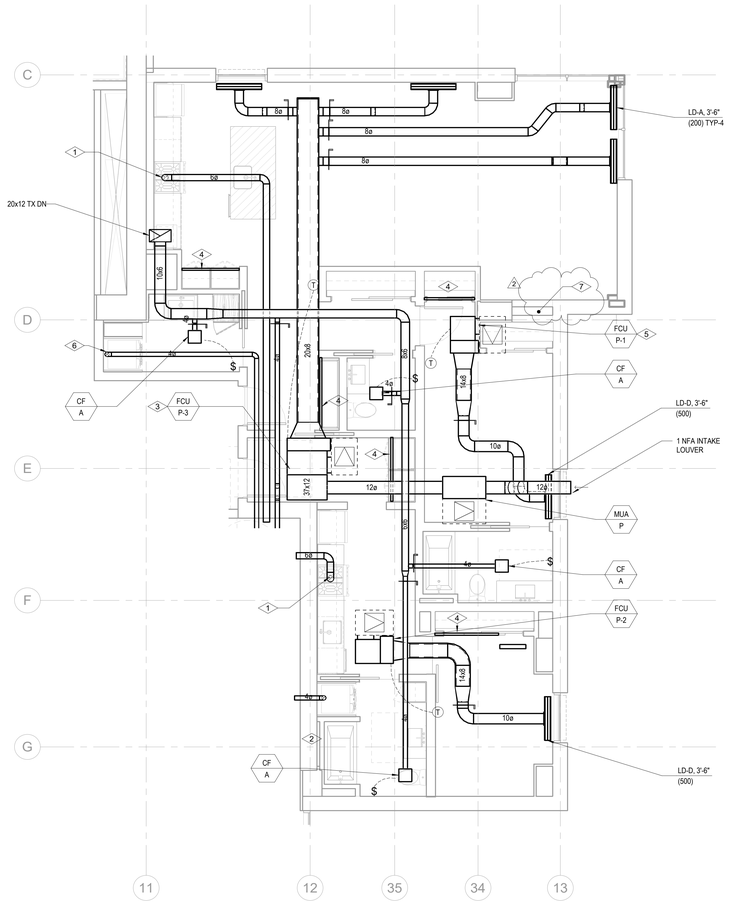
4 2" RETURN AIR SLOT
5 OWNER OPTION: PROVIDE 120(16A)1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

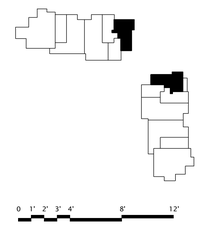
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.

6 CONNECT 4"Ø TO DRYER.
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT P
SCALE: 1/4" = 1'-0"



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5/31/2024

ENLARGED MECHANICAL DUCT PLAN - UNIT P

M2.4.P

SHEET NOTES:

A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWSR PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITIY OF MAIN DUCT RUN OFF FAN COIL.
E. ALL RESIDENTIAL TOILET EXHAUST, DRYER EXHAUST, AND KITCHEN RANGE HOOD EXHAUST TO BE PART OF A SUB-DUCT EXHAUST SYSTEM.
F. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST SINK TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHUAST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 ELECTRICAL RADIANT FLOOR TO BE PROVIDED IN MASTER BATHROOM. SEE ELECTRICAL DRAWINGS.
3 OWNER OPTION: PROVIDE 120/16A/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

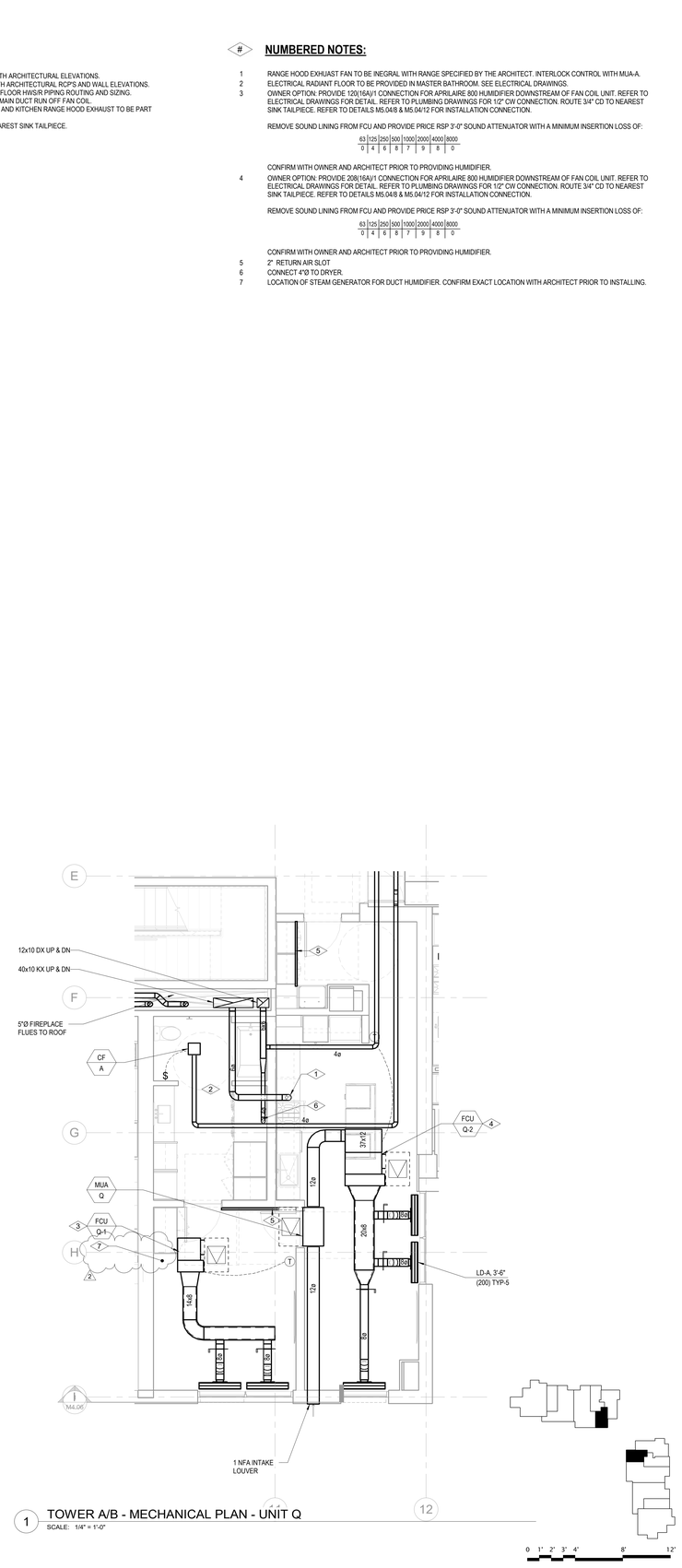
63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
4 OWNER OPTION: PROVIDE 208(16A)/1 CONNECTION FOR APRILAIRE 800 HUMIDIFIER DOWNSTREAM OF FAN COIL UNIT. REFER TO ELECTRICAL DRAWINGS FOR DETAIL. REFER TO PLUMBING DRAWINGS FOR 1/2" CW CONNECTION. ROUTE 3/4" CD TO NEAREST SINK TAILPIECE. REFER TO DETAILS M5.04/8 & M5.04/12 FOR INSTALLATION CONNECTION.

REMOVE SOUND LINING FROM FCU AND PROVIDE PRICE RSP 3'-0" SOUND ATTENUATOR WITH A MINIMUM INSERTION LOSS OF:

63	125	250	500	1000	2000	4000	8000
0	4	6	8	7	9	8	0

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PROVIDING HUMIDIFIER.
5 2" RETURN AIR SLOT
6 CONNECT 4"Ø TO DRYER.
7 LOCATION OF STEAM GENERATOR FOR DUCT HUMIDIFIER. CONFIRM EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLING.



1 TOWER A/B - MECHANICAL PLAN - UNIT Q
SCALE: 1/4" = 1'-0"

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5/31/2024

ENLARGED MECHANICAL DUCT PLAN - UNIT Q

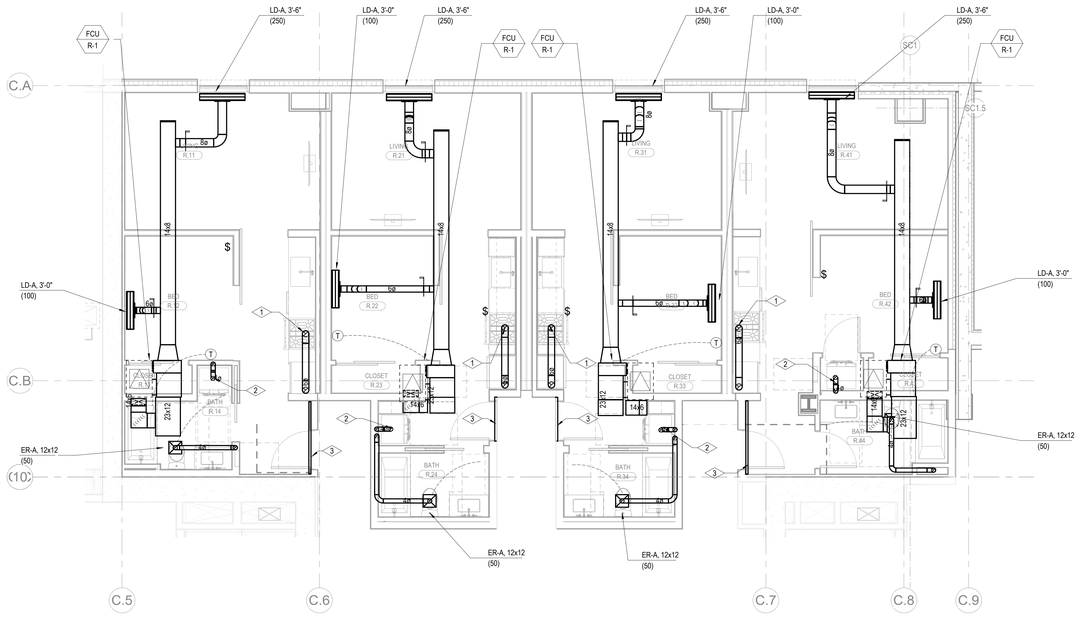
M2.4.Q

SHEET NOTES:

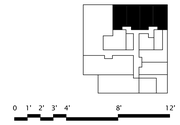
A. CONFIRM EXACT LOCATION OF ALL WALL DEVICES WITH ARCHITECTURAL ELEVATIONS.
B. CONFIRM ALL CEILING AND WALL ACCESS DOORS WITH ARCHITECTURAL RCP'S AND WALL ELEVATIONS.
C. REFER TO M3-2A-01 THROUGH M3-2C-R FOR RADIANT FLOOR HWS/R PIPING ROUTING AND SIZING.
D. PROVIDE 1-INCH ACOUSTIC LINING FOR ENTIRITY OF MAIN DUCT RUN OFF FAN COIL.
E. ROUTE 3/4" CONDENSATE DRAINS FROM FCUS TO NEAREST TAILPIECE.

NUMBERED NOTES:

1 RANGE HOOD EXHAUST FAN TO BE INEGRAL WITH RANGE SPECIFIED BY THE ARCHITECT. INTERLOCK CONTROL WITH MUA-A.
2 4" DUCT UP TO DRYER EXHAUST
3 2" RETURN AIR SLOT



1 BLDG C - MECHANICAL UNIT PLAN - R
SCALE: 1/4" = 1'-0"



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05/31/2024

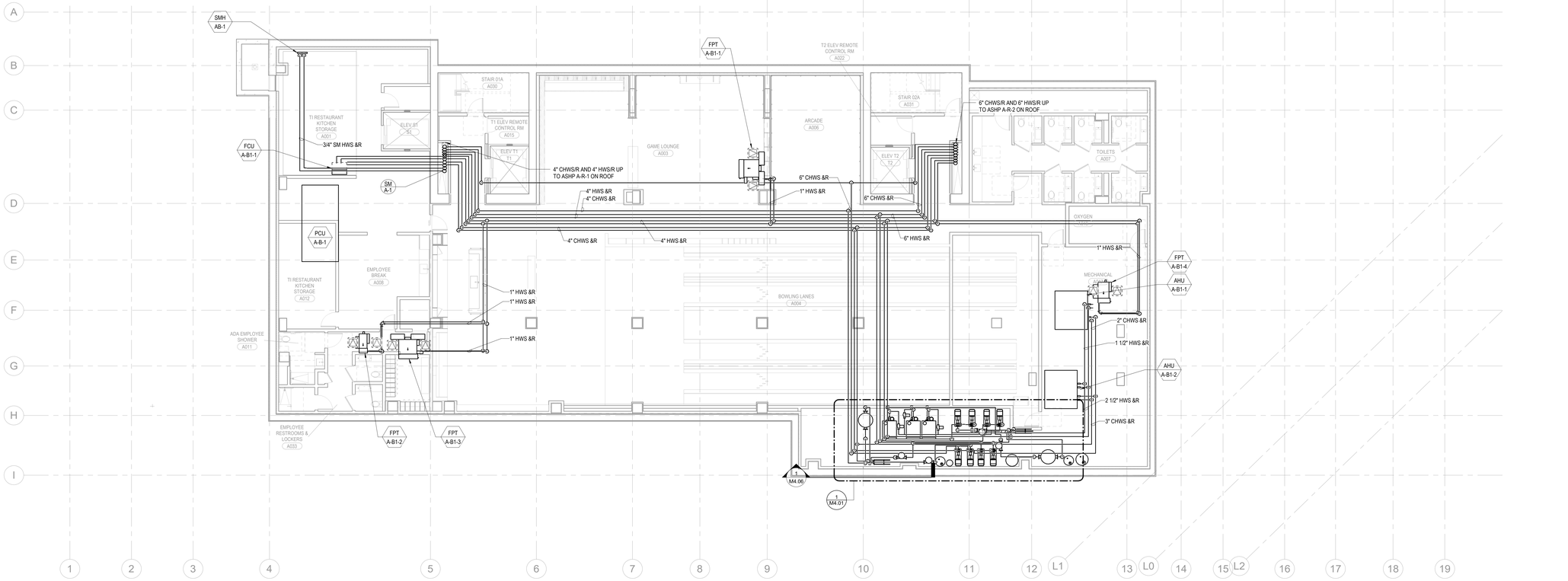
ENLARGED MECHANICAL PLAN - UNIT R

M2.4.R

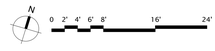
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER A - LEVEL B MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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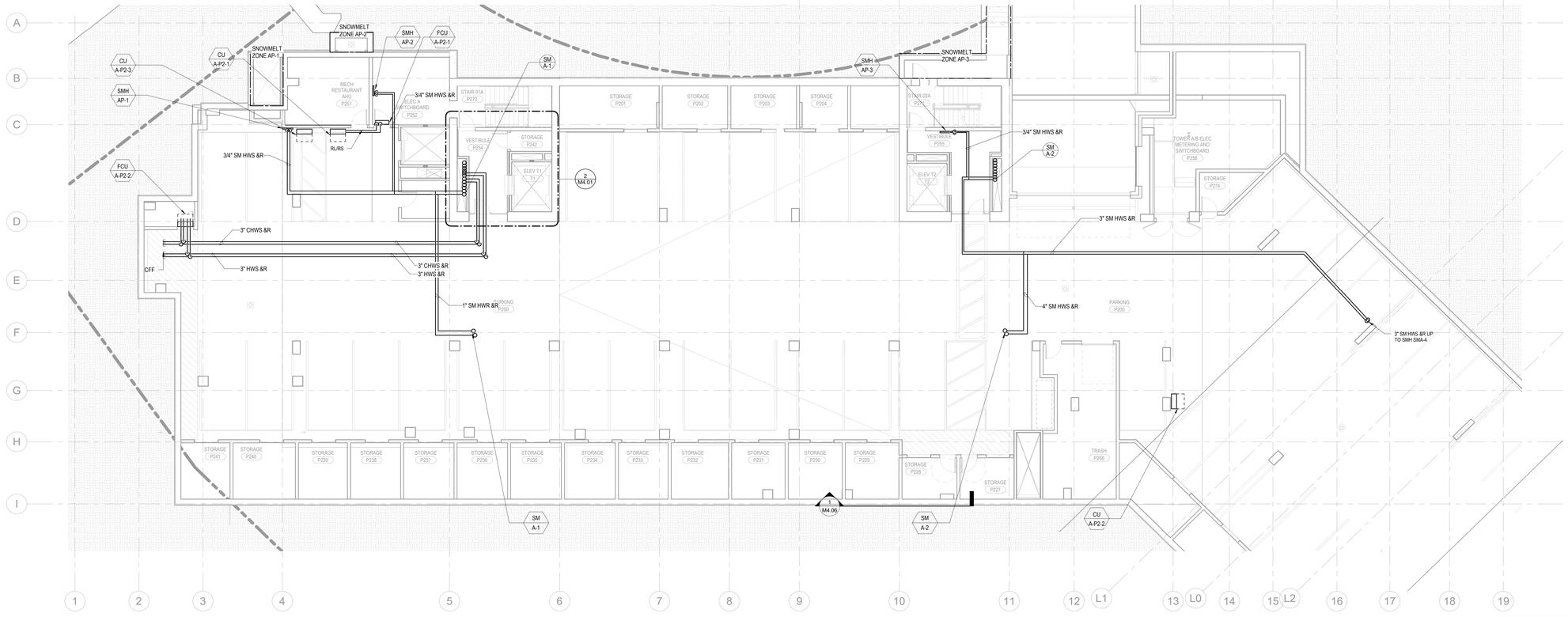
TOWER A - LVL B MECHANICAL PIPING PLAN

M3.2A.01

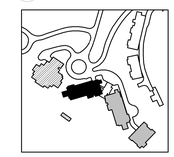
SHEET NOTES:

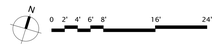
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER A - PARKING LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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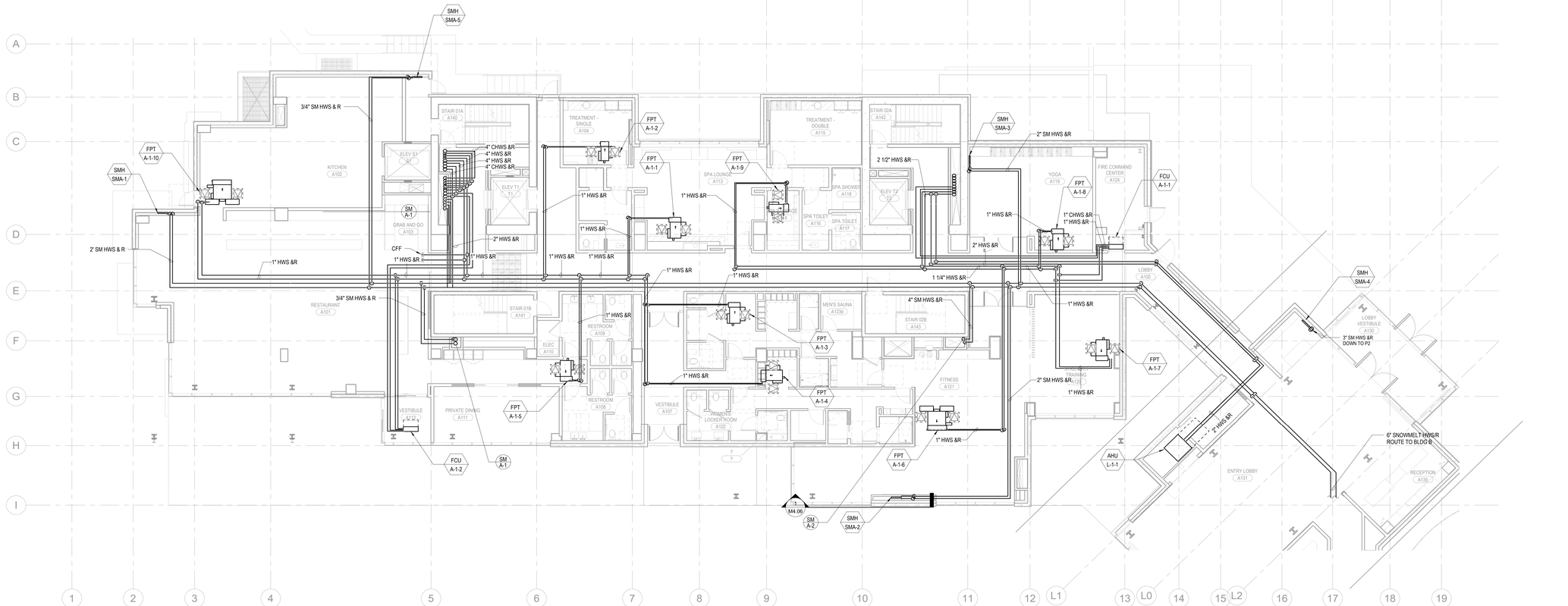
TOWER A - LVL P2
MECHANICAL PIPING
PLAN

M3.2A.02

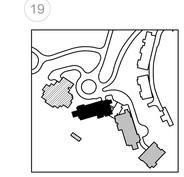
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FPT TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER A - LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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5/17/2024

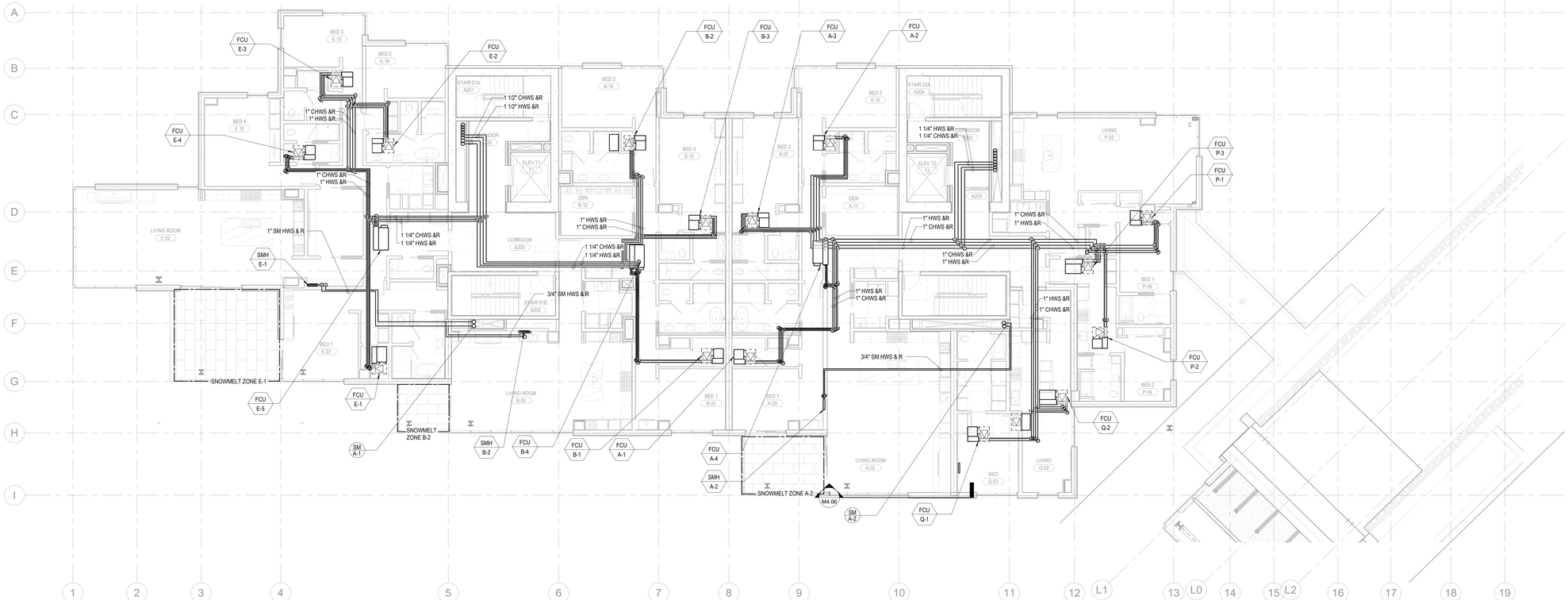
TOWER A - LVL 1 MECHANICAL PIPING PLAN

M3.2A.11

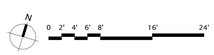
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER A - LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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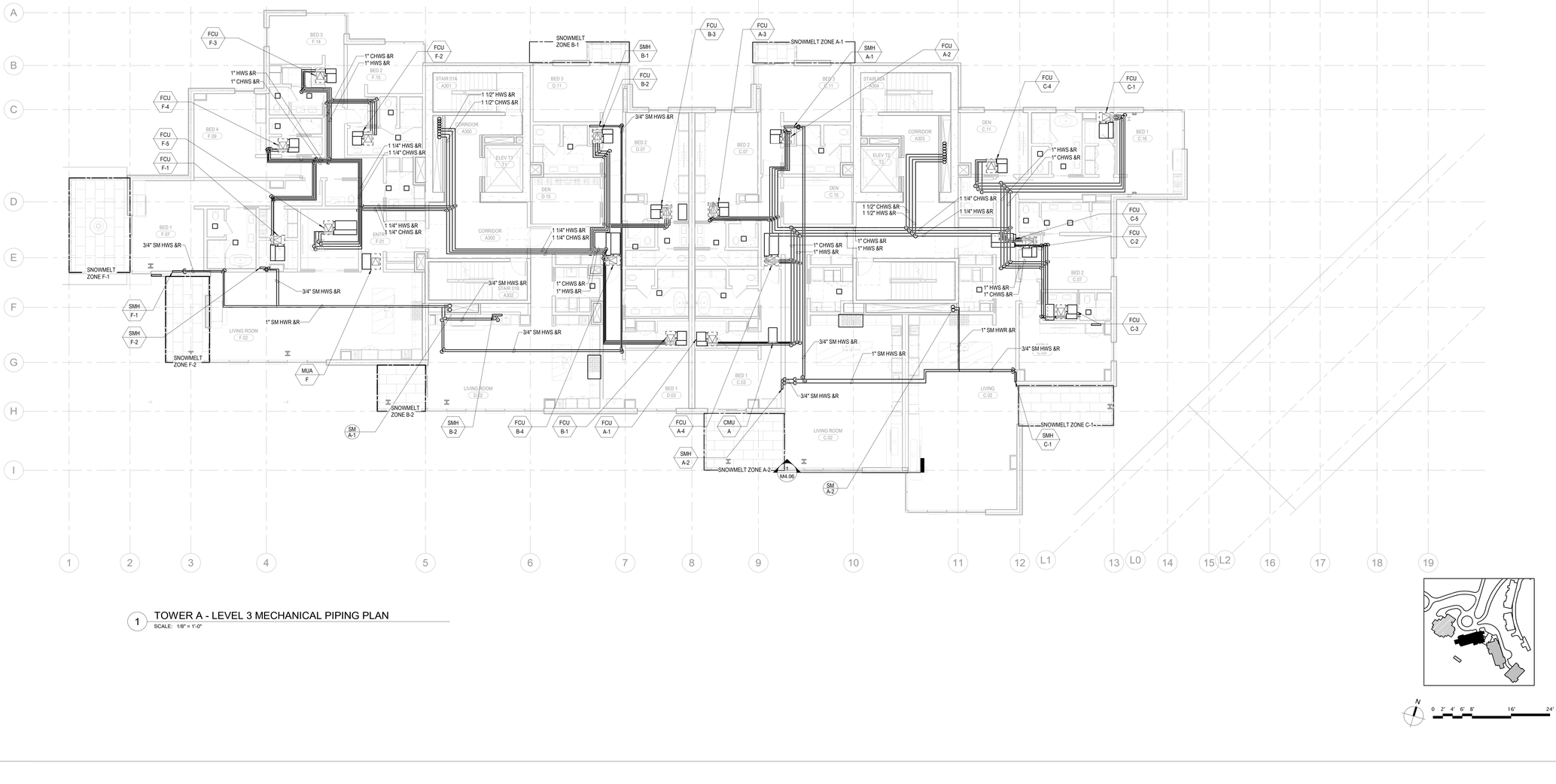
TOWER A - LVL 2 MECHANICAL PIPING PLAN

M3.2A.12



SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

① TOWER A - LEVEL 3 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

PROFESSIONAL ENGINEER
No. 12196777-2202
MATTHEW WILLIAM LONGSINE
STATE OF UTAH

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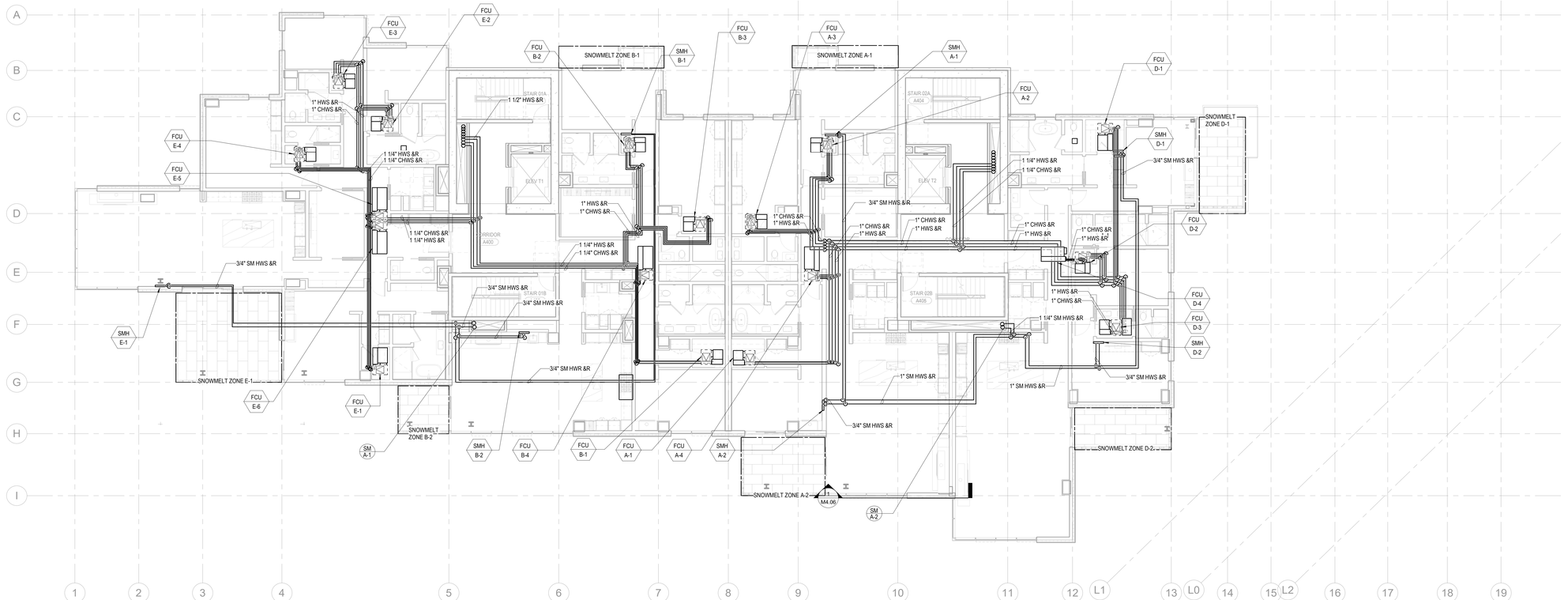
TOWER A - LVL 3
MECHANICAL PIPING
PLAN

M3.2A.13

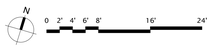
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER A - LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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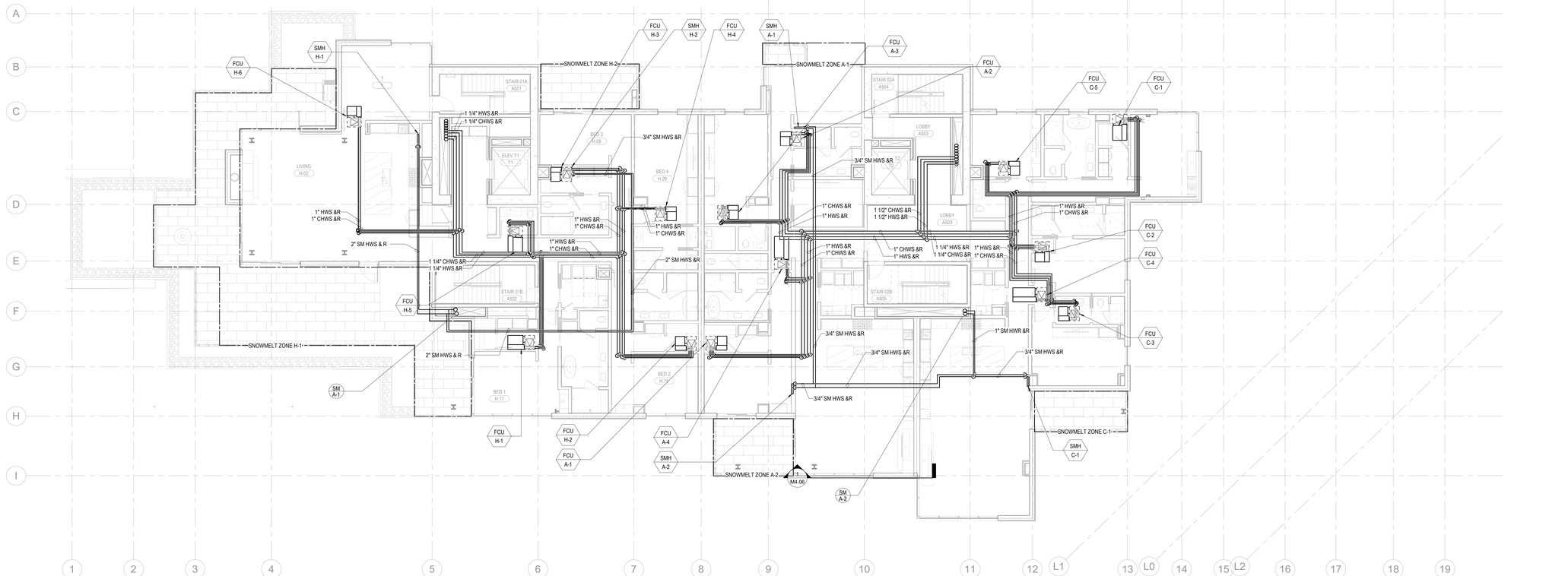
TOWER A - LVL 4 MECHANICAL PIPING PLAN

M3.2A.14

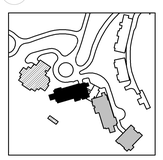
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

<#> NUMBERED NOTES:



1 TOWER A - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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TOWER A - LVL 5 MECHANICAL PIPING PLAN

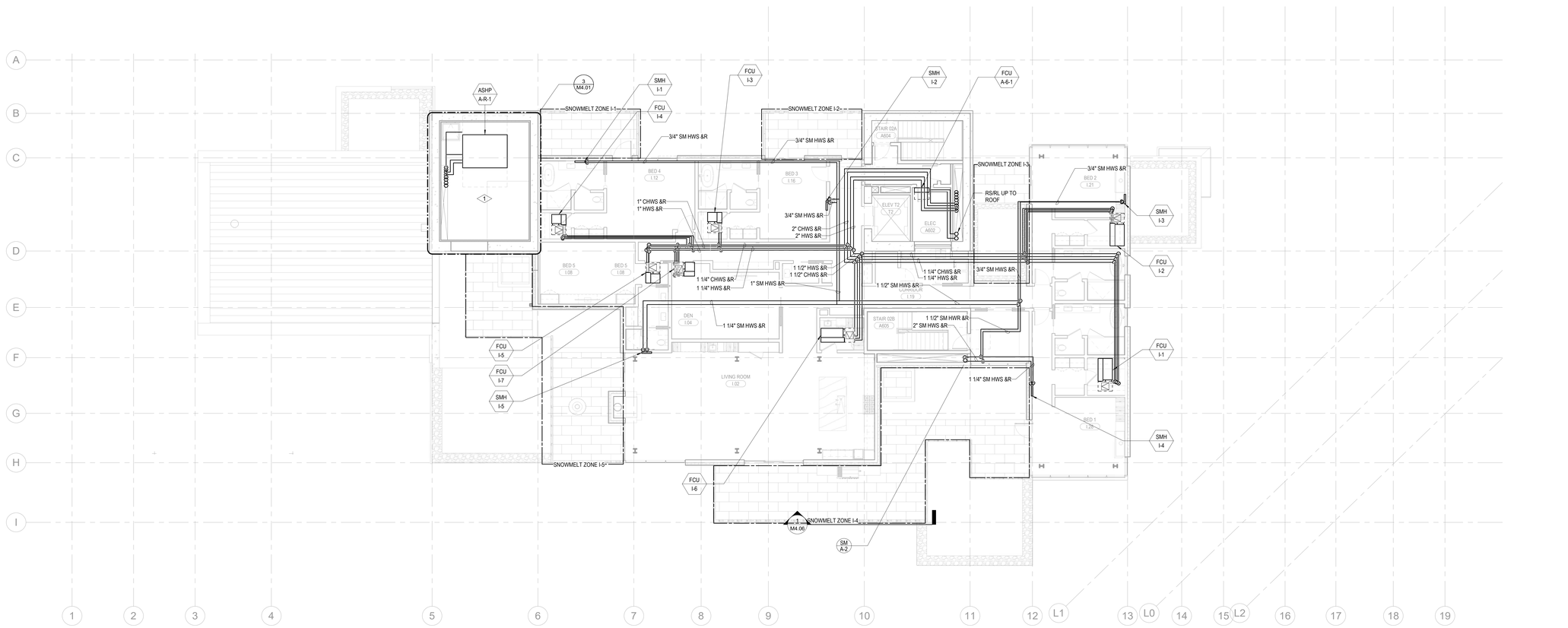
M3.2A.15

SHEET NOTES:

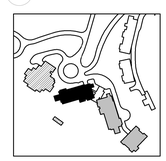
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

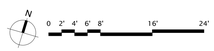
NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION



1 TOWER A - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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TOWER A - LVL 6
MECHANICAL PIPING PLAN

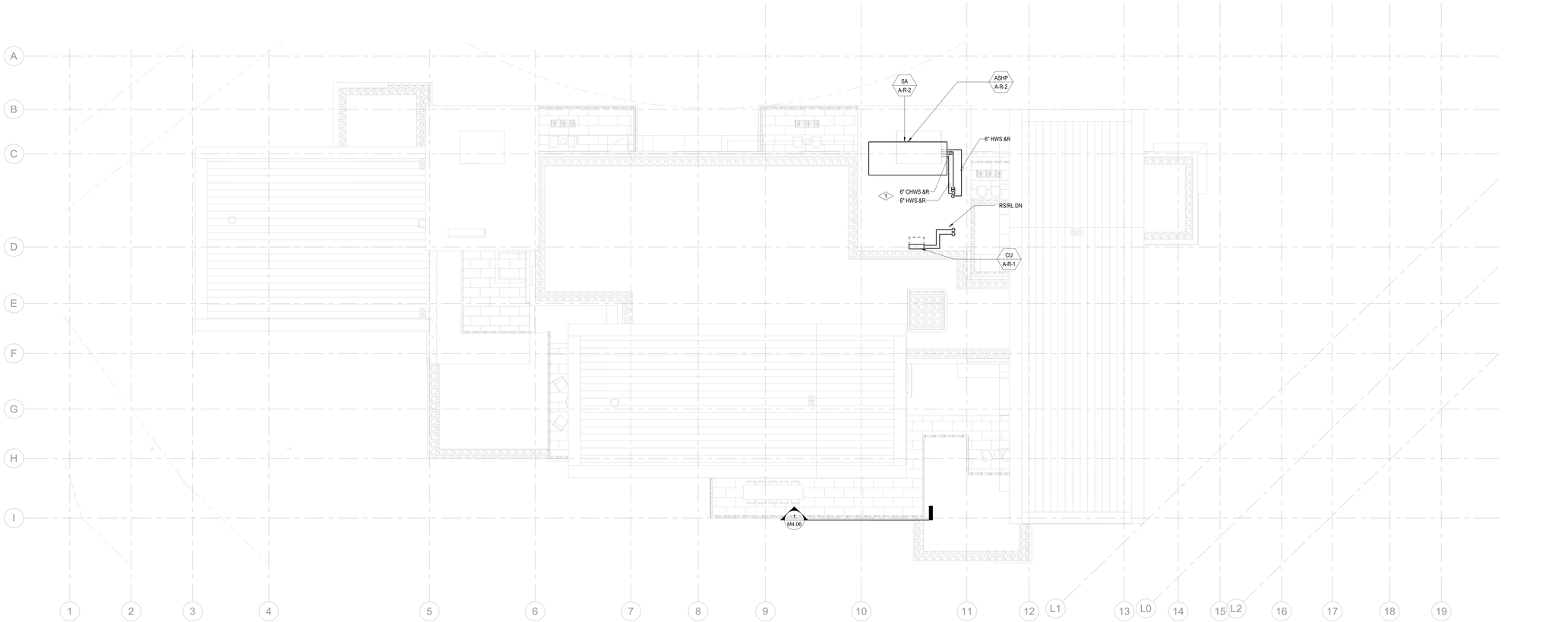
M3.2A.16

SHEET NOTES:

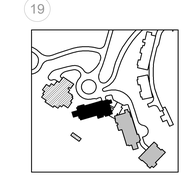
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION



1 TOWER A - ROOF MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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TOWER A - ROOF MECHANICAL PIPING PLAN

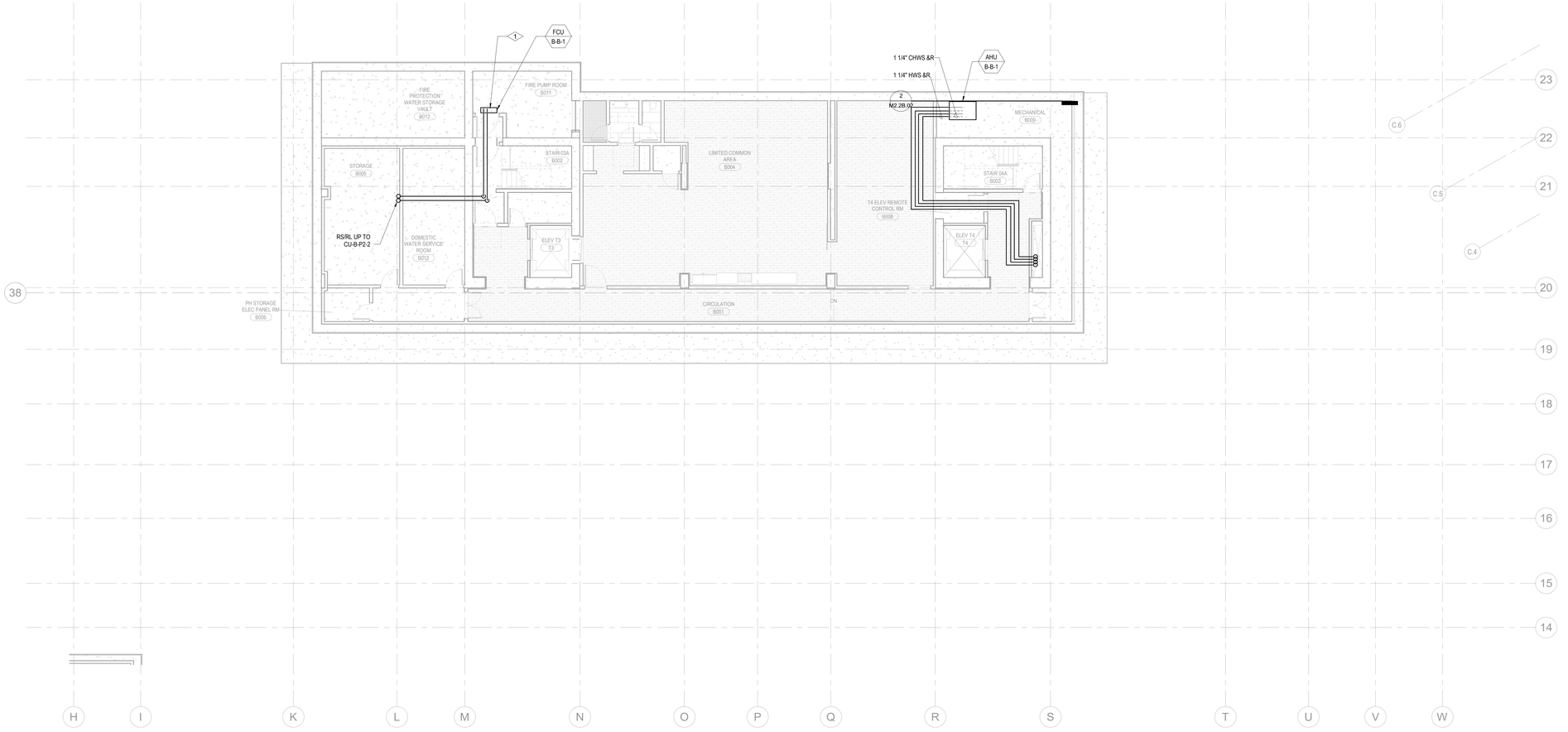
M3.2A.R

SHEET NOTES:

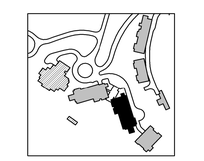
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:

1 ROUTE CONDENSATE TO NEAREST SINK DRAIN AIR GAP FITTING. SEE 3/M5.04



1 TOWER B - LEVEL B1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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5/17/2024

TOWER B - LVL B MECHANICAL PIPING PLAN

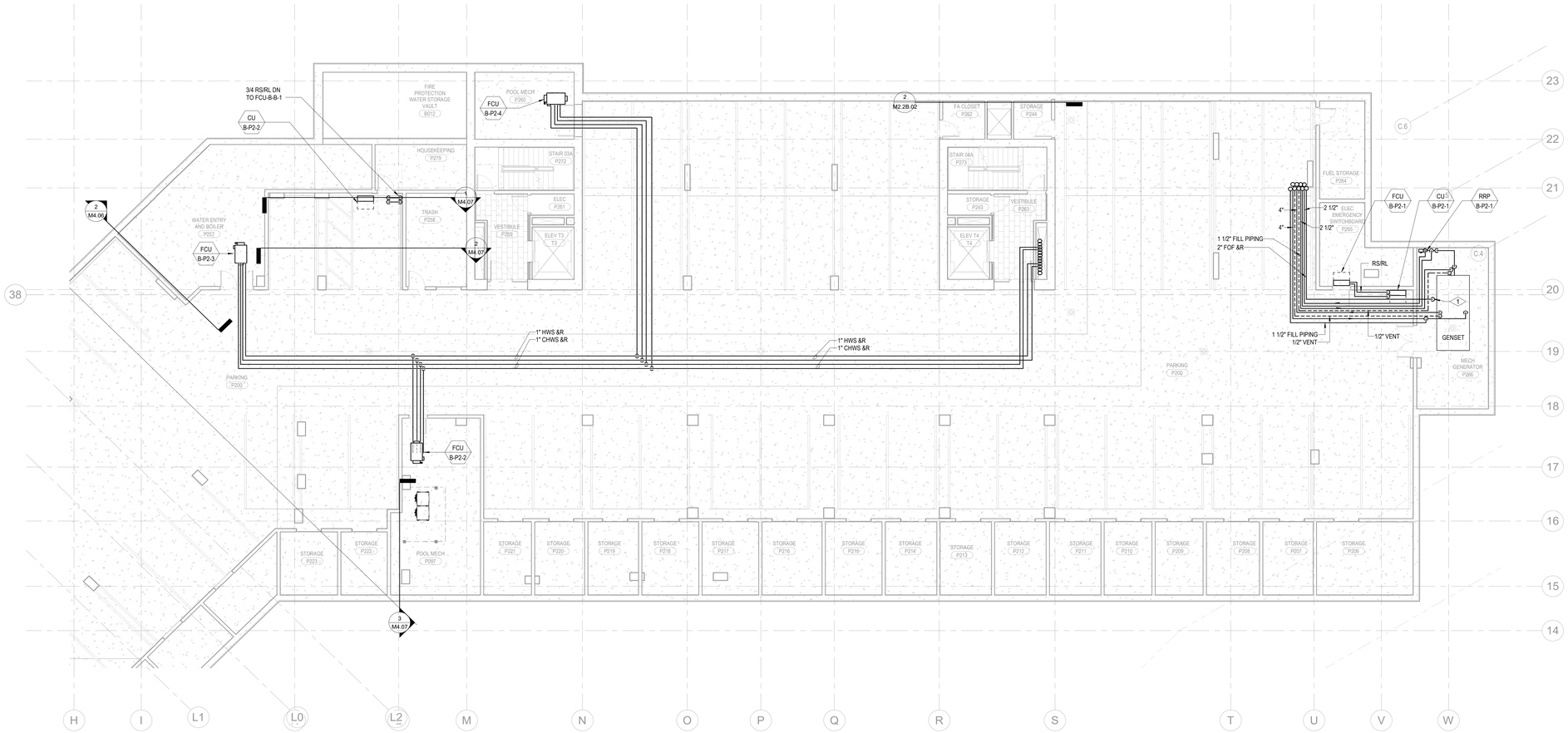
M3.2B.01

SHEET NOTES:

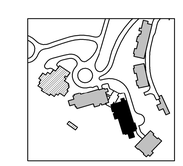
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 2" FO DN TO FUEL SUBBASE TANK.



1 TOWER B - PARKING LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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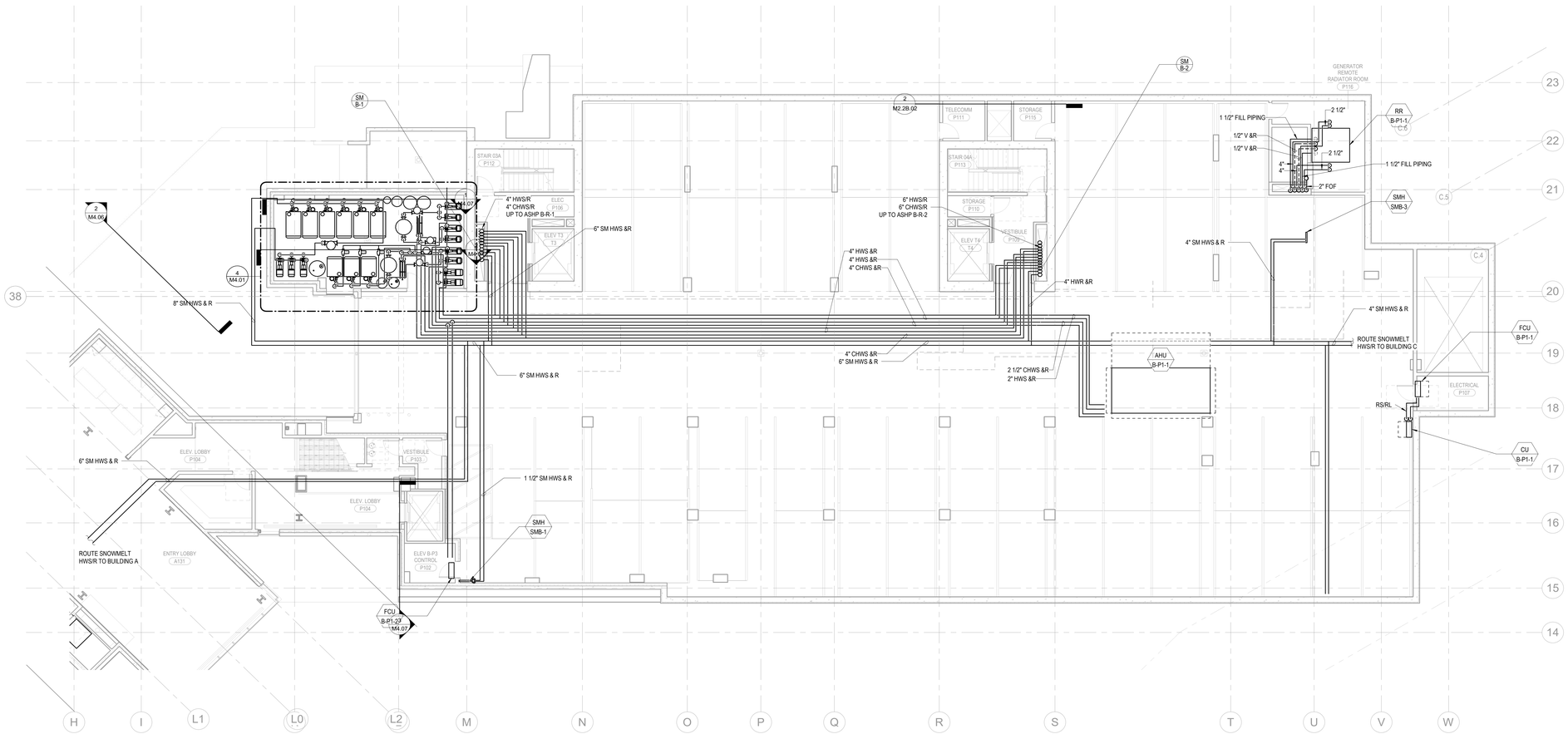
TOWER B - LVL P2
MECHANICAL PIPING
PLAN

M3.2B.02

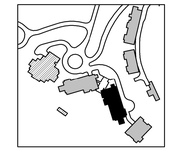
SHEET NOTES:

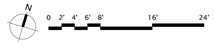
A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - PARKING LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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TOWER B - LVL P1
MECHANICAL PIPING
PLAN

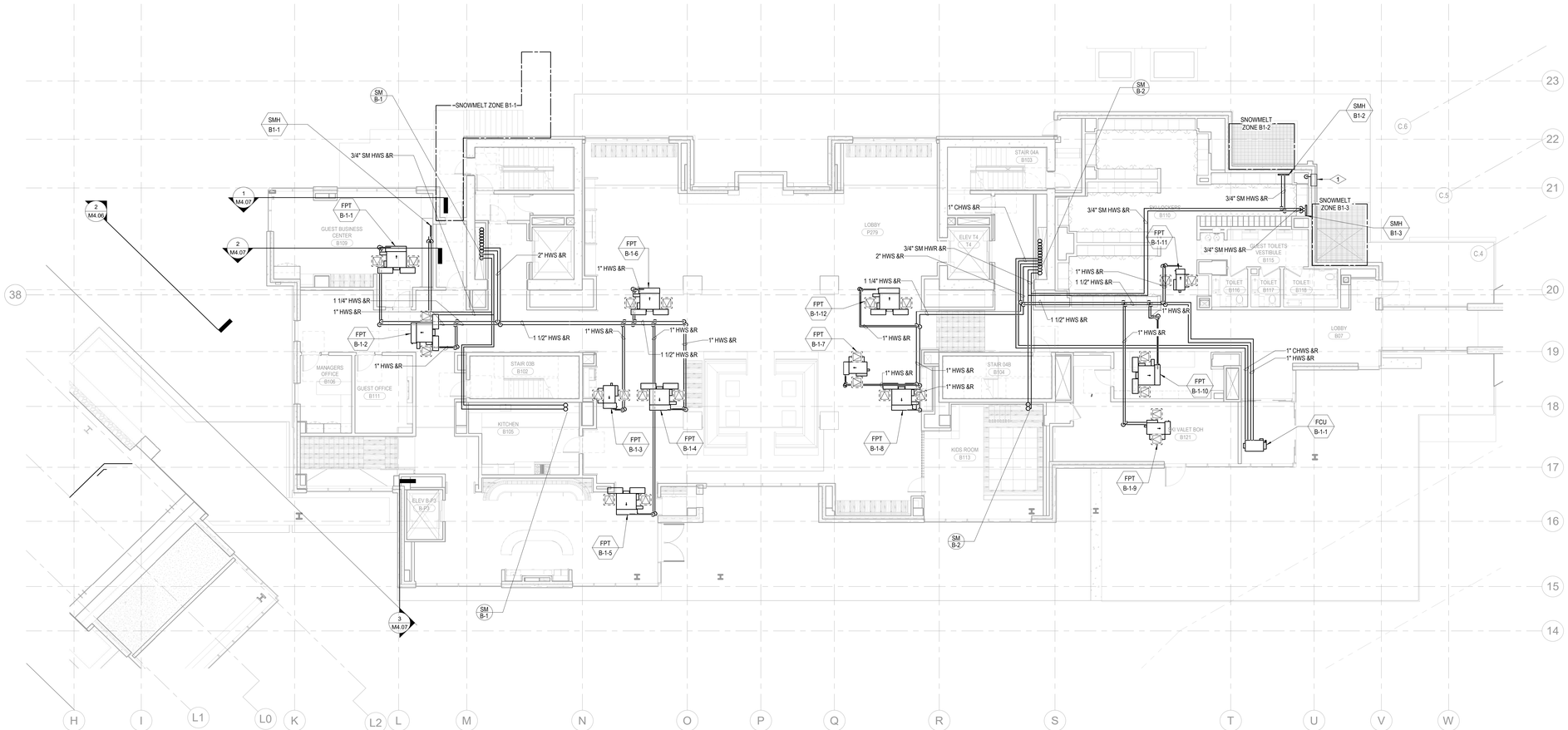
M3.2B.03

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 REMOTE FUEL FILL ASSEMBLY WITH OVERFILL PROTECTION FURNISHED BY OTHERS AND INSTALLED BY MECHANICAL CONTRACTOR. INSTALL 5' FROM BUILDING OPENINGS.



1 TOWER B - LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

N 0 2' 4' 6' 8' 16' 24'

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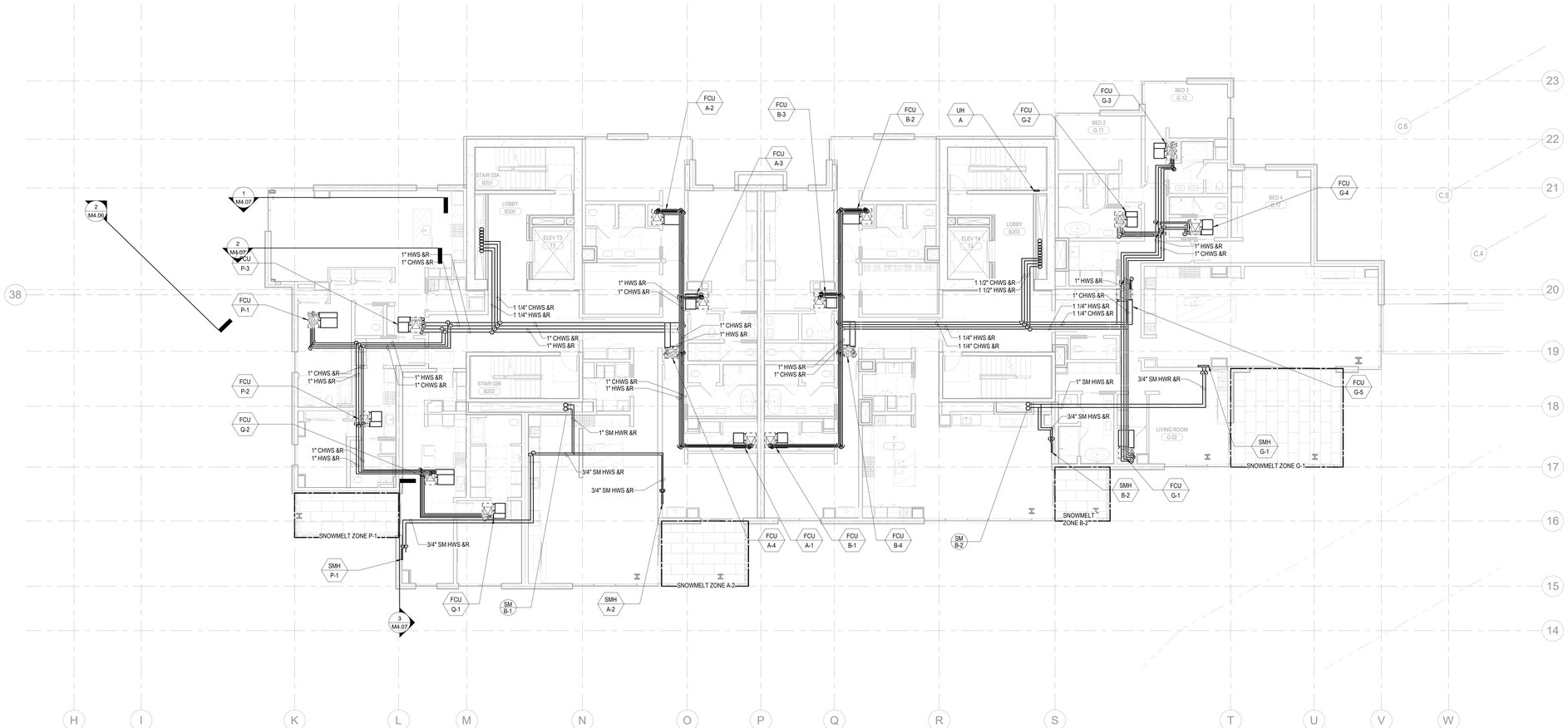
TOWER B - LVL 1 MECHANICAL PIPING PLAN

M3.2B.11



SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

⟨#⟩ NUMBERED NOTES:

① TOWER B - LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

No. 12196777-2202
MATTHEW WILLIAM LONGSINE

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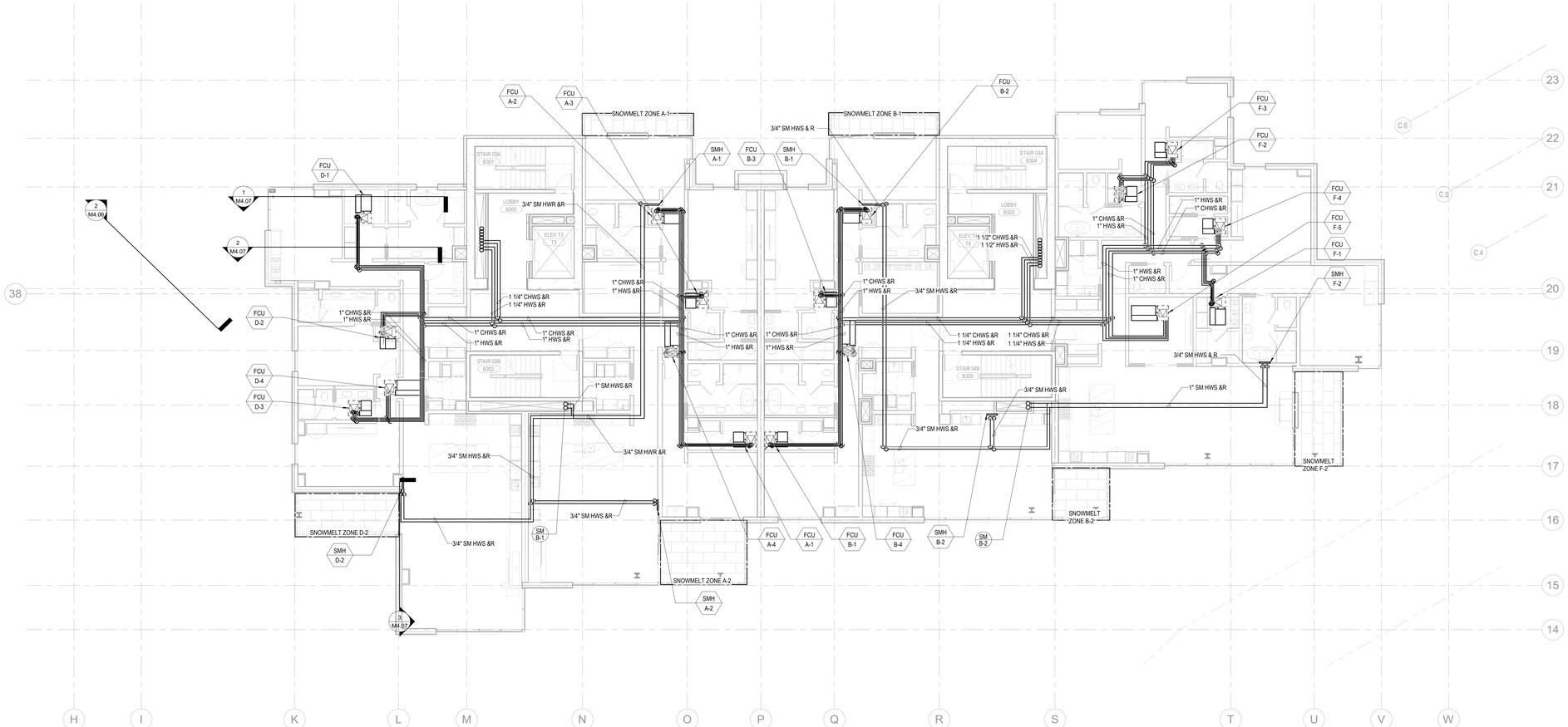
TOWER B - LVL 2
MECHANICAL PIPING
PLAN

M3.2B.12

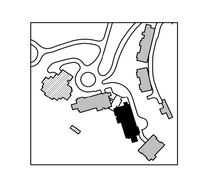
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - LEVEL 3 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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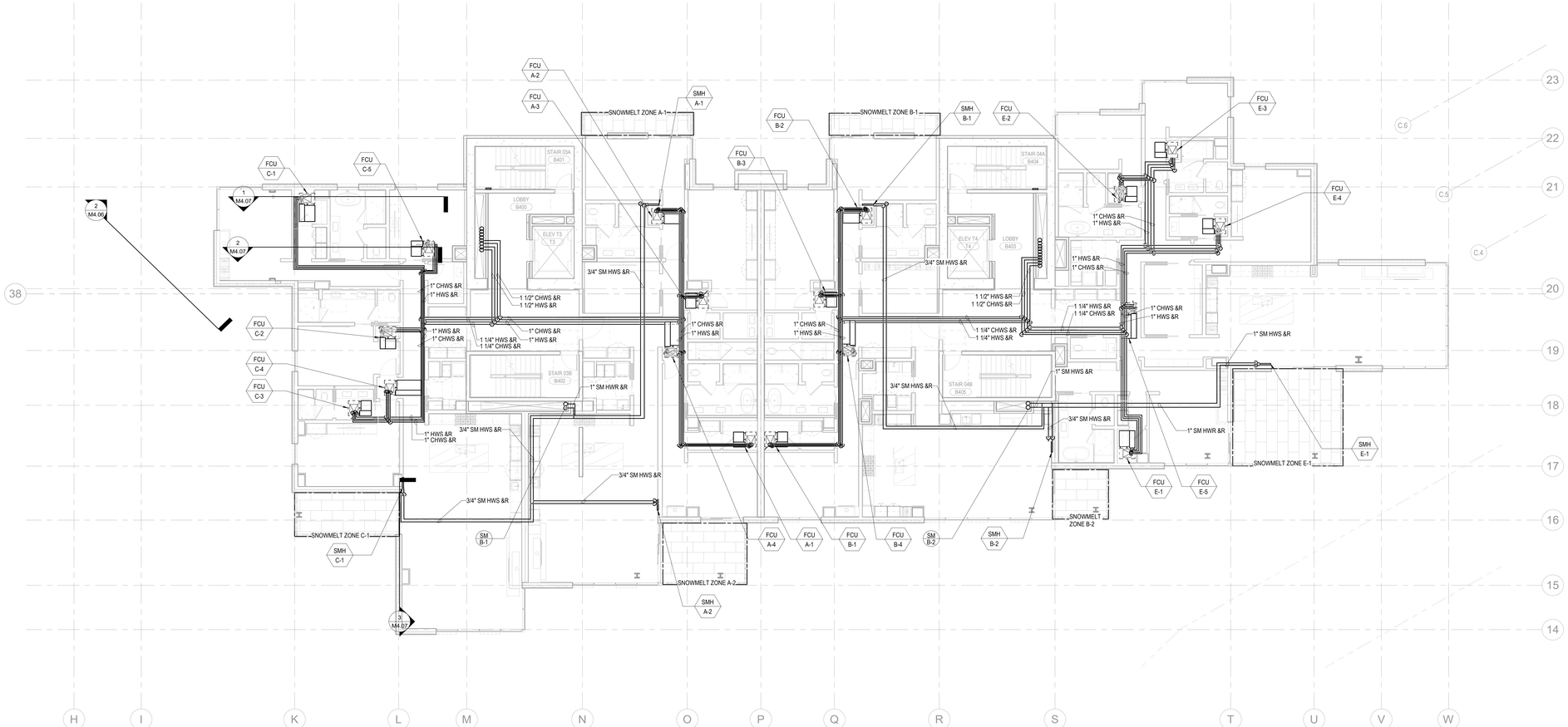
TOWER B - LVL 3 MECHANICAL PIPING PLAN

M3.2B.13

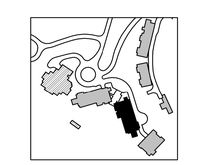
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - LEVEL 4 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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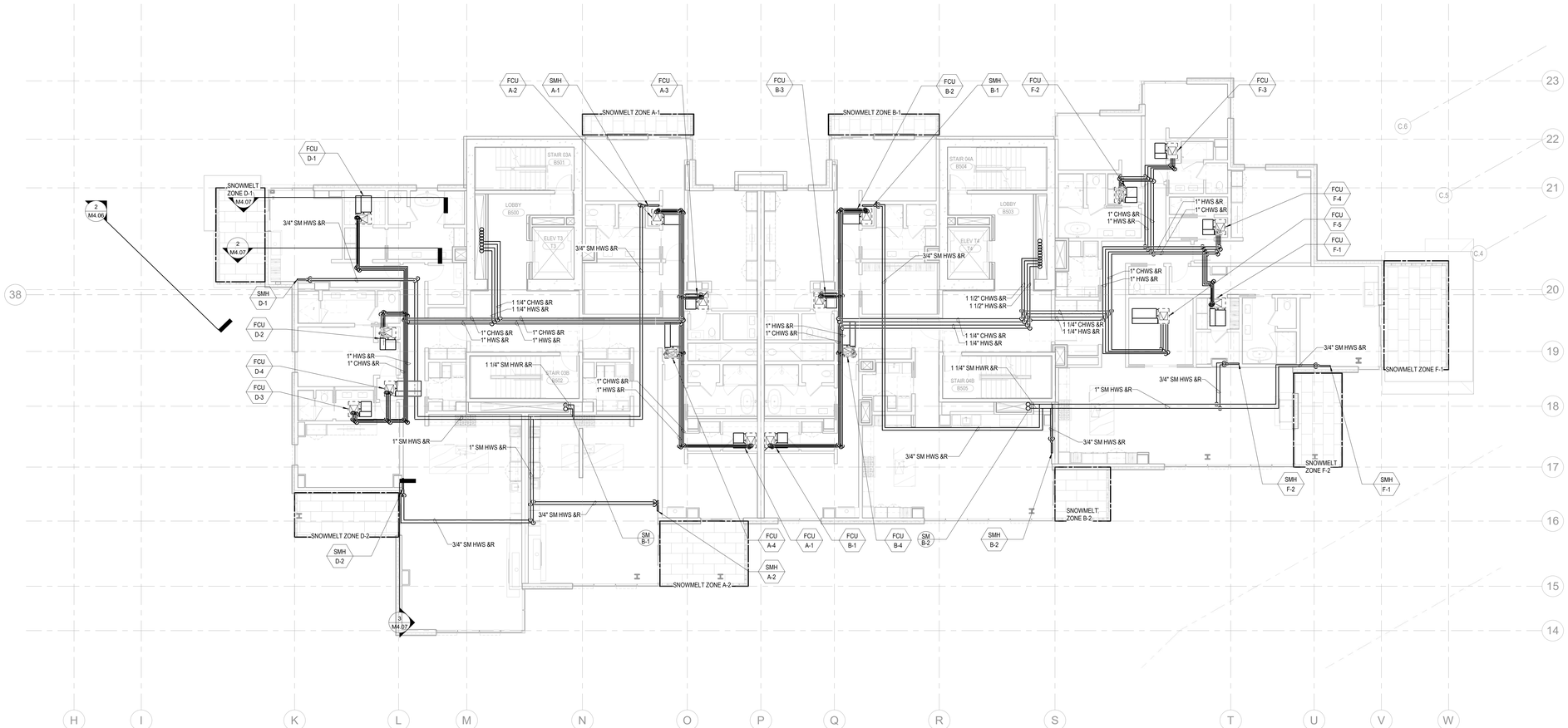
TOWER B - LVL 4 MECHANICAL PIPING PLAN

M3.2B.14

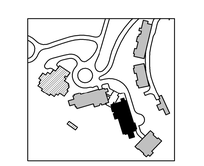
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



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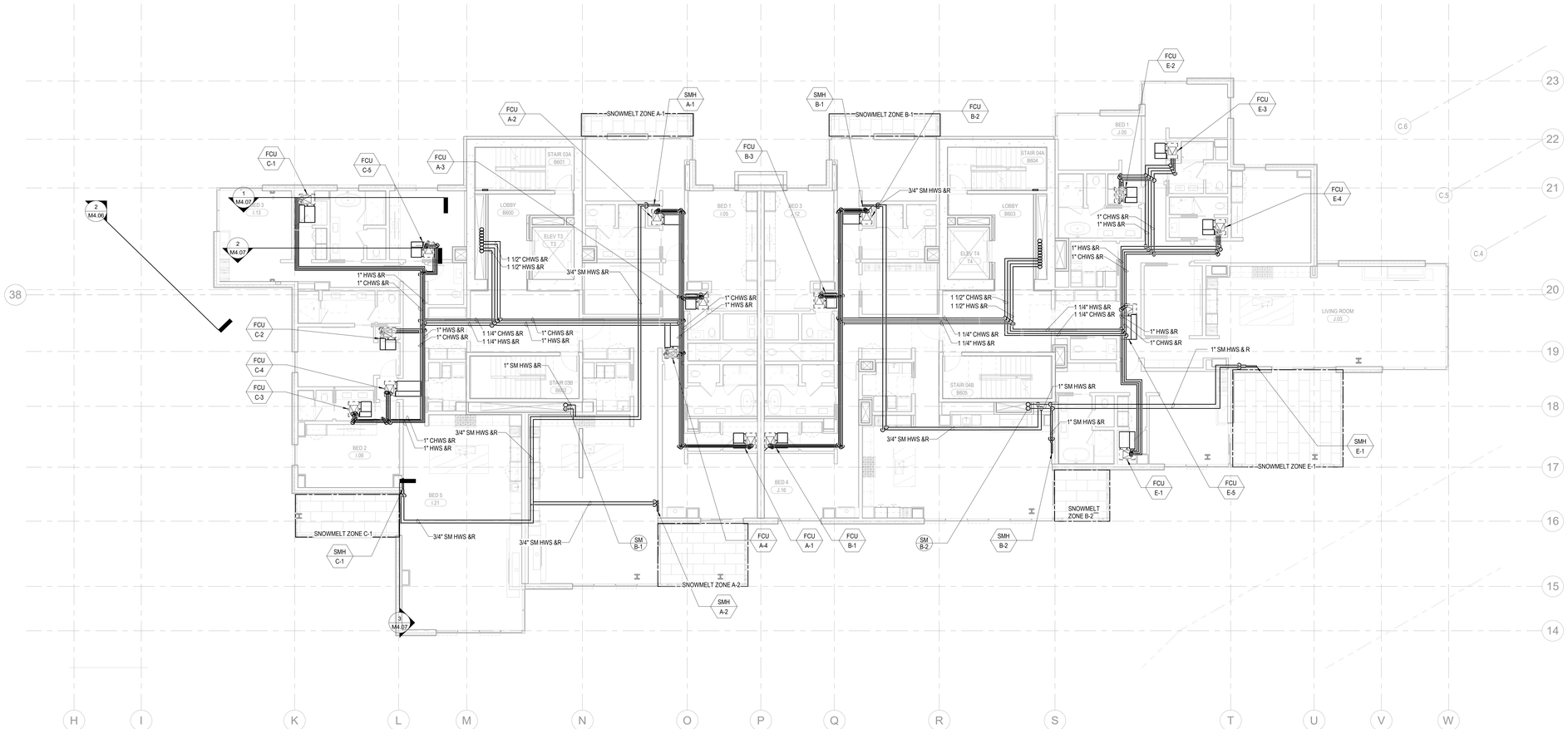
TOWER B - LVL 5 MECHANICAL PIPING PLAN

M3.2B.15

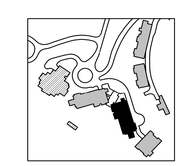
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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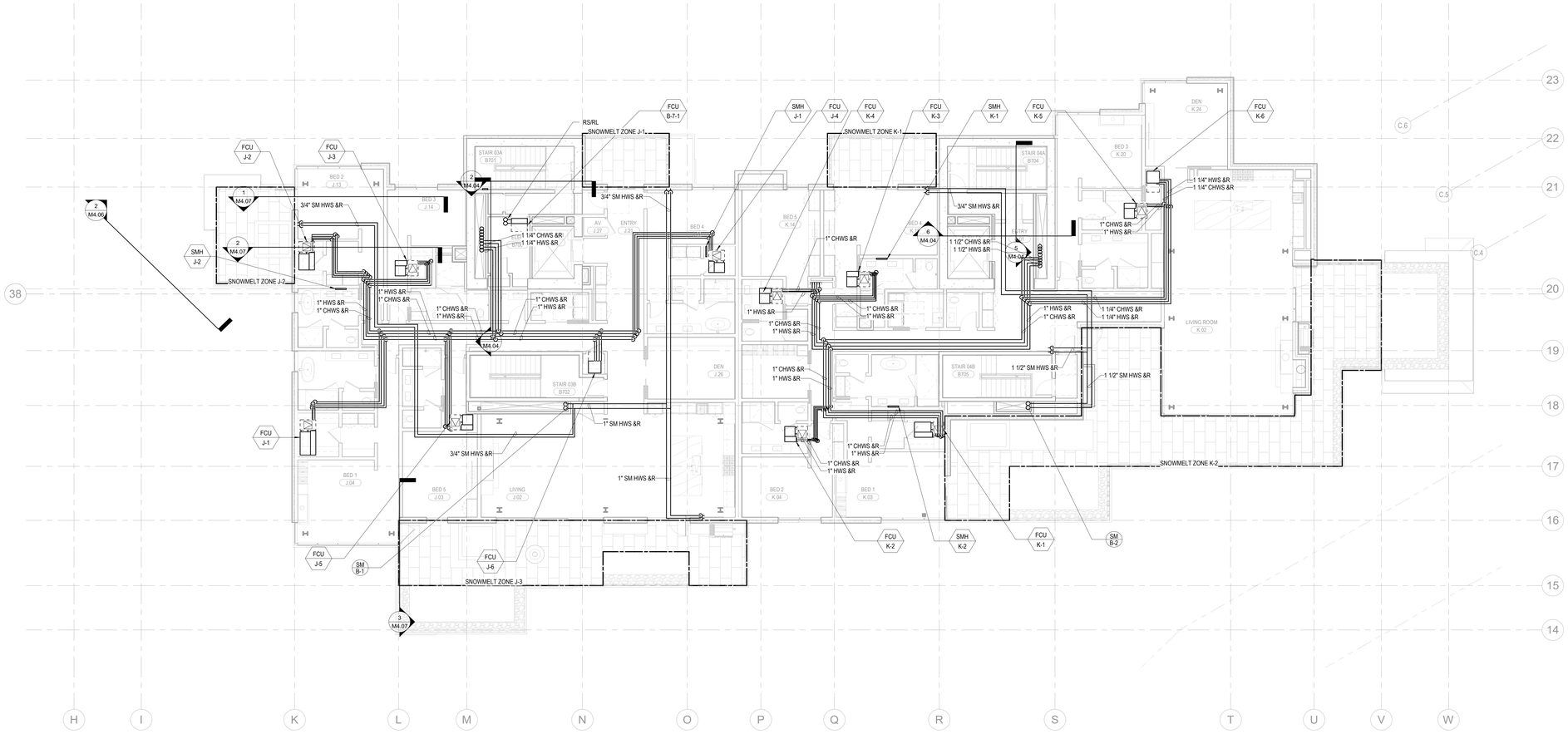
TOWER B - LVL 6 MECHANICAL PIPING PLAN

M3.2B.16

SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.
C. ROUTE 3/4" CONDENSATE FROM FCU TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER B - LEVEL 7 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

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job no.
date 5/17/2024

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IFC Set 2 of 3
5/17/2024

TOWER B - LVL 7
MECHANICAL PIPING
PLAN

M3.2B.17

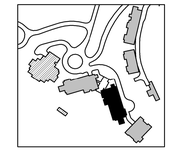
SHEET NOTES:

A. ALL CHILLED WATER AND HOT WATER BRANCH PIPING SHALL BE SIZED AT 1" FOR ALL FAN COIL UNITS UNLESS OTHERWISE NOTED.
B. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION

1 TOWER B - ROOF MECHANICAL PIPIING PLAN
SCALE: 1/8" = 1'-0"



N 0 2' 4' 6' 8' 16' 24'

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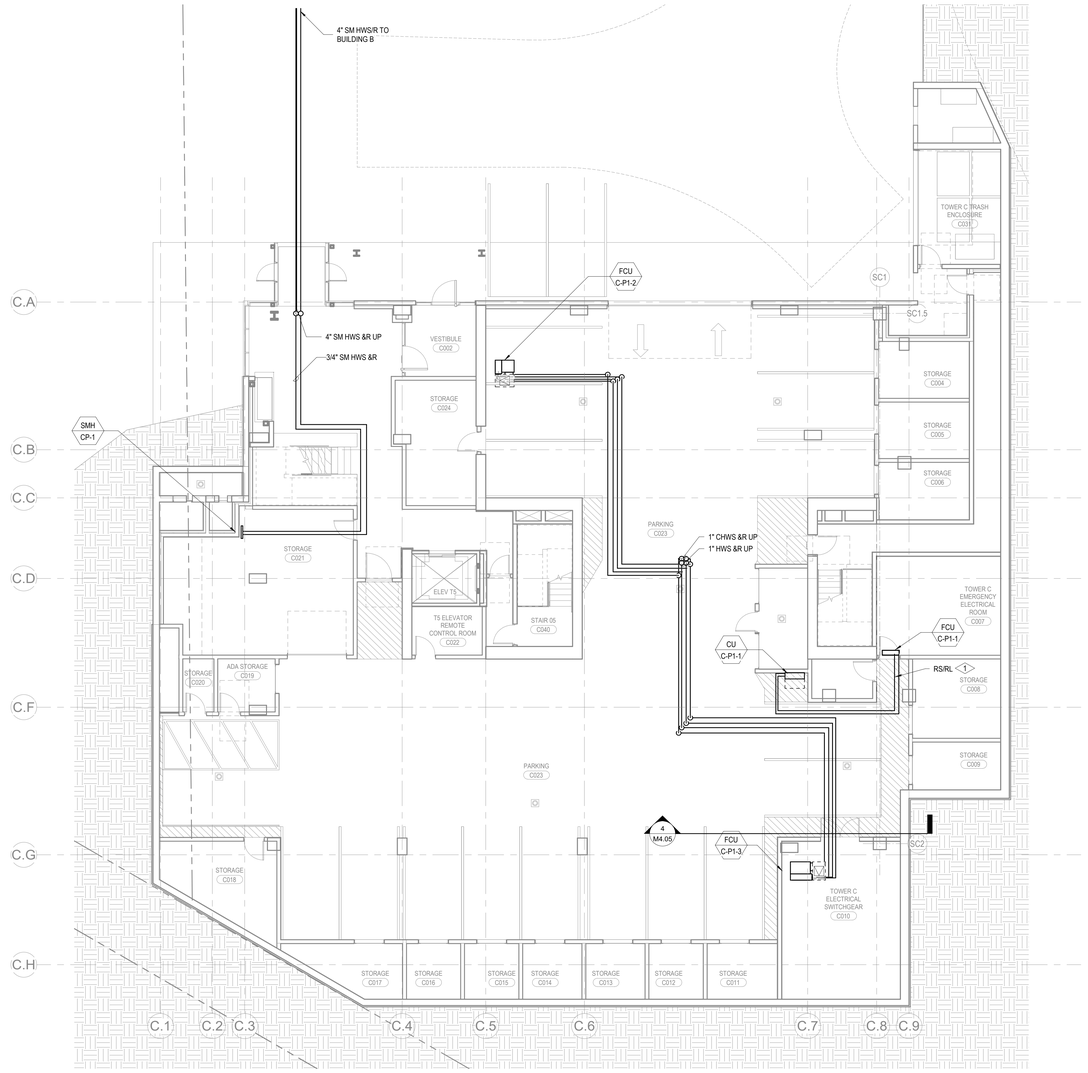
5/17/2024

TOWER B - ROOF MECHANICAL PIPING PLAN

M3.2B.R



1 TOWER C - PARKING LEVEL MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES:

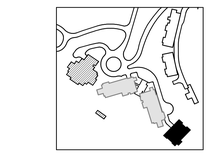
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

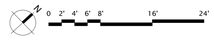
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 REFER TO MANUFACTURER SPECIFICATIONS FOR EXACT PIPING SIZES.





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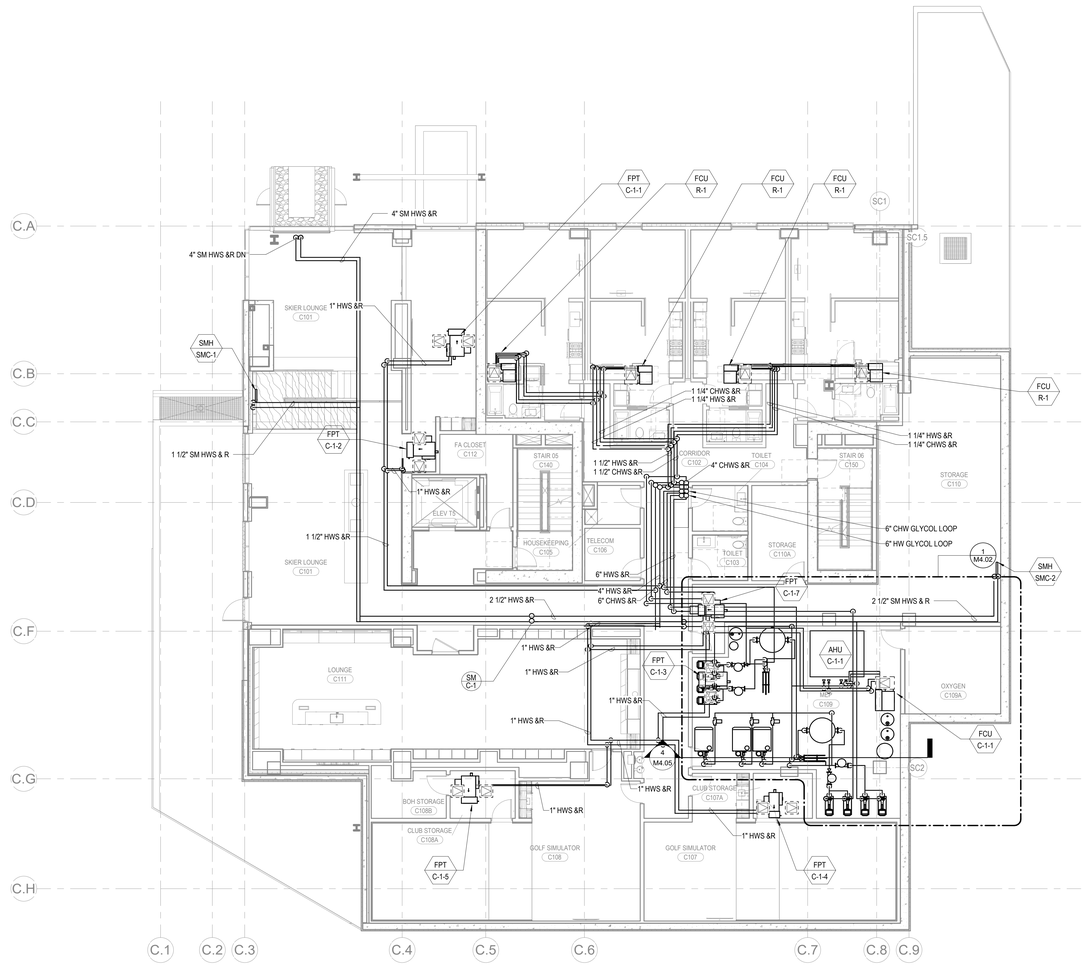
05/17/2024

TOWER C - LVL P1
MECHANICAL PIPING
PLAN

M3.2C.01



SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

◇# NUMBERED NOTES:

1 TOWER C - LEVEL 1 MECHANICAL PIPING PLAN

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

0 2' 4' 6' 8' 16' 24'

No. 12196777-2202
MATTHEW WILLIAM LONGSINE

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05/17/2024

TOWER C - LVL 1
MECHANICAL PIPING
PLAN

M3.2C.11

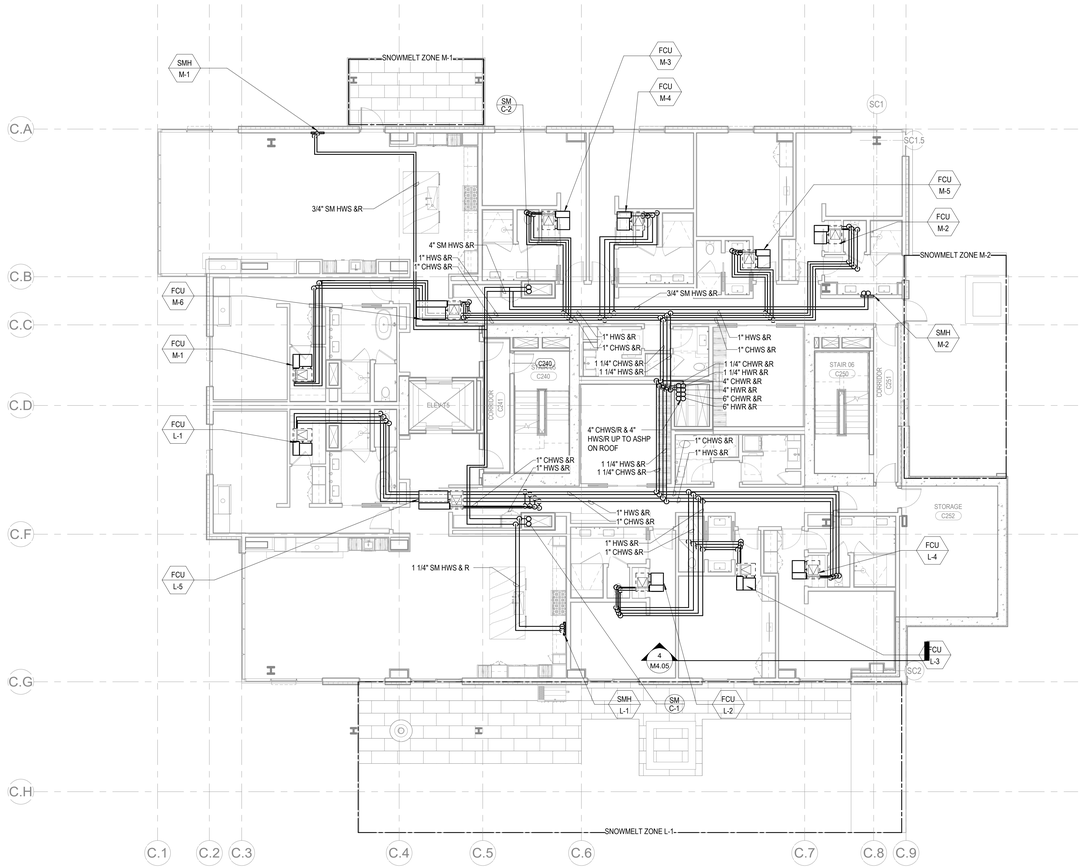
SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

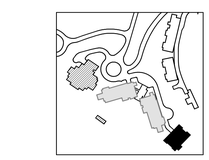
B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

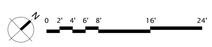
C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



1 TOWER C - LEVEL 2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"





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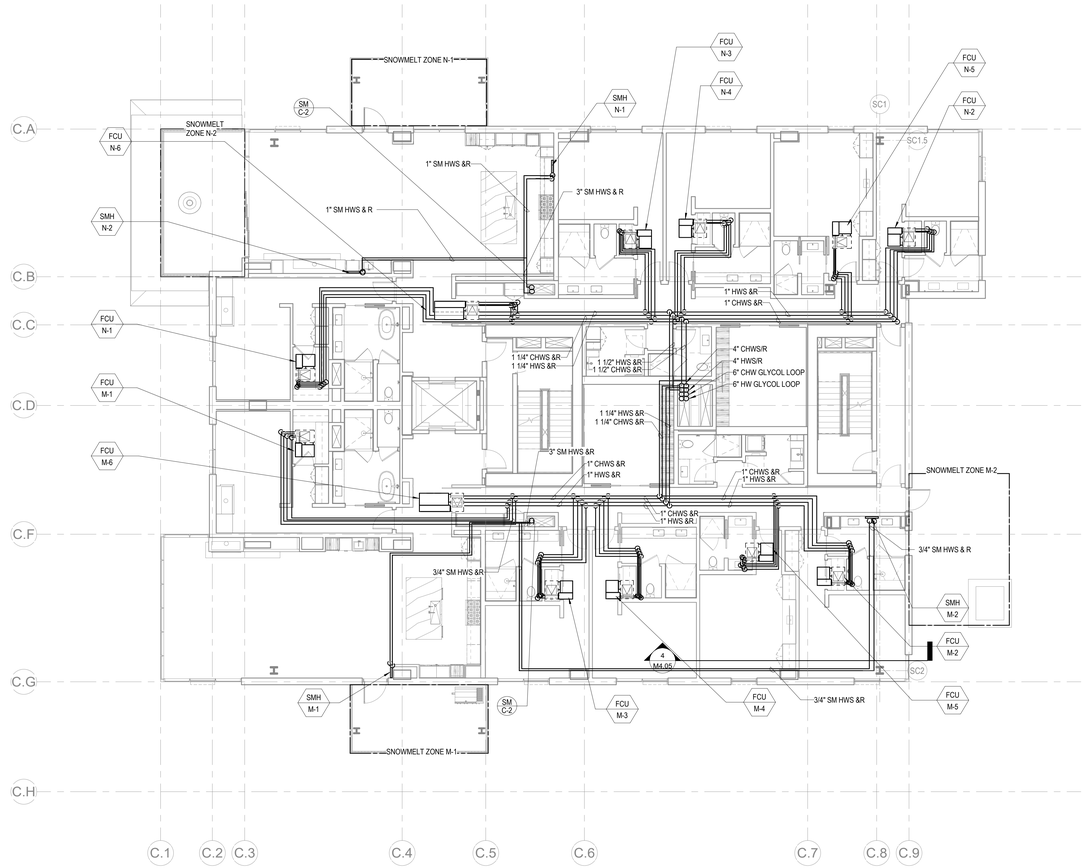
05/17/2024

TOWER C - LVL 2
MECHANICAL PIPING
PLAN

M3.2C.12



1 TOWER C - LEVEL 3 MECHANICAL PIPING PLAN

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

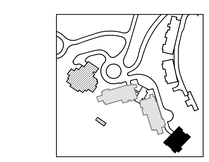
SHEET NOTES:

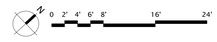
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:





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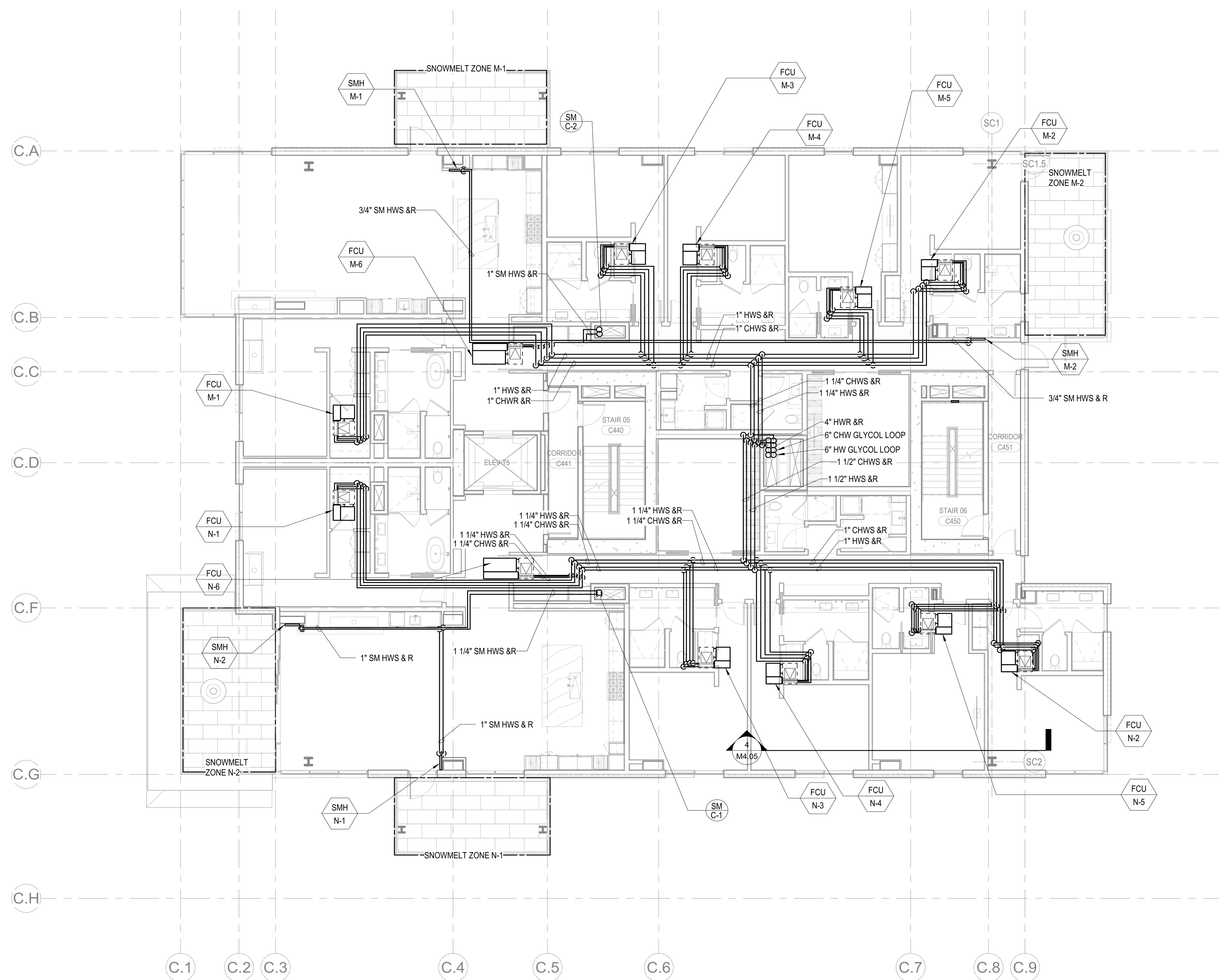
IFC Set 2 of 3
05/17/2024

TOWER C - LVL 3 MECHANICAL PIPING PLAN

M3.2C.13



1 TOWER C - LEVEL 4 MECHANICAL PIPING PLAN

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

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

\# **NUMBERED NOTES:**

No. 12196777-2202
MATTHEW WILLIAM LONGSINE
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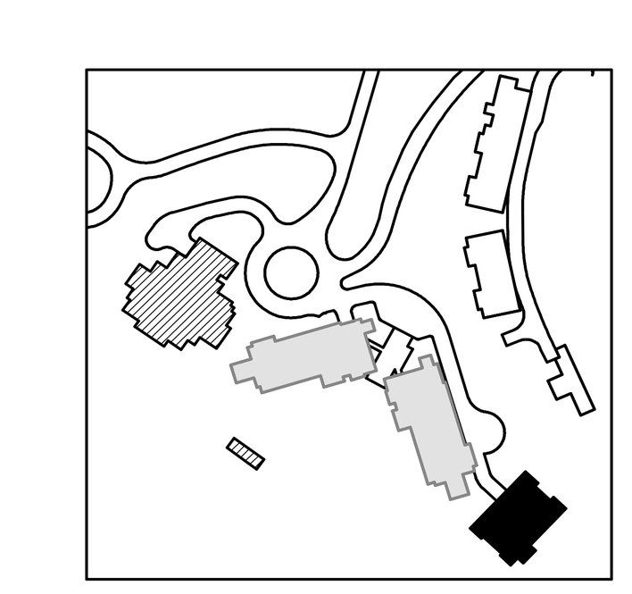

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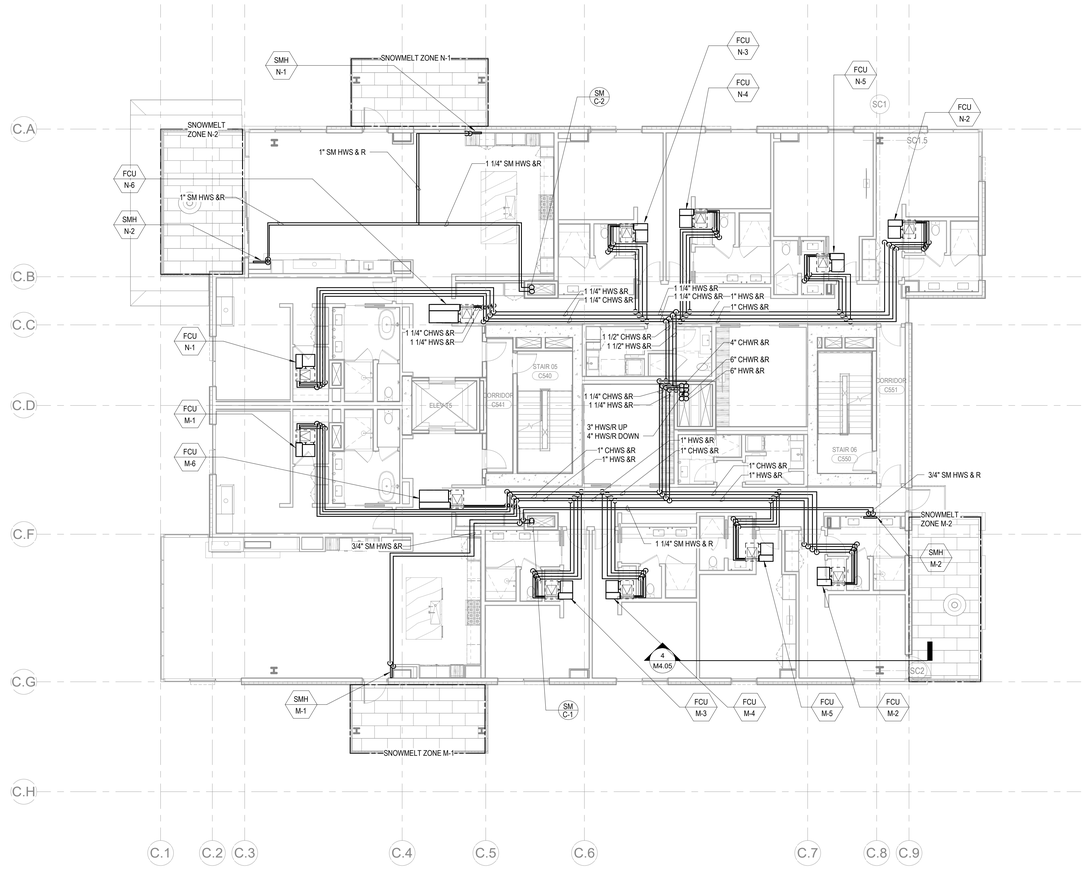
IFC Set 2 of 3
05/17/2024

TOWER C - LVL 4 MECHANICAL PIPING PLAN

M3.2C.14



1 TOWER C - LEVEL 5 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

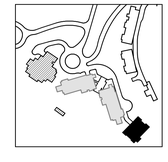
SHEET NOTES:

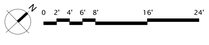
A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. REFER TO MANUFACTURER SPECIFICATIONS FOR REFRIGERANT PIPING SIZING FOR SPLIT SYSTEM FAN COILS.

NUMBERED NOTES:





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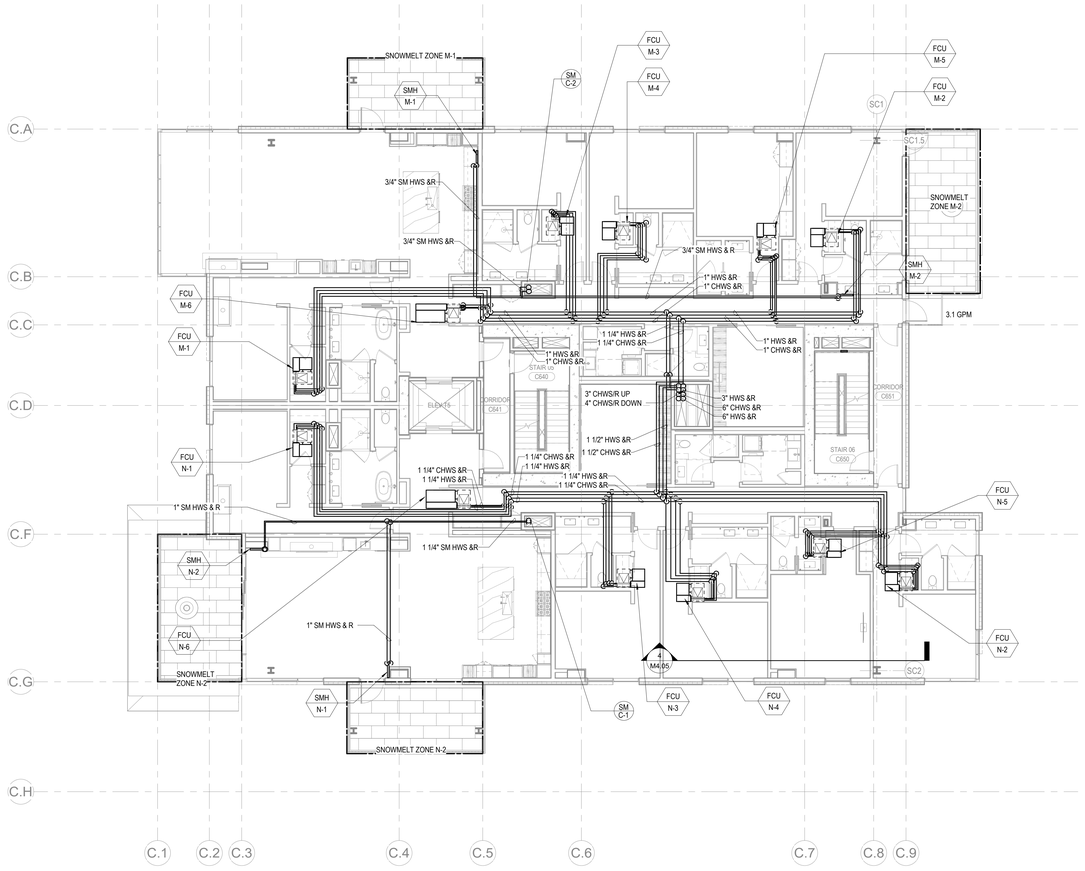
05/17/2024

TOWER C - LVL 5 MECHANICAL PIPING PLAN

M3.2C.15



1 TOWER C - LEVEL 6 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

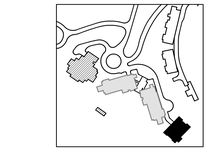
SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:



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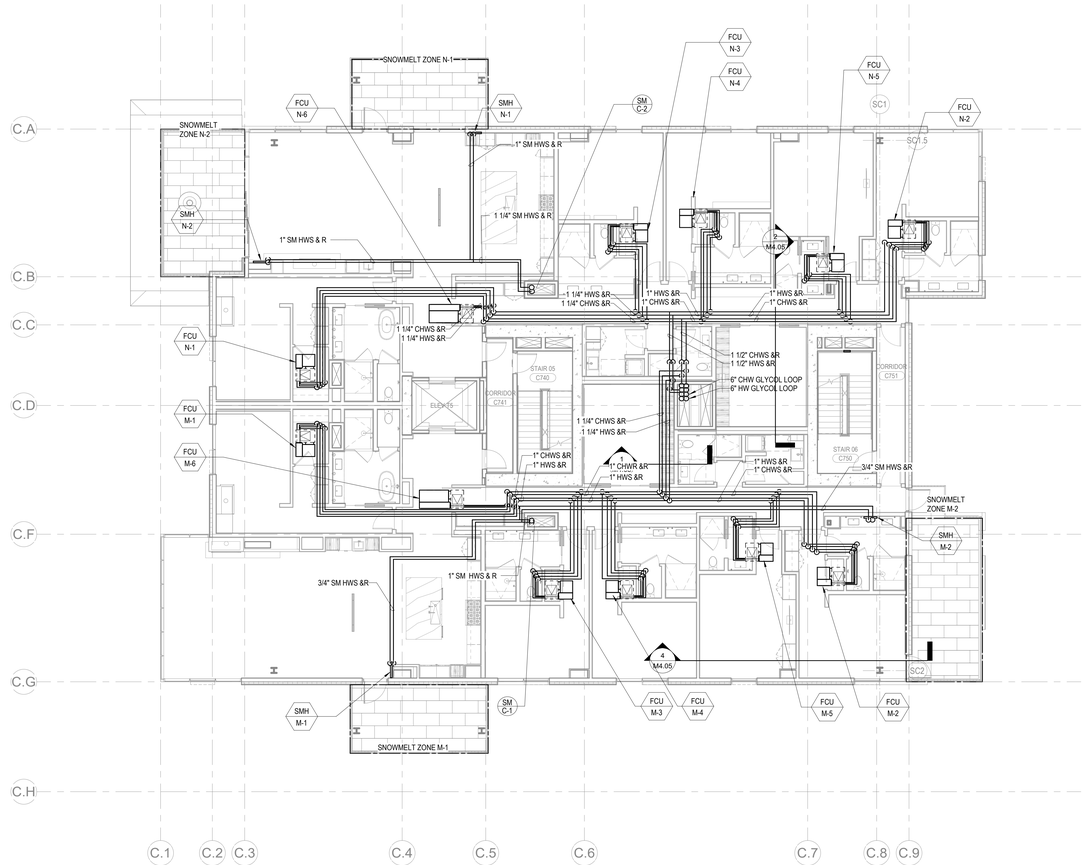
05/17/2024

TOWER C - LVL 6 MECHANICAL PIPING PLAN

M3.2C.16



1 TOWER C - LEVEL 7 MECHANICAL PIPING PLAN

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

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

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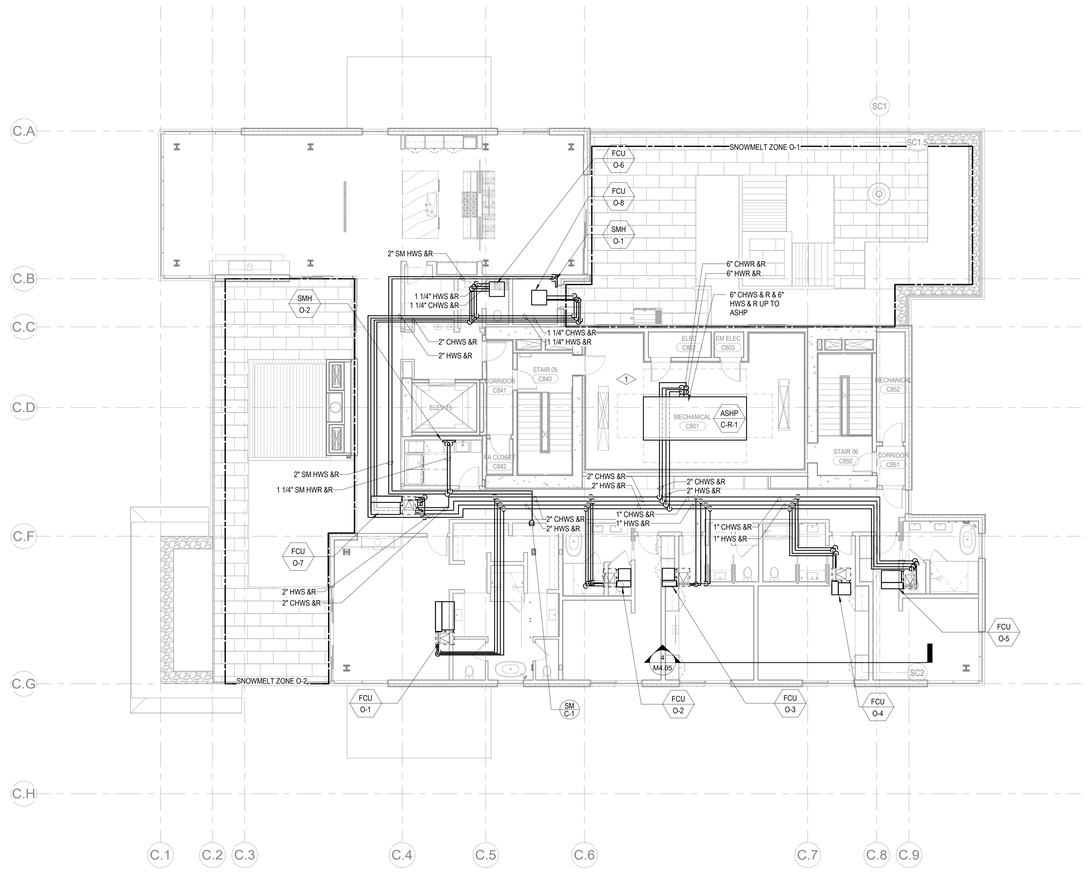
05/17/2024

N 0 2' 4' 6' 8' 16' 24'

TOWER C - LVL 7 MECHANICAL PIPING PLAN

M3.2C.17



1 TOWER C - LEVEL 8 MECHANICAL PIPING PLAN

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

SHEET NOTES:

A. ALL BRANCH PIPING SIZE OF CHILLED WATER AND HOT WATER TO FAN COIL UNIT IS 1" UNLESS OTHERWISE NOTED.

B. ALL BRANCH PIPING SIZE OF HOT WATER TO FAN POWERED TERMINAL UNIT IS 1" UNLESS OTHERWISE NOTED.

C. ROUTE 3/4" CONDENSATE FROM FPTS AND FCUS TO NEAREST SINK TAILPIECE PER DETAIL M5.06/8.

NUMBERED NOTES:

1 PROVIDE HEAT TRACE ON ALL EXPOSED PIPING. REFER TO ELECTRICAL DRAWINGS FOR 120/1 CONNECTION

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IFC Set 2 of 3
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N 0 2' 4' 6' 8' 16' 24'

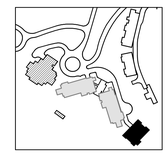
TOWER C - LVL 8 MECHANICAL PIPING PLAN

M3.2C.18

1 TOWER C - ROOF MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES:

NUMBERED NOTES:



N 0 2' 4' 6' 8' 16' 24'

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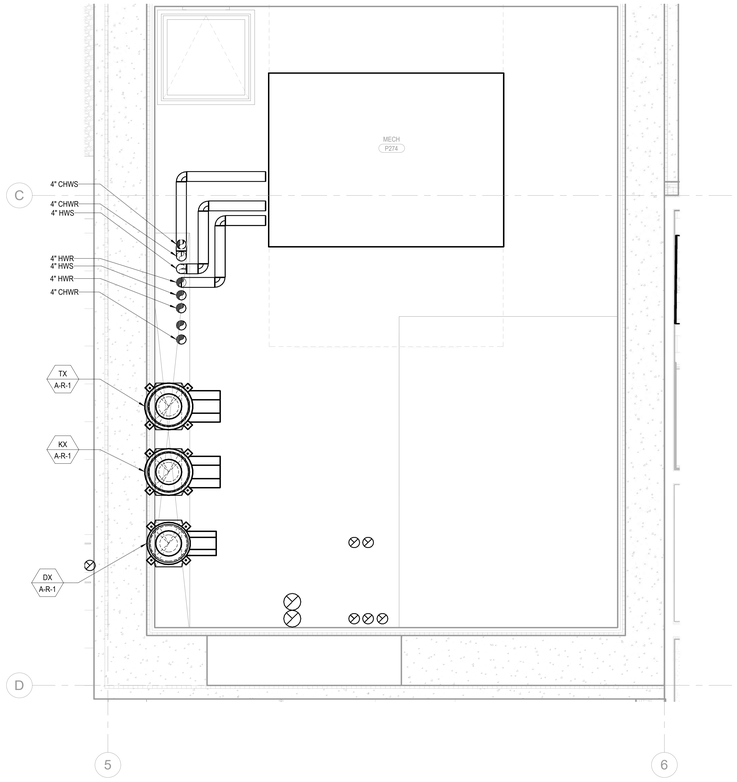
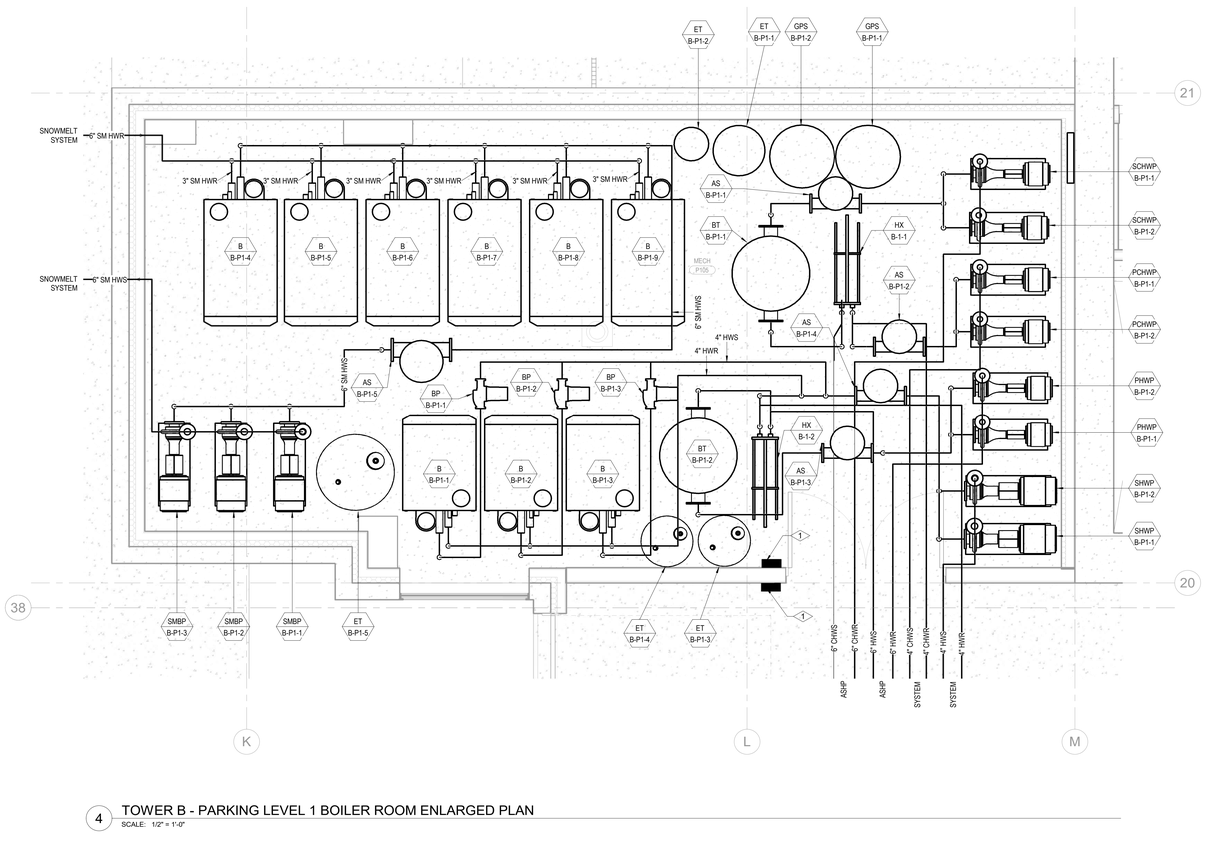
TOWER C - ROOF MECHANICAL PIPING PLAN

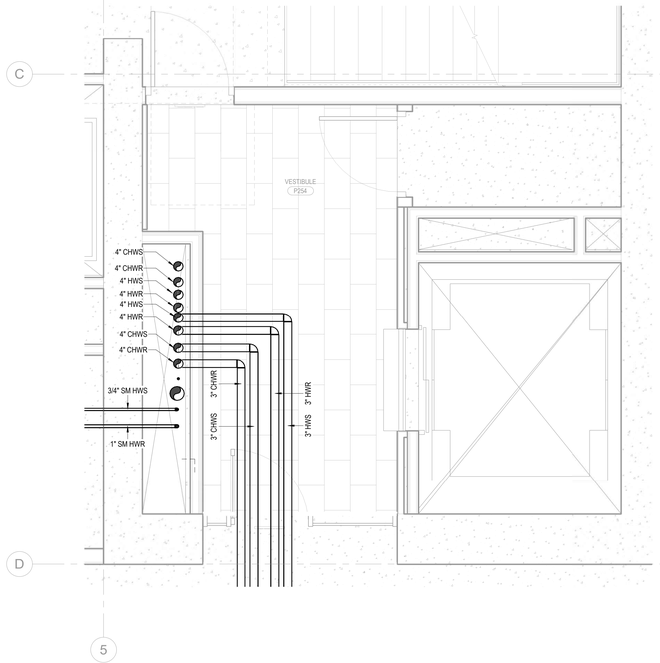
M3.2C.R



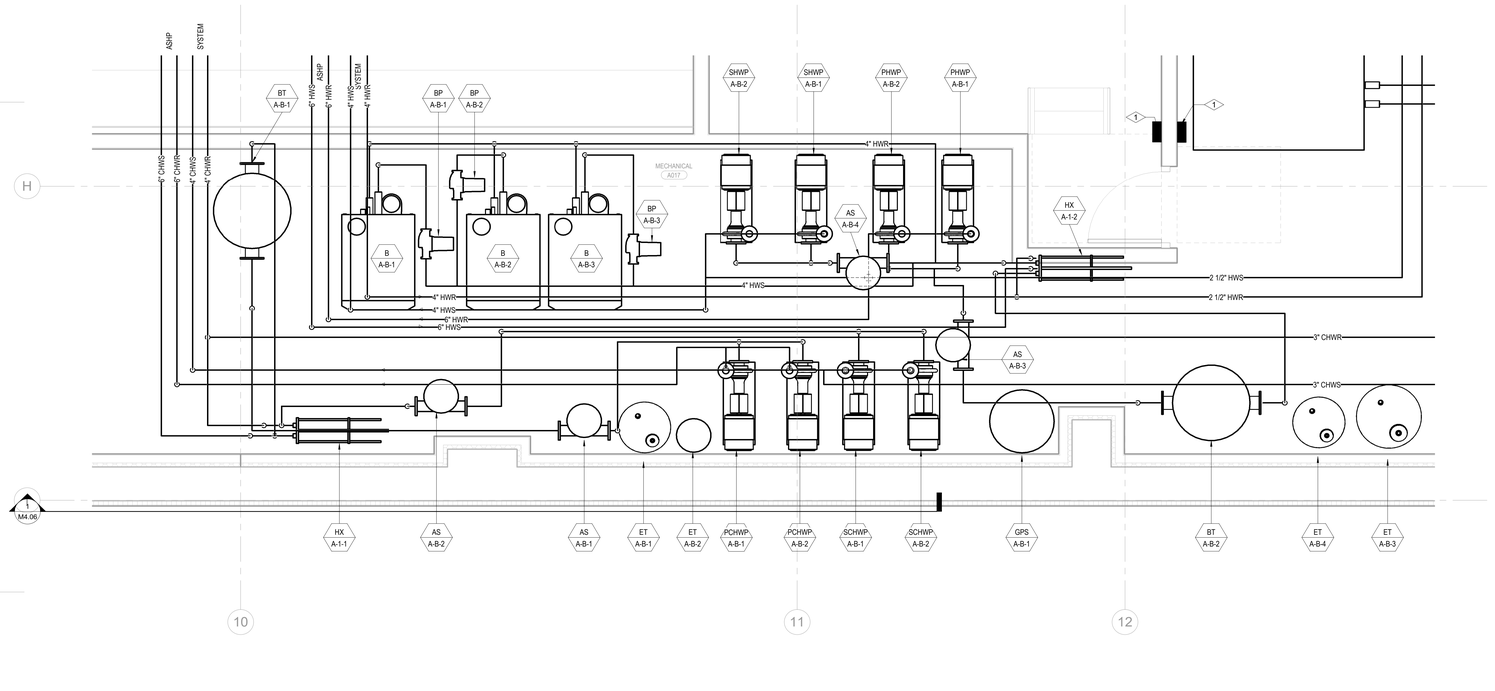
3 TOWER A - LEVEL 6 MECHANICAL PIPING PLAN - Callout 1
SCALE: 1/2" = 1'-0"



4 TOWER B - PARKING LEVEL 1 BOILER ROOM ENLARGED PLAN
SCALE: 1/2" = 1'-0"



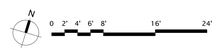
2 TOWER A - PARKING LEVEL 2 MECHANICAL PIPING PLAN - Callout 1
SCALE: 1/2" = 1'-0"



1 TOWER A - LEVEL A BOILER ROOM ENLARGED PLAN
SCALE: 1/2" = 1'-0"

NUMBERED NOTES:

1 PROVIDE EMERGENCY BOILER SHUTOFF SWITCH WITH AUDIBLE/VISUAL ALARM ON BOTH INTERIOR AND EXTERIOR OF ROOM.



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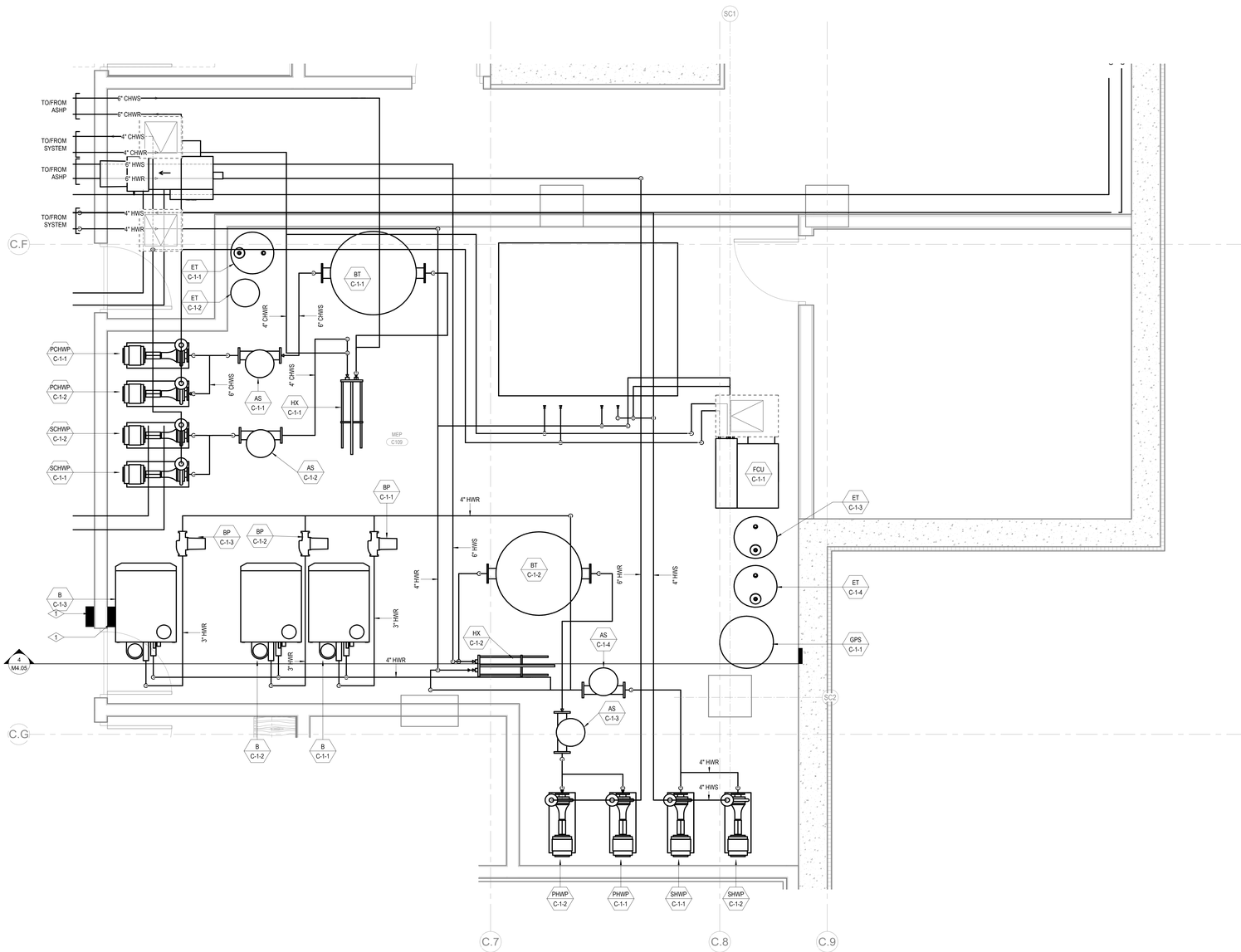
5/17/2024

MECHANICAL
ENLARGED PLANS

M4.01



1 TOWER C - LEVEL 1 ENLARGED MECHANICAL PIPING PLAN

SCALE: 1/2" = 1'-0"

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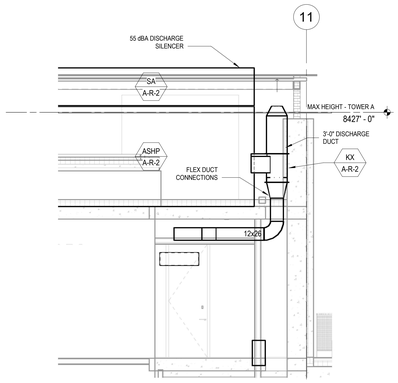
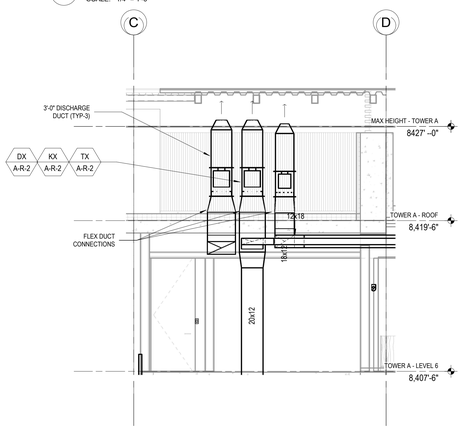
MECHANICAL
ENLARGED PLANS

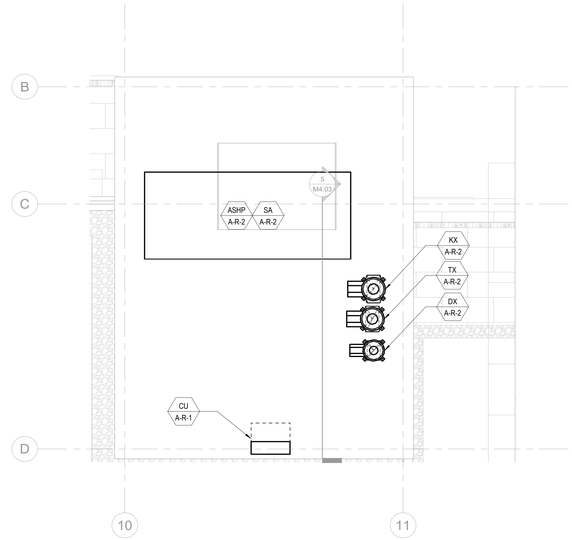
M4.02



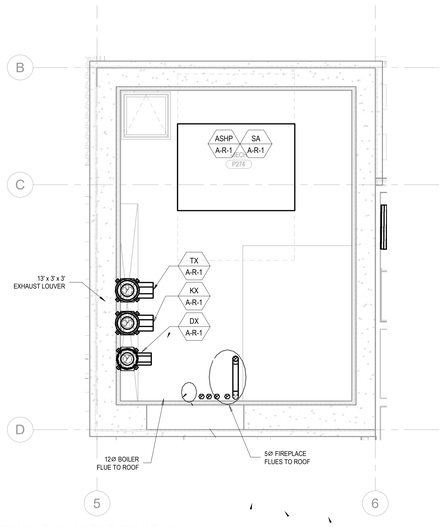
6 TOWER A ROOF - EAST SECTION 2
SCALE: 1/4" = 1'-0"



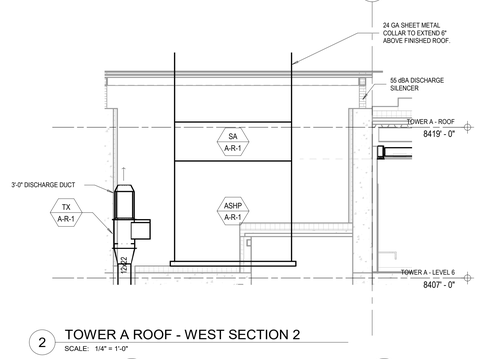
5 TOWER A ROOF - EAST SECTION 1
SCALE: 1/4" = 1'-0"



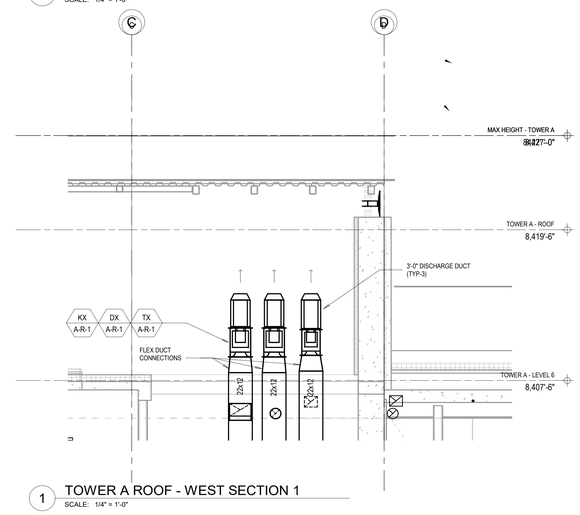
7 TOWER A - EAST ROOF WELL
SCALE: 1/4" = 1'-0"



3 TOWER A - WEST ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER A ROOF - WEST SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER A ROOF - WEST SECTION 1
SCALE: 1/4" = 1'-0"

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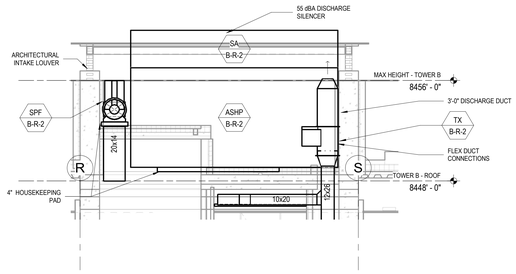
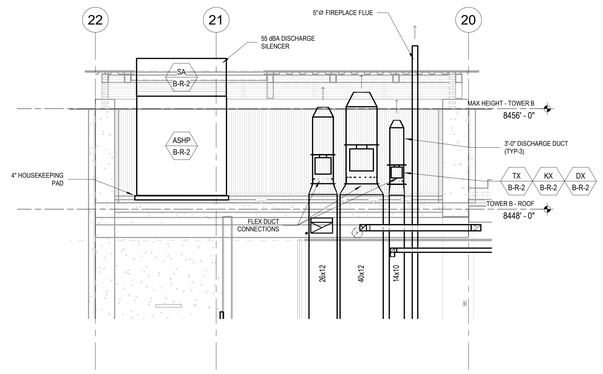
MECHANICAL ROOFTOP VIEWS - TOWER A

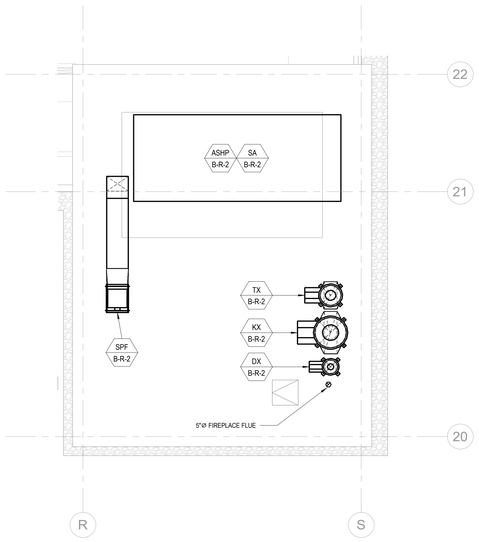
M4.03



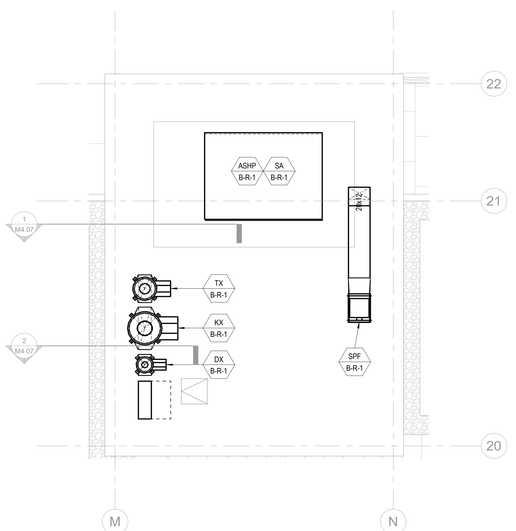
6 TOWER B ROOF - SOUTH SECTION 2
SCALE: 1/4" = 1'-0"



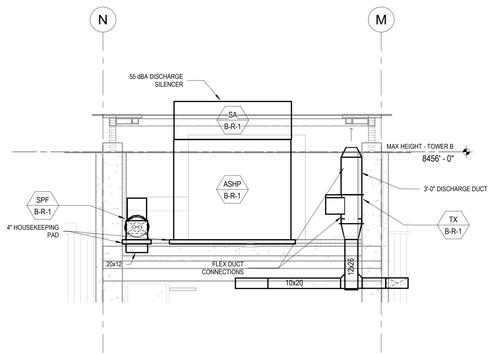
5 TOWER B ROOF - SOUTH SECTION 1
SCALE: 1/4" = 1'-0"



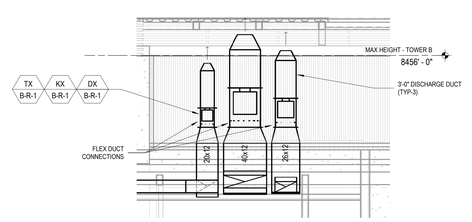
4 TOWER B - SOUTH ROOF WELL
SCALE: 1/4" = 1'-0"



3 TOWER B - NORTH ROOF WELL
SCALE: 1/4" = 1'-0"



2 TOWER B ROOF - NORTH SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER B ROOF - NORTH SECTION 1
SCALE: 1/4" = 1'-0"

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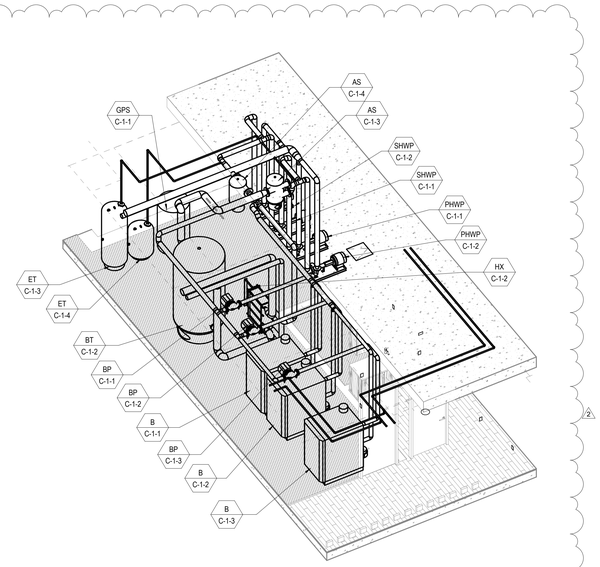
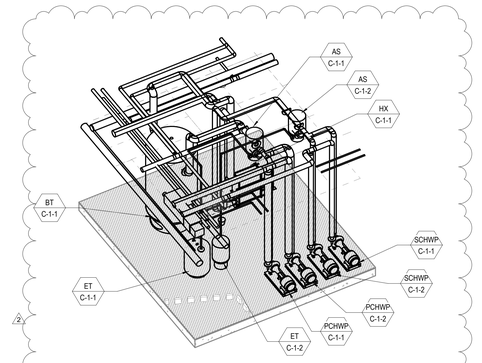
MECHANICAL ROOFTOP VIEWS - TOWER B

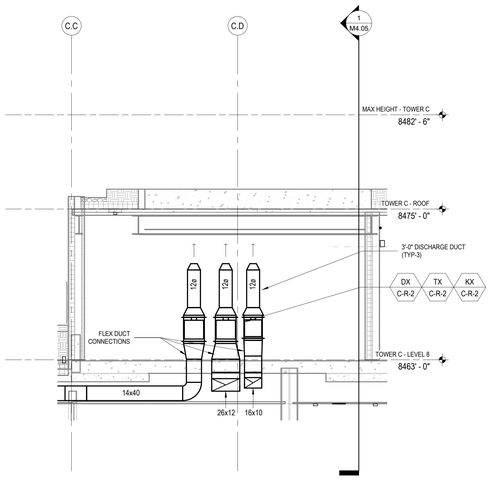
M4.04



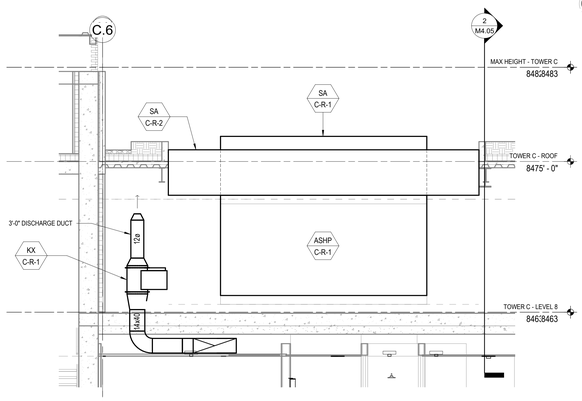
5 TOWER C - LEVEL 1 BOILER ROOM ISOMETRIC 1
SCALE:



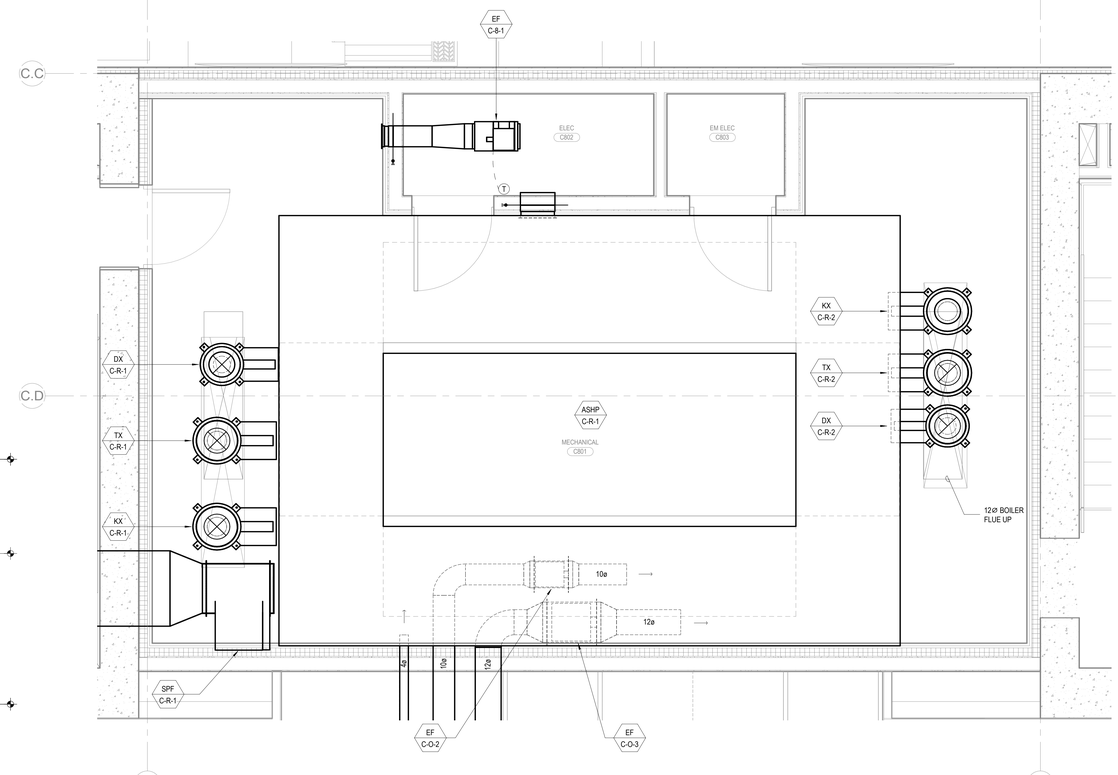
6 TOWER C - LEVEL 1 BOILER ROOM ISOMETRIC 2
SCALE:



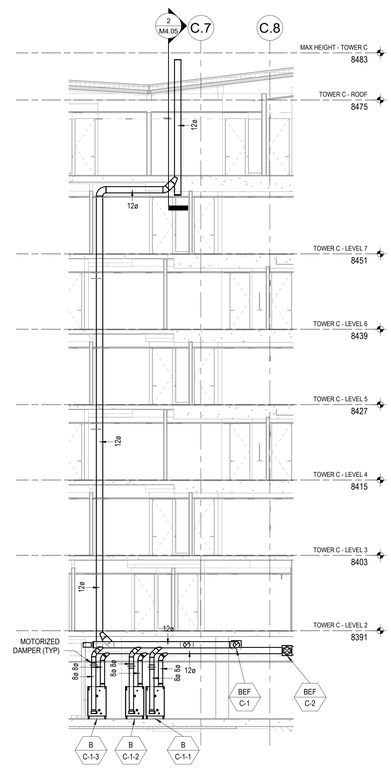
2 TOWER C MECHANICAL ROOM SECTION 2
SCALE: 1/4" = 1'-0"



1 TOWER C MECHANICAL ROOM SECTION 1
SCALE: 1/4" = 1'-0"



3 TOWER C MECHANICAL ROOF WELL ENLARGED
SCALE: 1/2" = 1'-0"



4 SECTION - TOWER C GAS-FIRED HEATING BOILER VENT
SCALE: 1/8" = 1'-0"

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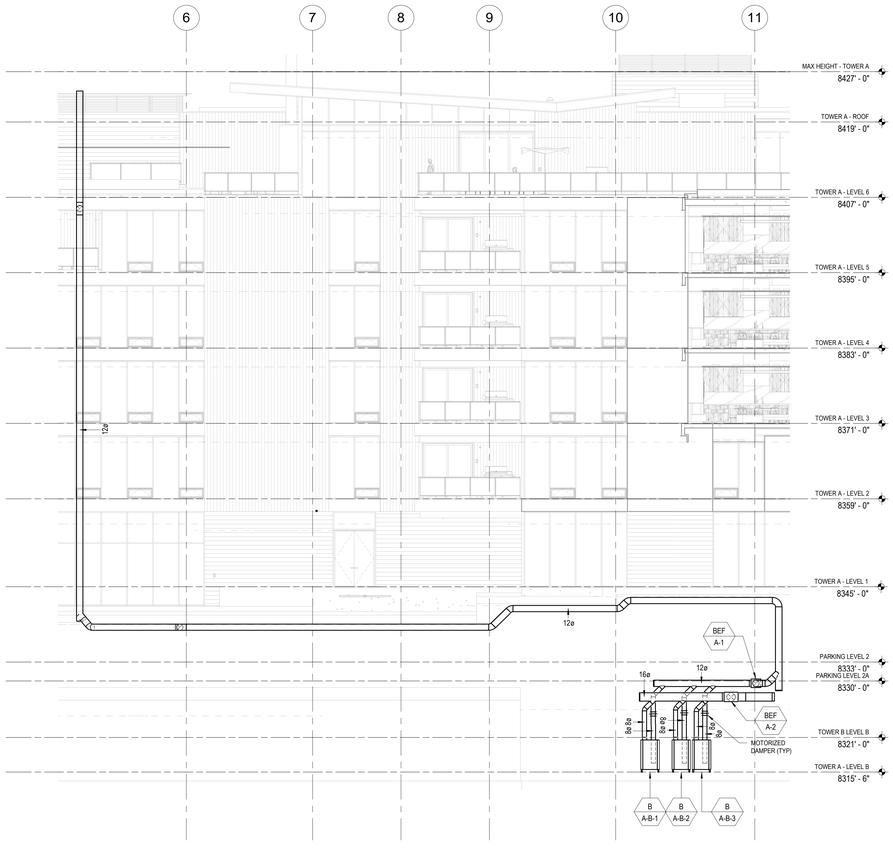
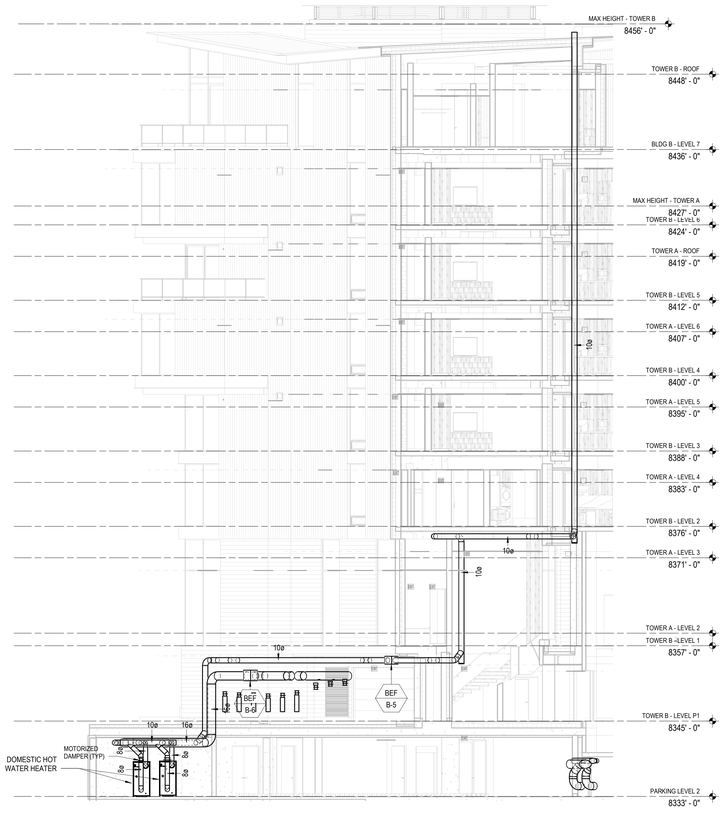
MECHANICAL
ENLARGED PLAN AND
VIEWS - TOWER C

M4.05



1 SECTION - TOWER A - HEATING GAS-FIRED BOILER AIR INTAKE AND VENT

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



2 SECTION - TOWER B - GAS-FIRED WATER HEATER AIR INTAKE AND VENT

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

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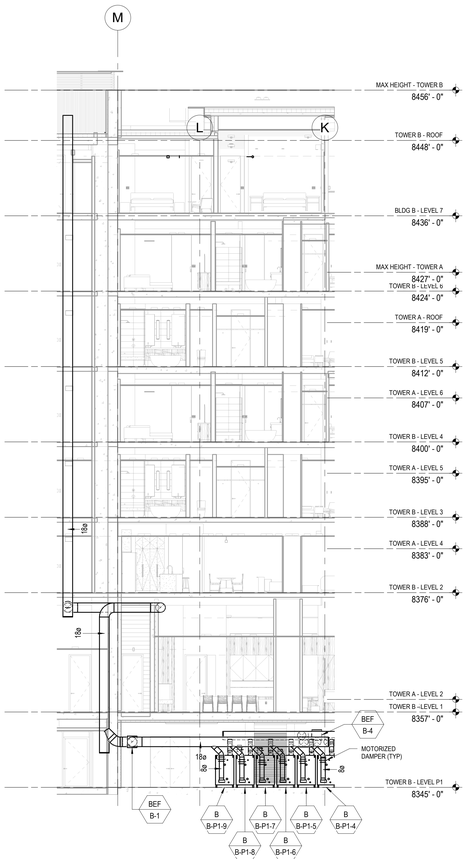
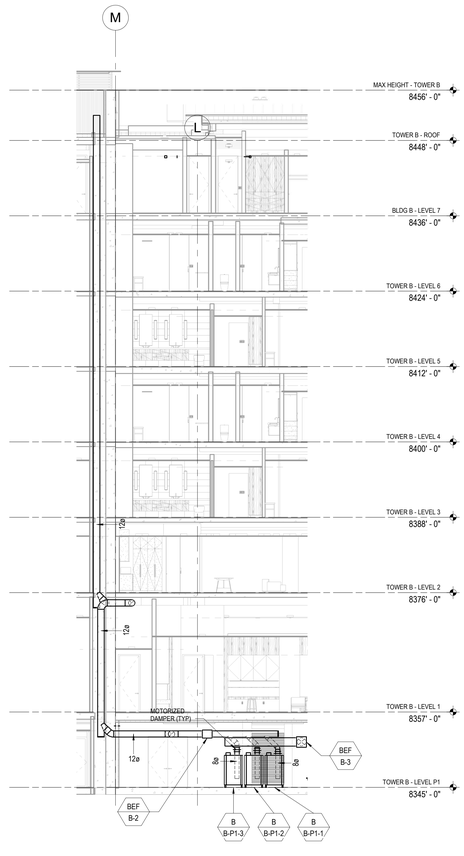
MECHANICAL SECTIONS - GAS-FIRED BOILER VENT

M4.06



1 SECTION - TOWER B - GAS-FIRED SNOWMELT BOILER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"



2 SECTION - TOWER B - GAS-FIRED HEATING BOILER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"

3 SECTION - TOWER B - GAS-FIRED POOL HEATER AIR INTAKE AND VENT
SCALE: 1/8" = 1'-0"

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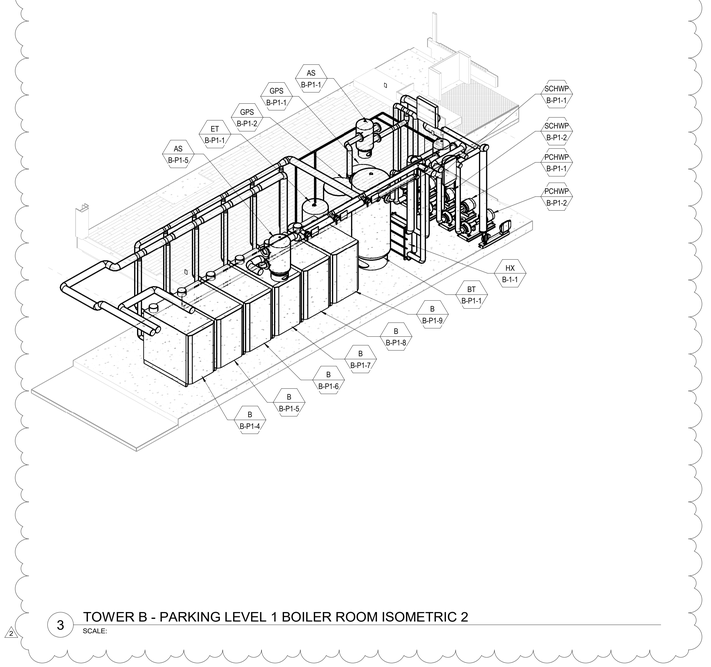
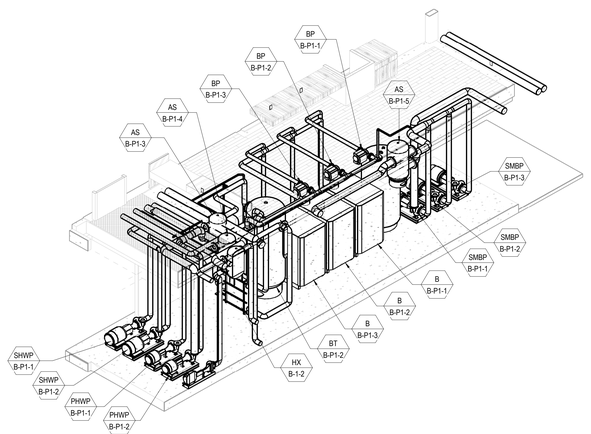
MECHANICAL SECTIONS - GAS-FIRED BOILER VENT

M4.07



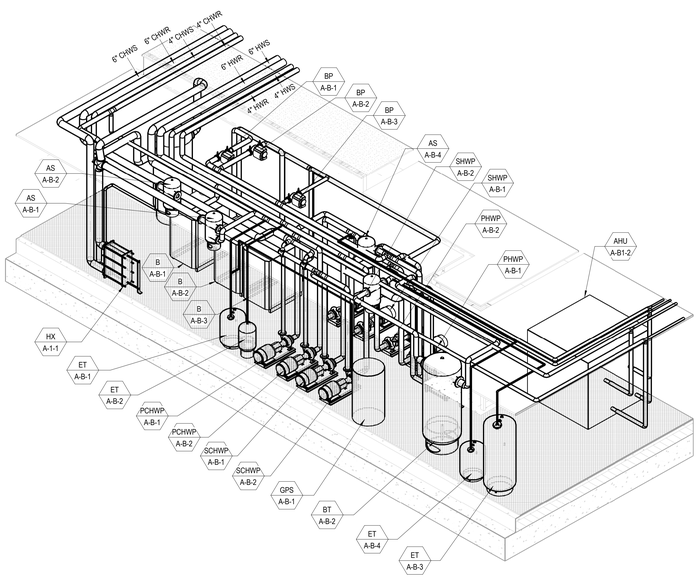
3 TOWER B - PARKING LEVEL 1 BOILER ROOM ISOMETRIC 2

SCALE:



2 TOWER B - PARKING LEVEL 1 BOILER ROOM ISOMETRIC 1

SCALE:



1 TOWER A - LEVEL A BOILER ROOM ISOMETRIC

SCALE:

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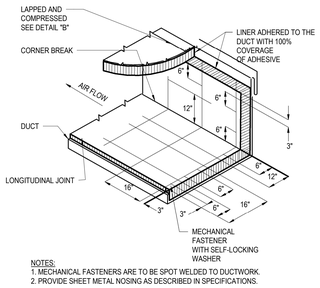
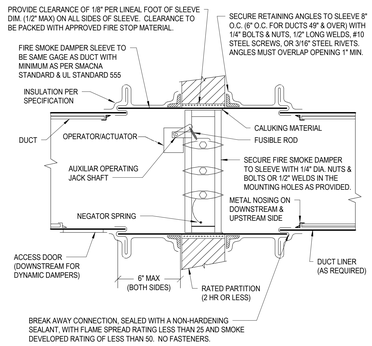
MECHANICAL BOILER ROOM ISOMETRICS

M4.08



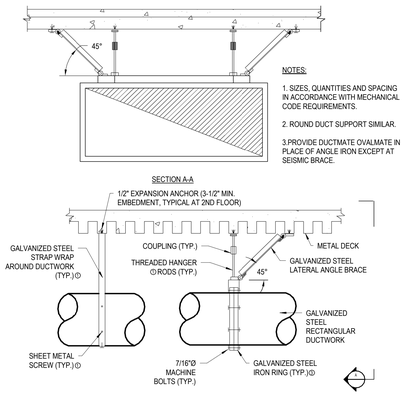
NOTES:
1. MECHANICAL FASTENERS ARE TO BE SPOT WELDED TO DUCTWORK.
2. PROVIDE SHEET METAL NOSING AS DESCRIBED IN SPECIFICATIONS.

11 ACOUSTICAL DUCT LINING DETAIL
SCALE: NTS



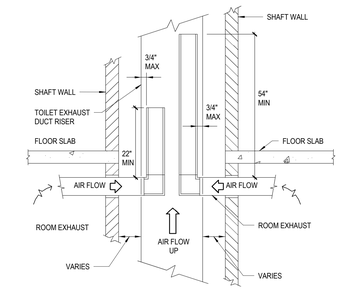
NOTES
1. THE FIRE SMOKE DAMPER MANUFACTURERS' INSTILLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY UL MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.

9 COMBINATION FIRE&SMOKE DAMPER 1.5 HR FR LEAK CLASS 1
SCALE: NTS

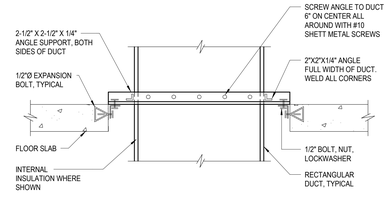


NOTES:
1. SIZES, QUANTITIES AND SPACING IN ACCORDANCE WITH MECHANICAL CODE REQUIREMENTS.
2. ROUND DUCT SUPPORT SIMILAR.
3.PROVIDE DUCTMATE OVALMATE IN PLACE OF ANGLE IRON EXCEPT AT SEISMIC BRACE.

6 DUCT SUPPORT DETAIL - A
SCALE: NTS

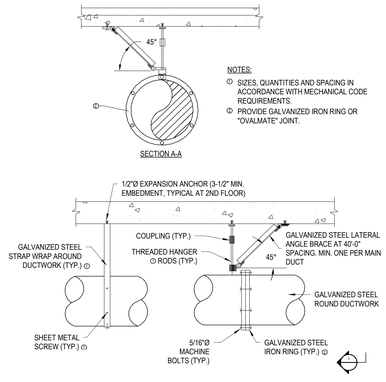


3 DOUBLE EXHAUST RISER CONNECTION
SCALE: NTS

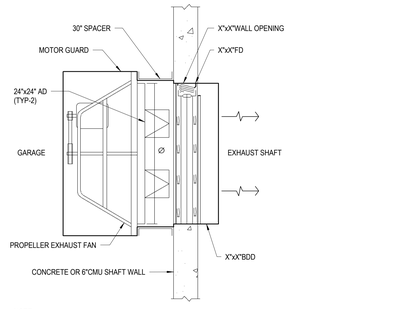


NOTES:
1. SUPPORT EACH FLOOR.
2. SUPPORT OF ROUND DUCT SIMILAR EXCEPT SCREW CLAMP TO DUCT SAMESIZE AS DUCT OUTSIDE DIAMETER AND BOLT CLAMP TO ANGLE SUPPORTS.
3. SIZE SUPPORT ANGLES AND DUCT CLAMPS AS REQUIRED TO SUPPORT WEIGHT OF DUCTWORK.
4. OMIT SCREWS AT FUME EXHAUST DUCTS AND BOLT ANGLES TO DUCT COMPANION ANGLE FLANGES.

10 DUCT RISER SUPPORT - A
SCALE: NTS

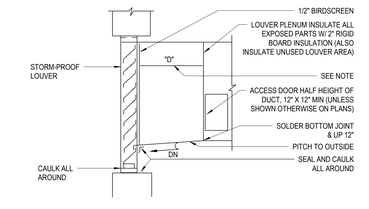


60 DUCT SUPPORT DETAIL - B
SCALE: NTS



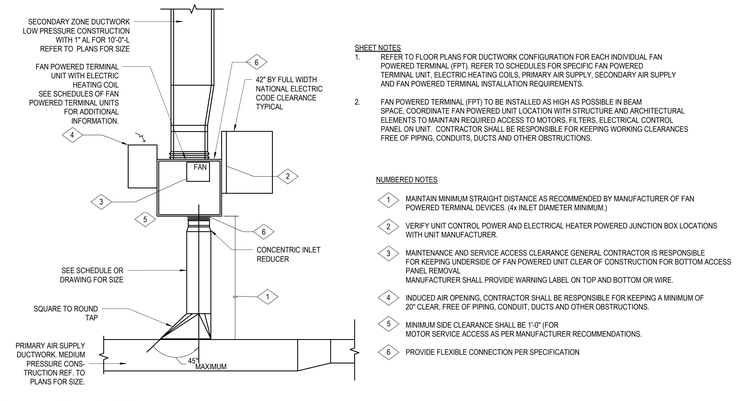
NOTE:
THE WALL OPENING, FD AND BDD ARE SQUARE AND SIZED TO MATCH THE FAN WHEEL DIAMETER SHOWN ON THE FAN SCHEDULE.

5 GARAGE PROPELLER EXHAUST FAN MOUNTING DETAIL
SCALE: NTS



NOTE:
WHEN "D" IS OVER 24" PROVIDE 3/4" DRAIN AT 5'-0" CENTERS (IF DEPTH INTO PAPER IS GREATER THAN 5'-0"), 6" FROM LOUVER WITH TRAP

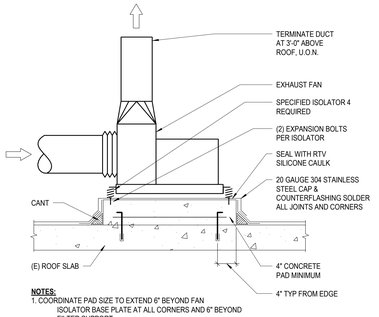
2 LOUVER CONNECTION DETAIL
SCALE: NTS



SHEET NOTES
1. REFER TO FLOOR PLANS FOR DUCTWORK CONFIGURATION FOR EACH INDIVIDUAL FAN POWERED TERMINAL (FPT). REFER TO SCHEDULES FOR SPECIFIC FAN POWERED TERMINAL UNIT, ELECTRIC HEATING COILS, PRIMARY AIR SUPPLY, SECONDARY AIR SUPPLY AND FAN POWERED TERMINAL INSTALLATION REQUIREMENTS.
2. FAN POWERED TERMINAL (FPT) TO BE INSTALLED AS HIGH AS POSSIBLE IN BEAM SPACE, COORDINATE FAN POWERED UNIT LOCATION WITH STRUCTURE AND ARCHITECTURAL ELEMENTS TO MAINTAIN REQUIRED ACCESS TO MOTORS, FILTERS, ELECTRICAL CONTROL PANEL ON UNIT. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING WORKING CLEARANCES FREE OF PIPING, CONDUITS, DUCTS AND OTHER OBSTRUCTIONS.

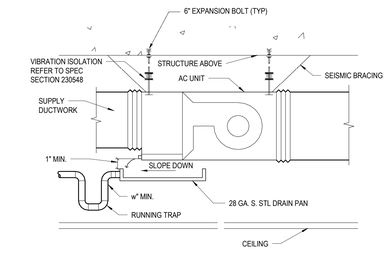
NUMBERED NOTES
1. MAINTAIN MINIMUM STRAIGHT DISTANCE AS RECOMMENDED BY MANUFACTURER OF FAN POWERED TERMINAL DEVICES. (4x INLET DIAMETER MINIMUM.)
2. VERIFY UNIT CONTROL POWER AND ELECTRICAL HEATER POWERED JUNCTION BOX LOCATIONS WITH UNIT MANUFACTURER.
3. MAINTENANCE AND SERVICE ACCESS CLEARANCE GENERAL CONTRACTOR IS RESPONSIBLE FOR KEEPING UNDERSIDE OF FAN POWERED UNIT CLEAR OF CONSTRUCTION FOR BOTTOM ACCESS PANEL REMOVAL.
MANUFACTURER SHALL PROVIDE WARNING LABEL ON TOP AND BOTTOM OR WIRE.
4. INDUCED AIR OPENING, CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A MINIMUM OF 20" CLEAR, FREE OF PIPING, CONDUIT, DUCTS AND OTHER OBSTRUCTIONS.
5. MINIMUM SIDE CLEARANCE SHALL BE 1'-0" (FOR MOTOR SERVICE ACCESS AS PER MANUFACTURER RECOMMENDATIONS.
6. PROVIDE FLEXIBLE CONNECTION PER SPECIFICATION

7 FAN POWER BOX
SCALE: NTS



NOTES:
1. COORDINATE PAD SIZE TO EXTEND 6" BEYOND FAN ISOLATOR BASE PLATE AT ALL CORNERS AND 6" BEYOND FILTER SUPPORT.
PROVIDE DRAIN AT BOTTOM OF FAN HOUSING.
2.SEE ARCHITECTURAL DRAWINGS FOR ATTACHMENT DETAIL.
3. COORDINATE LOCATION PAD SIZE AND ATTACHEMENT TO
4. STRUCTURE WITH ARCHITECT.

4 ROOF MOUNTED EXHAUST FAN - A
SCALE: NTS



1 HORIZONTAL FCU MOUNTING
SCALE: NTS

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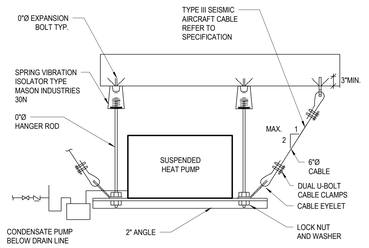
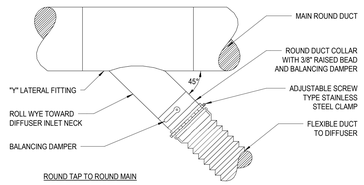
MECHANICAL DETAILS
M5.01

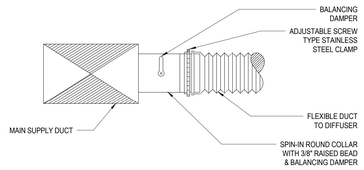


NOTES:
1. HANGER SPACING ALONG LENGTH OF UNIT TO BE AS FOLLOWS: MINIMUM - 2 HANGERS MAXIMUM SPACING 6'-0"
2. PROVIDE ADEQUATE SEISMIC CABLE BRACING TO RESIST MOTION IN ALL LATERAL DIRECTIONS
3. REFER TO SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES (LATEST EDITION) FOR MECHANICAL SYSTEMS.
4. PROVIDE CABLE SWAY BRACING IN LONGITUDINAL AND TRANSVERSE DIRECTION AT ALL FOUR CONRNERS.

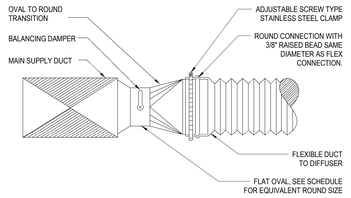
9 SUSPENDED EQUIPMENT WITH SEISMIC CABLES - A
SCALE: NTS



ROUND TAP TO ROUND MAIN



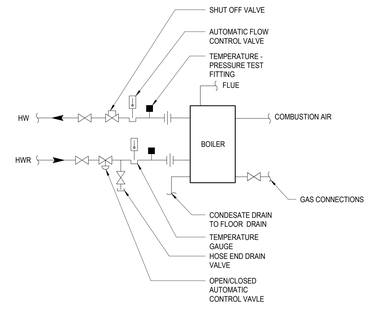
ROUND TAP TO RECTANGULAR MAIN (TAP SMALLER THAN MAIN)



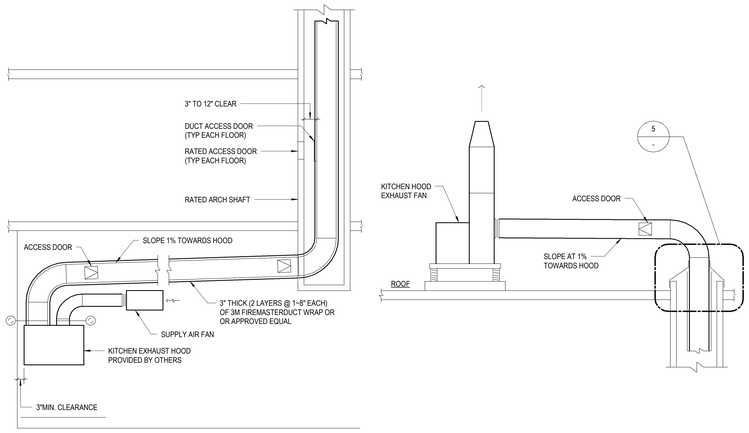
FLAT OVAL EQUIVALENT ROUND	
ROUND Ø	FLAT OVAL INCHES
6"	4x9
7"	5x10
8"	6x11
10"	6x11
12"	7x20
14"	8x22
16"	8x30

ROUND TAP TO RECTANGULAR MAIN (TAP LARGER THAN MAIN)

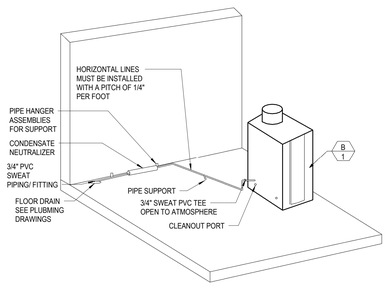
6 LOW PRESSURE BRANCH DUCT CONNECTIONS
SCALE: NTS



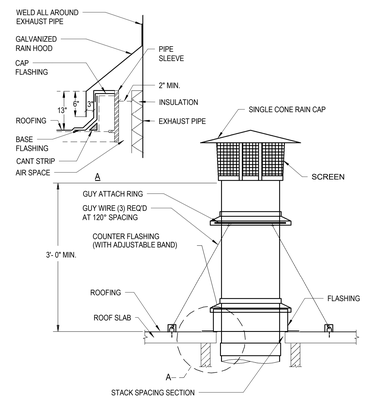
3 BOILER CONNECTION DETAIL
SCALE: NTS



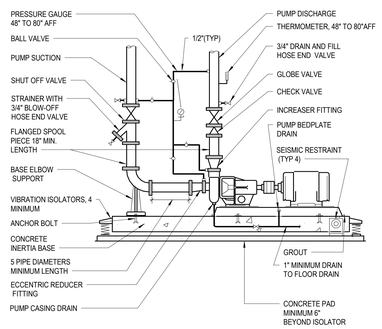
8 KITCHEN HOOD EXHAUST RISER DETAIL
SCALE: NTS



5 BOILER CONDENSATE DRAIN DETAIL
SCALE: NTS

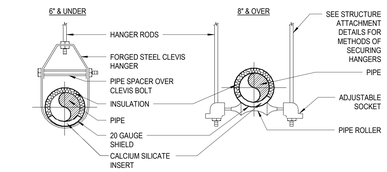


2 CONDENSING BOILER FLUE THRU ROOF
SCALE: NTS



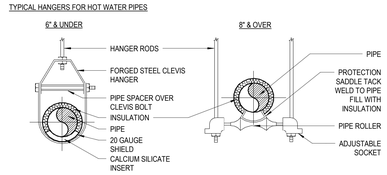
7 END SUCTION PUMP
SCALE: NTS

TYPICAL HANGERS FOR CHILLED AND CONDENSER WATER PIPES

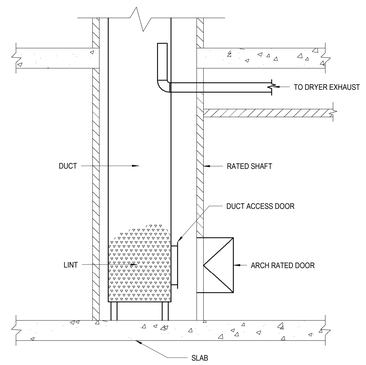


NOTE: OMIT INSULATION & CALCIUM SILICATE FOR NON-INSULATED PIPES.

TYPICAL HANGERS FOR HOT WATER PIPES



4 HOT AND CHILLED WATER PIPE HANGER SINGLE PIPE
SCALE: NTS



1 DRYER EXHAUST LINT TRAP
SCALE: NTS

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checked by Checker
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revisions:

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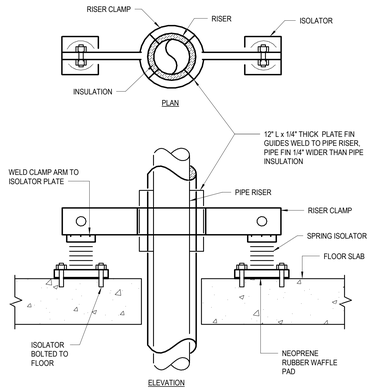
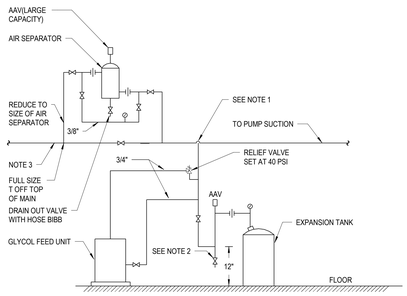
MECHANICAL DETAILS
M5.02



4 PIPE RISER ISOLATORS

SCALE: NTS



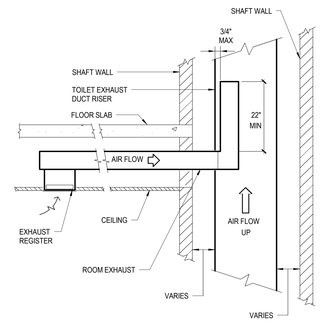
NOTES:

1. CONNECT TO SIDE OF MAIN TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK. TOP OR BOTTOM CONNECTION NOT PERMITTED.

2. PROVIDE ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK.

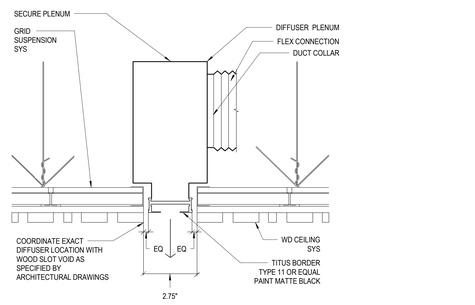
6 EXPANSION TANK AND AIR SEPARATOR CONNECTIONS

SCALE: NTS



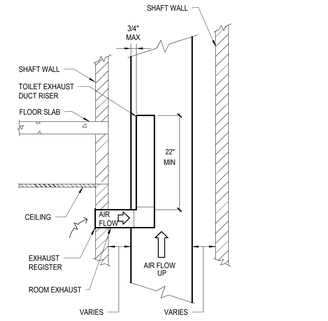
3 SINGLE EXHAUST RISER CONNECTION - B

SCALE: NTS



5 LINEAR DIFFUSER IN WOOD SLAT CEILING

SCALE: NTS

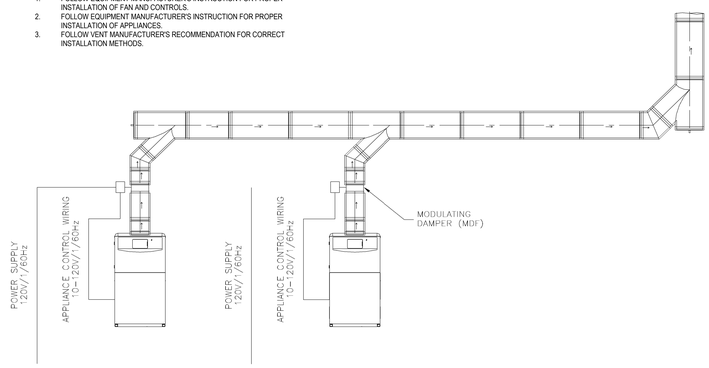


2 SINGLE KITCHEN EXHAUST RISER CONNECTION - A

SCALE: NTS

NOTES:

1. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTION FOR PROPER INSTALLATION OF FAN AND CONTROLS.
2. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTION FOR PROPER INSTALLATION OF APPLIANCES.
3. FOLLOW VENT MANUFACTURER'S RECOMMENDATION FOR CORRECT INSTALLATION METHODS.



1 COMBINED GAS-FIRED BOILER VENT

SCALE: NTS

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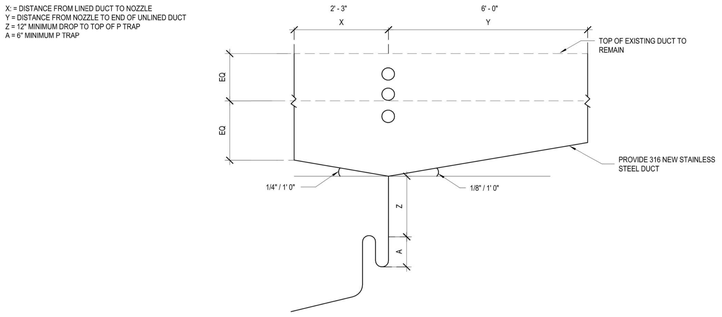
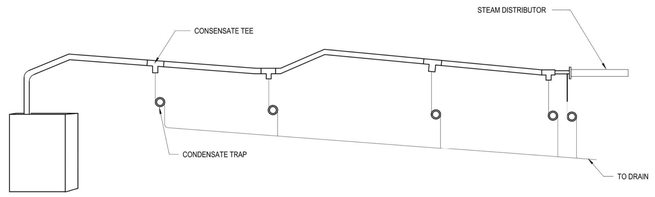
MECHANICAL DETAILS

M5.03

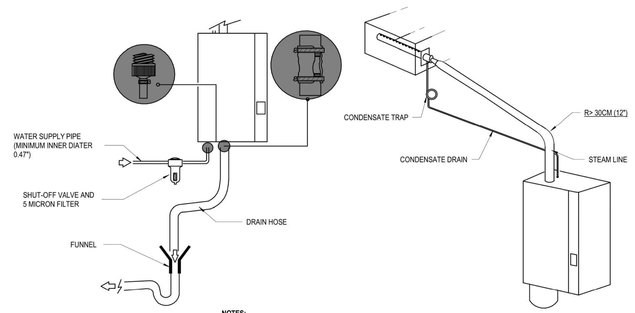


12 HUMIDIFIER DUCT
SCALE: NTS



1. CONDENSATE TEE
   A. NEED A CONDENSATE TEE EVERY 15FT
   B. INSTALL CONDENSATE TEE AT LOW POINTS
   C. INSTALL CONDENSTATE TEE BEFORE DISTRIBUTOR

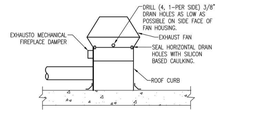
11 LONG STEAM LINE WITH LIMITED CEILING SPACE
SCALE: NTS



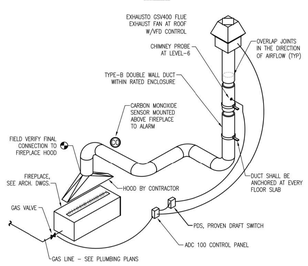
NOTES:

1. CONDENSATE
   A. CONDENSATE TRAP DIAMETER MINIMUM 6 IN AND LOCATED MINIMUM 12 IN BELOW CONDENSATE PORT OR "TEE" FITTING
   B. CONSTANT DRAIN MUST HAVE A MINIMUM DOWNSLOPE OF 1.2º
2. STEAM LINE
   A. MUST HAVE A MINIMUM OF 1FT BEFORE A TURN. THE TURN MUST HAVE A RADIUS OF 12in MINIMUM.
   B. MUST HAVE A CONSTANT MINIMUM UPSLOPE OF 10º, OR CONSTANT MINIMUM DOWNSLOPE OF 2º
3. DRAIN HOSE
   A. MUST BE LED TO THE LEFT AND HAVE A CONSTANT DOWNSLOPE MINIMIM OF DEGREE TO FUNNEL
   B. USING DI OR RO WATER. USE SUPPLIED DRAIN HOSE OR STAINLESS STEEL PIPE ONLY ABLE TO WITHSTAN MAX TEMPREATURE OF 140ºF
   C. DRAIN HOSE MUST NOT TOUCH THE FUNNEL

10 HUMIDIFIER
SCALE: NTS



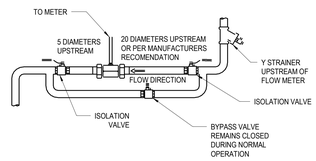
ELEVATION



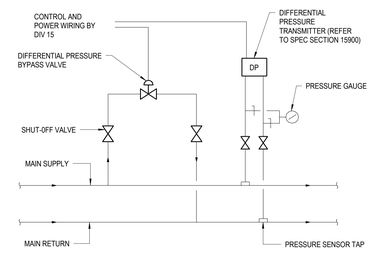
OPERATION:

1. FINAL FIREPLACE EXHAUST ENGINEERING TO BE CONFIRMED FOLLOWING RECEIPT OF MOCK-UP DATA FROM FIREPLACE FABRICATOR. FIREPLACE CONSULTANT SHALL REVIEW ALL DRAWINGS, SPECIFICATIONS, AND PRODUCT SUBMITTALS REGARDING FIREPLACE INSTALLATION AND OPERATION FOR COMPLIANCE WITH PRESIDING CODES.
2. FACE AREA OF FIREPLACE AND INPUT BTUH SHALL BE CONFIRMED WITH FIREPLACE CONSULTANT AND ARCHITECT FOR SELECTION OF FLUE AND FLUE EXHAUST FAN SIZING.
3. PROVIDE EXHAUSTO FAN OR APPROVED EQUAL WITH ROOF CURB. MANUFACTURER OF FLUE EXHAUST FAN SHALL ALSO PROVIDE AUTOMATED FIREPLACE SAFETY SYSTEM WITH CONTROL RELAY PER NFPA54/1FTCX, PROVEN DRAFT SWITCH, DUCTWORK PROBE, AND DETAILED CONTROL SEQUENCE OF OPERATION WHICH WILL BE REVIEWED BY FIREPLACE CONSULTANT AND F+K.
4. GAS VALVE AND FLUE EXHAUST PERFORMANCE TO BE INTERLOCKED TO PREVENT THE FLOW OF GAS UNLESS EXHAUST DRAFT IN FLUE IS OPERATING PROPERLY AS MEASURED BY PROVEN DRAFT SWITCH.
5. WHEN GAS IGNITOR IS ACTIVATED, FLUE EXHAUST FAN WILL INCREASE TO OPERATING SPEED. AFTER A PRESET TIME AND PROVIDED THE PDS IS SATISFIED, FLOW OF GAS AT THE GAS VALVE WILL BE ALLOWED BY THE CONTROL RELAY.
6. IF PROPER DRAFT IS NOT MAINTAINED THE CONTROL RELAY WILL INCREASE FAN SPEED AND SHUT OFF GAS FLOW.
7. WHEN GAS IS OFF, FAN WILL CONTINUE TO OPERATE FOR A SET TIME TO RECOVER ANY REMAINING PRODUCTS OF COMBUSTION AFTER WHICH THE FAN WILL SHUT OFF.
8. IN CASE OF MECHANICAL OR ELECTRICAL FAILURE THE CONTROL RELAY WILL SHUT OFF THE FLOW OF GAS.
9. FLUE EXHAUST FAN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

9 FIREPLACE CONTROLS AND DETAILS
SCALE: NTS



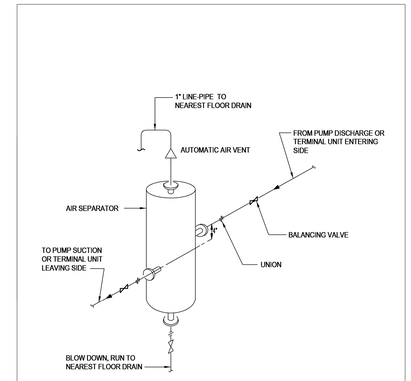
6 WATER FLOW METER INSTALLATION
SCALE: NTS



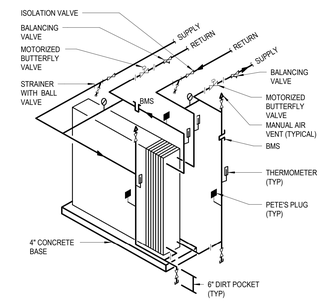
NOTE:

PROVIDE FOR ALL CONSTANT VOLUME CLOSED PUMPING SYSTEMS
SIZED FOR MIN 75% OF LARGEST CHILLED OR HOT WATER PUMP.
LOCATE APPROXIMATELY MID-POINT OF PIPING DOWNSTREAM OF PUMP IN ACCESSIBLE LOCATION, OR REFER TO DWG FOR LOCATION.

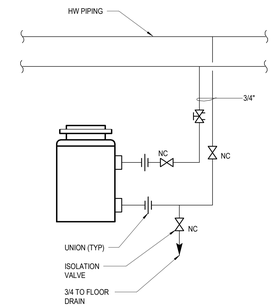
5 DIFFERENTIAL PRESSURE SENSOR
SCALE: NTS



4 BYPASS AIR SEPERATOR
SCALE: NTS

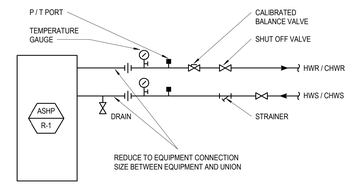


3 WATER TO WATER PLATE TYPE HEAT EXCHANGER PIPING
SCALE: NTS



NOTES:
1. PROVIDE 5 GALLON POT FEEDER FOR HEATING WATER SYSTEM

2 POT FEEDER
SCALE: NTS



1 ASHP PIPING
SCALE: NTS

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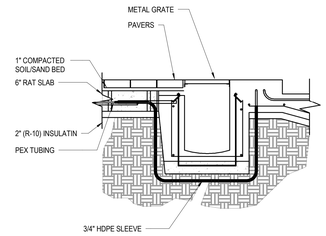
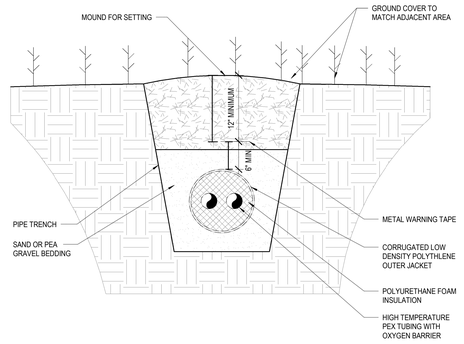
M5.04

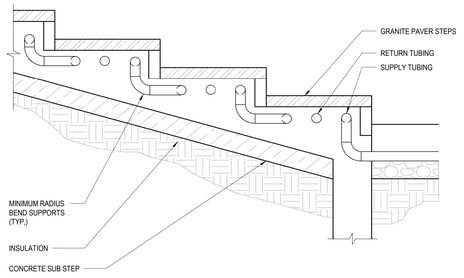


11 SECTION DETAIL - TRENCH DRAIN AT P4 PAVING & CONCRETE STAIR
SCALE: NTS

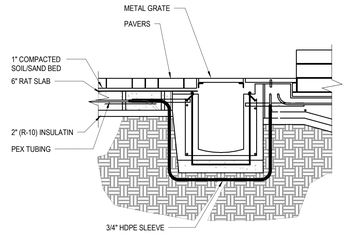
NOTE:
REFER TO ARCHITECHTURAL DRAWINGS FOR PAVING/GRADING CONSTRUCTION MATERIALS



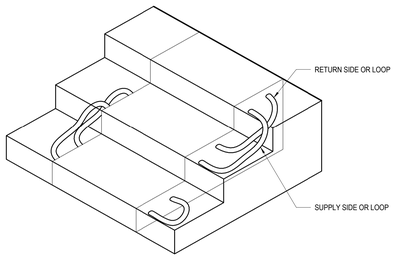
7 PRE- INSULATED SUPPLY AND RETURN PIPING
SCALE: NTS



6 STAIR STEP SNOWMELT TUBING SECTION
SCALE: NTS

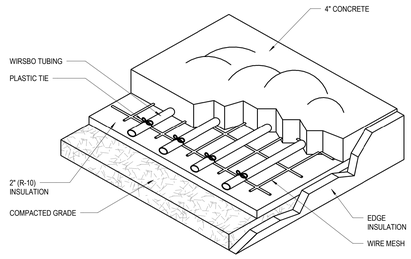


3 SECTION DETAIL - TRENCH DRAIN AT P1 PAVING & GRANITE STAIR
SCALE: NTS



NOTE: INSTALL PER MANUFACTURER INSULATION INSTRUCTION, USE MANUFACTURERS RECOMENDED LAYOUT.

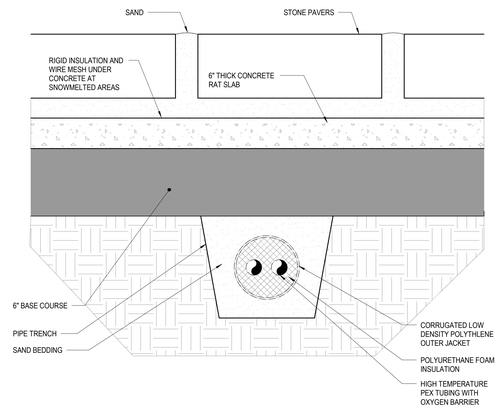
10 STAIR SNOWMELT DETAIL
SCALE: NTS



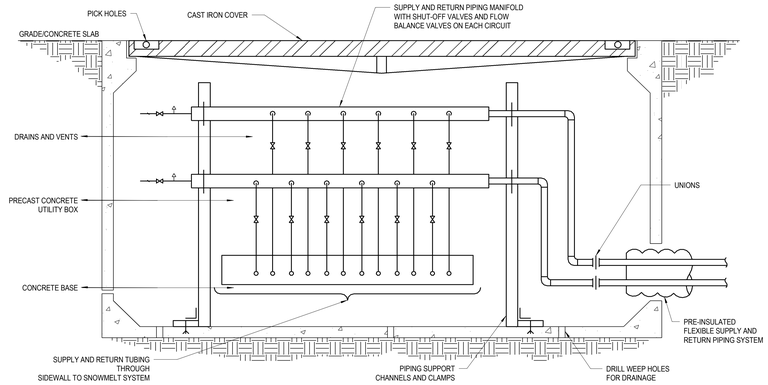
NOTE:
1. INSTALL PER MANUFACTURER INSULATION INSTRUCTION, USE MANUFACTURERS RECOMENDED LAYOUT.
2. TOP OF PEX TUBING TO BE2 1/2" CLEAR FOM TOP OF CONCRETE TO ALLOW FOR 2" SAW CUT PATTERN.

9 SNOWMELT UNDER CONCRETE
SCALE: NTS

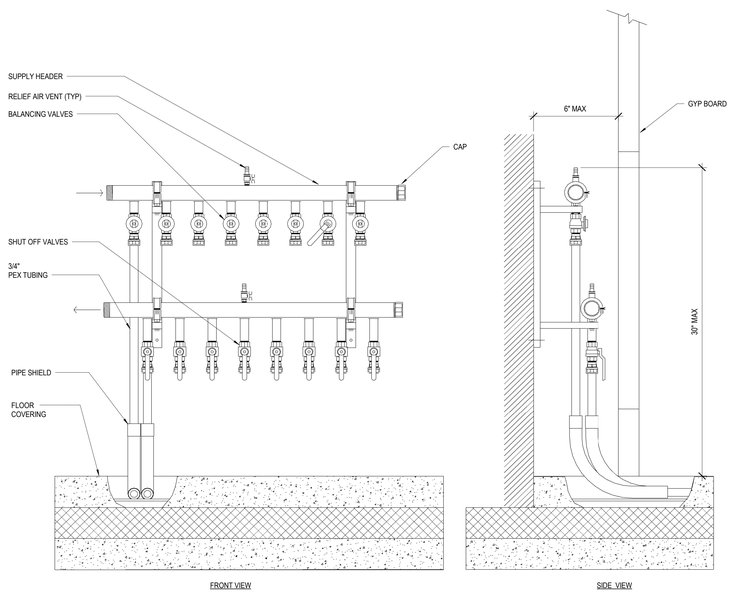
NOTE:
REFER TO ARCHITECHTURAL DRAWINGS FOR PAVING/GRADING CONSTRUCTION MATERIALS



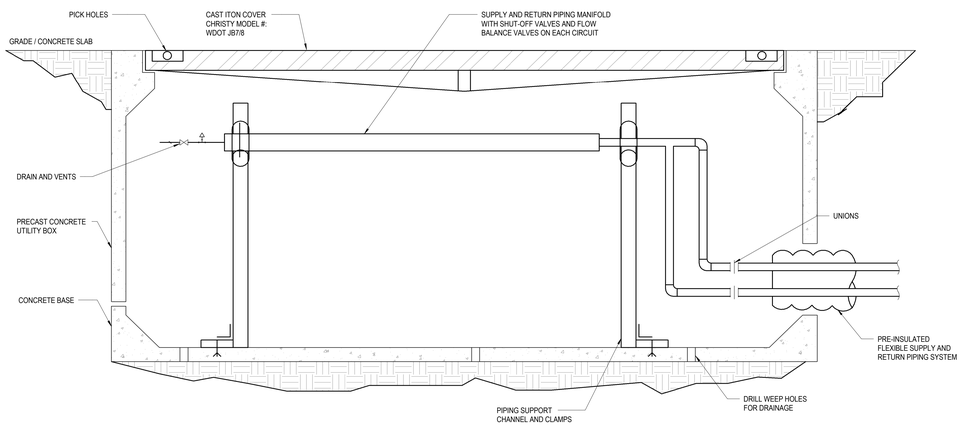
5 PRE - INSULATED SUPPLY AND RETURN PIPING WITH STONE PAVERS
SCALE: NTS



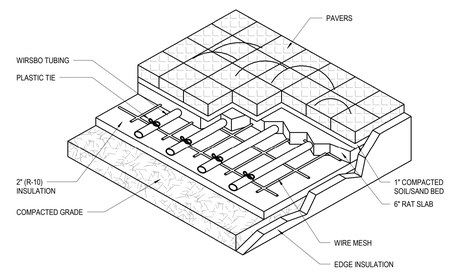
2 SNOWMELT MAINFOLD AND SIDEWALK BOX
SCALE: NTS



8 SNOW MELT MANIFOLD
SCALE: NTS



4 SNOWMELT MAINFOLD AND SIDEWALK BOX (SIDE VIEW)
SCALE: NTS



NOTE: INSTALL PER MANUFACTURER INSULATION INSTRUCTION, USE MANUFACTURERS RECOMENDED LAYOUT.

1 SNOWMELT UNDER PAVERS
SCALE: NTS

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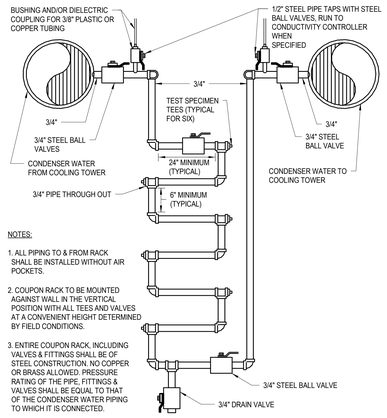
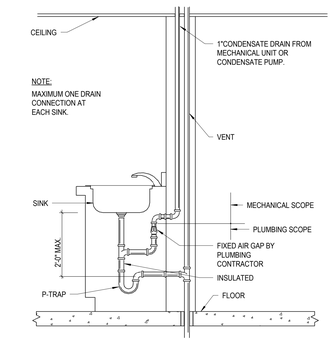
5/17/2024

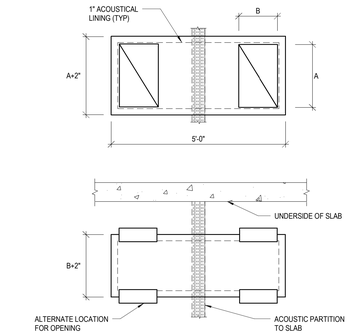
MECHANICAL DETAILS
M5.05



12 COUPON RACK
SCALE: NTS

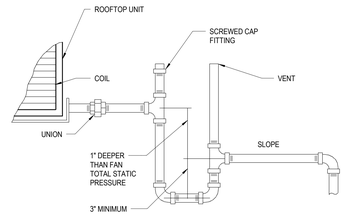


8 CONDENSATE DRAIN CONNECTION TO SINK AIR GAP FITTING
SCALE: NTS

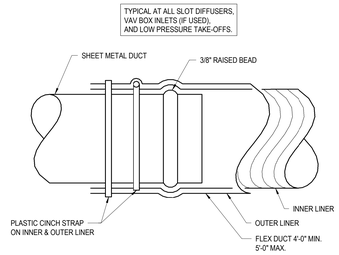


NOTE:
SEE PLAN FOR DUCT SIZE, DUCT DIMENSIONS ON PLANS ARE CLEAR, INSIDE DIMENSIONS.

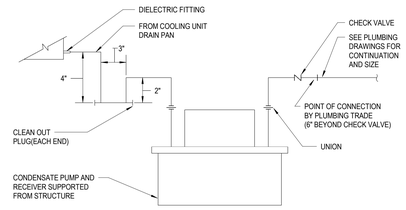
4 ACOUSTICAL TRANSFER DUCT - A
SCALE: NTS



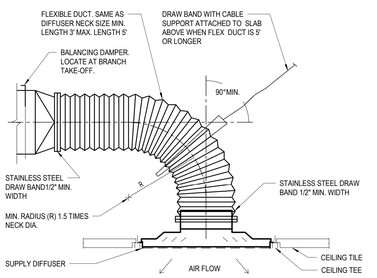
11 CONDENSATE DRAIN
SCALE: NTS



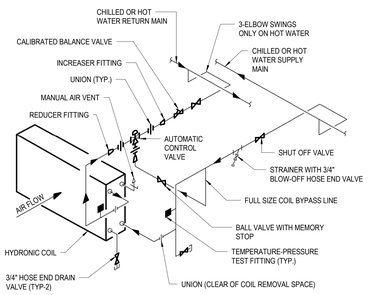
7 FLEXIBLE DUCT CONNECTION
SCALE: NTS



3 CONDENSATE PUMP PIPING DETAIL
SCALE: NTS

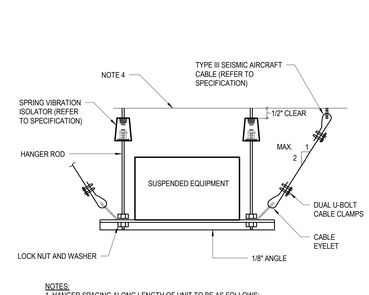


14 DIFFUSER CONNECTION DETAIL
SCALE: NTS



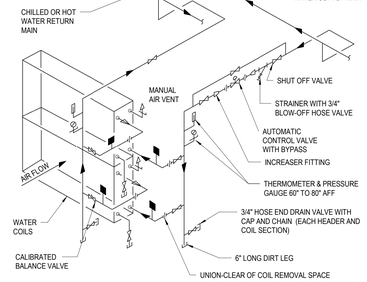
NOTES:
1. ALL BRANCH PIPING, SUPPLY, RETURN AND VERTICAL HEADERS TO BE FULL SIZE BOTTOM CONNECTION FROM MAIN (REFER TO DRAWINGS FOR PIPE SIZE).
2. ALL HORIZONTAL CONNECTIONS TO COIL FROM VERTICAL HEADERS TO BE SIZE OF COIL CONNECTION OUTLET/INLET, U.O.N.

10 SINGLE HYDRONIC COIL PIPING 3-WAY CONTROL VALVE
SCALE: NTS



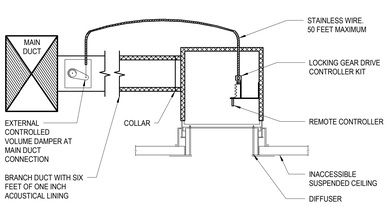
NOTES:
1. HANGER SPACING ALONG LENGTH OF UNIT TO BE AS FOLLOWS:
MINIMUM - 2 HANGERS MAXIMUM SPACING 6'-0".
2. PROVIDE ADEQUATE SEISMIC CABLE BRACING TO RESIST MOTION IN ALL LATERAL DIRECTIONS.
3. REFER TO SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES (LATEST EDITION) FOR MECHANICAL SYSTEMS.
4. ATTACH TO STRUCTURE ABOVE.

6 SUSPENDED EQUIPMENT WITH SEISMIC CABLES - B
SCALE: NTS

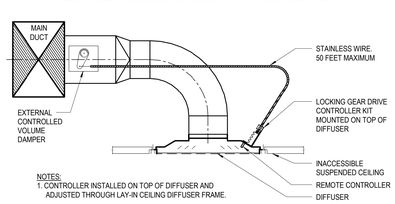


NOTES:
1. ALL BRANCH PIPING, SUPPLY, RETURN AND VERTICAL HEADERS TO BE FULL SIZE BOTTOM CONNECTION FROM MAIN. (REFER TO DRAWINGS FOR PIPE SIZE).
2. ALL HORIZONTAL CONNECTIONS TO COIL FROM VERTICAL HEADERS TO BE SIZE OF COIL CONNECTION OUTLET/INLET, U.O.N.
3. COIL BANKS HIGHER THAN 2 COILS TO HAVE SAME VALVING AND TRIM PER COIL.
4. BYPASS LINE TO BE SAME SIZE AS AUTOMATIC CONTROL VALVE.

2 MULTIPLE COIL PIPING 2-WAY CONTROL VALVE
SCALE: NTS

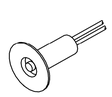


NOTES:
1. CONTROLLER INSTALLED INSIDE PLENUM AND ADJUSTED THROUGH THE DIFFUSER FRAME.



NOTES:
1. CONTROLLER INSTALLED ON TOP OF DIFFUSER AND ADJUSTED THROUGH LAY-IN CEILING DIFFUSER FRAME.

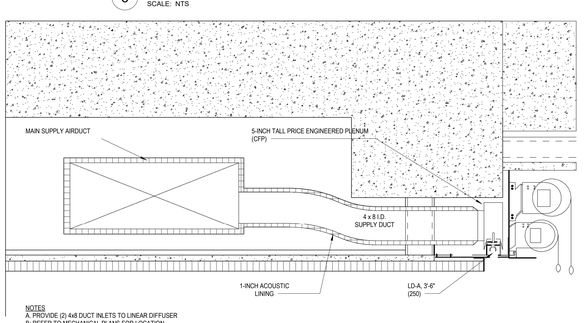
13 REMOTE CABLE DAMPER CONTROLLER
SCALE: NTS



NOTES:
THIS SENSOR IS SUSPENDED IN A ROUND BUTTON SIZE ENCLOSURE SHELL SO THAT ROOM AIR CAN SURROUND THE SENSING ELEMENT FOR A FAST AND ACCURATE TEMPERATURE READING. THE SENSOR IS ISOLATED FROM THE MASS WALL TEMPERATURE WITH INTERNAL INSULATORS. THE UNIT CAN BE PAINTED BUT CARE SHOULD BE TAKEN NOT TO FILL THE CAVITY WITH EXCESS PAINT. THE UNIT SHOULD NOT BE COVERED WITH ANY MATERIAL SUCH AS WALL PAPER.

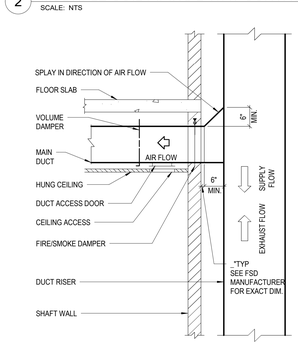
INSTALLATION:
1. SELECT A LOCATION WITH A FLAT SURFACE ON AN INTERIOR WALL APPROXIMATELY 5' OFF THE FLOOR.
DRILL A 3/8" HOLE WHERE YOU WANT THE SENSOR MOUNTED.
3. PULL ZONE WIRE THROUGH THE HOLE AND TERMINATE THE SENSOR USING A FLYING LEAD CONNECTOR (CRIMP OR WIRE NUT). A CRIMP-ON SEALANT FILLED CONNECTOR IS RECOMMENDED FOR PROTECTION FROM IN WALL MOISTURE.
4. TEST THE SENSOR AT THE CONTROLLER TO BE SURE OF YOUR CONNECTIONS AND SENSOR OPERATION.
NOTE: ONCE INSTALLED THE SENSOR IS DIFFICULT TO REMOVE AND MAY DAMAGE THE WALL.
5. BE SURE THE WALL INTERIOR IS INSULATED BEHIND THE SENSOR. IN-WALL DRAFTS CAN AFFECT THE TEMPERATURE READING.
6. CLEAN THE WALL SURFACE FROM ANY DUST OR FILINGS TO MAKE A CLEAN MOUNTING SURFACE.
7. REMOVE THE MOUNTING TAPE FROM THE BACK OF THE SENSOR RIM AND PUSH THE SENSOR FIRMLY INTO THE 3/8" HOLE UNTIL THE DOUBLE STICK TAPE ADHERES FIRMLY TO THE WALL.

9 TEMPERATURE SENSOR BUTTON TYPE
SCALE: NTS



NOTES
A. PROVIDE (2) 4x8 DUCT INLETS TO LINEAR DIFFUSER
B: REFER TO MECHANICAL PLANS FOR LOCATION
C. REFER TO ARCHITECT FOR EXACT LOCATION OF DIFFUSER

5 LINEAR DIFFUSER DETAIL AT SHADE POCKETS WITH REDUCED HEIGHT
SCALE: NTS



1 SUPPLY OR EXHAUST AIR RISER CONNECTION
SCALE: NTS

Reserved for permit stamp

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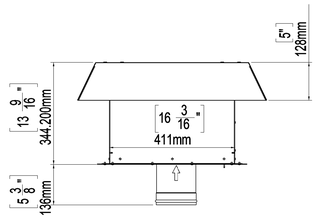
date 5/17/2024

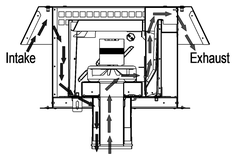
revisions:

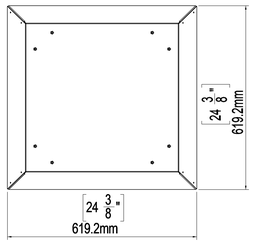
no. date by

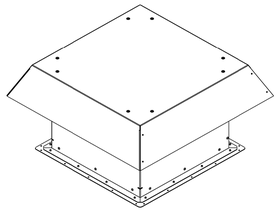
IFC Set 2 of 3
5/17/2024

MECHANICAL DETAILS
M5.06



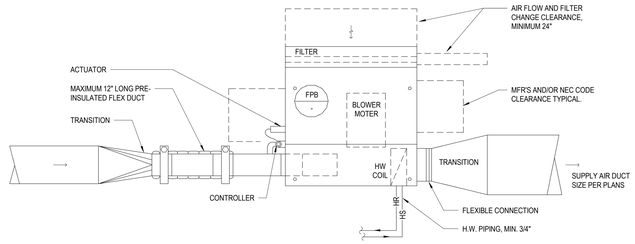




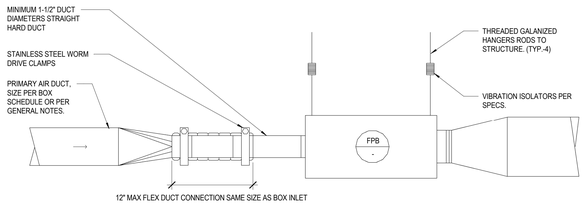


7 ORTAL EXHAUST FAN CONFIGURATION
SCALE: NTS

DESIGN NOTES:
1. COORDINATE THE SIZING OF THE BOX INLET DUCT. SOME GENERAL NOTES HAVE SOME VAV BOX SCHEDULES HAVE SIZING INFORMATION. SOME PREVIOUS PROJECTS HAVE HAD DISCREPANCIES AMONG THESE ITEMS. IN GENERAL, THIS INLET DUCT SHOULD MATCH VAV BOX INLET CONNECTION SIZE; HOWEVER, IF THE RUNOUT IS MORE THAN SAY 10 FEET LONG AND/OR HAS MULTIPLE ELLS IN THE RUNOUT, THEN THIS DUCT SIZE SHOULD BE INCREASED BY TWO INCHES. THIS REQUIREMENT NEEDS TO SHOWN CLEARLY ON THE DOCUMENTS.
2. FILTER IS REQUIRED BY MECHANICAL CODE. BE SURE TO SCHEDULE IT BY NOTE IN THE FAN POWERED BOX SCHEDULE OR IN THE SPECS.
3. CONSIDER WHEATHER A RA PLENUM IS NEEDED UPSTREAM OF THE FILTER FOR NOISE ATTENUATION. IT SHOULD BE LINED IF ALLOWED BY CODE; AND IT IS NOT ALLOWED FOR MOST LOCATIONS IN A HOSPITAL. FOR AN MOB PROJECT LINER SHOULD BE OKAY AND IS RECOMMENDED.
4. HW COIL: BE SURE SCHEDULED BOX SHOWS THIS COIL ON THE DISCHARGE SIDE OF THE FAN. NOTE THAT THE HEATING COIL HAS TO HEAT THE MIXTURE OF THE FAN RA FROM THE PLENUM AND THE 55F MINIMUM SACFM FROM THE VAV VALVE.



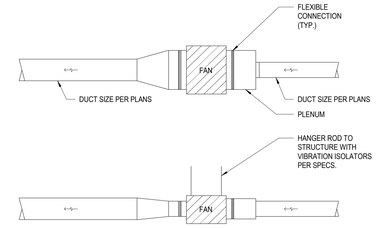
PLAN VIEW



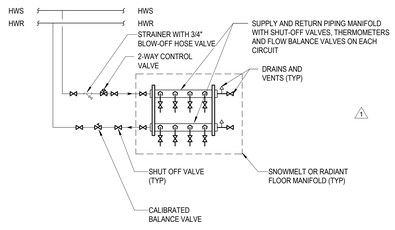
ELEVATION VIEW

4 FAN POWERED BOX WITH HEATING WATER COIL
SCALE: NTS

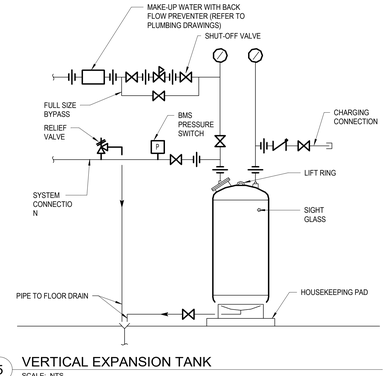
DESIGNER NOTES- NOT FOR PUBLICATION:
1. FAN ACCESSORIES SHOULD BE IN F-AN SCHEDULE, NOT IN THIS DETAIL.
2. THIS DETAIL CAN BE ADAPTED TO OTHER SITUATIONS. EDIT AS REQUIRED.
3. THIS DETAIL IS FOR A SMALL CABINET FAN, SAY 200 TO 3000 CFM, WITH RECTANGULAR INLET; FORWARD CURVED FAN SUITABLE FOR 1" ESP. DO NOT USE THIS DETAIL FOR VANE AXIAL, MIXED FLOW, OR IN-LINE PROPELLER FANS.
4. THE LARGER FANS MAY HAVE DUAL FAN OUTLETS. IF SO, USE A PANTS LEG DISCHARGE DUCT DESIGN ON THE FLOOR PLAN. EDIT AS REQUIRED.



3 EXHAUST FAN-IN-LINE CABINET
SCALE: NTS

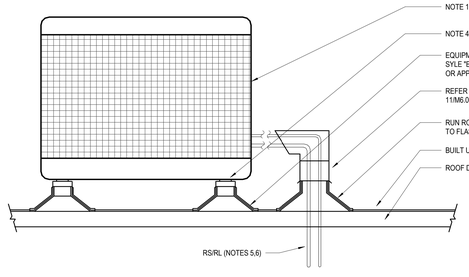


6 SNOWMELT LOOP CONNECTION
SCALE: NTS

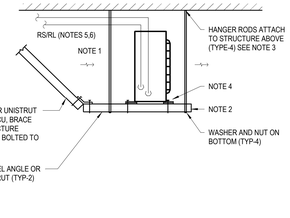


5 VERTICAL EXPANSION TANK
SCALE: NTS

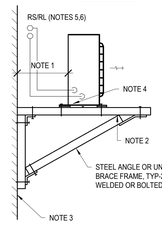
ROOF OR FLOOR MOUNTING



SUSPENDED MOUNTING



WALL MOUNTING



NOTES:
1. IN ALL CONFIGURATIONS, NAMUFACTURER'S CLEARANCES FOR SERVICE AND AIRFLOW SHALL BE PROVIDED.
2. PROVIDE PLASTIC OR VINYL END CAPS ON ALL EXPOSED ANGLE OR UNISTRUT ENDS.
3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ATTACHMENT DETAILS.
4. THROUGH BOLT HARDWARE W/ NEOPENE WAFFLE PAD AND ISOLATOR BUSHING, MASON WAND HG, OR EQUAL NO METAL TO METAL CONTACT PATH PERMITTED (TYP-4)
5. RS/RL PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CU. REFER TO SPECIFICATION 230529.
6. INSULATED REFRIGERANT LINES TO DX EVAPORATOR COIL (FCU). PIPE SIZES SHALL BE DETERMINED BY SPLIT SYSTEM MANUFACTURER AND SHALL ACCOUNT FOR EXACT ROUTING LENGTH NEEDED IN FIELD.

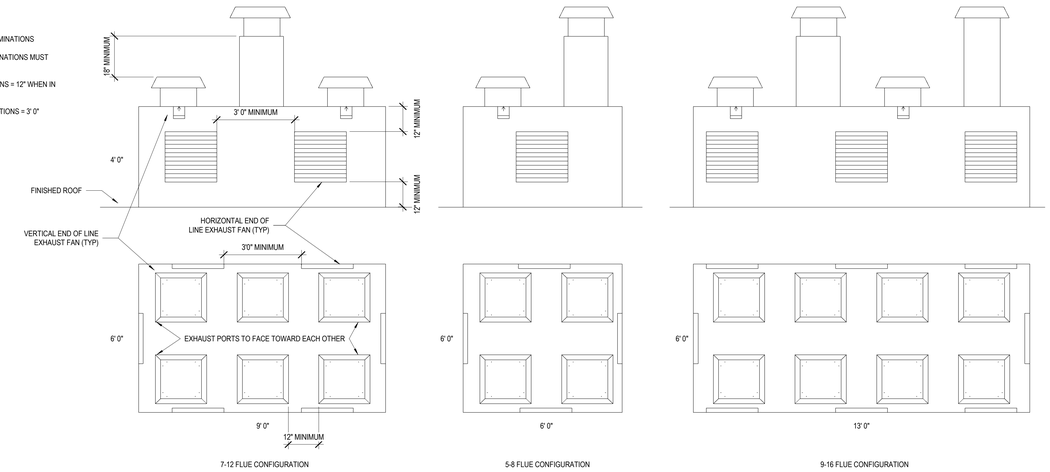
2 SPLIT-SYSTEM CONDENSER MOUNTING DETAILS
SCALE: NTS

(3) TERMINATION EXAMPLES - FOR 5-16 TERMINATIONS

FOR MINIMAL FOOTPRINT - VERTICAL TERMINATIONS MUST BE STAGGERED IN HEIGHT.

DISTANCE BETWEEN VERTICAL TERMINATIONS = 12" WHEN IN STAGGERED LAYOUT.

DISTANCE BETWEEN HORIZONTAL TERMINATIONS = 3' 0"



1 FIREPLACE FLUE TERMINATION DETAIL
SCALE: NTS

Reserved for permit stamp

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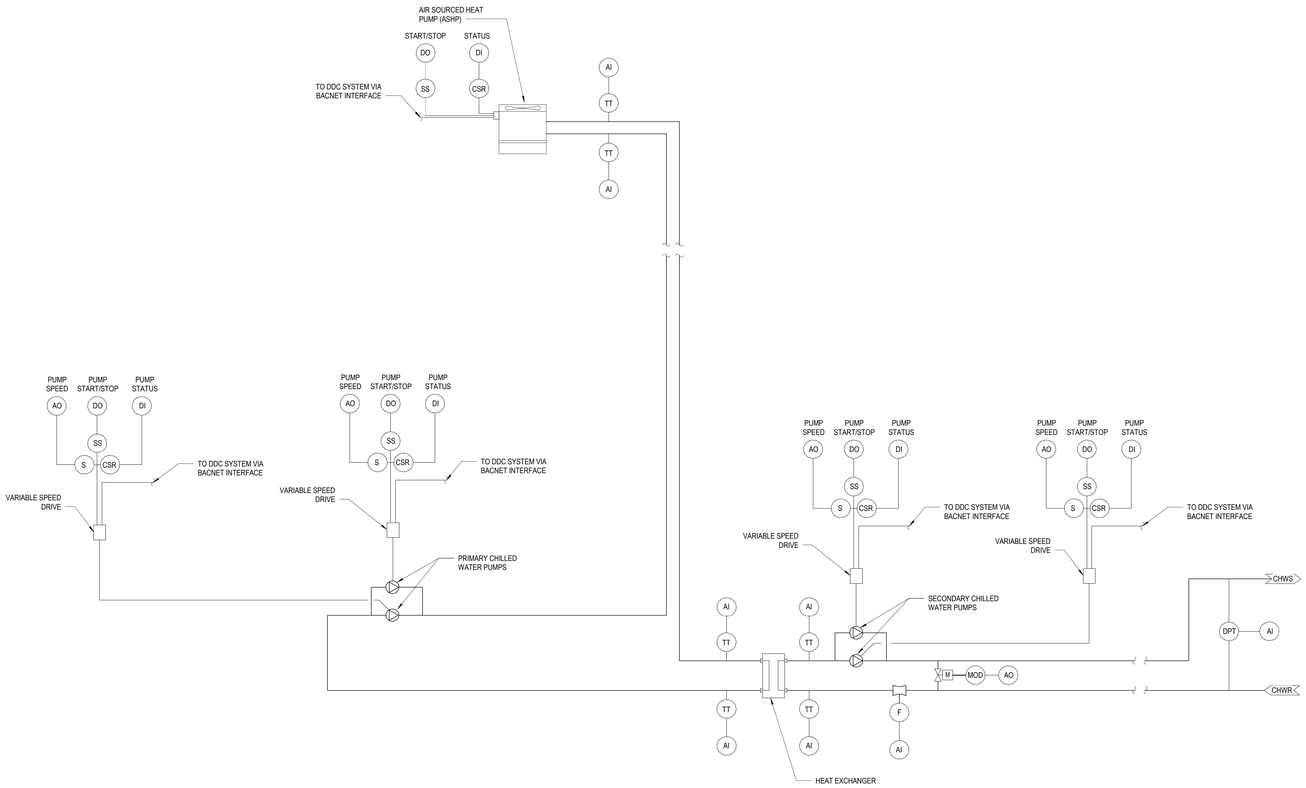
revisions:

no.	date	by
2	5/31/2024	IFC 3
1	5/17/2024	IFC 2

IFC Set 3 of 3
5/31/2024

MECHANICAL DETAILS
M5.07



2 CHILLED WATER SYSTEM CONTROL DIAGRAM - TOWER C

SCALE: NTS

SEQUENCE OF OPERATIONS

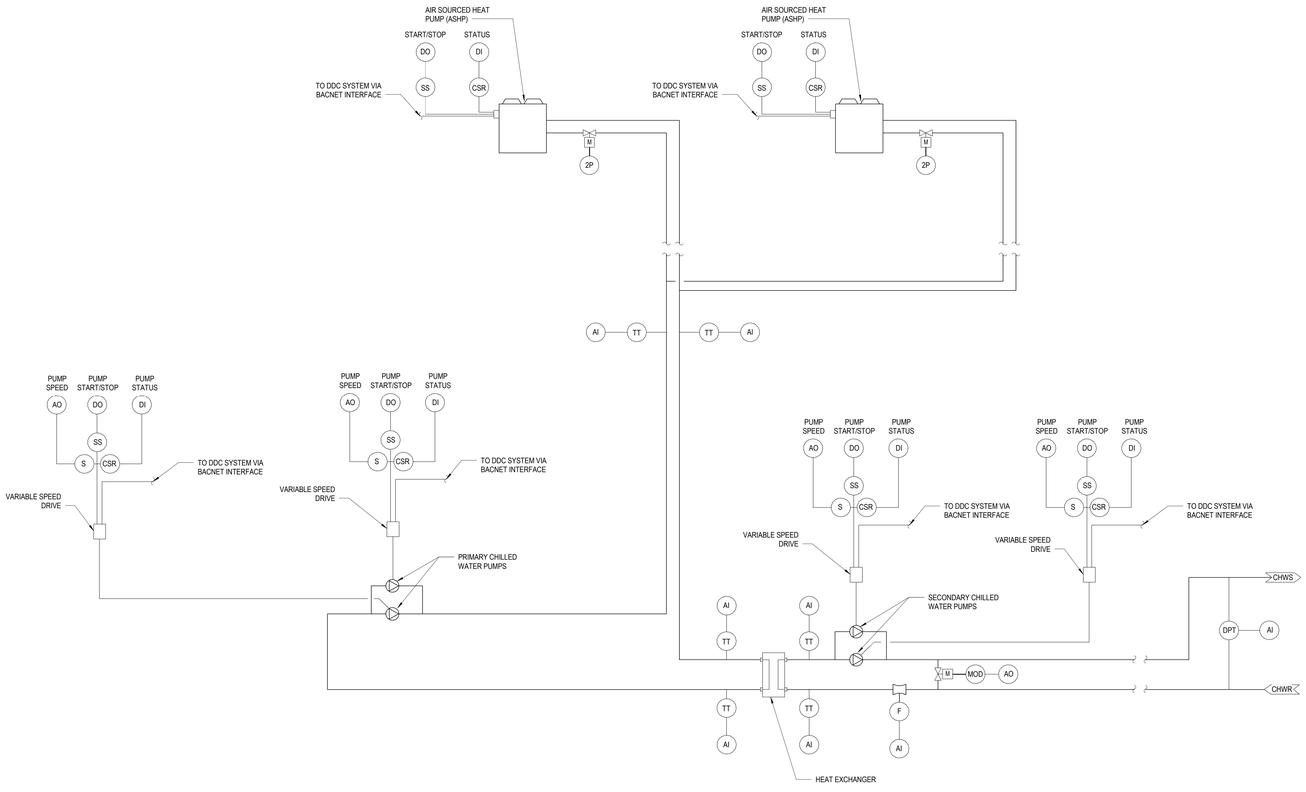
A. SYSTEM OFF:
1. CHILLED WATER PRIMARY AND SECONDARY WATER PUMPS OFF.
2. CHILLER OFF.
3. DIFFERENTIAL PRESSURE BYPASS CONTROL VALVE OPEN.
4. CONTROL LOOPS INACTIVE.

B. SYSTEM START:
1. OPERATOR ENTERED COMMAND AT THE BMS.
2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES (OCCUPIED MODE OR COOL-DOWN MODE), AND THERE IS A COOLING LOAD DEMAND.

C. SYSTEM OPERATION
1. PRIMARY CHILLED WATER SYSTEM:
   a. BOTH PRIMARY CHILLED WATER PUMP SHALL START AND EVAPORATOR ISOLATION CONTROL VALVES SHALL OPEN. AFTER FLOW IS PROVEN THROUGH THE EVAPORATOR START THE CHILLER THROUGH ITS UNIT MOUNTED STARTER AND CONTROLLER.
   b. CHILLER SHALL BE CONTROLLED THROUGH UNIT MOUNTED CONTROLLER TO MAINTAIN THE SECONDARY CHILLED WATER SUPPLY TEMPERATURE.
2. SECONDARY CHILLED WATER SYSTEM:
   a. SECONDARY PUMP SPEED SHALL BE MODULATED TO MAINTAIN A PRE-DETERMINED DIFFERENTIAL PRESSURE SETPOINT. ADDITIONAL SECONDARY PUMPS SHALL START IF PRESSURE DIFFERENTIAL SETPOINT CANNOT BE MAINTAINED FOR A DEFINED TIME PERIOD OR IF THE OPERATING PUMPS ARE AT 100 PERCENT SPEED. OPERATING PUMPS SHALL BE REDUCED BY ONE PUMP IF OPERATING SPEED FALLS BELOW 40 PERCENT. FIRST PUMP STARTED SHALL BE FIRST PUMP STOPPED.
   b. BYPASS VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE MINIMUM FLOWRATE MEASURED BY THE FLOW METER.
3. PUMPS:
   a. IF MULTIPLE PUMP ARE OPERATING IN PARALLEL THE LEAD PUMP SHALL BE OPERATING AT 95 PERCENT OF FULL FLOWRATE WHEN THE SECOND STAGE PUMP IS STARTED. BOTH PUMPS SHALL THEN SHARE THE LOAD EQUALLY.
   b. LEAD PUMP SHALL BE STARTED WHENEVER THE CHILLED WATER SYSTEM IS IN OPERATION. ALTERNATE LEAD PUMPS.
   c. IF THE LEAD PUMP FAILS TO START, THE LAG PUMP SHALL START.

D. SYSTEM STOP:
1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SAFETIES:
1. PUMP OR CHILLER FAILS TO START.
2. LOW OR NO FLOW IN OPERATING CHILLER.
3. MINIMUM FLOW METER IS INACTIVE OR OUT OF RANGE.
4. CHILLER ALARM.
5. PUMP VARIABLE FREQUENCY DRIVE ALARM.



1 CHILLED WATER SYSTEM CONTROL DIAGRAM - TOWER A&B

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
1. CHILLED WATER PRIMARY AND SECONDARY WATER PUMPS OFF.
2. CHILLERS OFF.
3. CHILLER EVAPORATOR AUTOMATIC ISOLATION VALVES CLOSED.
4. DIFFERENTIAL PRESSURE BYPASS CONTROL VALVE OPEN.
5. CONTROL LOOPS INACTIVE.

B. SYSTEM START:
1. OPERATOR ENTERED COMMAND AT THE BMS.
2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES (OCCUPIED MODE OR COOL-DOWN MODE), AND THERE IS A COOLING LOAD DEMAND.

C. SYSTEM OPERATION
1. PRIMARY CHILLED WATER SYSTEM:
   a. BOTH PRIMARY CHILLED WATER PUMP SHALL START AND EVAPORATOR ISOLATION CONTROL VALVES SHALL OPEN. AFTER FLOW IS PROVEN THROUGH THE EVAPORATOR START THE CHILLER THROUGH ITS UNIT MOUNTED STARTER AND CONTROLLER.
   b. CHILLER SHALL BE CONTROLLED THROUGH UNIT MOUNTED CONTROLLER TO MAINTAIN THE SECONDARY CHILLED WATER SUPPLY TEMPERATURE.
   c. THE LEAD CHILLER IS MORE THAN 95 PERCENT LOAD AND CHILLED WATER SUPPLY TEMPERATURE SETPOINT CANNOT BE MAINTAINED, THE NEXT CHILLER IN THE GROUP SHALL START AND THE CHILLERS SHALL SHARE LOAD EQUALLY. CONTINUE TO ADD CHILLER CAPACITY AS REQUIRED TO SATISFY REQUIREMENTS ABOVE.
   d. ON A REDUCTION IN LOAD AND THE BYPASS FLOW RATE IS GREATER THAN THE FLOW OF THE SMALLEST OPERATING CHILLED WATER PUMP AND THE OPERATING CHILLERS ARE LOADED LESS THAN THE CAPACITY REQUIREMENTS OF ALL OPERATING CHILLERS AND THE CHILLED WATER SUPPLY TEMPERATURE IS BELOW SETPOINT, THE SMALLEST CHILLER SHALL STOP. CONTINUE TO DELETE CHILLER CAPACITY AS REQUIRED.
2. SECONDARY CHILLED WATER SYSTEM:
   a. SECONDARY PUMP SPEED SHALL BE MODULATED TO MAINTAIN A PRE-DETERMINED DIFFERENTIAL PRESSURE SETPOINT. ADDITIONAL SECONDARY PUMPS SHALL START IF PRESSURE DIFFERENTIAL SETPOINT CANNOT BE MAINTAINED FOR A DEFINED TIME PERIOD OR IF THE OPERATING PUMPS ARE AT 100 PERCENT SPEED. OPERATING PUMPS SHALL BE REDUCED BY ONE PUMP IF OPERATING SPEED FALLS BELOW 40 PERCENT. FIRST PUMP STARTED SHALL BE FIRST PUMP STOPPED.
   b. BYPASS VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE MINIMUM FLOWRATE MEASURED BY THE FLOW METER.
3. PUMPS:
   a. IF MULTIPLE PUMP ARE OPERATING IN PARALLEL THE LEAD PUMP SHALL BE OPERATING AT 95 PERCENT OF FULL FLOWRATE WHEN THE SECOND STAGE PUMP IS STARTED. BOTH PUMPS SHALL THEN SHARE THE LOAD EQUALLY.
   b. LEAD PUMP SHALL BE STARTED WHENEVER THE CHILLED WATER SYSTEM IS IN OPERATION. ALTERNATE LEAD PUMPS.
   c. IF THE LEAD PUMP FAILS TO START, THE LAG PUMP SHALL START.

D. SYSTEM STOP:
1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SAFETIES:
1. PUMP OR CHILLER FAILS TO START.
2. LOW OR NO FLOW IN OPERATING CHILLER.
3. MINIMUM FLOW METER IS INACTIVE OR OUT OF RANGE.
4. CHILLER ALARM.
5. PUMP VARIABLE FREQUENCY DRIVE ALARM.

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revisions:

no. date by

IFC Set 2 of 3
5/17/2024

MECHANICAL CONTROL DIAGRAM

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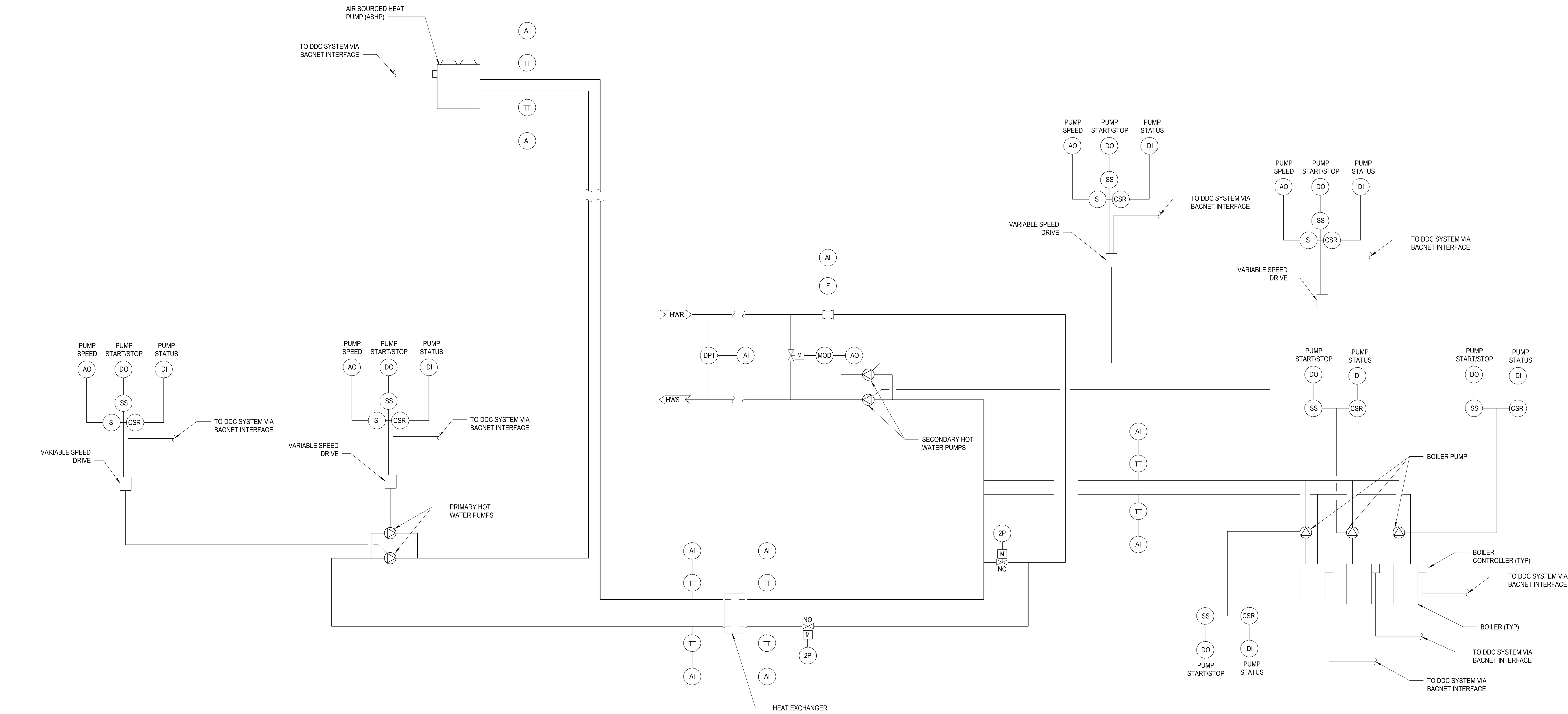


2 HOT WATER SYSTEM CONTROL DIAGRAM - TOWER C

SCALE: NTS

SEQUENCE OF OPERATIONS

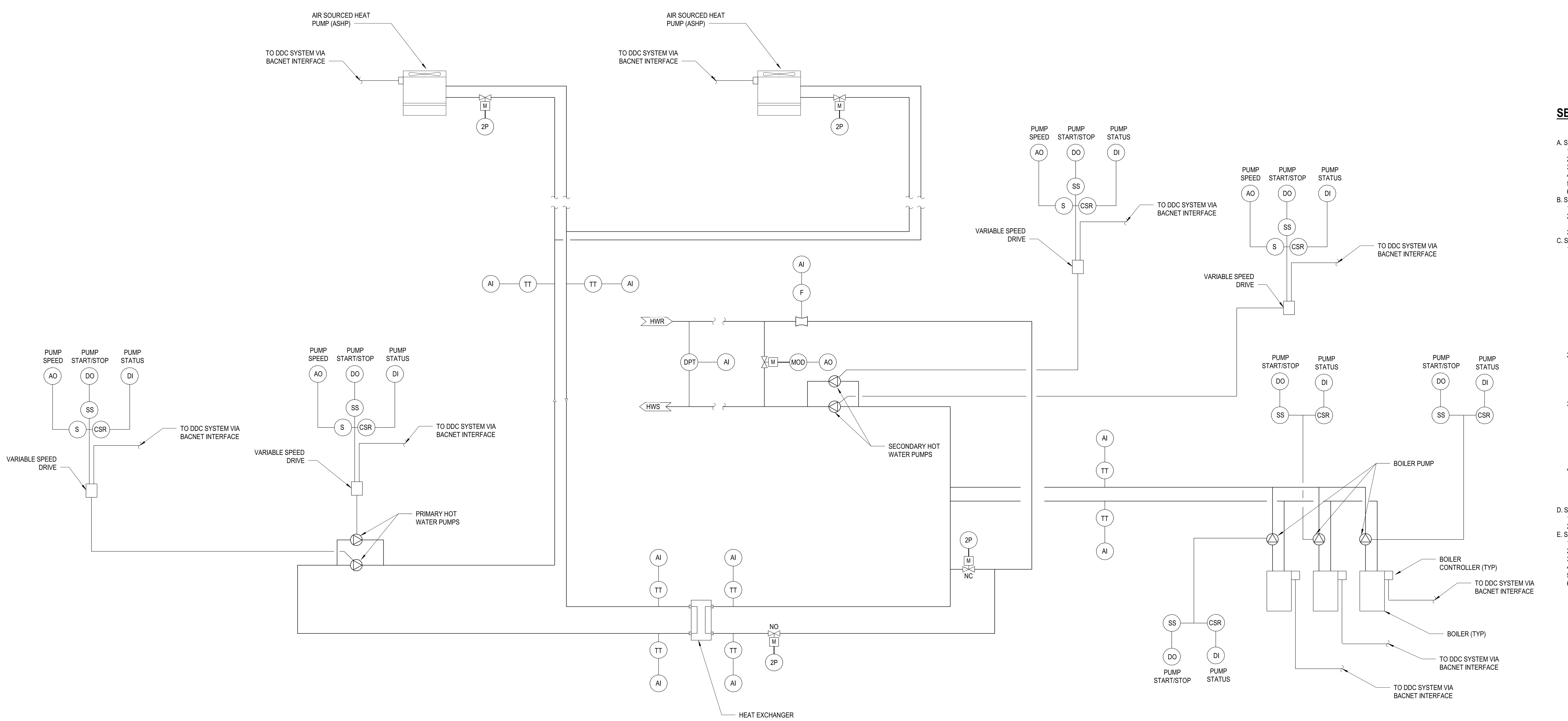
A. SYSTEM OFF:
  1. HEATING WATER PRIMARY AND SECONDARY WATER PUMPS OFF.
  2. CHILLER OFF.
  3. BOILERS OFF.
  4. DIFFERENTIAL PRESSURE BYPASS CONTROL VALVE OPEN.
  5. CONTROL LOOPS INACTIVE.

B. SYSTEM START:
  1. OPERATOR ENTERED COMMAND AT THE BMS.
  2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES (OCCUPIED MODE OR COOL-DOWN MODE), AND THERE IS A HEATING LOAD DEMAND.
  3. THE OUTSIDE AIR TEMPERATURE IS BELOW 45 DEGREES F.

C. SYSTEM OPERATION
  1. PRIMARY HEATING WATER SYSTEM:
    a. BOTH PRIMARY HEATING WATER PUMP SHALL START AND EVAPORATOR ISOLATION CONTROL VALVES SHALL OPEN. AFTER FLOW IS PROVEN THROUGH THE EVAPORATOR START THE CHILLER THROUGH ITS UNIT MOUNTED STARTER AND CONTROLLER.
    b. CHILLER SHALL BE CONTROLLED THROUGH UNIT MOUNTED CONTROLLER TO MAINTAIN THE SECONDARY HEATING WATER SUPPLY TEMPERATURE.
  2. SECONDARY HEATING WATER SYSTEM:
    a. SECONDARY PUMP SPEED SHALL BE MODULATED TO MAINTAIN A PRE-DETERMINED DIFFERENTIAL PRESSURE SETPOINT. ADDITIONAL SECONDARY PUMPS SHALL START IF PRESSURE DIFFERENTIAL SETPOINT CANNOT BE MAINTAINED FOR A DEFINED TIME PERIOD OR IF THE OPERATING PUMPS ARE AT 100 PERCENT SPEED. OPERATING PUMPS SHALL BE REDUCED BY ONE PUMP IF OPERATING SPEED FALLS BELOW 40 PERCENT. FIRST PUMP STARTED SHALL BE FIRST PUMP STOPPED.
    b. BYPASS VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE MINIMUM FLOWRATE MEASURED BY THE FLOW METER.
  3. BOILERS:
    a. IF THE CHILLERS ARE OPERATING AT FULL LOAD AND THE SECONDARY HEATING SUPPLY TEMPERATURE STILL CANNOT BE MAINTAINED, Pump associated to the lead boiler shall start After flow is proven start the boiler through its unit-mounted controller.
    b. IF HEATING WATER SUPPLY TEMPERATURE SETPOINT CANNOT BE MAINTAINED, THE NEXT BOILER IN THE GROUP SHALL START AND THE BOILERS SHALL SHARE LOAD EQUALLY.
    c. ON A REDUCTION IN LOAD AND THE BYPASS FLOW RATE IS GREATER THAN THE FLOW OF THE SMALLEST OPERATING BOILER WATER PUMP AND THE HEATING WATER SUPPLY TEMPERATURE IS ABOVE SETPOINT, THE SMALLEST BOILER SHALL STOP. CONTINUE TO REDUCE NUMBER OF OPERATING BOILER CAPACITY AS REQUIRED.
  4. PUMPS:
    a. IF MULTIPLE PUMP ARE OPERATING IN PARALLEL THE LEAD PUMP SHALL BE OPERATING AT 95 PERCENT OF FULL FLOWRATE WHEN THE SECOND STAGE PUMP IS STARTED. BOTH PUMPS SHALL THEN SHARE THE LOAD EQUALLY.
    b. LEAD PUMP SHALL BE STARTED WHENEVER THE CHILLED WATER SYSTEM IS IN OPERATION. ALTERNATE LEAD PUMPS.
    c. IF THE LEAD PUMP FAILS TO START, THE LAG PUMP SHALL START.

D. SYSTEM STOP:
  1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
  2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SAFETIES:
  1. NO FLOW IN OPERATING BOILER.
  2. PUMP OR CHILLER FAILS TO START.
  3. BOILER FAILS TO START.
  4. CHILLER ALARM.
  5. BOILER ALARM.
  6. PUMP VARIABLE FREQUENCY DRIVE ALARM.



1 HOT WATER SYSTEM CONTROL DIAGRAM - TOWER A&B

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
  1. HEATING WATER PRIMARY AND SECONDARY WATER PUMPS OFF.
  2. CHILLERS OFF.
  3. BOILERS OFF.
  4. CHILLER EVAPORATOR AUTOMATIC ISOLATION VALVES CLOSED.
  5. DIFFERENTIAL PRESSURE BYPASS CONTROL VALVE OPEN.
  6. CONTROL LOOPS INACTIVE.

B. SYSTEM START:
  1. OPERATOR ENTERED COMMAND AT THE BMS.
  2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES (OCCUPIED MODE OR COOL-DOWN MODE), AND THERE IS A HEATING LOAD DEMAND.
  3. THE OUTSIDE AIR TEMPERATURE IS BELOW 45 DEGREES F.

C. SYSTEM OPERATION
  1. PRIMARY HEATING WATER SYSTEM:
    a. BOTH PRIMARY HEATING WATER PUMP SHALL START AND EVAPORATOR ISOLATION CONTROL VALVES SHALL OPEN. AFTER FLOW IS PROVEN THROUGH THE EVAPORATOR START THE CHILLER THROUGH ITS UNIT MOUNTED STARTER AND CONTROLLER.
    b. CHILLER SHALL BE CONTROLLED THROUGH UNIT MOUNTED CONTROLLER TO MAINTAIN THE SECONDARY HEATING WATER SUPPLY TEMPERATURE.
    c. THE LEAD CHILLER IS MORE THAN 95 PERCENT LOAD AND HEATING WATER SUPPLY TEMPERATURE SETPOINT CANNOT BE MAINTAINED, THE NEXT CHILLER IN THE GROUP SHALL START AND THE CHILLERS SHALL SHARE LOAD EQUALLY. CONTINUE TO ADD CHILLER HEATING CAPACITY AS REQUIRED TO SATISFY REQUIREMENTS ABOVE.
    d. ON A REDUCTION IN LOAD AND THE BYPASS FLOW RATE IS GREATER THAN THE FLOW OF THE SMALLEST OPERATING CHILLED WATER PUMP AND THE OPERATING CHILLERS ARE LOADED LESS THAN THE CAPACITY REQUIREMENTS OF ALL OPERATING CHILLERS AND THE HEATING WATER SUPPLY TEMPERATURE IS BELOW SETPOINT, THE SMALLEST CHILLER SHALL STOP. CONTINUE TO DELETE CHILLER CAPACITY AS REQUIRED.
  2. SECONDARY HEATING WATER SYSTEM:
    a. SECONDARY PUMP SPEED SHALL BE MODULATED TO MAINTAIN A PRE-DETERMINED DIFFERENTIAL PRESSURE SETPOINT. ADDITIONAL SECONDARY PUMPS SHALL START IF PRESSURE DIFFERENTIAL SETPOINT CANNOT BE MAINTAINED FOR A DEFINED TIME PERIOD OR IF THE OPERATING PUMPS ARE AT 100 PERCENT SPEED. OPERATING PUMPS SHALL BE REDUCED BY ONE PUMP IF OPERATING SPEED FALLS BELOW 40 PERCENT. FIRST PUMP STARTED SHALL BE FIRST PUMP STOPPED.
    b. BYPASS VALVE SHALL BE MODULATED OPEN TO MAINTAIN THE MINIMUM FLOWRATE MEASURED BY THE FLOW METER.
  3. BOILERS:
    a. IF THE CHILLERS ARE OPERATING AT FULL LOAD AND THE SECONDARY HEATING SUPPLY TEMPERATURE STILL CANNOT BE MAINTAINED, Pump associated to the lead boiler shall start After flow is proven start the boiler through its unit-mounted controller.
    b. IF HEATING WATER SUPPLY TEMPERATURE SETPOINT CANNOT BE MAINTAINED, THE NEXT BOILER IN THE GROUP SHALL START AND THE BOILERS SHALL SHARE LOAD EQUALLY.
    c. ON A REDUCTION IN LOAD AND THE BYPASS FLOW RATE IS GREATER THAN THE FLOW OF THE SMALLEST OPERATING BOILER WATER PUMP AND THE HEATING WATER SUPPLY TEMPERATURE IS ABOVE SETPOINT, THE SMALLEST BOILER SHALL STOP. CONTINUE TO REDUCE NUMBER OF OPERATING BOILER CAPACITY AS REQUIRED.
  4. PUMPS:
    a. IF MULTIPLE PUMP ARE OPERATING IN PARALLEL THE LEAD PUMP SHALL BE OPERATING AT 95 PERCENT OF FULL FLOWRATE WHEN THE SECOND STAGE PUMP IS STARTED. BOTH PUMPS SHALL THEN SHARE THE LOAD EQUALLY.
    b. LEAD PUMP SHALL BE STARTED WHENEVER THE CHILLED WATER SYSTEM IS IN OPERATION. ALTERNATE LEAD PUMPS.
    c. IF THE LEAD PUMP FAILS TO START, THE LAG PUMP SHALL START.

D. SYSTEM STOP:
  1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
  2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SAFETIES:
  1. NO FLOW IN OPERATING BOILER.
  2. PUMP OR CHILLER FAILS TO START.
  3. BOILER FAILS TO START.
  4. CHILLER ALARM.
  5. BOILER ALARM.
  6. PUMP VARIABLE FREQUENCY DRIVE ALARM.

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job no.
date 5/17/2024

revisions:

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IFC Set 2 of 3
5/17/2024

MECHANICAL CONTROL DIAGRAM

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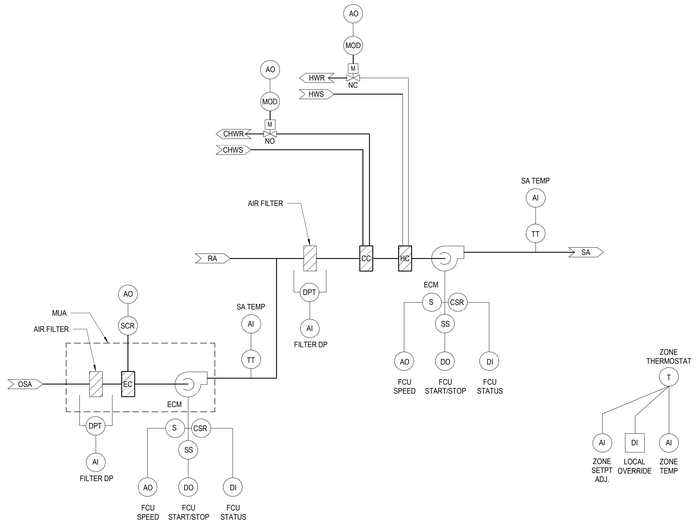


3 FAN COIL UNIT DIAGRAM - COOLING AND HEATING WITH MUA
SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:

1. FCU SUPPLY FAN OFF.
2. MUA SUPPLY FAN OFF.
3. CHILLED WATER CONTROL VALVE CLOSED.
4. HEATING WATER CONTROL VALVE CLOSED.
5. ELECTRIC HEATING COIL DE-ENERGIZED.
6. CONTROL LOOPS INACTIVE.

B. SYSTEM START:

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

C. SYSTEM OPERATION:

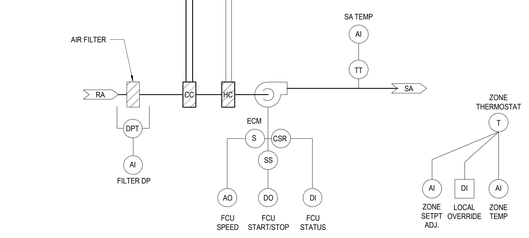
1. THE FCU SUPPLY FAN SHALL RUN.
2. THE MUA SUPPLY FAN SHALL BE INTERLOCKED RUN WITH FCU SUPPLY FAN AT MINIMUM AIRFLOW.
3. COOLING:
   ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE COOLING DEMAND INCREASES, THE VALVE WILL CONTINUE TO OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TOWARD THE MAXIMUM COOLING FAN AIRFLOW AS THE CHILLED WATER VALVE CONTINUES TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE COOLING MAXIMUM AIRFLOW AND THE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
4. DEAD BAND:
   WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM AIRFLOW. THE HEATING COIL VALVE AND COOLING COIL VALVE WILL BE OFF.
5. HEATING:
   ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE HEATING DEMAND INCREASES, THE VALVE WILL CONTINUE TO MODULATE OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE FROM DEAD BAND TOWARDS THE MAXIMUM HEATING FAN AIRFLOW. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE SEQUENCE WILL REVERSE.
6. THE MUA ELECTRIC COIL SHALL MODULATE TO MAINTAIN MUA DISCHARGE AIR TEMPERATURE.
7. MUA UNIT NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.

D. SYSTEM STOP:

1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SETPOINTS:

1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.



2 FAN COIL UNIT DIAGRAM - COOLING AND HEATING
SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:

1. SUPPLY FAN OFF.
2. CHILLED WATER CONTROL VALVE CLOSED.
3. HEATING WATER CONTROL VALVE CLOSED.
4. CONTROL LOOPS INACTIVE.

B. SYSTEM START:

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

C. SYSTEM OPERATION:

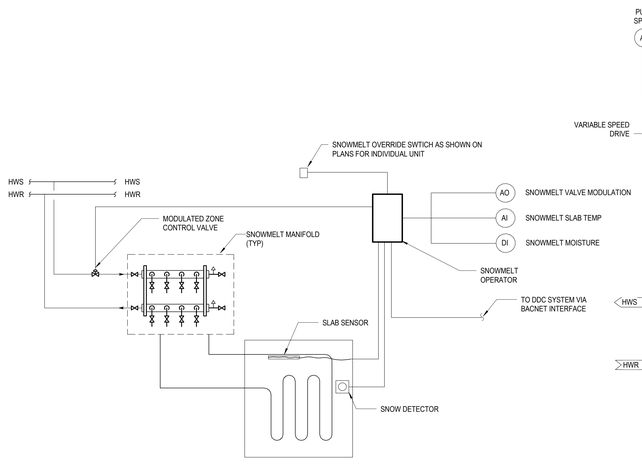
1. THE SUPPLY FAN SHALL RUN.
2. COOLING:
   ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE COOLING DEMAND INCREASES, THE VALVE WILL CONTINUE TO OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TOWARD THE MAXIMUM COOLING FAN AIRFLOW AS THE CHILLED WATER VALVE CONTINUES TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE COOLING MAXIMUM AIRFLOW AND THE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
3. DEAD BAND:
   WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM AIRFLOW. The heating coil valve and cooling coil valve WILL BE OFF.
4. HEATING:
   ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE HEATING DEMAND INCREASES, THE VALVE WILL CONTINUE TO MODULATE OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE FROM DEAD BAND TOWARDS THE MAXIMUM HEATING FAN AIRFLOW. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE SEQUENCE WILL REVERSE.

D. SYSTEM STOP:

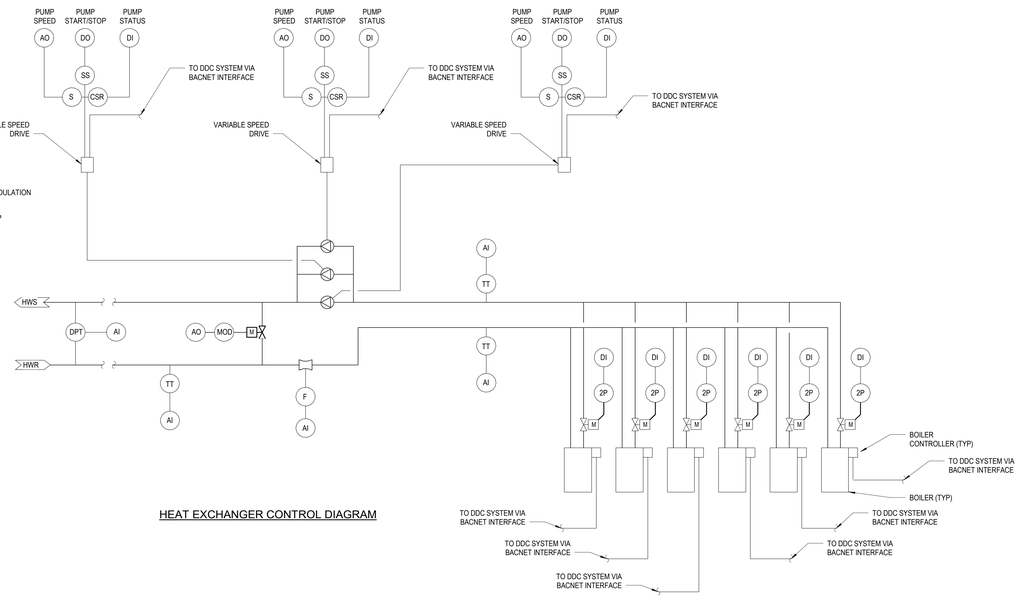
1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SETPOINTS:

1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.



SNOWMELT MANIFOLD CONTROL DIAGRAM



HEAT EXCHANGER CONTROL DIAGRAM

SEQUENCE OF OPERATIONS

A. GENERAL:

1. THE VARIABLE VOLUME SYSTEM IS DESIGNED TO PROVIDE GLYCOL HOT WATER TO SNOWMELT MANIFOLDS.
2. SOURCE WATER TEMPERATURES SHALL BE MAINTAINED BY THE HEATING WATER SYSTEM CONTROLS.

B. SYSTEM OPERATION:

1. SYSTEM SHALL BE ENABLED:
   a. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 35°F (ADJ.), AND THE HUMIDITY SENSOR IS ABOVE 80% RH, OR
   b. BY THE OPERATOR ENTERED COMMAND AT THE BMS, OR
   c. VIA MOISTURE AND TEMPERATURE SENSORS LOCATED FOR LOCAL SNOWMELT ZONE CONTROL.
2. ONCE ENABLED, SYSTEM SHALL REMAIN ENABLED FOR AT LEAST ONE HOUR (ADJ.).
3. SYSTEM SHALL BE DISABLED:
   a. WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50°F AND AND HUMIDTY DROPS BELOW 50%, OR
   b. THE OUTSIDE AIR TEMPERATURE RISES ABOVE 40°F (ADJ.), OR
   c. BY THE OPERATOR ENTERED COMMAND AT THE BMS.

C. GHW DISTRIBUTION PUMP :

1. GLYCOL HEATING WATER DISTRIBUTION PUMP SHALL BE STARTED TO SUPPLY HEATING HOT WATER THROUGH THE SYSTEM UPON ACTIVATION BY THE SNOWMELT CONTROL SYSTEM. BMS SHALL PROVE OPERATION OF THE PUMP. UPON PUMP FAILURE, THE BMS SHALL ALARM. THE VARIABLE FREQUENCY DRIVE MODULATES PUMP SPEED TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT AS SENSED NEAR THE END OF THE MAIN PIPING RUN.

D. GHW TEMPERATURE CONTROL :

1. THE HEATING HOT WATER SYSTEM VALVE SHALL MODULATE TO MAINTAIN THE GHW SUPPLY TEMPERATURE OF 110°F (ADJ.) SETPOINT.

E. SNOWMELT ZONE CONTROL :

1. ONCE THE SNOWMELT SYSTEM IS ENABLED, HEAT IS APPLIED TO THE SNOWMELT SYSTEM THROUGH OPENING THE ZONE VALVE. THE CONTROL SHALL MAINTAIN THE SLAB TEMPERATUER ABOVE FREEZING. IF MOISTURE IS DETECTED, THE CONTROL SHALL START THE "MELTING MODE". IN THIS MODE THE CONTROL SHALL REGULATE THE HEAT SOURCE AND MODULATE THE ZONE VALVE TO MAINTAIN THE SLAB TEMPERATURE AT THE WARM-WEATHER CUTOFF SET POINT. IT SHALL REMAIN IN THIS MODE UNTIL NO MOISTURE IS PRESENT OR THE MINIMUM RUNTIME HAS ELAPSED, WHICHEVER IS LONGER.
2. MANUAL OVERRIDE SWITCH ON RESIDENTIAL UNIT: OVERRIDE SWITCH INSTALLED INSIDE THE UNIT WILL ACTIVATE THE DECK SNOWMELT ZONE IN THEIR RESPECTIVE UNIT AND OPEN THE ZONE CONTROL VALVE FOR A MINIMUM OF ONE (1) HOUR. THE ZONE CONTROL VALVE SHALL BE CLOSED WHEN THE SLAB TEMPERATURE IS MAINTAINED AND NO MOISTURE IS PRESENT.

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1 SNOWMELT HOT WATER SYSTEM CONTROL DIAGRAM
SCALE: NTS

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date 5/17/2024

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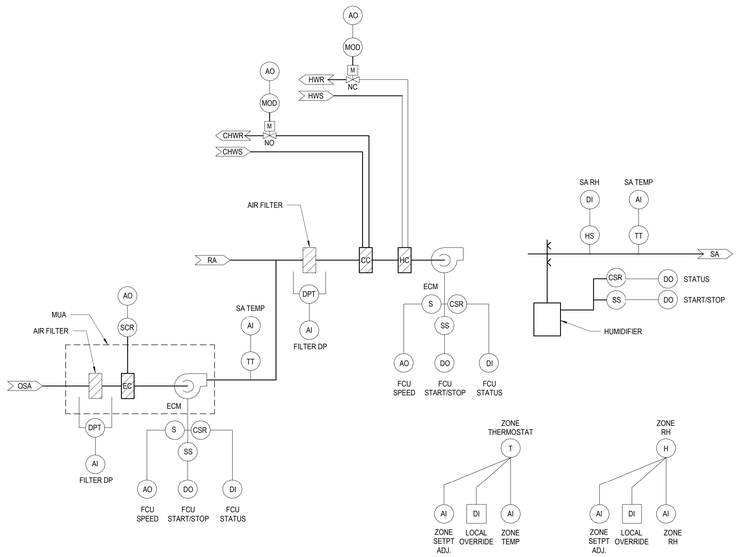
no.	date	by
1	5/17/2024	IFC 2

IFC Set 2 of 3
5/17/2024

MECHANICAL CONTROL DIAGRAM

M5.10



2 FAN COIL UNIT DIAGRAM - COOLING AND HEATING WITH MUA AND HUMIDIFIER

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:

1. FCU SUPPLY FAN OFF.
2. MUA SUPPLY FAN OFF.
3. CHILLED WATER CONTROL VALVE CLOSED.
4. HEATING WATER CONTROL VALVE CLOSED.
5. ELECTRIC HEATING COIL DE-ENERGIZED.
6. HUMIDIFIER OFF.
7. CONTROL LOOPS INACTIVE.

B. SYSTEM START:

1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
2. OPERATOR ENTERED COMMAND AT THE BMS.
3. LOCAL SWITCH.
4. LOCAL TEMPERATURE SENSOR.

C. SYSTEM OPERATION:

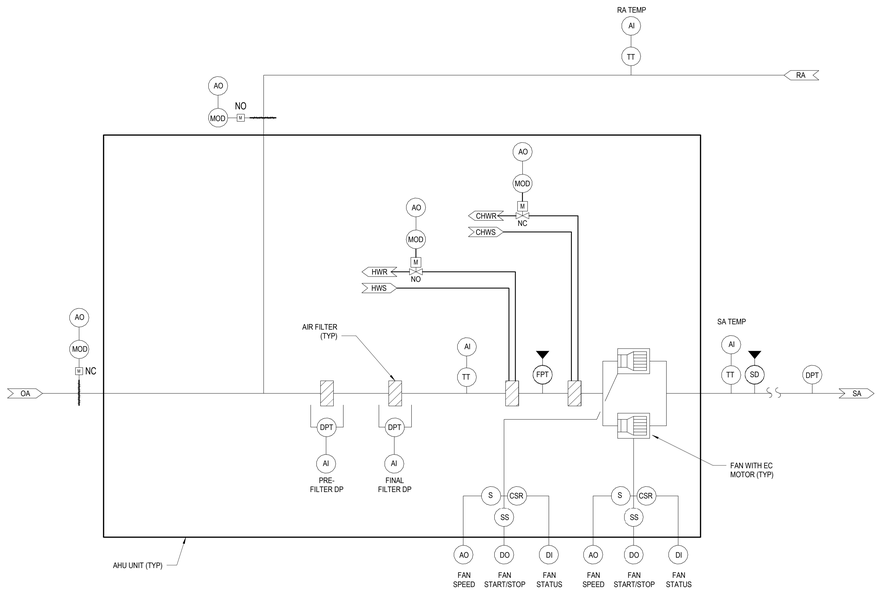
1. THE FCU SUPPLY FAN SHALL RUN.
2. THE MUA SUPPLY FAN SHALL BE INTERLOCKED RUN WITH FCU SUPPLY FAN AT MINIMUM AIRFLOW.
3. COOLING:
   ON A CALL FOR COOLING, THE COOLING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE COOLING DEMAND INCREASES, THE VALVE WILL CONTINUE TO OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 52°F (ADJ). ON CONTINUED CALL FOR COOLING, THE FAN WILL BEGIN TO MODULATE TOWARD THE MAXIMUM COOLING FAN AIRFLOW AS THE CHILLED WATER VALVE CONTINUES TO MODULATE OPEN MAINTAINING A 52°F (ADJ) DISCHARGE AIR TEMPERATURE. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE COOLING MAXIMUM AIRFLOW AND THE CHILLED WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN COOLING DEMAND, THE SEQUENCE WILL REVERSE.
4. DEAD BAND:
   WITH NO DEMAND IN THE SPACE, THERE WILL BE NO CALL FOR COOLING OR HEATING. THE FAN WILL BE AT MINIMUM AIRFLOW. THE HEATING COIL VALVE AND COOLING COIL VALVE WILL BE OFF.
5. HEATING:
   ON A CALL FOR HEATING, THE HEATING COIL VALVE WILL BEGIN TO MODULATE OPEN. AS THE HEATING DEMAND INCREASES, THE VALVE WILL CONTINUE TO MODULATE OPEN UNTIL THE DISCHARGE AIR TEMPERATURE REACHES 90°F (ADJ). ON CONTINUED CALL FOR HEATING, THE FAN BEGINS TO MODULATE FROM DEAD BAND TOWARDS THE MAXIMUM HEATING FAN AIRFLOW. THIS PROCESS WILL CONTINUE UNTIL THE FAN REACHES THE HEATING MAXIMUM AIRFLOW AND THE HOT WATER VALVE REACHES MAXIMUM FLOW. UPON A DECREASE IN HEATING DEMAND, THE SEQUENCE WILL REVERSE.
6. THE MUA ELECTRIC COIL SHALL MODULATE TO MAINTAIN MUA DISCHARGE AIR TEMPERATURE.
7. MUA UNIT NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.
8. CONTROL THE HUMIDIFIER FROM A HUMIDITY SENSOR LOCATED IN THE SPACE AS FOLLOWS:
   a. UPON A DROP IN HUMIDITY SENSED, THE HUMIDIFIER CONTROL VALVE SHALL BE MODULATED OPEN AS REQUIRED TO MAINTAIN THE HUMIDITY AT SETPOINT.
   b. A HIGH LIMIT, DUCT MOUNTED, HUMIDISTAT LOCATED TEN FEET DOWNSTREAM OF THE HUMIDIFIER SHALL OVERRIDE THE HUMIDIFIER CONTROL AND STOP THE HUMIDIFIER OPERATION WHENEVER THE HUMIDITY LEVELS SENSED ARE ABOVE ITS SETPOINT. INITIALLY 85 PERCENT. THE HIGH LIMIT HUMIDISTAT SHALL BE HARDWIRED TO INTERRUPT THE CONTROL LOOP.

D. SYSTEM STOP:

1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON A PREPROGRAMMED SCHEDULE.
2. MANUAL OFF AT LOCAL SWITCH.
3. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SETPOINTS:

1. SPACE TEMPERATURE 70°F HEATING AND 75°F COOLING. ALARM AT BMS AT +/- 2°F FROM SETPOINT.



1 AIR HANDLING UNIT CONTROL DIAGRAM

SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
1. MINIMUM OUTSIDE AIR DAMPERS CLOSED.
2. RETURN AIR DAMPER OPEN.
3. SUPPLY FAN OFF.
4. CHILLED WATER VALVE CLOSED.
5. ALL OTHER CONTROL LOOPS INACTIVE.

B. SYSTEM START:
1. OPERATOR ENTERED COMMAND AT THE BMS.
2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.

C. SYSTEM OPERATION:
1. FAN VOLUME CONTROL:
   a. SUPPLY FAN VOLUME SHALL BE VARIED BY SENSING AIRFLOW DEMAND FROM ALL TERMINAL BOXES AND INCREASING OR DECREASING FAN SPEED TO SATISFY AIRFLOW REQUIREMENTS BASED ON RESET OF THE DUCT SYSTEM STATIC PRESSURE BETWEEN THE MINIMUM ½ INCH (ADJ.) AND THE MAXIMUM 1½ INCH (ADJ.)).
   b. IF MULTIPLE VARIABLE VOLUME FANS ARE OPERATING IN PARALLEL THE LEAD FAN SHALL BE OPERATING AT 95 PERCENT OF FULL VOLUME WHEN THE SECOND STAGE FAN IS STARTED. BOTH FANS SHALL THEN SHARE THE LOAD EQUALLY. IF ADDITIONAL FANS ARE IN THE GROUP FOLLOW SIMILAR SEQUENCE FOR OTHER FANS. ALTERNATE THE LEAD FAN AUTOMATICALLY AT EACH SYSTEM START-UP.
   SUPPLY AIR DUCT STATIC PRESSURE RESET CONTROL:
   DUCT STATIC PRESSURE SENSOR LOCATED TWO-THIRDS DOWN THE MAIN DUCT SHALL; THROUGH THE BMS, MODULATE THE FAN SPEED DRIVE TO MAINTAIN THE DUCT SYSTEM STATIC PRESSURE SETPOINT AS RESET BY ZONE AIR FLOW DEMAND. THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF BETWEEN 0.50 IN H_2O (ADJ.) AND 1.50 IN H_2O (ADJ.) BASED ON AIR FLOW DEMAND. THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30 PERCENT (ADJ.).
   THE DUCT STATIC PRESSURE RESET SHALL OPERATE AS FOLLOWS:
   a. ON SUPPLY FAN START UP, THE DUCT STATIC PRESSURE SETPOINT SHALL BE SET TO 0.50 IN H_2O (ADJ.) FOR THE FIRST TWO (2) MINUTES OF OPERATION.
   b. IF THREE (3) (ADJ.) OR MORE VAV BOXES ARE OPERATING AT 95 PERCENT OR GREATER AIR FLOW/DAMPER POSITION, THE DUCT STATIC PRESSURE SHALL BE INCREASED AT A RATE OF 0.10 IN H_2O PER MINUTE (ADJ.) UNTIL NO MORE THAN THREE (3) VAV BOXES (ADJ.) ARE OPERATING AT 95 PERCENT OR GREATER AIR FLOW/DAMPER POSITION.
   c. IF FEWER THAN THREE (3) (ADJ.) VAV BOXES ARE OPERATING AT 95 PERCENT OR GREATER AIR FLOW/DAMPER POSITION, THE DUCT STATIC PRESSURE SHALL BE DECREASED AT A RATE OF 0.05 ON H_2O PER MINUTE (ADJ.).
   d. ALLOW FOR A MINIMUM FIVE (5) MINUTE (ADJ.) PERIOD OF OPERATION BEFORE A CHANGEOVER BETWEEN INCREASING AND DECREASING THE DUCT STATIC PRESSURE SETPOINT ADJUSTMENT.
   e. ON A CALL FOR THE SYSTEM TO STOP UNDER NORMAL CONDITIONS, THE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET TO THE INITIAL START-UP STATIC PRESSURE SETPOINT (0.50 IN H_2O) AT A RATE OF 0.20 IN H_2O PER MINUTE (ADJ.).
   f. NOTE THAT ANY VAV BOXES SET TO OPERATE AT 100 PERCENT AT ALL TIMES ARE EXCLUDED FROM THE STATIC PRESSURES RESET SCHEDULE.
1. WARM-UP AND COOL-DOWN MODES:
   a. DURING THE WARM-UP MODE, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE OPEN, THE COOLING VALVE SHALL BE CLOSED AND THE PREHEAT VALVES SHALL BE MODULATED TO MAINTAIN THE MINIMUM SUPPLY AIR TEMPERATURE SETPOINT.
   b. DURING THE COOL-DOWN MODE IF OUTSIDE AIR TEMPERATURE AND ENTHALPY IS GREATER THAN THE RETURN AIR TEMPERATURE AND ENTHALPY, THE DAMPERS SHALL BE POSITIONED AS DESCRIBED UNDER WARM-UP MODE, OTHERWISE THE DAMPERS SHALL BE CONTROLLED AS DESCRIBED IN THE OCCUPIED MODE. ALL OTHER CONTROLS SHALL OPERATE AS DESCRIBED UNDER OCCUPIED MODE.
   c. THE FAN VOLUMES SHALL BE CONTROLLED AS DESCRIBED IN THE OCCUPIED MODE, EXCEPT THAT THE DIFFERENTIAL VOLUME SETPOINT SHALL BE 0 CUBIC FEET PER MINUTE.
4. OCCUPIED MODE:
   a. THE MINIMUM OUTSIDE AIR DAMPER SHALL MODULATE TO MINIMUM AIRFLOW SETPOINT AS NOTED ON THE SCHEDULES. IF DAMPER IS FULLY OPEN AND CANNOT MAINTAIN AIRFLOW SETPOINT, MODULATE RETURN AIR DAMPER CLOSED TO ACHIEVE MINIMUM OUTSIDE AIRFLOW SETPOINT. MINIMUM AIR FLOW SHALL BE A DIRECT MEASURED VALUE AND BE CONSTANT OVER THE ENTIRE RANGE OF SUPPLY AIR FLOW MODULATION.
   b. MODULATE THE HEATING VALVE, ECONOMIZER DAMPERS AND COOLING VALVE IN SEQUENCE TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT.
   c. THE HEATING VALVES SHALL BE CONTROLLED TO MAINTAIN A LOW LIMIT DISCHARGE TEMPERATURE OF 50 DEGREES F.
   d. WHEN THE RETURN AIR TEMPERATURE AND ENTHALPY IS GREATER THAN THE OUTSIDE AIR TEMPERATURE AND ENTHALPY THE ECONOMIZER DAMPERS SHALL MODULATE ACCORDING TO TEMPERATURE CONTROLS SEQUENCE DESCRIBED ABOVE. WHEN THE RETURN AIR TEMPERATURE AND ENTHALPY IS LESS THAN THE OUTSIDE AIR TEMPERATURE AND ENTHALPY THE ECONOMIZER DAMPERS SHALL BE POSITIONED TO THE MINIMUM OUTSIDE AIR POSITION.
   e. WHEN THE SUPPLY AIR TEMPERATURE CANNOT BE MAINTAINED [THROUGH THE USE OF AIR ECONOMIZER SEQUENCE] MODULATE THE COOLING COIL CONTROL VALVE AS REQUIRED TO MAINTAIN SETPOINT.

5.UNOCCUPIED MODE:
   a. THE HEATING VALVES SHALL BE CONTROLLED TO MAINTAIN A PLENUM TEMPERATURE OF 50 DEGREES F.
   b. THE SYSTEM SHALL BE OFF.

D. SYSTEM STOP:
1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

E. SAFETIES:
1. A FREEZESTAT WITH ITS ELEMENT SERPENTINED ACROSS THE DISCHARGE SIDE OF THE HEATING COIL WILL STOP THE SUPPLY FAN, CLOSE THE OUTSIDE AIR DAMPER, OPEN THE HEATING COIL VALVE FULLY AND ALARM THE BMS. FREEZESTAT SHALL BE THE AUTOMATIC RESET TYPE. WHENEVER THE ALARM IS ACTUATED, THE POINT WILL BE HELD BY THE BMS UNTIL MANUALLY RELEASED BY THE BMS OPERATOR.
2. A DIFFERENTIAL PRESSURE SWITCH WITH INDICATOR GAUGE INSTALLED ACROSS THE FILTER SHALL INDICATE WHENEVER THE FILTER IS OBSTRUCTED AND INITIATE A NON-CRITICAL ALARM AT THE BMS.
3. VARIABLE FREQUENCY DRIVES ALARMS.

Reserved for permit stamp

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date 5/17/2024

revisions:

no. date by

IFC Set 2 of 3
5/17/2024

MECHANICAL CONTROL DIAGRAM

M5.11

Wood-Fired Fireplace

6.3 Mechanical Draft System for a Wood-fired Fireplace with Safety System per NFPA211/IMC-2000 edition (and after)

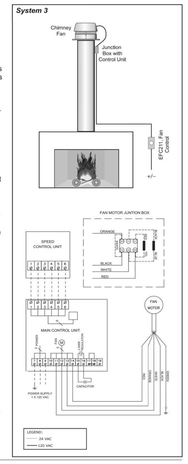
Application

In jurisdictions where the 2000 or later edition of the NFPA211 has been adopted, there are new requirements for the use of mechanical draft systems in conjunction with solid fuel. The installation requires a safety control such as the EFC 211 Fan Control.

Sequence of Operation

1. Turn the control on by turning the knob clockwise. A "click" indicates the control is turned on. Adjust the knob to the desired speed. The speed must be set so no smoke spills from the solid fuel heating appliance (fireplace, stove, wood-fired oven etc.) through the opening into a room. The smoke should be safely exhausted through the chimney.
2. The chimney fan will start with a 15 second boost to ensure proper fan operation, and the green LED on the speed control unit cover will flash. After 15 seconds, the fan speed will be reduced to the preset level and continue to operate at this speed.
3. During appliance operation the speed setting can be adjusted if needed. This is especially true if logs are added.
4. The control constantly monitors the chimney fan operation. It automatically measures the fan speed every minute and if necessary, it increases the fan speed. This can be heard as quiet "hick-up" from the fan. If necessary, the control increases the fan speed to 100% for 15 seconds (green LED flashes), after which it will slow the fan speed down to set speed.
5. If the green LED flashes during operation (after the 15 seconds initiation) the fan speed is set too low or the fan wheel is somehow obstructed. If the red LED flashes and the buzzer sounds, the following may be the cause:
   - Blocked flue.
   - Defect chimney fan
   - Disconnected thermo-couple
   - Disconnected power supply The control can be reset, and the alarm turned off; by pressing the RESET button for 1-2 seconds.

Please see important note on page 24.



ENERVEX VENTING DESIGN SOLUTIONS

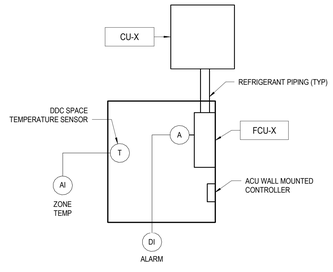
26

66 WOOD-FIRED FIREPLACE
SCALE: NTS

SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
   1.FAN OFF.
   2.PRIMARY AIR DAMPER CLOSED.
   3.HEATING WATER CONTROL VALVE CLOSED.
B. SYSTEM START:
   1.AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
   2.OPERATOR ENTERED COMMAND AT THE BMS.
   3.AUTOMATICALLY ON LOW SPACE TEMPERATURE ALARM.
   4.AUTOMATICALLY BY TENANT OVERRIDE PUSHBUTTON.
C. SYSTEM OPERATION:
   1.FAN CONTROL:
   a. OCCUPIED AND WARM-UP/COOL-DOWN MODES – THE FAN SHALL RUN CONTINUOUSLY.
   b. THE FAN DISCHARGE FLOW RATE SHALL BE CONTROLLED TO TRACK WITH THE PRIMARY AIR FLOW RATE. WHEN THE PRIMARY AIR IS AT THE MAXIMUM COOLING FLOW RATE, THE FAN SHALL OPERATE AT THE MAXIMUM COOLING DISCHARGE FLOW RATE. WHEN THE PRIMARY AIR IS AT THE MINIMUM COOLING FLOW RATE, THE FAN SHALL OPERATE AT THE MINIMUM COOLING DISCHARGE FLOW RATE.
   c. UPON THE REQUIREMENT TO GO TO THE HEATING MODE, THE PRIMARY FAN DISCHARGE FLOW RATE SHALL BE RAMPED UP OVER AN OPERATOR DEFINED PERIOD OF TIME UNTIL THE HEATING FLOW RATE IS REACHED.
   d. WHEN THE SPACE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SETPOINTS, THE FAN DISCHARGE FLOW RATE SHALL BE RAMPED DOWN TO THE MINIMUM COOLING FAN DISCHARGE FLOW RATE AND THE HEATING COIL VALVE SHALL BE CLOSED.
   e. THE MAXIMUM AND MINIMUM COOLING FAN DISCHARGE FLOW RATES AND THE HEATING FAN DISCHARGE FLOW RATES SHALL BE AS SCHEDULED. THE MAXIMUM AND MINIMUM PRIMARY AIR FLOW RATES SHALL BE AS SCHEDULED.
   f. THE BMS SHALL BE ABLE TO COMMAND:
   • AN INDIVIDUAL FAN TO OPERATE AT A CONSTANT DISCHARGE FLOW RATE, REGARDLESS OF THE SPACE TEMPERATURE. THIS DISCHARGE FLOW RATE SHALL BE THE MAXIMUM COOLING FAN DISCHARGE FLOW RATE.
   • ALL FANS ASSOCIATED WITH A PARTICULAR AIR SYSTEM TO OPERATE AT A CONSTANT DISCHARGE FLOW RATE BY ENTERING A SINGLE COMMAND. THIS DISCHARGE FLOW RATE SHALL BE THE MAXIMUM COOLING FAN DISCHARGE FLOW RATE.
   2.PRIMARY AIR DAMPER CONTROL:
   a. OCCUPIED AND COOL-DOWN MODES – DAMPER SHALL MODULATE TO PROVIDE PRIMARY AIRFLOW BETWEEN MINIMUM (20 PERCENT (ADJ.) OF COOLING MAXIMUM), AND COOLING MAXIMUM AIRFLOW SETPOINT TO MAINTAIN SPACE TEMPERATURE SETPOINT. ON HEATING DEMAND, PRIMARY AIR FLOW SHALL BE AT MINIMUM. ON COOLING DEMAND, INCREASE AIR FLOW FROM MINIMUM UP TO MAXIMUM AIR FLOW TO MAINTAIN SPACE SETPOINT.
   b. FOR DEMAND CONTROLLED VENTILATION (DCV), A SPACE CO_2 SENSOR SHALL OVERRIDE THE MINIMUM PRIMARY AIRFLOW SETPOINT AND INCREASE AIR FLOW TO MEET CO_2 CONCENTRATION SETPOINT OF 1,000 PPM OR LOWER. FAILURE OF CO_2 SENSOR SHALL REVERT TO STANDARD PRIMARY DAMPER MINIMUM POSITION. MONITOR AND RECORD THE CO_2 CONCENTRATION VALUES AT THE BMS.
   c. WARM-UP MODE – DAMPER SHALL BE CLOSED.
   3.HOT WATER HEATING COIL:
   a. OCCUPIED MODE: WHEN THE SPACE TEMPERATURE SENSOR IS CALLING FOR HEATING AND THE PRIMARY AIR DAMPER IS AT MINIMUM POSITION OR DCV POSITION, THE VALVE SHALL MODULATE TO INCREASE THE TERMINAL UNIT DISCHARGE AIR TEMPERATURE UP TO THE MAXIMUM HEATING AIR TEMPERATURE SETPOINT OF 85 DEGREES F (ADJ.). ON FURTHER DEMAND FOR HEATING, THE VALVE SHALL CONTINUE TO MODULATE TO MAINTAIN HEATING AIR SETPOINT AS FAN AIRFLOW INCREASES FROM MINIMUM TO THE HEATING AIRFLOW MAXIMUM.
   b. WARM-UP MODE: THE VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE AT THE HEATING SETPOINT.
   4.UNOCCUPIED MODE: THE SYSTEM SHALL BE OFF.
D. SYSTEM STOP:
   1. OPERATOR COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
   2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.
E. SAFETIES: FAN SHALL STOP IF ASSOCIATED PRIMARY AIR SYSTEM IS SHUT OFF BY THE FIRE ALARM SYSTEM.

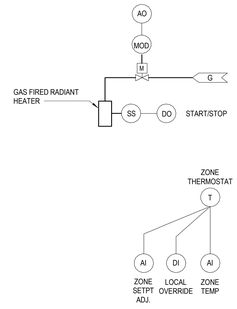
5 FAN POWERED TERMINAL UNIT CONTROL DIAGRAM
SCALE: NTS



SEQUENCE OF OPERATIONS – TYPICAL AIR CONDITIONING UNIT

1.SERVER ROOM UNITS:
   A. TWO FULL SIZE UNITS ARE PROVIDED (ONE AS BACK UP)
   B. THE LEAD ACU CONTROLS THE ROOM TEMPERATURE AT ALL TIMES VIA ITS PACKAGED CONTROLS AND THERMOSTAT.
   C. DDC MONITORS THE ACU SUMMARY ALARM AND ENABLES THE LAG ACU IF THE LEAD ACU FAILS.
   D. ROTATE THE LEAD ACU ON A WEEKLY BASIS (ADJ).
   E. DDC MONITORS THE ROOM TEMPERATURE WITH ITS OWN INDEPENDENT ROOM SENSOR.
2.OTHER MISCELLANEOUS UNITS:
   A. THE ACU CONTROLS THE ROOM TEMPERATURE AT ALL TIMES VIA ITS PACKAGED CONTROLS AND THERMOSTAT.
   B. DDC MONITORS THE ROOM TEMPERATURE WITH ITS OWN INDEPENDENT ROOM SENSOR.
3.SAFETIES:
   A. UPON A LOSS OF POWER, PERFORM AN ORDERLY SHUTDOWN OF THE SYSTEM. ONCE POWER IS RESTORED, RESTORE THE SYSTEM TO ITS SCHEDULED MODE OF OPERATION.
4.MONITORING AND ALARMS: PROVIDE MONITORING AND ALARMS AS SHOWN ON THE POINTS LIST.

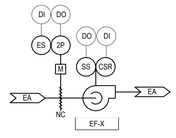
4 DUCTLESS AIR CONDITIONING UNIT SYSTEM DIAGRAM
SCALE: NTS



3 GAS FIRED RADIANT HEATER DIAGRAM
SCALE: NTS

DDC SEQUENCE OF OPERATIONS

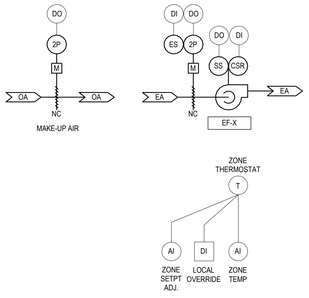
1.GENERAL:
   A. EACH RADIANT HEATER IS PROVIDED WITH ITS OWN WALL THERMOSTAT AND PACKAGED CONTROLS. A DDC SPACE TEMPERATURE SENSOR IS TO BE PROVIDED FOR EACH UNIT MOUNTED ADJACENT TO THE UNIT THERMOSTAT FOR MONITORING.
   B. WHEN HEATING IS REQUIRED AS DESCRIBED IN THE DIFFERENT OPERATING MODES, DDC SYSTEM ENABLES THE RADIANT HEATER AND IT OPERATES ITS PACKAGED CONTROLS TO MAINTAIN THE SPACE TEMPERATE HEATING SETPOINT PER ITS THERMOSTAT.
   C. ABOVE OA TEMPERATURE OF 60 DEG F (ADJ) HEATERS ARE DISABLED.
2.DDC SYSTEM SHALL OPERATE THE SYSTEM IN WARM UP, OCCUPIED, OR UNOCCUPIED MODE PER THE OWNER'S OCCUPANCY SCHEDULE.
3.WARMUP MODE: PLACE THE SYSTEM IN WARM-UP MODE BASED ON AN OPTIMIZED ALGORITHM WHICH COMPARES OUTDOOR AIR TEMPERATURE AND ZONE TEMPERATURE TO DETERMINE THE AMOUNT OF TIME PRIOR TO OCCUPIED MODE REQUIRED TO HEAT THE BUILDING TO OCCUPIED SETPOINT.
   A. ENABLE THE RADIANT HEATING SYSTEM CONTROLS.
4.OCCUPIED MODE: PLACE THE SYSTEM IN OCCUPIED MODE IF SCHEDULED TO BE OCCUPIED.
   A. ENABLE THE RADIANT HEATING SYSTEM CONTROLS.
5.UNOCCUPIED MODE: PLACE THE SYSTEM IN UNOCCUPIED MODE IF SCHEDULED TO BE UNOCCUPIED.
   A. DISABLE THE RADIANT HEATING SYSTEM CONTROLS.
6.TEMPORARY OCCUPANCY MODE: PLACE THE SYSTEM IN TEMPORARY OCCUPANCY MODE IF SCHEDULED TO BE UNOCCUPIED AND ANY ZONE PUSH BUTTON IS ENGAGED. OPERATE THE SYSTEM THE SAME AS OCCUPIED MODE. AFTER TWO HOURS (ADJ), RESTORE THE SYSTEM TO UNOCCUPIED MODE.
7.UNOCCUPIED HEATING MODE: PLACE THE SYSTEM IN UNOCCUPIED HEATING MODE IF SCHEDULED TO BE UNOCCUPIED AND THE ZONE TEMPERATURE FALLS BELOW 55 DEG F. OPERATE THE SYSTEM THE SAME AS IN WARM-UP MODE UNTIL THE ZONE TEMPERATURE REACHES 60 DEG F. ONCE THE ZONE TEMPERATURE REACHES 60 DEG F, PLACE THE SYSTEM BACK IN UNOCCUPIED MODE. PREVENT THE SYSTEM FROM CYCLING MORE THAN ONCE PER HOUR.
8.MONITORING AND ALARMS: PROVIDE MONITORING AND ALARMS AS SHOWN ON THE POINTS LIST.



SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
   1. FAN OFF.
   2. DAMPERS CLOSED
B. SYSTEM START:
   1. THE EXHAUST FAN OPERATES ACCORDING TO THE OWNER'S OCCUPANCY SCHEDULE.
   2. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
   3. OPERATOR ENTERED COMMAND AT THE BMS.
A. SYSTEM OPERATION:
   1. DAMPERS OPEN.
   2. FANS START AFTER PROOF OF DAMPER OPENING.
A. SYSTEM STOP:
   1. OPERATOR-COMMAND AT THE BMS OR AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULES.
   2. WHEN THE SYSTEM IS CALLED TO STOP, THE SYSTEM SHALL REVERT TO THAT "OFF" STATE AS DESCRIBED ABOVE.

2 SCHEDULED EXHAUST FAN DIAGRAM
SCALE: NTS



SEQUENCE OF OPERATIONS

A. SYSTEM OFF:
   1. FAN OFF.
   2. DAMPERS CLOSED
B. SYSTEM START:
   1. AUTOMATICALLY BY THE BMS BASED ON PREPROGRAMMED SCHEDULE.
   2. OPERATOR ENTERED COMMAND AT THE BMS.
   3. SPACE THERMOSTAT.
C. SYSTEM OPERATION:
   1. DAMPERS OPEN.
   2. FANS START AFTER PROOF OF DAMPER OPENING.
   3. SPACE THERMOSTAT SHALL ENERGIZE THE EXHAUST FAN ON A RISE IN TEMPERATURE ABOVE 80°F.
D. SYSTEM STOP:
   1. OPERATOR ENTERED COMMAND AT THE BMS.
   2. IF ROOM TEMPERATURE IS BELOW SETPOINT REVERT TO SYSTEM OFF STATUS.

1 TEMPERATURE CONTROLLED EXHAUST FAN DIAGRAM
SCALE: NTS

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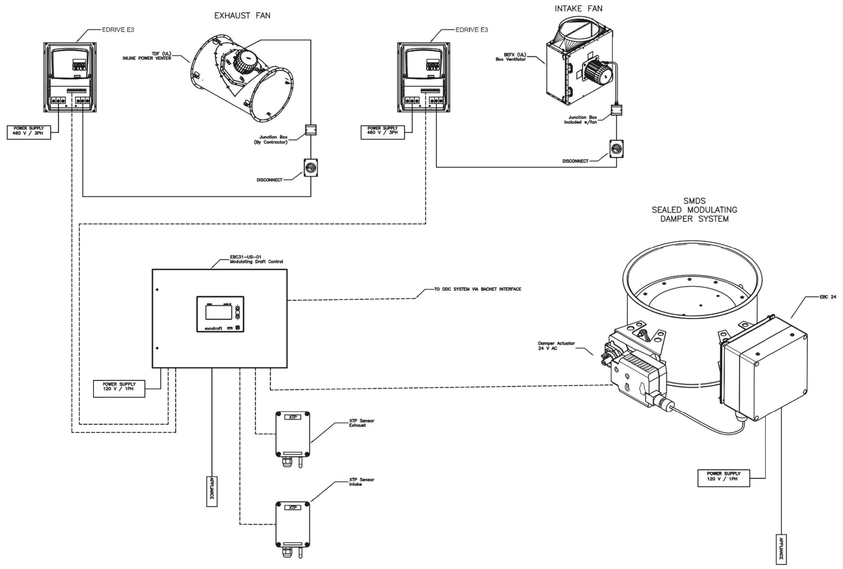
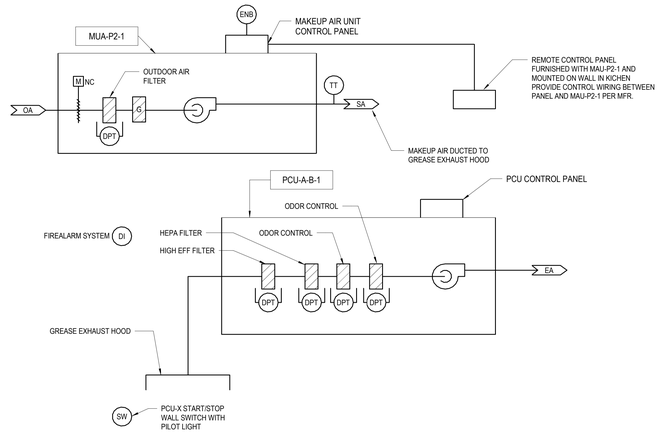
MECHANICAL CONTROL DIAGRAM

M5.12



8 GAS FIRED BOILER/WATER HEATER CONTROL DIAGRAM
SCALE: NTS



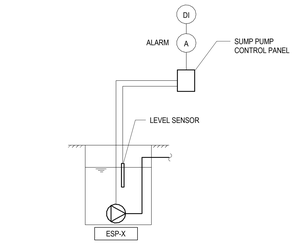
SEQUENCE OF OPERATION FOR KITCHEN MAKEUP AIR UNIT AND GREASE HOOD EXHAUST FAN

A. THE SYSTEM CONSISTS OF A 100% OUTSIDE AIR MAKEUP AIR UNIT (MAU-P2-1) WITH CONSTANT SPEED SUPPLY FAN, GAS FIRED HEATING SECTION AND FACTORY PACKAGED CONTROLS, AND A CONSTANT SPEED GREASE HOOD EXHAUST FAN.

B. DDC CONTROLS PERFORM THE FOLLOWING FUNCTIONS:
1. PROVIDE A MANUAL WALL SWITCH (WITH PILOT LIGHT) WHICH SIGNALS THE DDC SYSTEM TO START AND STOP THE GREASE HOOD EXHAUST FAN (PCU-B-1).
2. WHENEVER THE GREASE HOOD EXHAUST FAN IS SIGNALLED TO START, SIGNAL THE MAKEUP AIR UNIT TO PERATE.
3. IF THE GREASE HOOD EXHAUST FAN IS LEFT ON AT THE EXPIRATION OF THE OCCUPIED MODE, PROVIDE A DDC STATUS ALARM.
4. UPON A SIGNAL FROM THE FIRE ALARM SYSTEM THAT THE FIRE ALARM SYSTEM IS IN ALARM, DDC SYSTEM SHALL OVERRIDE THE MANUAL WALL SWITCH AND START THE GREASE HOOD EXHAUST FAN (WHICH ALSO SIGNALS MAU-P2-1 TO BE ENABLED).

C. MAU-P2-1 PACKAGED CONTROLS PERFORM THE FOLLOWING FUNCTIONS:
1. ON AN ENABLE COMMAND FROM THE DDC SYSTEM, PACKAGED CONTROLS OPEN THE UNIT INLET DAMPER, STARTS THE SUPPLY FAN AND CONTROL THE GAS BURNER TO MAINTAIN THE UNIT DISCHARGE TEMPERATURE.
2. DISCHARGE AIR TEMPERATURE SETPOINT WILL BE RESET BY A SIGNAL FROM THE CONTROLLER PROVIDED WITH MAU-P2-1.
3. FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR UNIT WILL SHUTDOWN.

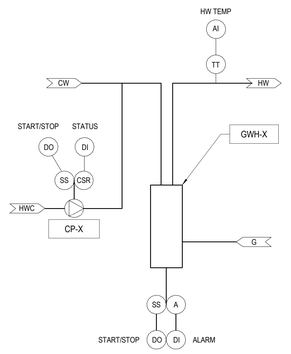
6 KITCHEN MAKEUP AIR SYSTEM DIAGRAM
SCALE: NTS



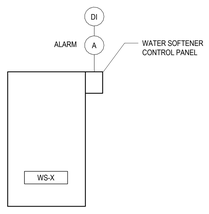
NOTES:

1) REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION AND QUANTITY OF SUMP PUMP.

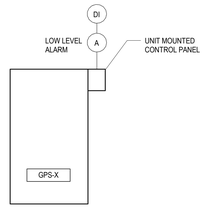
3 SUMP PUMP CONTROL DIAGRAM
SCALE: NTS



2 GAS FIRED DOMESTIC HOT WATER HEATER SYSTEM DIAGRAM
SCALE: NTS



5 WATER SOFTNER CONTROL DIAGRAM
SCALE: NTS



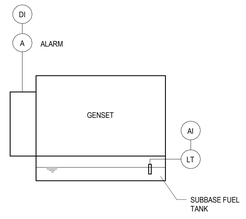
SEQUENCE OF OPERATIONS

A. UNIT TO RUN WHEN PRESSURE IN THE SYSTEM DECREASES TO THE MINIMUM ALLOWABLE FILL PRESSURE

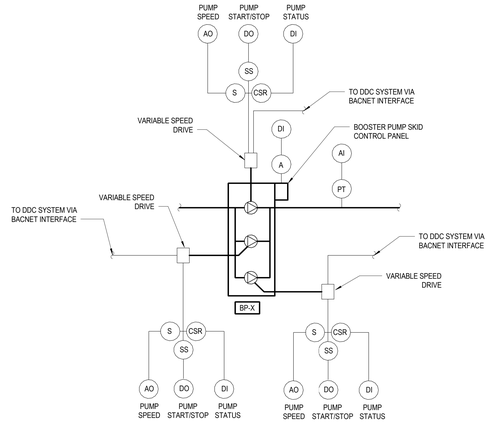
B. PUMP RUNS UNTIL PRESSURE SWITCH REACHES THE CUT-OUT PRESSURE.

C. IF THE GLYCOL SOLUTION IN THE RESERVOIR FALLS BELOW THE LOW LEVEL POINT IN THE RESERVOIR, THE LOW LEVEL SWITCH WILL TURN PUMP OFF, AN ALARM LIGHT WILL BE SIGNALED LOCALLY AND ALARM WILL BE SENT TO BMS SYSTEM AS WELL.

4 GLYCOL PUMP SUPPLY UNIT CONTROL DIAGRAM
SCALE: NTS



7 GENERATOR MONITORING
SCALE: NTS



SEQUENCE OF OPERATIONS

A. UNIT TO RUN BASED ON INTERNAL LOGIC AT THE CONTROL PANEL. PUMPS TO STAGE ON & OFF BASED ON DOMESTIC WATER DEMAND.

1 BOOSTER PUMP CONTROL DIAGRAM
SCALE: NTS

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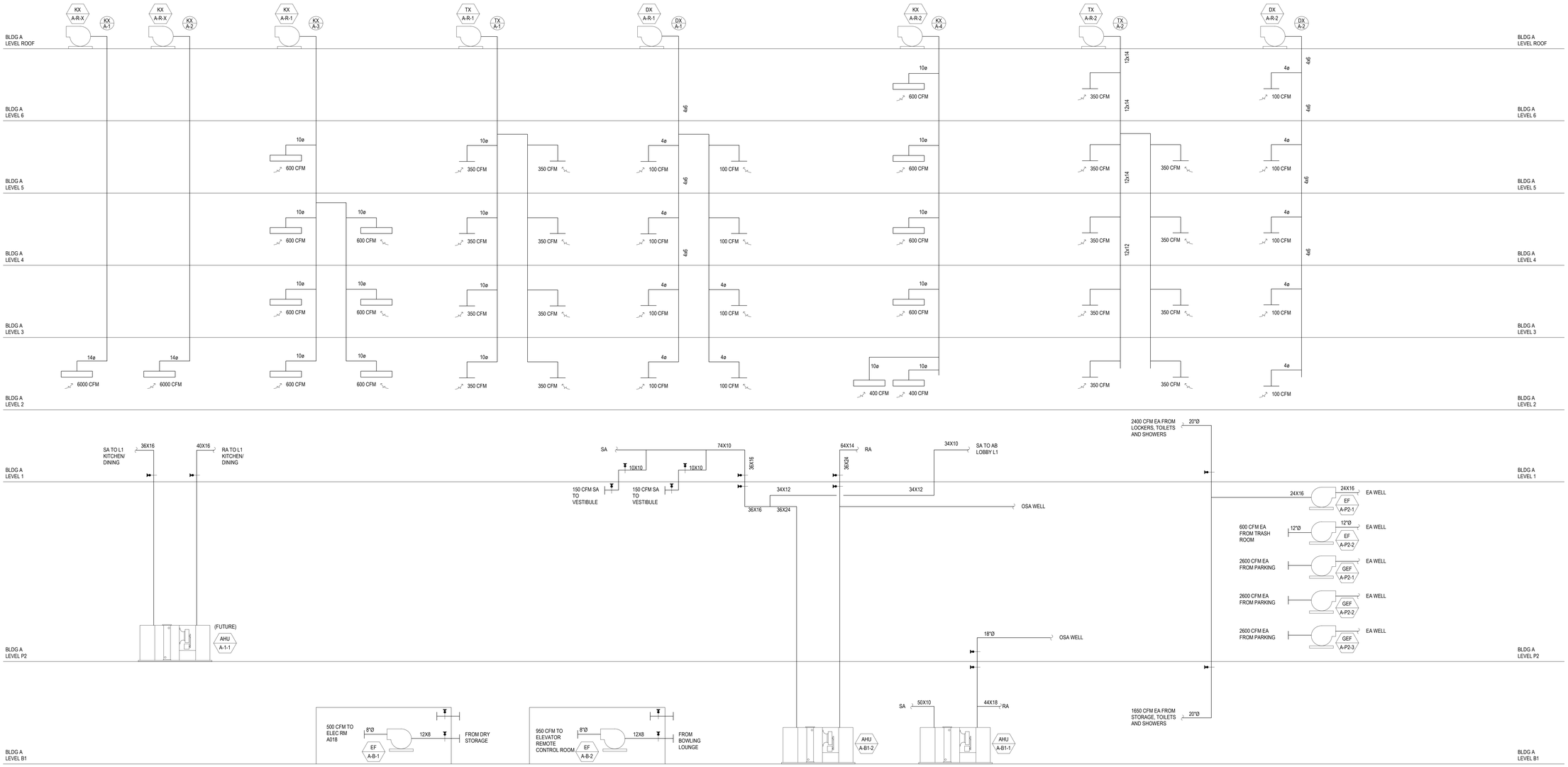
MECHANICAL CONTROL DIAGRAM

M5.13



1 MECHANICAL AIR RISER DIAGRAM - TOWER A

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

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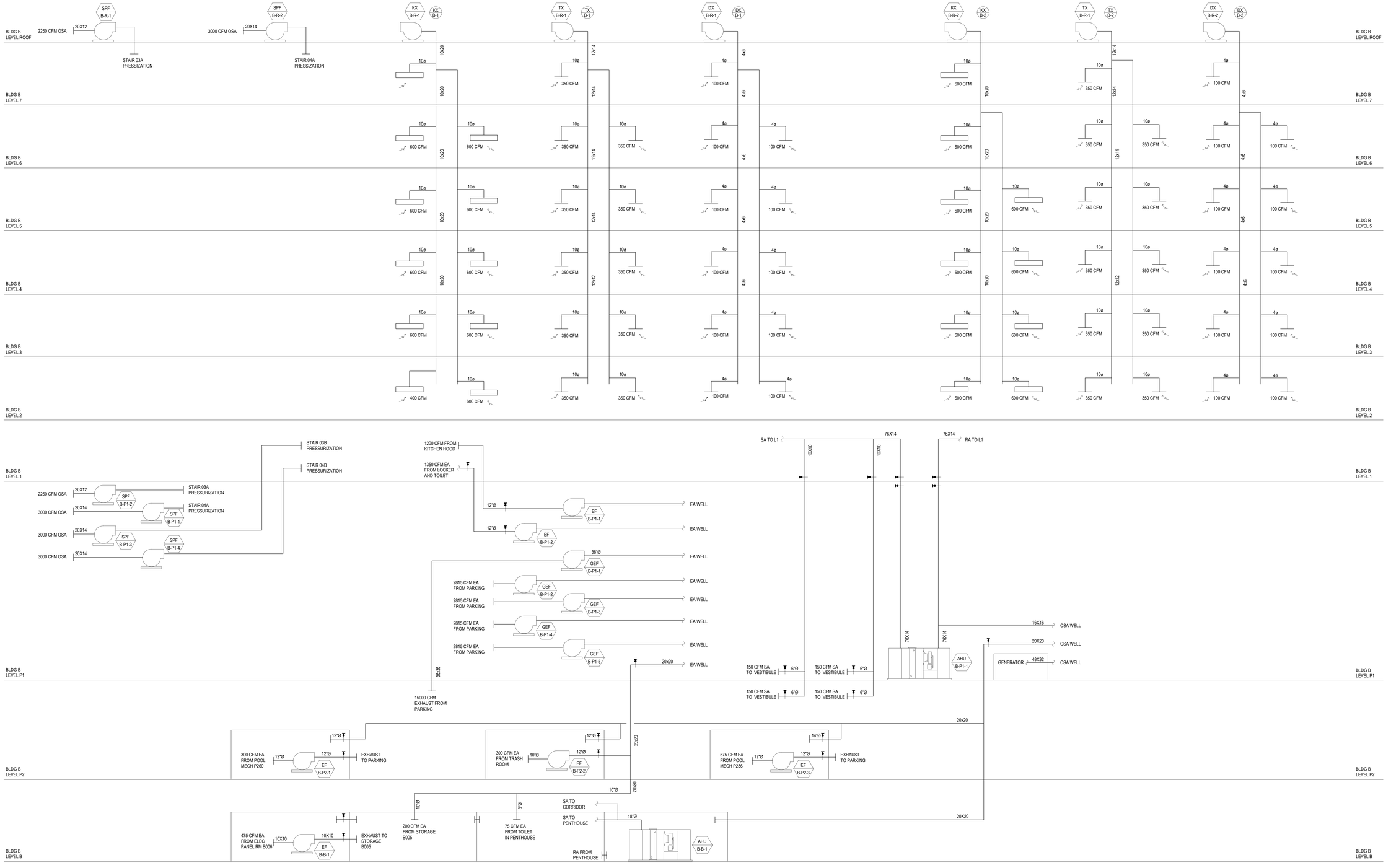
MECHANICAL AIR RISER DIAGRAM - TOWER A

M6.01A



1 MECHANICAL AIR RISER DIAGRAM - TOWER B

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

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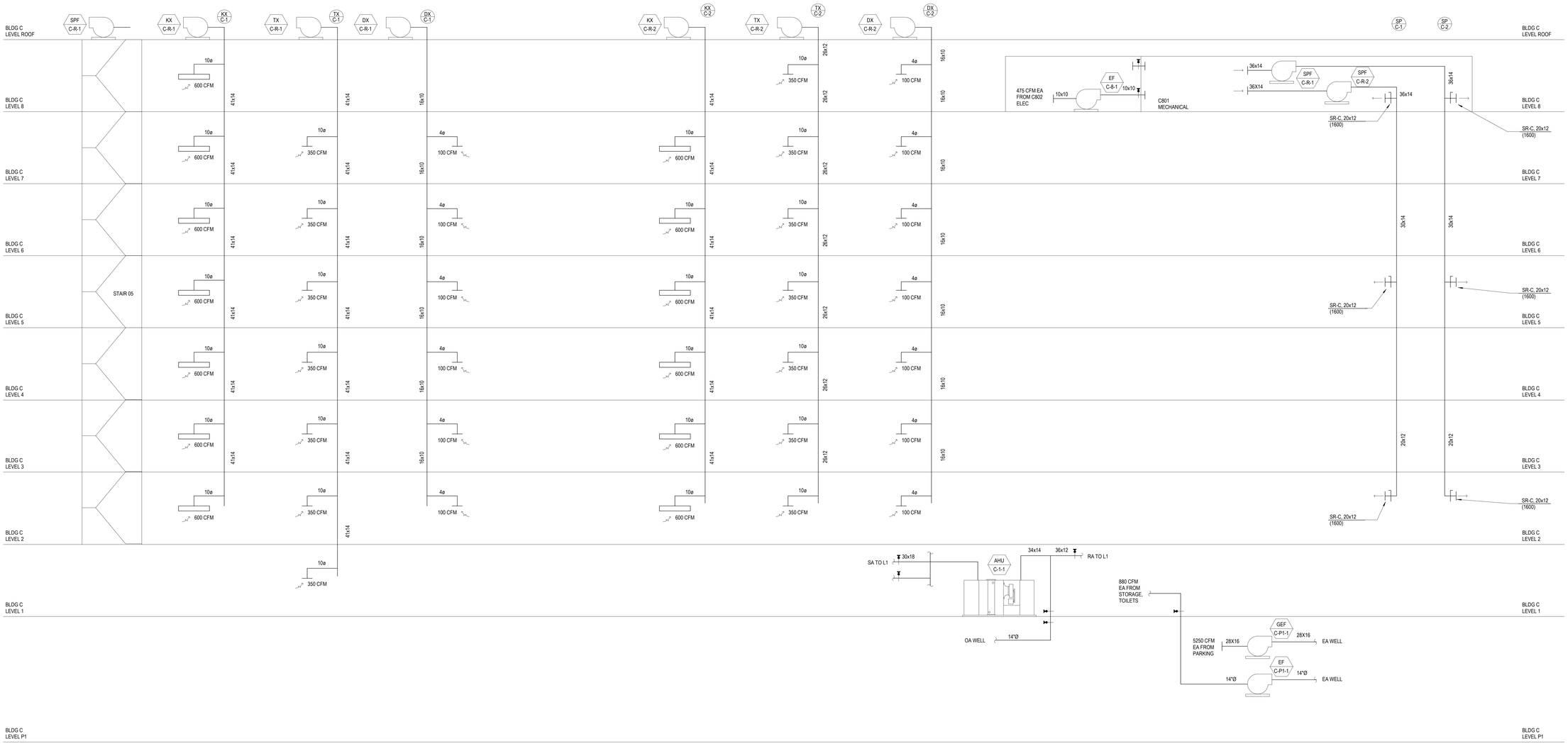
MECHANICAL AIR RISER DIAGRAM - TOWER B

M6.01B



1 MECHANICAL AIR RISER DIAGRAM - BLDG C

SCALE: NTS

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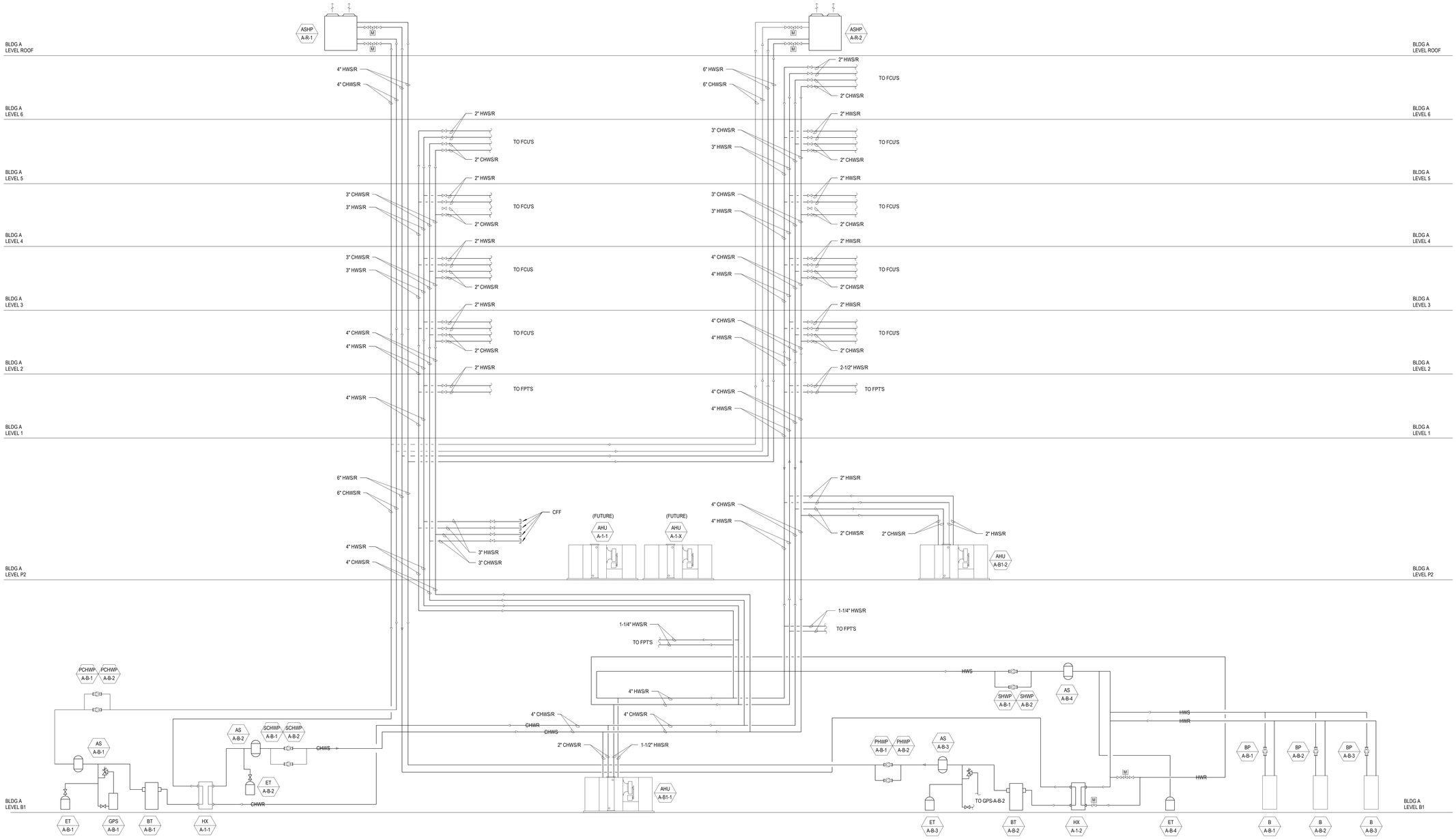
MECHANICAL AIR RISER DIAGRAM - TOWER C

M6.01C



1 MECHANICAL HYDRONIC RISER DIAGRAM - TOWER A
SCALE: NTS

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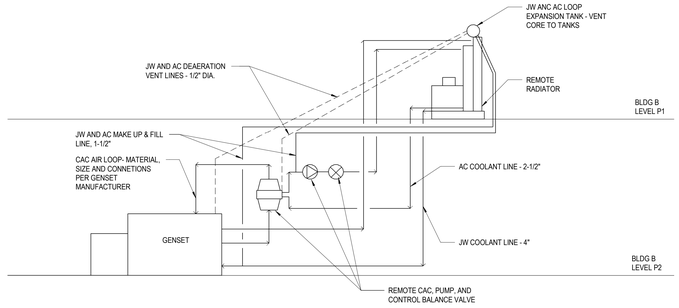
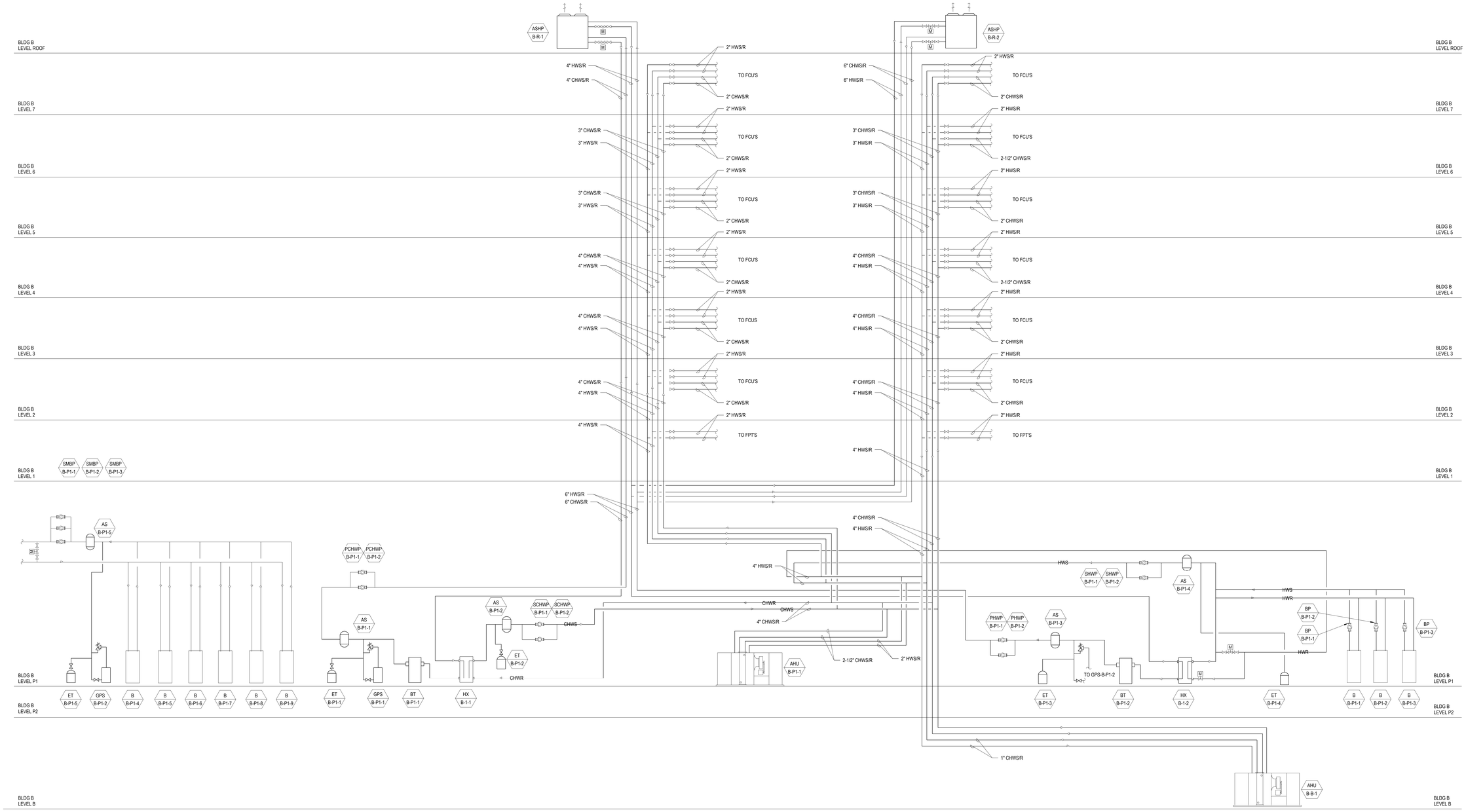
MECHANICAL HYDRONIC RISER DIAGRAM - TOWER A

M6.02A



2 MECHANICAL GENSET REMOTE RADIATOR RISER DIAGRAM - TOWER B

SCALE: NTS



1 MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

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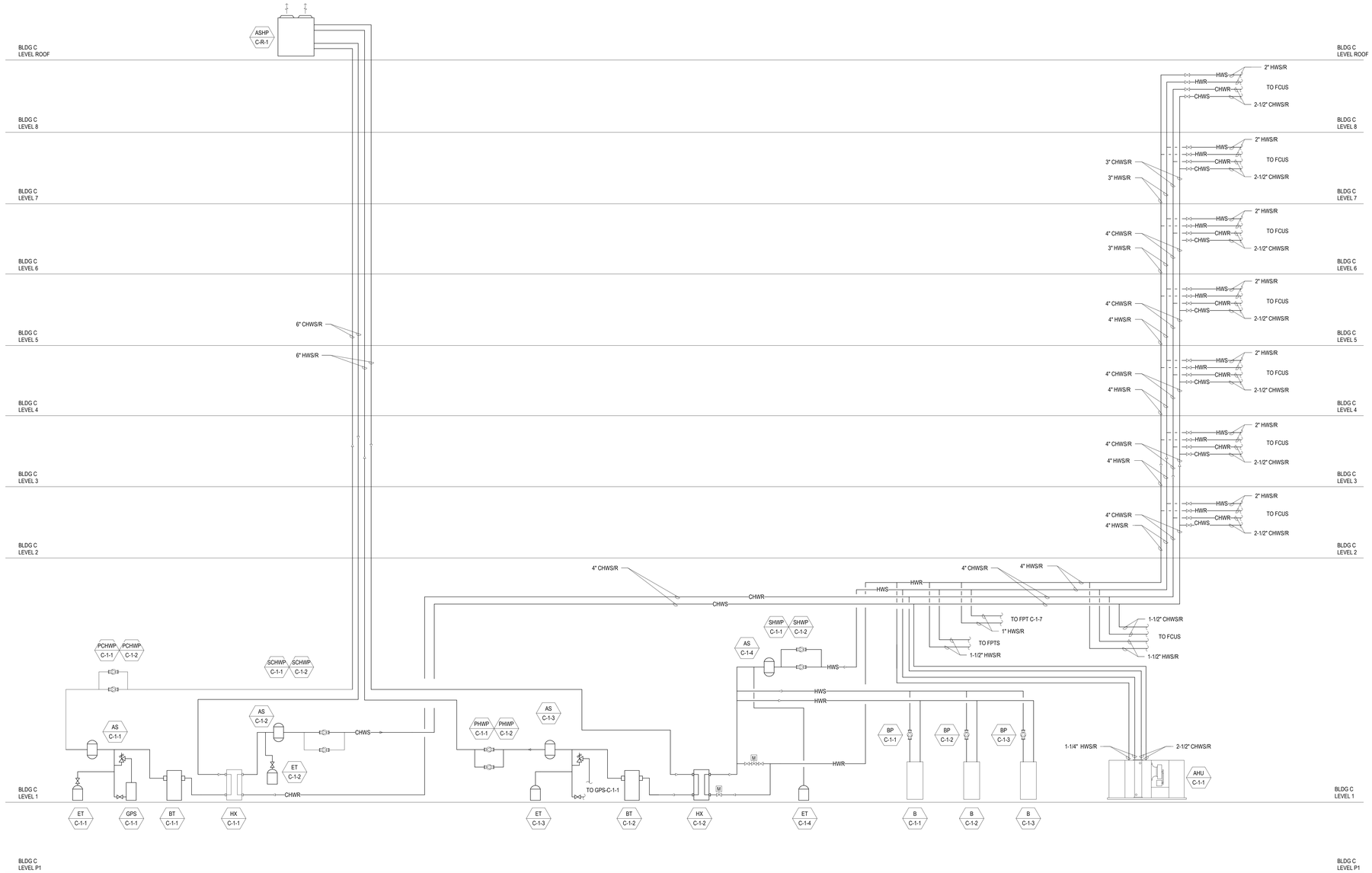
MECHANICAL HYDRONIC RISER DIAGRAM - TOWER B

M6.02B



1 MECHANICAL HYDRONIC RISER DIAGRAM - BLDG C

SCALE: NTS

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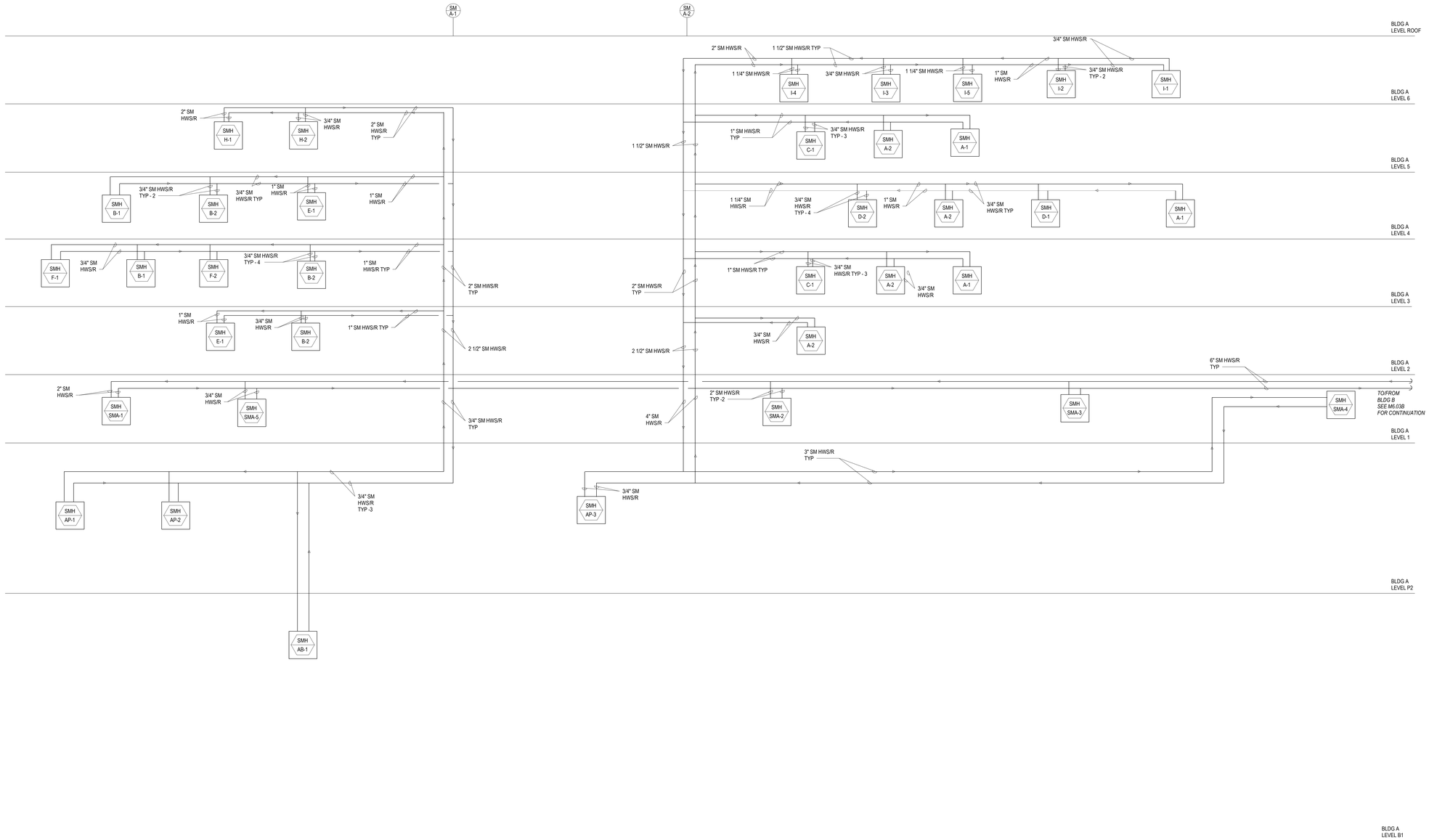
MECHANICAL HYDRONIC RISER DIAGRAM - TOWER C

M6.02C



1 MECHANICAL SNOWMELT RISER DIAGRAM - TOWER A

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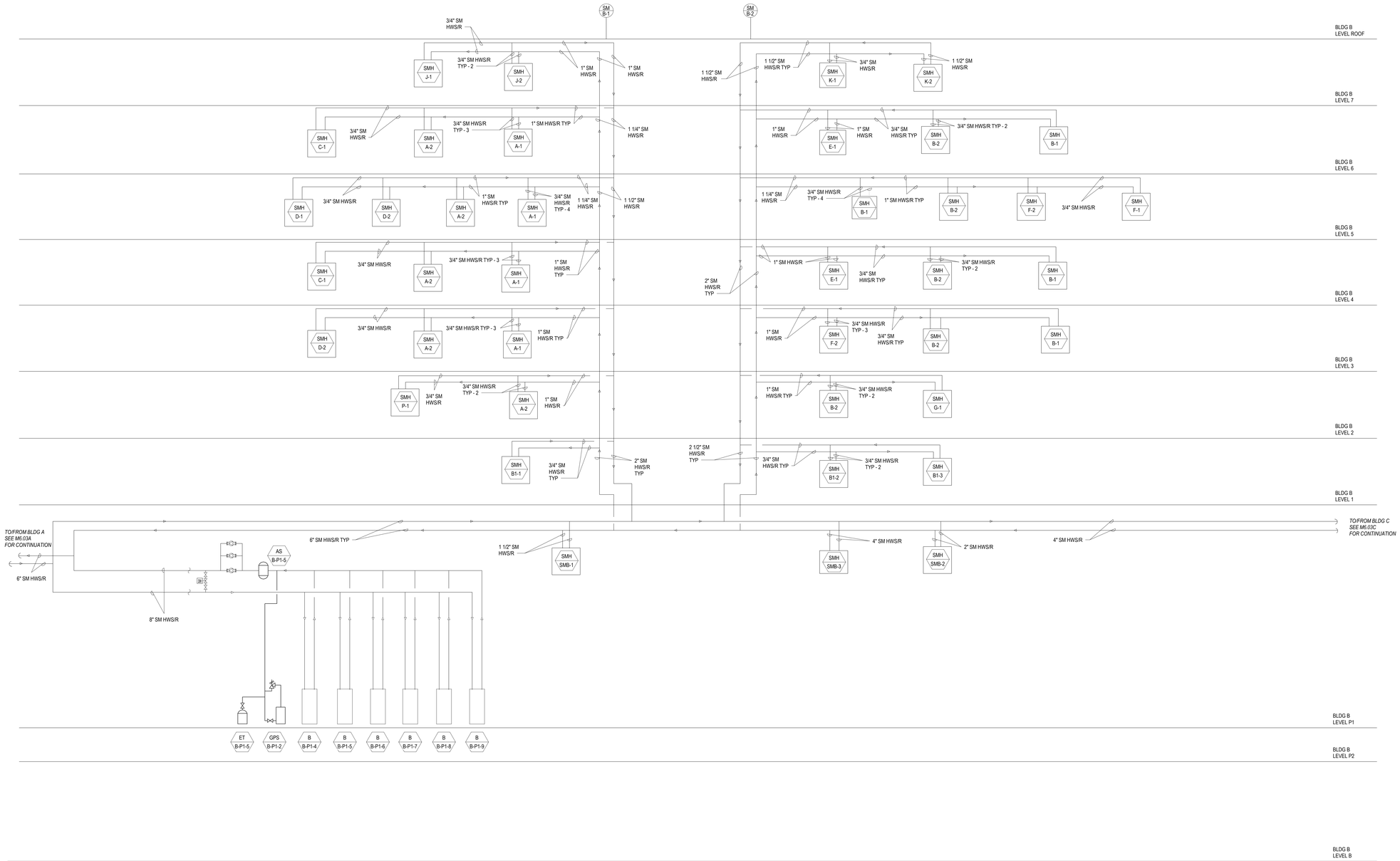
MECHANICAL SNOWMELT RISER DIAGRAM - TOWER A

M6.03A



1 MECHANICAL SNOWMELT RISER DIAGRAM - TOWER B

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principal architect _____
project manager _____
drawn by _____
_____
checked by Checker
job no.
date 5/17/2024

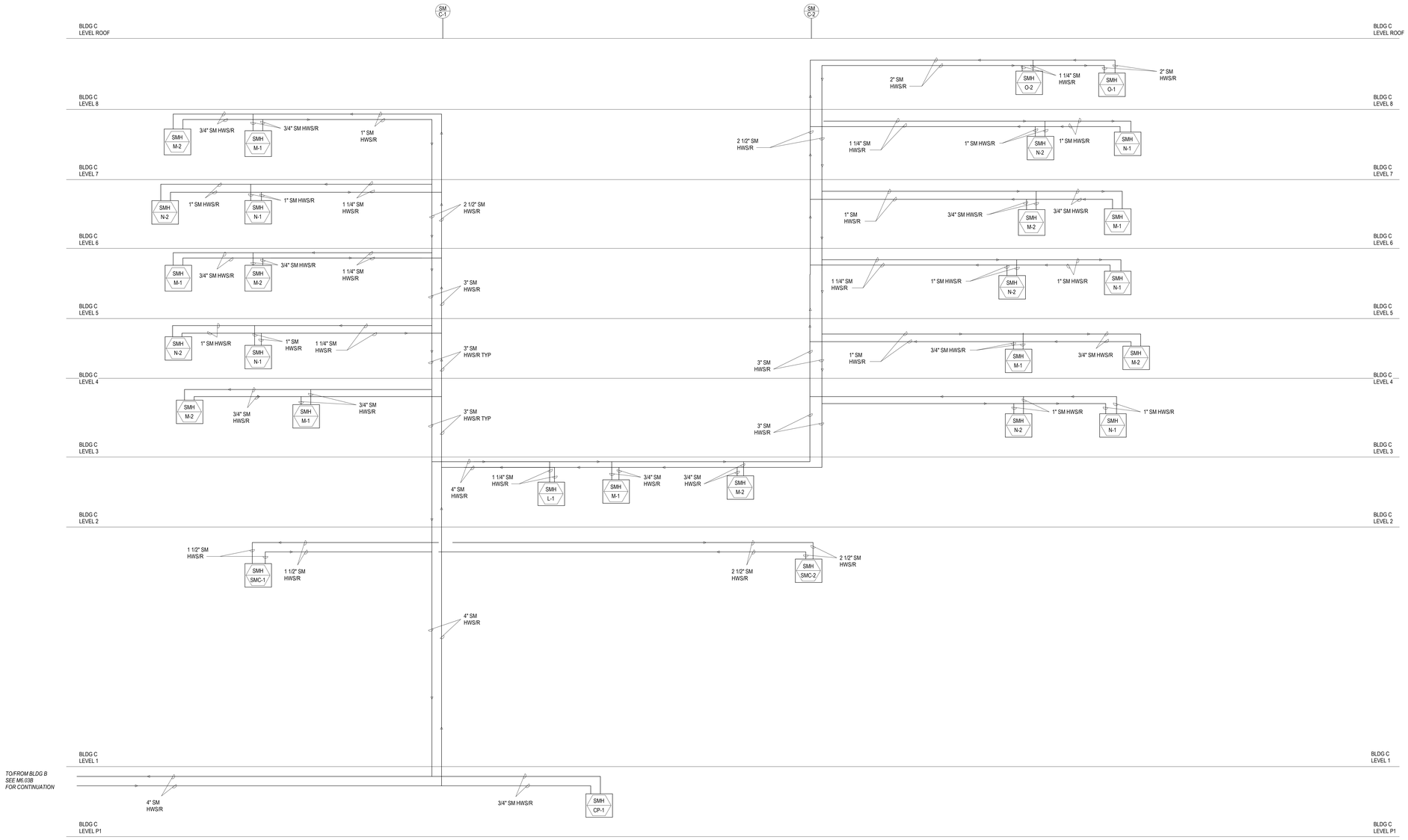
revisions:

no.	date	by
1	5/17/2024	IFC 2

IFC Set 2 of 3
5/17/2024

MECHANICAL SNOWMELT RISER DIAGRAM - TOWER B

M6.03B



1 MECHANICAL SNOWMELT RISER DIAGRAM - BLDG C

SCALE: NTS

Reserved for permit stamp

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MECHANICAL
SNOWMELT RISER
DIAGRAM - BLDG C

M6.03C