

CONTROL LEGEND

ABBR DESCRIPTION	ABBR DESCRIPTION	ABBR DESCRIPTION
AI ANALOG INPUT	FR FREEZESTAT	PHC PREHEAT COIL
AO ANALOG OUTPUT	FRN FURNACE	PT PRESSURE TRANSMITTER
BDD BACKDRAFT DAMPER	FS FLOW SWITCH	PZ PIEZOMETER RING
BTU BTU METER	FSCP FIREFIGHTER SMOKE	RA RETURN AIR
C CONTROLLER	FSCP CONTROL PANEL	RF RETURN FAN
CC COOLING COIL	FSPD FAN SPEED	S SPACE TEMPERATURE SENSOR
CD CONTROL DAMPER	FT FLOW TRANSMITTER	S/S START/STOP
CPM AIRFLOW MEASURING SENSOR	H HUMIDITY OR HIGH	SA SUPPLY AIR
CHR CHILLED WATER RETURN	HC HEATING COIL	SC SPEED CONTROL
CHS CHILLED WATER SUPPLY	HL HIGH/LOW	SD SMOKE DETECTOR
CO2 CARBON DIOXIDE	HH HIGH LIMIT HUMIDITY SWITCH	SF SUPPLY FAN
COND CONDENSATE OVERFLOW	HS HUMIDITY SENSOR	SPT STATIC PRESSURE TRANSMITTER
COV CHANGE OF VALUE	HT HUMIDITY TRANSMITTER	SR SWITCHING RELAY
CSEN CURRENT SENSOR	HWR HOT WATER RETURN	T THERMOSTAT
DI DIGITAL INPUT	HWS HOT WATER SUPPLY	TM THERMAL MASS METER
DO DIGITAL OUTPUT	IR INTERLOCK RELAY	TO TIMED OVERRIDE SWITCH
DP DIFFERENTIAL PRESSURE	L LEVEL OR LOW	TS TEMPERATURE SENSOR
EA EXHAUST AIR	LAN LOCAL AREA NETWORK	TT TEMPERATURE TRANSMITTER
ES END SWITCH	CONNECTION	TTAB TEMPERATURE TRANSMITTER
F FILTER ASSEMBLY OR FAIL	M MOTORIZED CONTROL	WAVE/RAGING BULB
FACP FIRE ALARM CONTROL PANEL	MIN MINIMUM	V VALVE
FAS FIRE ALARM SYSTEM	ND NITROGEN DIOXIDE	VFD VARIABLE FREQUENCY DRIVE
FC FAIL CLOSED	OA OUTSIDE AIR	VP VIRTUAL POINT
FCU FAN COIL UNIT	OS OCCUPANCY SENSOR	VS VELOCITY SENSOR
FM FLOW METER	P SPACE STATIC PRESSURE	WBT WET BULB TEMPERATURE TRANSMITTER
FO FAIL OPEN	P-E PNEUMATIC ELECTRIC SWITCH	

CONTROL SYSTEM GENERAL NOTES:

DESIGN INTENT:

- THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO COMMUNICATE A DESIGN INTENT FOR CONTROL OF INDICATED SYSTEMS. ALTERNATIVE CONTROL METHODS MAY BE USED WHERE PRACTICAL OR WHERE NECESSARY TO MEET REQUIRED SYSTEM PERFORMANCE. WHERE ALTERNATIVE CONTROL METHODS ARE USED TO MEET THE DESIGN INTENT, THESE METHODS SHALL BE INDICATED IN SUBMITTAL TO ENGINEER FOR EVALUATION. ENGINEER SHALL DETERMINE IF A SUBMITTED ALTERNATIVE CONTROL METHOD MEETS THE DESIGN INTENT.
- ALTHOUGH THE MECHANICAL DRAWINGS MAY INDICATE A PRODUCT AS BASIS OF DESIGN, THE CONTROL DRAWINGS AND SEQUENCES ARE PROVIDED TO INDICATE A DESIGN INTENT FOR THE COMPLETE SYSTEM THAT IS APPLICABLE TO MULTIPLE POTENTIAL PRODUCTS OR MANUFACTURERS. CONTROL METHODS SHALL BE DEVELOPED BY THE TEMPERATURE CONTROLS CONTRACTOR AND/OR EQUIPMENT PROVIDER IN ORDER TO ACHIEVE THE REQUIRED SYSTEM PERFORMANCE.

REQUIRED COORDINATION:

- THE DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN EQUIPMENT PROVIDERS AND TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO FULLY SATISFY THE DESIGN INTENT. INTERFACE BETWEEN CONTROL SYSTEMS, INCLUDING ITEMS PROVIDED BY EACH ENTITY, COMMUNICATION PROTOCOL, SIGNAL TYPE, ETC., SHALL BE COORDINATED PRIOR TO RELEASE OF EQUIPMENT FOR PRODUCTION.
- THE TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS AND PRODUCT DATA FOR THE ENTIRE CONTROL SYSTEM TO ENGINEER FOR REVIEW. THE TEMPERATURE CONTROLS SUBMITTAL SHALL DISTINGUISH WHERE SPECIFIC SEQUENCE ELEMENTS ARE PROVIDED WITHIN THE BOILER PLANT CONTROL SYSTEM OR WITHIN PACKAGED EQUIPMENT CONTROLLERS. RE: SPECIFICATIONS FOR REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 23 05 01 MECHANICAL AND ELECTRICAL COORDINATION.

SEQUENCE OF OPERATION GENERAL NOTES:

GENERAL:

- IN THE EVENT OF A POWER OUTAGE OR OTHER MALFUNCTION, THE CURRENTLY ENABLED CONTROLS SEQUENCES SHALL BE MAINTAINED. RE: SPECIFICATIONS.

OCCUPANCY SCHEDULES:

- THE FOLLOWING SPECIAL OCCUPANCY SCHEDULE MODES ARE HEREBY DEFINED:
 - OCCUPIED MODE
 - UNOCCUPIED MODE

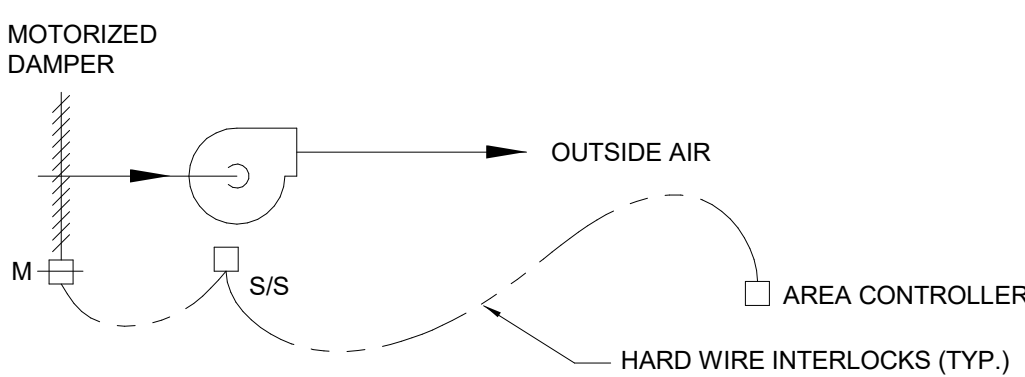
INITIAL SPACE THERMOSTAT SETPOINTS

- INITIAL SPACE THERMOSTAT SETPOINTS SHALL BE AS FOLLOWS:

- RETAIL SPACE:
COOLING: 76F
HEATING: 70F

BUILDING A RETAIL LOCAL AREA CONTROLLER:

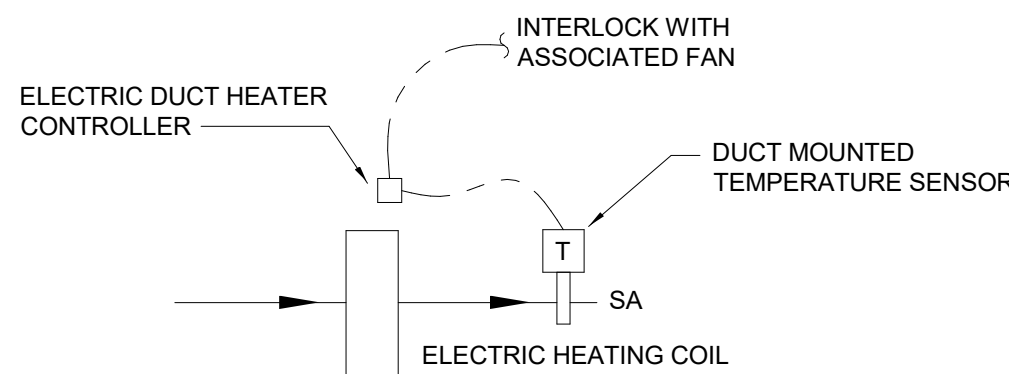
- THE BUILDING A RETAIL SPACE SHALL BE PROVIDED WITH A LOCAL AREA CONTROLLER WITH TOUCHSCREEN INTERFACE. THE LOCAL AREA CONTROLLER SHALL CONTROL THE VENTILATION SUPPLY FAN, THE EXHAUST FAN, THE VENTILATION DUCT HEATER, AND ALL FAN COIL UNITS SERVED BY THE ASSOCIATED VENTILATION SUPPLY FAN.
- THE INTENT OF THE LOCAL AREA CONTROLLER IS TO OPERATE ALL EQUIPMENT SERVING THE AREA SIMULTANEOUSLY IN OCCUPIED MODE FOR THE PURPOSE OF AIRFLOW BALANCING. THE LOCAL AREA CONTROLLER SHALL DETERMINE OCCUPIED AND UNOCCUPIED MODE SCHEDULE.
- OCCUPIED MODE: WHEN THE LOCAL AREA CONTROLLER IS IN OCCUPIED MODE, THE VENTILATION SUPPLY FAN SHALL START, THE VENTILATION DUCT HEATER SHALL BE ENABLED, THE EXHAUST FAN SHALL START, AND ALL FAN COIL UNITS SERVED BY THE VENTILATION SUPPLY FAN SHALL ENTER OCCUPIED MODE.
- UNOCCUPIED MODE: WHEN THE LOCAL AREA CONTROLLER IS IN UNOCCUPIED MODE, THE VENTILATION SUPPLY FAN SHALL STOP, THE VENTILATION DUCT HEATER SHALL BE DISABLED, THE EXHAUST FAN SHALL STOP, AND ALL FAN COIL UNITS SERVED BY THE VENTILATION SUPPLY FAN SHALL ENTER UNOCCUPIED MODE.
- NIGHT SETBACK MODE: WHEN THE AREA CONTROLLER IS UNOCCUPIED MODE, THE VENTILATION SUPPLY FAN SHALL REMAIN STOPPED, THE VENTILATION DUCT HEATER SHALL BE DISABLED, THE EXHAUST FAN SHALL REMAIN STOPPED, AND ALL FAN COIL UNITS SERVED BY THE VENTILATION SUPPLY FAN SHALL BE ALLOWED TO CYCLE BASED ON TEMPERATURE IN EACH INDIVIDUAL ZONE.
- OCCUPIED AND UNOCCUPIED MODE SCHEDULING AND SETPOINT ADJUSTMENT SHALL BE CAPABLE OF BEING PROGRAMMED AT THE LOCAL AREA CONTROLLER VIA A TOUCHSCREEN INTERFACE LOCATED WITHIN THE STORAGE ROOM. SCHEDULES SHALL BE CAPABLE OF CONFORMING TO AN HOUR BY HOUR OCCUPANCY SCHEDULE INCLUDING UP TO ONE FULL YEAR OF HOUR BY HOUR SCHEDULING.



VENTILATION SUPPLY FAN CONTROL

NONE

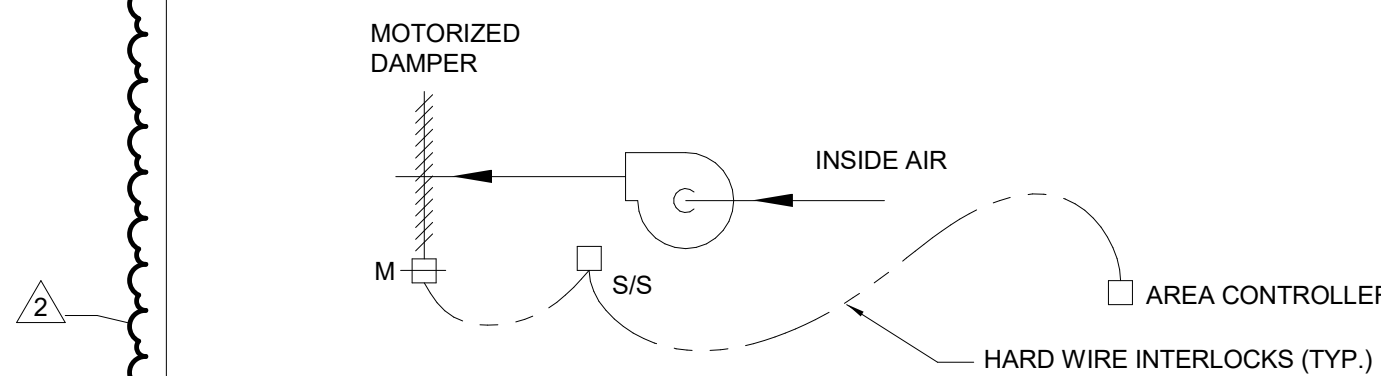
- UPON START SIGNAL FROM ASSOCIATED AREA CONTROLLER, ENERGIZE FAN AND OPEN OUTSIDE AIR MOTORIZED DAMPER. FAN SHALL OPERATE CONTINUOUSLY WHEN IN OCCUPIED MODE. UPON STOP SIGNAL FROM ASSOCIATED AREA CONTROLLER, DE-ENERGIZE FAN AND CLOSE MOTORIZED DAMPER.



ELECTRIC DUCT HEATER CONTROL

NONE

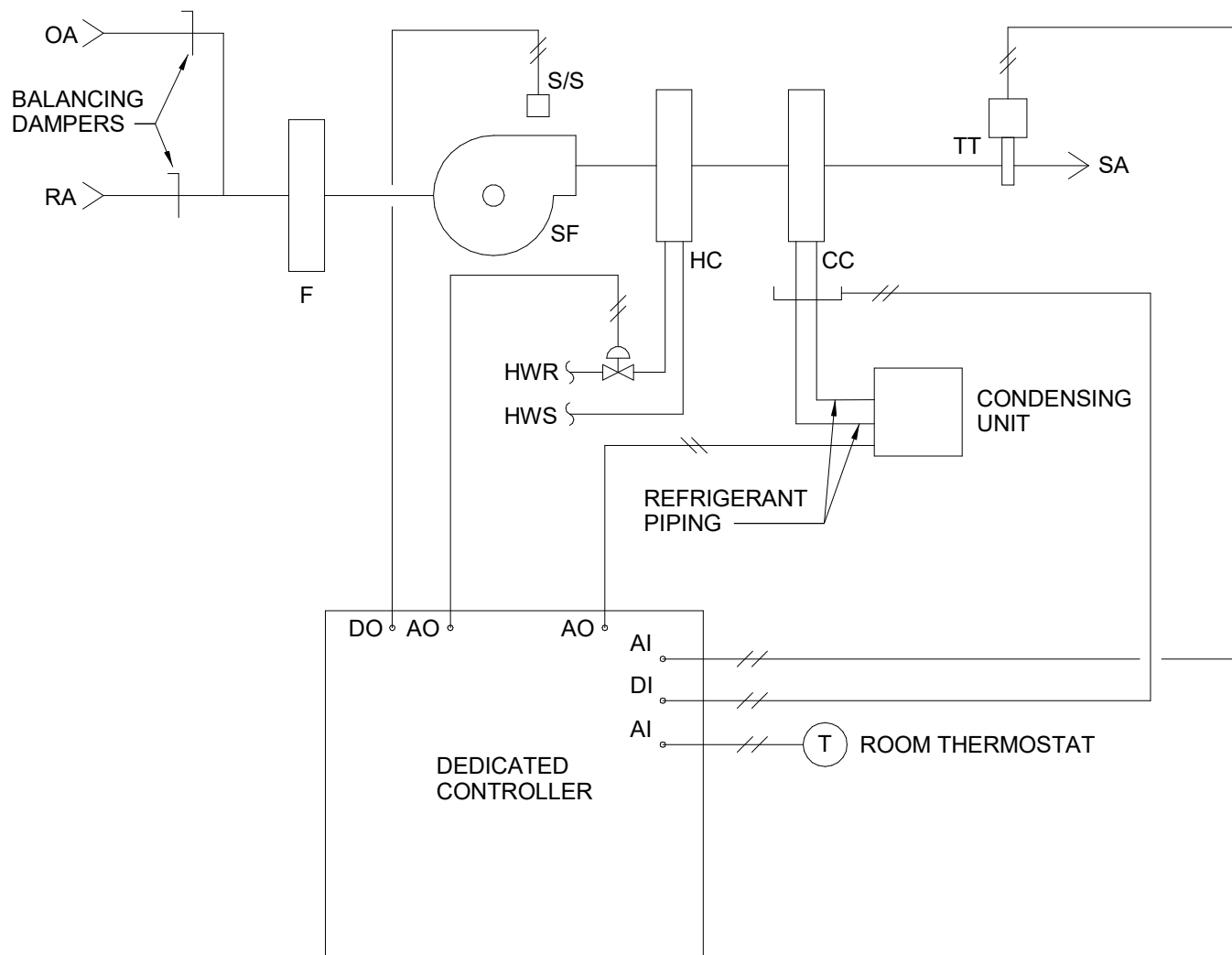
- INTERLOCK ELECTRIC DUCT HEATER WITH VENTILATION SUPPLY FAN SERVING SAME AREA. ENERGIZE DUCT HEATER AND MODULATE TO MAINTAIN VENTILATION SUPPLY AIR TEMPERATURE OF 50F (ADJ.). DUCT HEATER SHALL BE ENABLED ONLY WHEN SUPPLY FAN IS OPERATING.



EXHAUST FAN CONTROL

NONE

- MOTORIZED DAMPER SHALL OPEN AND FAN SHALL BE ENERGIZED VIA SIGNAL FROM LOCAL AREA CONTROLLER.

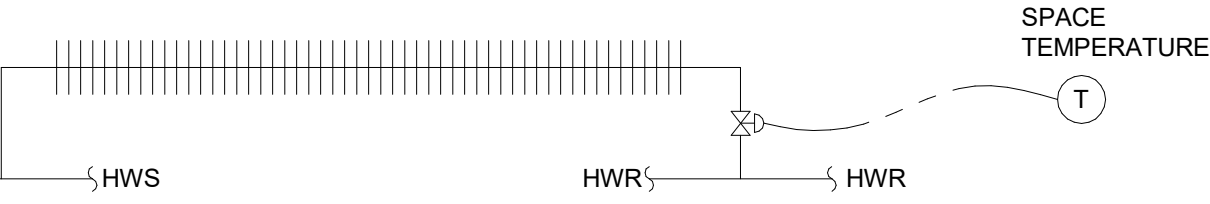


BUILDING A RETAIL FAN COIL UNIT CONTROL

NONE

SEQUENCE OF OPERATION:

- GENERAL:
 - THE FOLLOWING SEQUENCE OF OPERATION INCLUDES REQUIRED FUNCTIONALITY OF THE FAN COIL UNIT. POINTS REQUIRED TO EXECUTE THIS SEQUENCE SHALL BE COORDINATED BETWEEN THE EQUIPMENT PROVIDER AND TEMPERATURE CONTROLS CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SUBMIT LIST OF ITEMS TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR IN ORDER TO EXECUTE THIS SEQUENCE.
 - UNIT SHALL BE PROVIDED WITH A LOCAL THERMOSTAT WITH CONNECTION TO THE LOCAL AREA CONTROLLER.
- OCCUPIED MODE:
 - WHEN THE FCU IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. THE SUPPLY FAN SHALL UTILIZE MULTI-SPEED FAN CONTROL. COOLING AND HEATING SHALL MODULATE IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - THE FAN COIL UNITS SERVING THE RETAIL SPACE ARE PROVIDED WITH A COMMON OUTSIDE AIR LOUVER AND MOTORIZED DAMPER AND COMMON RELIEF AIR LOUVER AND MOTORIZED DAMPER. EACH FAN COIL UNIT SHALL ENTER OCCUPIED MODE OR UNOCCUPIED MODE UPON SIGNAL FROM THE ASSOCIATED LOCAL AREA CONTROLLER. THE LOCAL AREA CONTROLLER SHALL BE CONFIGURED SO THAT BOTH FCUs FOLLOW THE SAME OCCUPIED/UNOCCUPIED SCHEDULE AT ALL TIMES.
- UNOCCUPIED MODE:
 - WHEN THE FCU ENTERS UNOCCUPIED MODE THE SUPPLY FAN SHALL BE OFF, COOLING SHALL BE DISABLED, AND HEATING CONTROL VALVE SHALL CLOSE.
 - SPACE TEMPERATURE SHALL BE SETBACK AND MAINTAINED BELOW A 5F (ADJ.) OFFSET TO OCCUPIED MODE COOLING SETPOINT AND ABOVE A 10F (ADJ.) OFFSET TO OCCUPIED MODE HEATING SETPOINT.
 - WHEN COOLING IS REQUIRED IN THE SPACE, THE SUPPLY FAN SHALL CYCLE ON AND COOLING SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.
 - WHEN HEATING IS REQUIRED IN THE SPACE, THE SUPPLY FAN SHALL CYCLE ON AND HEATING SHALL MODULATE TO FULL.
 - UPON SPACE TEMPERATURE REACHING UNOCCUPIED MODE SETPOINT, UNIT SHALL CYCLE OFF.
- FAN SAFETY CONTROLS:
 - DE-ENERGIZE THE SUPPLY FAN WHENEVER THE OVERFLOW SENSOR HAS TRIPPED. MANUAL RESET REQUIRED.
- HEATING CONTROL:
 - BASEBOARD HEATING SHALL ACT AS THE FIRST STAGE OF HEATING CONTROL. REFER TO BASEBOARD CONTROL DIAGRAM.
 - THE FCU HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE TO NO LOWER THAN 70F WHEN IN HEATING MODE. ONCE BASEBOARD CONTROL VALVES HAVE FULLY OPENED, FCU HEATING CONTROL VALVE SHALL ACT AS SECOND STAGE HEATING AND SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT. HEATING CONTROL VALVE SHALL CLOSE IF THE FANS ARE OFF.
- COOLING CONTROL:
 - THE COOLING SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. COOLING SHALL BE DISABLED IF THE FANS ARE OFF.



BUILDING A HYDRONIC FIN TUBE CONTROL

NONE

- BASEBOARD HEATING SHALL ACT AS FIRST STAGE HEATING. REFER TO FAN COIL UNIT SEQUENCE. 2-WAY MODULATING CONTROL VALVE SHALL OPEN TO MAINTAIN SPACE TEMPERATURE HEATING SETPOINT.

Seal / Signature



Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

MECHANICAL CONTROLS

Scale

1/8" = 1'-0"

2B-M0.002

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS, TRANSITIONS, ELBOWS, ETC. AS REQUIRED IN DUCTWORK, PIPING, SUPPORTS, ETC. TO COMPLETE THE WORK IN A CLEAN, FUNCTIONAL INSTALLATION THAT IS FULLY COORDINATED WITH ALL OTHER TRADES. ANY PRICING EFFORT SHALL TAKE THESE FACTORS INTO ACCOUNT.
2. MAINTAIN CODE REQUIRED AREA OF SEPARATION FROM OUTSIDE AIR INTAKES TO TERMINATIONS OF EXHAUST, COMBUSTION AIR, PLUMBING VENTS, ETC.
3. PROVIDE MANUAL BALANCE DAMPERS IN ALL SUPPLY DUCT BRANCH TAPS DOWNSTREAM OF DOWNSTREAM OF VENTILATION FAN.
4. PROVIDE MANUAL BALANCE DAMPERS IN ALL SUPPLY DUCT BRANCH TAPS DOWNSTREAM OF FAN UNITS.
5. PROVIDE MANUAL BALANCE DAMPERS IN ALL EXHAUST DUCT BRANCH TAPS.
6. COORDINATE SPACE TEMPERATURE SENSORS AND THERMOSTAT LOCATIONS TO ALIGN VERTICALLY WITH LIGHT SWITCHES.
7. PROVIDE THROUGH FACE BALANCING FOR ALL DIFFUSERS, REGISTERS, AND GRILLES ABOVE INACCESSIBLE AREAS.
8. INSTALL EXPOSED DUCTWORK AS HIGH AS POSSIBLE.
9. TEMPERATURE CONTROLS CONTRACTOR SHALL SUBMIT PLANS INDICATING ALL SPACE TEMPERATURE SENSORS, T-STATS, ETC. AS PART OF SUBMITTAL PROCESS FOR A/E REVIEW PRIOR TO ROUGH-IN.
10. ALL DUCT/PIPE PENETRATIONS THROUGH FIRE RATED/SMOKE RATED PARTITIONS SHALL BE CAULKED AND SEALED TO MEET THE RATING REQUIRED. REFER TO LIFE SAFETY DRAWINGS FOR FIRE/SMOKE RATING REQUIREMENTS.
11. PROVIDE TURNING VANES IN ALL 90 DEGREE DUCT ELBOWS.
12. PROVIDE ISOLATION VALVES AT EACH BRANCH LINE OFF OF MAINS.
13. PROVIDE 3/4" BRANCH PIPING TO ALL TERMIALN UNITS, UNLESS NOTED OTHERWISE.
14. PROVIDE CONDENSATE DRAIN FROM ALL DX EVAPORATOR COILS TO NEAREST MOP SINK, FLOOR DRAIN, OR APPROVED INDRECT CONNECTION POINT. PROVIDE CONDENSATE PUMP FOR ALL COOLING UNITS THAT CANNOT BE DRAINED BY GRAVITY TO TERMINATION LOCATION.

KEYNOTES

M2	REMOVE (E) BASEBOARD AND MODIFY (E) PIPING AS REQUIRED TO SERVE (N) BASEBOARD.
M3	REMOVE (E) FAN COIL AND ASSOCIATED SHEET METAL, DIFFUSERS, AND BRANCH PIPING.
M6	DISCONNECT AND DECOMMISSION EXISTING GAS FIREPLACE. REMOVE GAS PIPING BACK TO NEAREST MAIN AND CAP. REMOVE FIREPLACE BURNER AND PREPARE FIREPLACE FOR INTILL.

Date Description

- 1 05/20/2022 ISSUE FOR CONSTRUCTION
- 2 06/27/2022 BULLETIN 1

Seal / Signature



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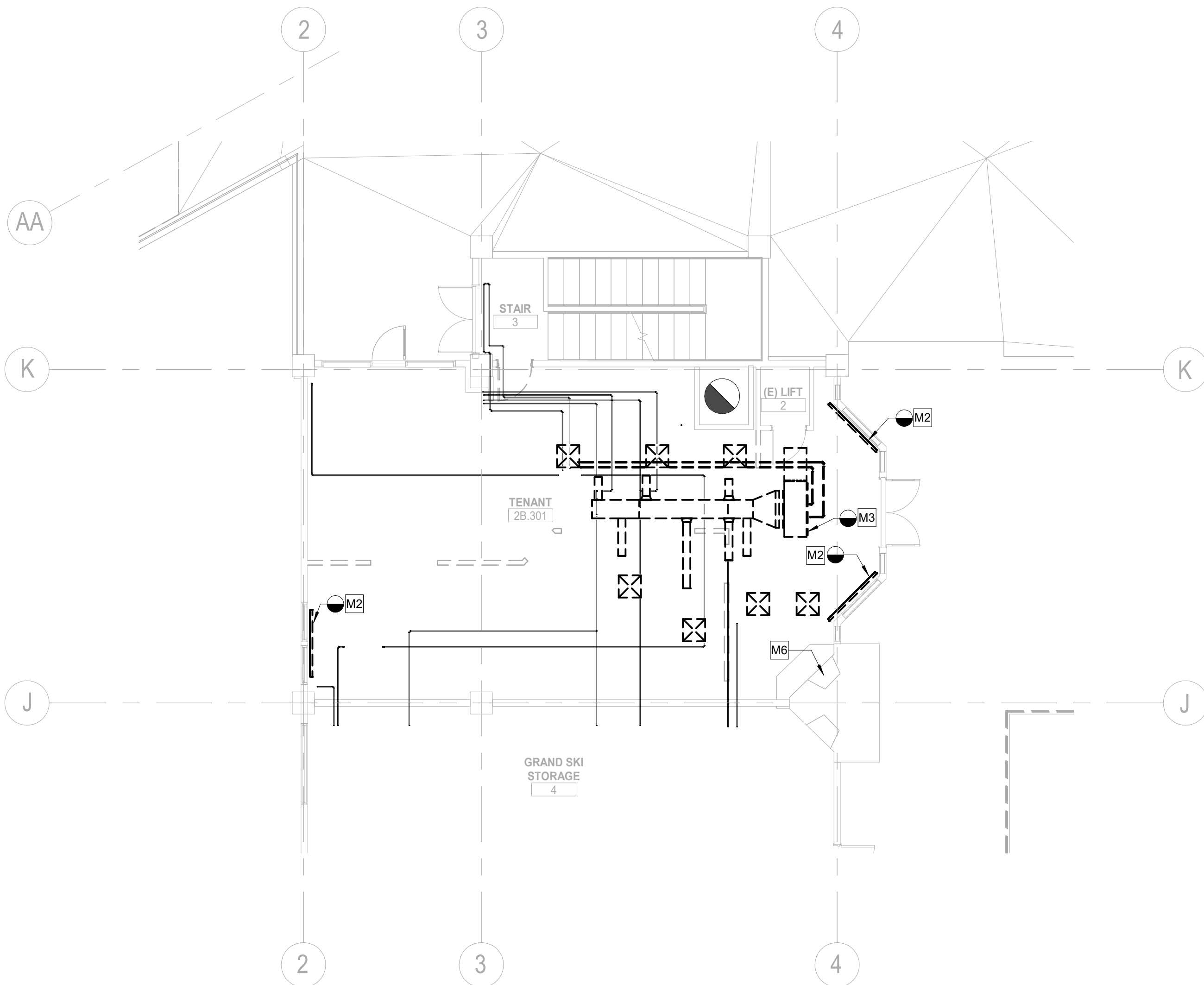
Description

MECHANICAL PLAN - LEVEL 02

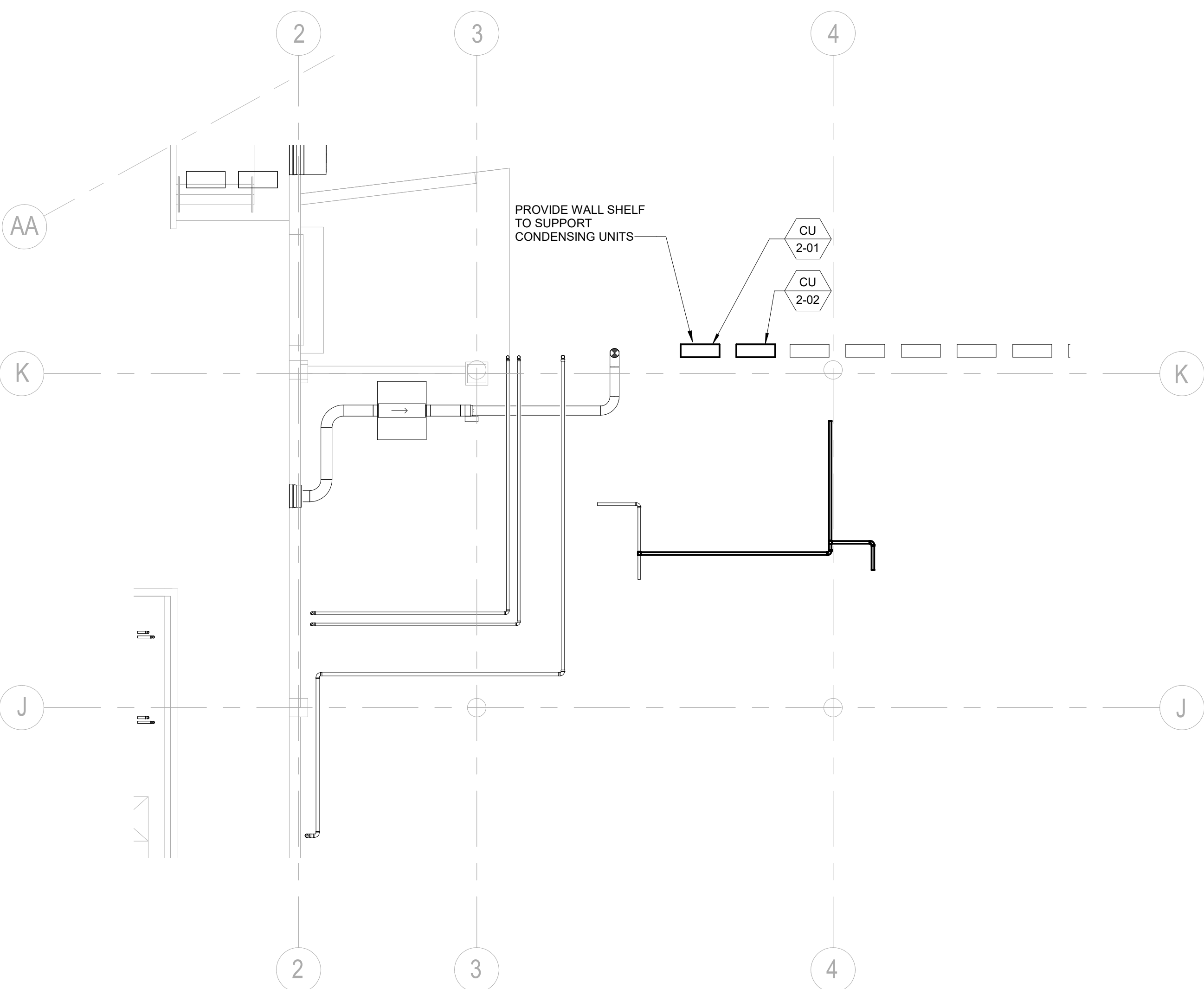
Scale

1/8" = 1'-0"

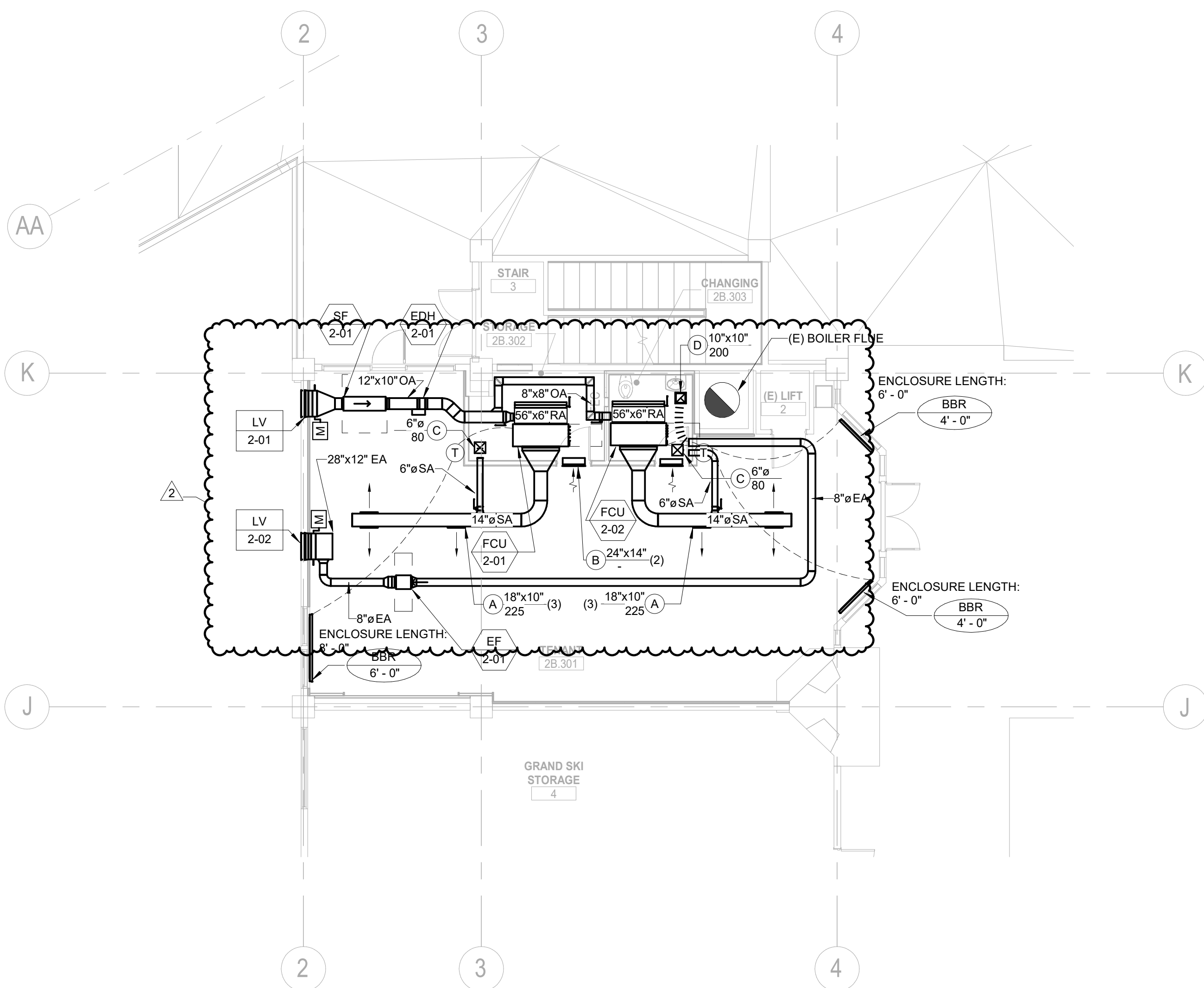
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1 MECHANICAL DEMOLITION PLAN - LEVEL 02
SCALE: 1/8" = 1'-0"

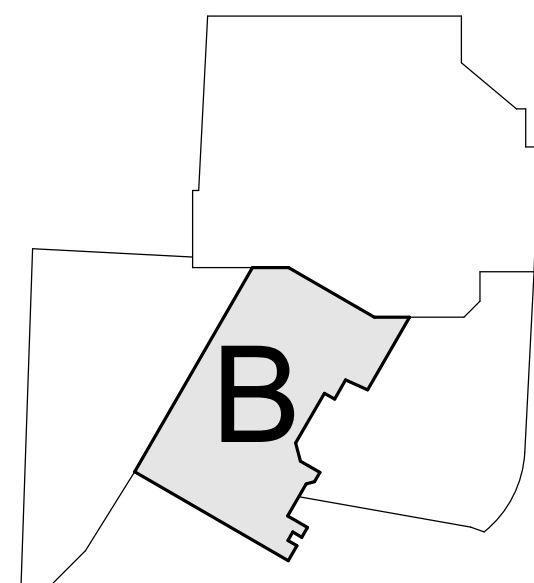


3 MECHANICAL PLAN - PARKING GARAGE
SCALE: 1/8" = 1'-0"



2 MECHANICAL PLAN - LEVEL 02
SCALE: 1/8" = 1'-0"

KEY PLAN



FAN COIL SCHEDULE (HYDRONIC/DX)																																											
CODE (FCU)	MANUFACTURER/ MODEL NO.	AREA SERVED	CFM	FAN		DX COOLING COIL					HYDRONIC HEATING COIL					ELECTRICAL							REMARKS	CONDENSING UNIT CODE	MANUFACTURER / MODEL NO.	CAPACITY (MBH)	ELECTRICAL - CONDENSING UNIT							REMARKS									
				OA CFM	ESP (IN.)	EAT (°F) DB	LAT WB	TOTAL (°F) MBH	SENS MBH	EAT (°F)	LAT (°F)	MBH	GPM	WPD (FT)	HP	VOLT	PH	MCA	FUSE	DISCON.	FEEDER	VOLT					PH	MCA	FUSE	DISCON.	FEEDER	E-POWER											
2-01	TRANE FCCB080	BUILDING A RETAIL - ZA	757	200	0.25	80.0	61.0	56.3	19.66	19.52	51.6	75.1	20.47	1.6	0.94	0.220	208/120	1	2.25	15A	30A/3P	(3#12,#12G) 3/4"C	A	CU 0-01	TRANE 4TRR4025L1000B	25.00	208	1	14	20A FRS-R	30A/3P	(3#12, #12G) 3/4"C	N										
2-02	TRANE FCCB080	BUILDING A RETAIL - ZB	757	175	0.25	80.0	61.0	56.3	19.66	19.52	51.6	75.1	20.47	1.6	0.94	0.220	208/120	1	2.25	15A	30A/3P	(3#12,#12G) 3/4"C	A	CU 0-02	TRANE 4TRR4025L1000B	25.00	208	1	14	20A FRS-R	30A/3P	(3#12, #12G) 3/4"C	N										
<div>GENERAL NOTES: 1. HEATING WATER: EWT = 150°F, LWT = 130°F, 30% PROPYLENE GLYCOL. 2. PROVIDE 1" MERV 8 FILTERS. 3. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOBSITE ELEVATION. JOB SITE ELEVATION = 6700 FT. 4. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13. 5. OUTSIDE AIR CONDITIONS: SUMMER: 86F DB / 56.2F WB WINTER: -10F</div> <div>REMARKS: A. PROVIDE ENCLOSURE WITH REAR RETURN AND FRONT DISCHARGE.</div>																																		<div>GENERAL NOTES: 1. AMBIENT AIR TEMPERATURE = 95°F. 2. PROVIDE MANUFACTURER'S REQUIRED MINIMUM CLEARANCE AROUND UNIT. 3. MOUNT CONDENSING UNITS ON WALL SHELF IN PARKING GARAGE SPACE. PROVIDE NEOPRENE PAD ISOLATORS BELOW EACH CONDENSING UNIT. 4. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCE REQUIREMENTS.</div>									

BASEBOARD RADIATION SCHEDULE (HYDRONIC)				
CODE	MANUFACTURER/ MODEL NO.	CAPACITY (BTU/H·F)	GPM/FT	ROWS
BBR	SIGMA / SWE-06T	350	0.1	1
GENERAL NOTES: 1. EWT= 150 °F, LWT= 130 °F, 30% PROPYLENE GLYCOL. 2. REFER TO PLANS FOR ACTIVE FINNED LENGTH. MINIMUM FLOW FOR CIRCUIT IS 1 GPM. 3. PROVIDE WALL TO WALL ENCLOSURE UNLESS OTHERWISE NOTED. 4. ENCLOSURE COLOR SELECTED BY ARCHITECT. 5. TUBE MATERIAL IS COPPER, FIN MATERIAL ALUMINUM UNLESS OTHERWISE NOTED. 6. PROVIDE EACH NEW SECTION OF BASEBOARD WITH A NEW 2-WAY CONTROL VALVE. MULTIPLE SECTIONS ON THE SAME EXPOSURE MAY USE A COMMON CONTROL VALVE. RE: CONTROL DIAGRAMS.				

ELECTRIC DUCT HEATER																	
CODE (EDH)	AREA SERVED	MANUFACTURER/ MODEL NO.	OSA CFM	HEATING COIL										INLET SIZE	OUTLET SIZE	REMARKS	
				EAT	LAT	KW	CONTROL	V	PH	FLA	ELECTRICAL		FEEDER				
2-01	BLDG A RETAIL	INDEECO QUZ	400	-10.0	50.0	5.9	SCR	208	3	16	30A/3P	20A FRN-R	(3#10, #10G) 3/4"		12 X 10	12 X 10	A,B
<u>GENERAL NOTES</u> 1. MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING ALL UL LISTING REQUIREMENTS. 2. HEATING COIL DISCHARGE TEMPERATURES SHALL NOT EXCEED 100F. 3. JOBSITE ELEVATION = 6700 FT.																	
<u>REMARK NOTES</u> A. PROVIDE LINE VOLTAGE DUCT MOUNTED THERMOSTAT DOWNSTREAM OF HEATER. CONTROL TO 50F LEAVING AIR TEMP. B. INTERLOCK HEATER WITH VENTILATION FAN SERVING SAME AREA.																	

ENVIRONMENTAL FAN SCHEDULE																		
CODE	MANUFACTURER/ MODEL NO.	AREA SERVED	LOCATION	TYPE	CFM	ESP "W.C. (ALT.)	DRIVE	ELECTRICAL						MTG	CTRL	WEIGHT (LBS)	REMARKS	
								HP/W	VOLT	PH	FLA	DISC.	FUSE					FEEDER
SF-2-01	GREENHECK/SO-90-VG	BLDG A RETAIL	CEILING	INLINE - OA	400	0.25	EC(D)	1/10	120	1	3.1		T.O.\$	(2#12, 1#12G) 3/4"	1	I	100	A,B,C
EF-2-02	GREENHECK/SO-90-VG	BLDG A RETAIL	CEILING	INLINE - EA	200	0.25	EC(D)	1/10	120	1	1.5		T.O.\$	(2#12, 1#12G) 3/4"	1	I	70	C
<div>GENERAL NOTES:</div> <div>1. DRIVE TYPE: EC(D) = DIRECT DRIVE WITH ELECTRONICALLY COMMUTATED FAN MOTOR AND LOCAL SPEED ADJUSTMENT.</div> <div>2. SCHEDULED FAN VALUES (CFM, SP AND HP) ARE ACTUAL AT ALTITUDE. MOTOR HP HAS BEEN ADJUSTED FROM SEA LEVEL CONDITIONS FOR OPERATION AT JOB SITE ELEVATION. JOB SITE ELEVATION = 6,700 FT.</div> <div>MOUNTING (MTG):</div> <div>1. INSTALL FAN WITH FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET. PROVIDE RUBBER GROMMET VIBRATION ISOLATION HANGERS.</div> <div>CONTROL (CTRL):</div> <div>I. FAN SHALL BE INTERLOCKED WITH FAN COILS SERVING SAME AREA. FAN SHALL OPERATE IN OCCUPIED MODE ONLY. INTERLOCK FAN WITH MOTORIZED DAMPER AT PERIMETER LOUVER.</div> <div>REMARK NOTES:</div> <div>A. PROVIDE MOTORIZED DAMPER AT PERIMETER LOUVER.</div> <div>B. PROVIDE INTEGRAL ANGLED FILTER HOUSING WITH 2" MERV 8 FILTERS.</div> <div>C. PROVIDE INSULATED FAN HOUSING.</div>																		

MECHANICAL LOUVER SCHEDULE							
CODE (LV)	MANUFACTURE/MODEL NUMBER	SERVICE	AIRFLOW	VELOCITY	GROSS DIMENSIONS H x W	MINIMUM FREE AREA (SF)	REMARKS
2-01	RUSKIN ELF6375DX	OA INTAKE	400	500	12" x 28"	0.8	A,B
2-02	RUSKIN ELF6375DX	OA RELIEF	400	500	12" x 28"	0.8	A,B
GENERAL NOTES 1. LOUVERS SCHEDULED HERE ARE CONNECTED TO MECHANICAL SYSTEMS. REMARK NOTES A. PROVIDE INSULATED PLENUM. SLOPE BASE OF PLENUM TO DRAIN WATER OUT THROUGH LOUVER FACE. RE: MECHANICAL DETAILS. B. PROVIDE BIRD SCREEN.							

GRILLE REGISTER DIFFUSER SCHEDULE						
CODE	MANUFACTURER/ MODEL NO.	SERVICE	TYPE	ACCESSORIES	FACE SIZE	REMARKS
A	PRICE / SDGE	SUPPLY	SPIRAL MOUNT	AIR SCOOP	SEE PLANS	
B	PRICE / 530	RETURN	LOUVERED		SEE PLANS	
C	PRICE / 510Z	SUPPLY	DIFFUSER		SEE PLANS	
D	PRICE / 510Z	EXHAUST	LOUVERED		SEE PLANS	
GENERAL NOTES: 1. SEE PLANS FOR CFM AND NECK SIZE. 2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED. 3. COLOR TO BE COORDINATED WITH ARCHITECT. 4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED.						



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Date	Description
05/20/2022	ISSUE FOR CONSTRUCTION
06/27/2022	BULLETIN 1

Seal / Signature



Project Name

Steamboat Base Village
Redevelopment

Project Number

003.7835.000

Description

MECHANICAL SCHEDULES

Scale