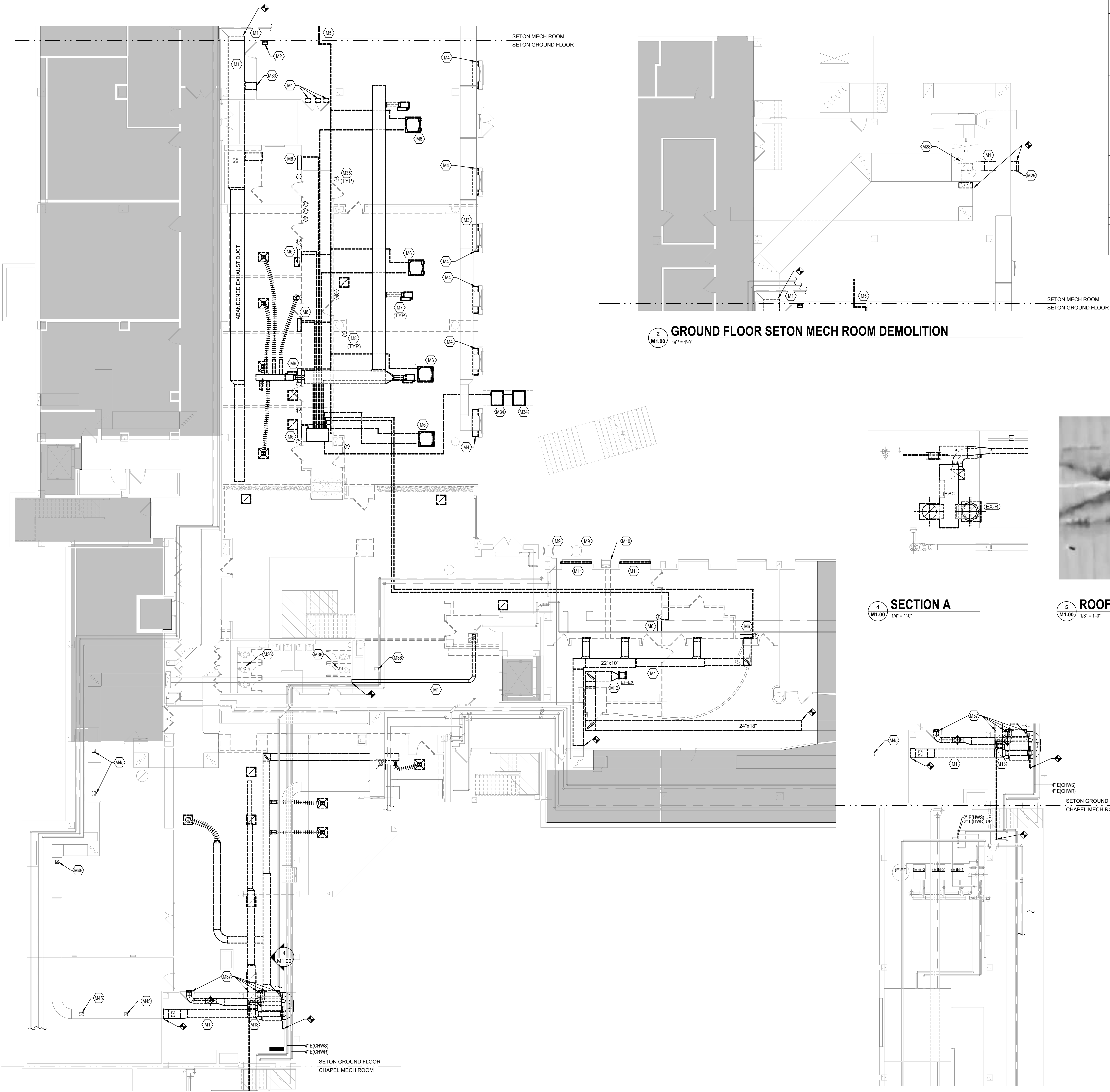




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1 **GROUND FLOOR MECHANICAL DEMOLITION**  
M1.00 1/8" = 1'-0"

2 **GROUND FLOOR SETON MECH ROOM DEMOLITION**  
M1.00 1/8" = 1'-0"

4 **SECTION A**  
M1.00 1/4" = 1'-0"

5 **ROOF (LV6) MECHANICAL DEMOLITION PLAN**  
M1.00 1/8" = 1'-0"

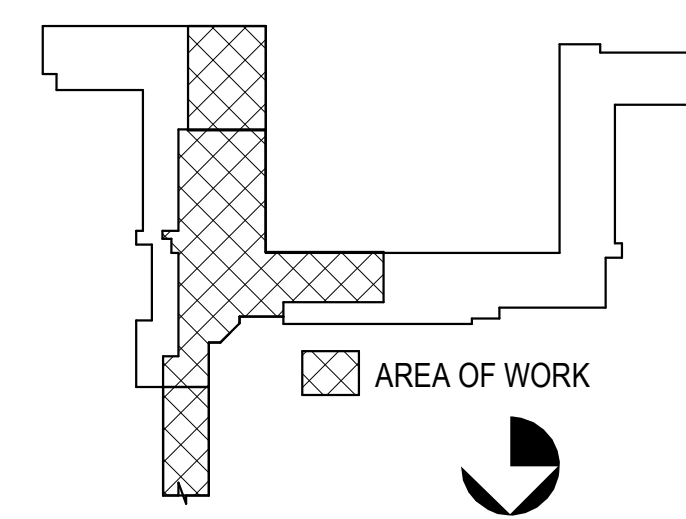
3 **GROUND FLOOR CHAPEL MECH ROOM DEMOLITION**  
M1.00 1/8" = 1'-0"

**TAGGED NOTES**

- M1 REMOVE DUCTWORK, AIR DEVICES, HANGERS, AND ASSOCIATED ITEMS BACK TO POINT OF DEMOLITION. CAP AND INSULATE SUPPLY DUCTWORK AIRTIGHT. PATCH WALLS TO MATCH SURROUNDING FINISHES WHERE WALLS ARE TO REMAIN.
- M2 REMOVE EXISTING VRF CONTROL PANEL AND WIRING. NEW CONTROL PANEL TO GO IN THIS SAME LOCATION.
- M3 EXISTING RETURN DUCTWORK SHALL REMAIN AND BE PROTECTED FROM DAMAGE. THE RETURN DUCTWORK SERVES AN EXISTING SYSTEM TO REMAIN.
- M4 REMOVE EXISTING UNIT VENTILATOR IN ITS ENTIRETY. REMOVE HOT, CHILLED WATER, AND CONDENSATE PIPING BACK TO THEIR SOURCE. PROVIDE 4" INSULATED PANEL TO CAP LOUVER AIRTIGHT REFER TO ARCHITECTURAL PLANS FOR PATCHING AND REPAIR OF SURFACE FINISHES.
- M5 REMOVE CONDENSATE LINE IN ITS ENTIRETY. PATCH WALL OPENINGS TO MATCH SURROUNDING SURFACES. COORDINATE WITH ARCHITECTURAL PLANS.
- M6 REMOVE VRF SYSTEM INCLUDING BUT NOT LIMITED TO: CASSETTES, WALL MOUNTED UNITS, CONDENSING UNIT, CONTROLS, REFRIGERANT PIPING, AND BRANCH.
- M7 REMOVE ABANDONED SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO: HANGERS, DUCTWORK, INSULATION, VAV BOXES, CONTROLS, AND AIR DEVICES.
- M8 REMOVE PNEUMATIC THERMOSTATS THROUGHOUT THE PROJECT SCOPE OF WORK. REMOVE TUBING AS FAR BACK TO MAIN AS POSSIBLE AND PLUG AIRTIGHT. PNEUMATIC SYSTEM IS TO REMAIN FUNCTIONAL IN OTHER PARTS OF THE BUILDING.
- M9 EXISTING CONDENSING UNITS AND REFRIGERANT PIPING TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- M10 LOUVER DOWN TO TUNNEL EXISTING TO REMAIN.
- M11 REMOVE FINITUBE HEATING UNDER WINDOWS AND BRANCH PIPING BACK TO MAIN LOCATED IN TUNNEL BELOW. CAP PIPE WATER TIGHT AND INSULATE. PATCH FLOOR AND WALLS TO MATCH SURROUNDING FINISHES. COORDINATE WITH ARCHITECTURAL PLANS.

**TAGGED NOTES**

- M12 REMOVE FAN, ASSOCIATED DUCTWORK, HANGERS, AND ASSOCIATED ITEMS BACK TO POINT OF DEMOLITION.
- M13 REMOVE WATER SOURCE HEAT PUMP IN ITS ENTIRETY, INCLUDING ASSOCIATED DUCTWORK, CHILLED WATER PIPING, AND INSULATION. CAP AND INSULATE PIPING AT MAINS.
- M25 REMOVE EXISTING LOUVER. PROVIDE NEW LOUVER PER NEW WORK PLANS.
- M28 REMOVE UTILITY SET EXHAUST FAN. REMOVE DUCTWORK BACK AS FAR AS ACCESSIBLE.
- M33 PATCH WALL WHERE DUCTWORK AND AIR DEVICE ARE REMOVED. MATCH SURROUNDING FINISHES. COORDINATE WITH ARCHITECTURAL PLANS.
- M34 REMOVE CONDENSING UNITS, REFRIGERANT PIPING, CONTROLS, DISCONNECT POWER, AND PATCH WALLS TO MATCH SURROUNDING FINISHES.
- M35 REMOVE DDC THERMOSTATS, WIRING, AND WIRING SUPPORTS THROUGHOUT THE PROJECT SCOPE OF WORK. WHERE WALLS ARE TO REMAIN PATCH THE WALL TO MATCH SURROUNDING FINISHES. REFER TO ARCHITECTURAL PLANS.
- M36 REMOVE EXHAUST DUCT AND PROVIDE NEW IN NEW WORK PHASE. PROVIDE AIR BALANCE REPORT OF EXISTING RESTROOM EXHAUST AIR PRIOR TO REMOVAL OF GRILLES.
- M37 FILL AND PATCH WALL OPENINGS TO MATCH SURROUNDING FINISHES WHERE NOT USED IN NEW WORK. RETURN AIR DUCT IS LOW IN WALL.
- M45 REMOVE AIR GRILLE AND CAP DUCT AIR TIGHT. PATCH AND PAINT CEILING TO MATCH EXISTING FINISH SURFACES.
- M47 REMOVE EXISTING EXHAUST FAN. DISCONNECT POWER AND USE SPACE FOR NEW WORK.
- M49 TAKE PRE-BALANCE OF EXISTING EXHAUST FAN SERVING RESTROOMS PRIOR TO STARTING NEW WORK. SUBMIT TO ENGINEER FOR REVIEW.



KEY PLAN - GROUND FLOOR

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1	10/24/25	CD Set
1	11/14/2025	ADDENDUM 03

PROJECT NO. 24167.00  
DRAWING TITLE:  
GROUND FLOOR  
MECHANICAL  
DEMOLITION

**M1.00**















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NO.	DATE	ISSUED / REVISION
	10/24/25	CD Set
1	11/14/25	ADDENDUM 03

PROJECT NO. 24167.00

DRAWING TITLE:  
**MECHANICAL SCHEMATICS AND CONTROLS**

**M6.00**

**Sequence of Operations: AHU-1**  
Variable air volume supply fan, remote relief fan, DX coil, remote condensing unit, hot water coil, outside/economizer and return air damper.

**Building Automation System Interface:**  
The system shall operate under the control of a local, microprocessor based DDC panel controller for complete integration of all unit functions including temperature control, scheduling, monitoring, unit safety preception, including compressor minimum run and minimum off times, and diagnostics. The DDC controller shall be provided by the factory. This system shall consist of all required temperature sensors, pressure sensors, controller and keypad/display operator interface. All MCVS and sensors shall be factory mounted, wired, and tested. If communication is lost between the network control panel and the outside air system controller, then the outside air system shall be placed into the occupied mode unit communication is restored. The DDC controller shall have a built-in time schedule. The schedule shall be programmable from the unit keypad interface. The schedule shall be maintained in nonvolatile memory to ensure that it is not lost during a power failure. There shall be one start/stop per day and a separate holiday schedule. The controller shall accept up to sixteen holidays each with up to a 5-day duration. Each unit shall also have the ability to accept a time schedule via BAS network communications.

**Unit controls:**

- Head pressure control: the condenser head pressure will be monitored by the unit controller to maintain head pressure and the compressor operating envelope at all times to avoid high pressure trips on high load days. Condenser fans with ECM motors shall be provided as well as factory sensors to provide this protection.
- Compressor envelope control: the unit controller will continually monitor the suction and discharge pressure and temperature conditions during compressor operation. The unit will modulate the compressor, condenser, head pressure, and electronic expansion valve to maintain a safe compressor operating conditions to add reliability, an limit unit shut down during fringe operating conditions.

**Fan Control:**  
The supply air fans are ECM with modulating control from 0-10v. The TCC shall individually optimize the required setpoints to obtain the design airflow in conjunction with the TAB Contractor and the Mechanical Engineer. In order to achieve energy savings the TCC shall determine the diffuser with the greatest duct static pressure and set the fan to run to meet the CFM at this diffuser +5%. Once this has been determined and the fan is set to run at an optimized speed the remaining diffusers shall be balanced.

**Occupied Mode:**

- Outside air damper shall open to scheduled minimum airflow and be proved via end switch.
- Return air damper shall open and be proved via end switch.
- Supply fan control: Will be a fixed speed while the building is in an occupied mode. Variable speed ECM motor shall be provided for balancing.
- Cooling Mode: The unit shall cycle the compressors per the factory control sequence to cool the supply air and maintain the space temperature setpoint.
- Heating Mode: The unit shall modulate the hot water coil valve to maintain space point. The discharge air temperature should not exceed 90°F (adj.).
- Dehumidification mode: If space humidity is 53% (adj.) or higher the unit will go into dehumidification mode. The DX cooling coil will modulate to maintain a leaving coil temperature of 52°F (adj.) and the hot water coil will modulate to maintain a leaving unit temperature to satisfy the space set point. The unit will remain in this mode until the humidity level reaches 48% (adj.).

**Economizer:**

- When the outdoor air enthalpy (as calculated from temperature and relative humidity) is lower than space enthalpy (as calculated from temperature and relative humidity) the outdoor air and return air dampers shall modulate to maintain the space temperature setpoint.

**Relief Fan:**

- Locate the fan on the 7th floor roof.
- The system includes a blower fan with VFD and backdraft damper.
- The fan shall run to maintain building pressure setpoint +0.03" (adj.).
- Provide graphics on the BAS to include floor plan, fan location, and points.

**Unoccupied:**  
During unoccupied periods, the outside air dampers will close. The heating, cooling and supply fan will be off unless there is a call for heating or cooling at unoccupied setpoints.

**Optimal Start:**  
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

**Morning Warm-Up Mode:**  
During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated, the unit shall enable the heating and supply fan. When the space temperature reaches the occupied heating setpoint (adj.) the unit shall transition to the occupied mode.

**Pre-Cool Mode:**  
During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool shall be activated. When pre-cool is initiated, the unit shall enable the fan and cooling. When the space temperature reaches occupied cooling setpoint (adj.) the unit shall transition to the occupied mode.

**Unit Safeties:**  
Safeties shall include:

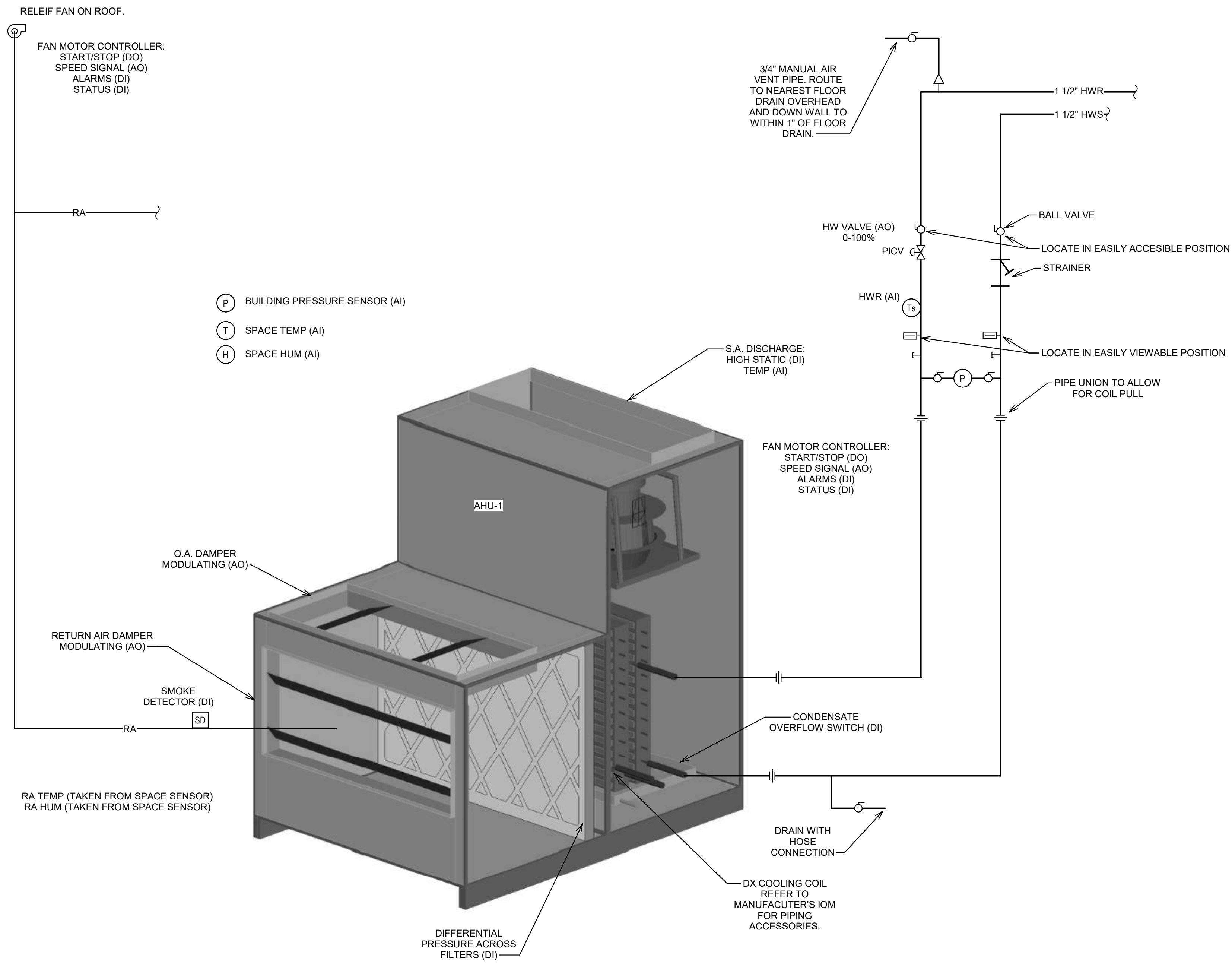
- Freeze protection: if the supply air temperature drops below 40°F (adj.) for 300sec. (adj.) the unit shall shut off, the hot water valve shall fully open, and an alarm shall be sent to the BAS.
- Over pressurization control: a high limit static pressure sensor shall be located at the units supply air outlet. If the pressure in the supply duct exceeds 2" w.g. (adj.) in the supply air duct the fan shall be de-activated. Upon correction of the problem, the system shall be reset and unit shall return to normal operation.
- If the condensate level reaches the trip point, a condensate overflow diagnostic shall annunciate at the BAS. To prevent the condensate drain pan from overflowing and causing water damage to the building the fan shall be disabled and the compressors shall be de-energized.

**Filter Status:**  
A differential air pressure sensor shall be installed across the filter banks. When the differential pressure exceeds 1.0"wg (adj.), then an alarm shall be generated at the BAS indicating filter changing is necessary. Set exact alarm setting per the filter manufacturer's recommendations.

**Space Set Points:**  
Occupied Hours (adj. by owner): 7:00am - 9:00pm  
Occupied Cooling - 72°F (adj.) and 60% (adj.) relative humidity  
Occupied Heating - 70°F (adj.)  
Unoccupied Cooling - 78°F (adj.)  
Unoccupied Heating - 64°F (adj.)

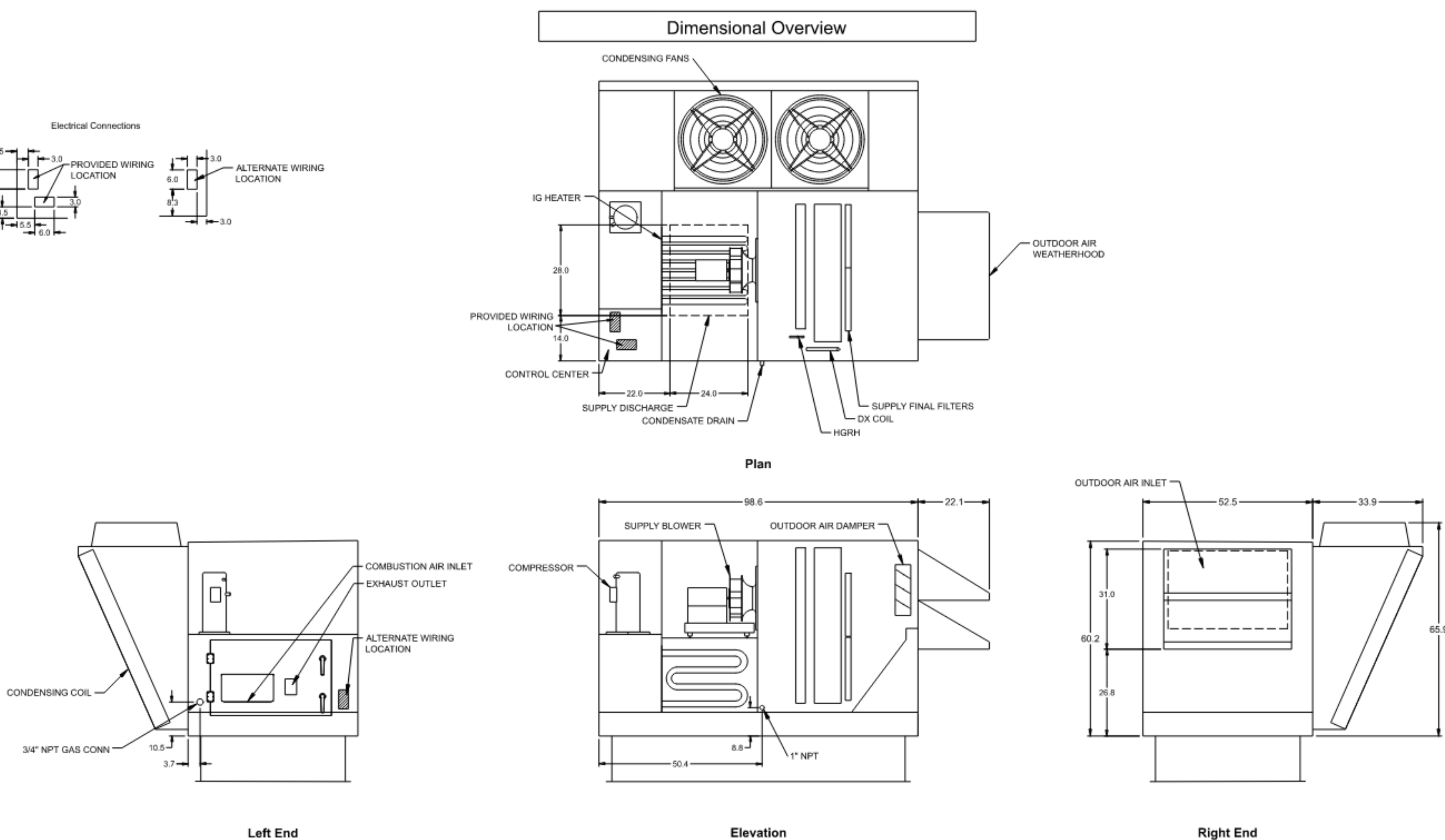
**Points List:**  
Provide protocol implementation conformance statement (PICS) for factory installed controllers. Submittals shall include point name, BACnet name, BACnet object ID and description. The controller shall be factory programmed with a minimum of the following points listed and shown:

- Alarms
  - High supply duct static alarm
  - Condensate drain pan alarm
  - Compressor command
  - Refrigerant circuit pressure alarm
  - Dirty filter alarm
  - Fan status does not match command



**AHU-1 SCHEMATIC AND CONTROLS**  
M6.00 NOT TO SCALE

**Overview Drawings**



**DOAS-1 SCHEMATIC AND CONTROLS**  
M6.00 NOT TO SCALE

**Sequence of Operations: AIR SOURCE VRV SYSTEM**

**1. VRV CONTROL**

- The VRV manufacturer shall provide intelligent Touch Manager with BACnet server gateway for the system. The packaged controls system shall be capable of controlling all terminal units and condensing units. On a call for heating or cooling from the packaged unit controller the units shall stage on and modulate accordingly.
- The manufacturer's packaged controls shall interface with the BAS and the TCC shall provide graphics of the VRV system to be viewed on the BAS. Provide floor plan with unit locations, setpoints, actual room temps.

**C. Space Set Points:**

- Occupied Hours (adj. by owner): 7:00am - 9:00pm
- Occupied Cooling - 72°F (adj.) and 60% (adj.) relative humidity
- Occupied Heating - 70°F (adj.)
- Unoccupied Cooling - 78°F (adj.)
- Unoccupied Heating - 64°F (adj.)

**VRV CONTROLS**  
M6.00 NOT TO SCALE

**Sequence of Operations: EXHAUST FAN**

**1. EF CONTROL**

- The system includes an ECM inline fan and backdraft damper.
- The exhaust fan shall run continuously.

**C. Points:**

- Fan start/stop (DO)
- Fan status (DI)
- Fan speed (AO)

**D. Alarm if the fan status does not match the command status.**

**E. Provide graphics on the BAS to include, floor plan, fan location, and points.**

**EF CONTROLS**  
M6.00 NOT TO SCALE

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DOAS OUTSIDE AIR CALCULATIONS											
ROOM #	NAME	ASHRAE 62.1 SPACE TYPE	AREA (SF.)	PEOPLE	CFM/SF.	CFM/PERSON	Ez	OA REQUIRED (CFM)	SYSTEM % OA	SA TO ROOM (CFM)	ACTUAL OA (CFM)
2	PRIVATE OFFICE	OFFICE SPACE	90	1	0.06	5	1	10	100%	15	15
3	PRIVATE OFFICE	OFFICE SPACE	90	1	0.06	5	1	10	100%	15	15
5	BREAK	BREAK ROOM	105	5	0.12	5	1	39	100%	45	45
6	OPEN OFFICE	OFFICE SPACE	485	7	0.06	5	1	64	100%	75	75
7	Huddle Room	CONFERENCE/MEETING	60	2	0.06	5	1	14	100%	15	15
8	Huddle Room	CONFERENCE/MEETING	100	4	0.06	5	1	26	100%	30	30
9	RESOURCE ROOM	CONFERENCE/MEETING	140	5	0.06	5	1	33	100%	40	40
10	CONFERENCE	CONFERENCE/MEETING	180	6	0.06	5	1	41	100%	45	45
11	CONFERENCE	CONFERENCE/MEETING	125	5	0.06	5	1	33	100%	45	45
13	CORRIDOR	CORRIDORS	330	0	0.06	5	1	20	100%	75	75
14	LOWER LOUNGE	MULTIPURPOSE ASSEMBLY	2335	60	0.06	5	1	440	100%	465	465
15	UPPER LOUNGE	MULTIPURPOSE ASSEMBLY	1955	40	0.06	5	1	311	100%	330	330
19	OFFICE STORAGE	OFFICE SPACE	370	2	0.06	5	1	31	100%	35	35
20	ROAR STORE	SALES	965	14	0.12	7.5	1	224	100%	250	250

AHU OUTSIDE AIR CALCULATIONS											
ROOM #	NAME	ASHRAE 62.1 SPACE TYPE	AREA (SF.)	PEOPLE	CFM/SF.	CFM/PERSON	Ez	OA REQUIRED (CFM)	SYSTEM % OA	SA TO ROOM (CFM)	ACTUAL OA (CFM)
21	GRAB AND GO	COFFEE STATION	475	4	0.12	5	0.8	96	20%	1100	220
22	STORAGE	OCCUPIABLE STORAGE	80	1	0.06	5	0.8	12	20%	75	15
23	GAME ROOM	MULTIPURPOSE ASSEMBLY	1355	35	0.06	5	0.8	320	20%	1600	320
	ARCHIVES	OCCUPIABLE STORAGE	1021	1	0.06	5	0.8	83	20%	425	85
	POLICE STORAGE	OCCUPIABLE STORAGE	630	1	0.06	5	0.8	54	20%	300	60

HEAT RECOVERY UNIT SCHEDULE																
MARK	MANUFACTURER	MODEL	DIMENSIONS (IN.)			WEIGHT (LBS)	REFRIGERANT TYPE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	EER	ELECTRICAL					REMARKS
			LENGTH	WIDTH	HEIGHT						VOLTAGE	PHASE	HZ	MCA	MOP	
CU-VRV	DAIKIN	REY4216AAT1A	69	30	65	1010	R-32	176	139	NA	208	3	60	80	5	ALL

- REMARKS:
- PROVIDE WITH R-32 REFRIGERANT. SIZE LINES PER MANUFACTURER'S INSTRUCTIONS. SUBMIT DETAILED PIPING SCHEMATIC WITH SHOP DRAWINGS.
  - PROVIDE BASE MOUNTING RAILS WITH MECHANICAL PAD.
  - PROVIDE DAIKIN INTELLIGENT TOUCH MANAGER.
  - MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUMES.
  - SUBSTITUTE MANUFACTURERS SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
  - CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PIPING DIMENSIONS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIRECT COSTS ASSOCIATED WITH ANY DEVIATION RESULTING FROM CHANGES IN DESIGN.
  - THE EQUIPMENT PERFORMANCE TO MEET OR EXCEED IECC 2021.
  - PROVIDE UNITS WITH FACTORY SUPPLIED REFRIGERANT LEAK DETECTION PER ASHRAE 15 AND 34.

VRV INDOOR UNIT SCHEDULE																	
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	DIMENSIONS (IN.)			WEIGHT (LBS)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	dBa	VOLTAGE	PHASE	HZ	MCA	MOP	REMARKS
					LENGTH	WIDTH	HEIGHT										
FC-02	PRIVATE OFFICE	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.48	32	208	1	60	0.3	15	ALL	
FC-03	PRIVATE OFFICE	DAIKIN	FXZ07AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	6.48	53	32	208	1	60	0.3	15	ALL
FC-04	LOCKER ROOM	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-05	BREAK ROOM	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-06	OPEN OFFICE	DAIKIN	FXZ15AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	36	12.80	17.06	37	208	1	60	0.4	15	ALL
FC-07	Huddle Room	DAIKIN	FXA07AAVJU	WALL MOUNTED	33.9	9.8	11.6	27	6.30	8.50	34	208	1	60	0.3	15	ALL
FC-08	Huddle Room	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-09	RESOURCE ROOM	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-10	CONFERENCE ROOM	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-11	CONFERENCE ROOM	DAIKIN	FXZ05AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	4.95	6.48	32	208	1	60	0.3	15	ALL
FC-14E	LOWER LOUNGE A	DAIKIN	FXMA30AAVJU	DUCTED CONCEALED UNIT	31.5	65.1	9.6	101	25.92	34.00	36	208	1	60	3.0	15	ALL
FC-14I	LOWER LOUNGE B	DAIKIN	FXMA30AAVJU	DUCTED CONCEALED UNIT	31.5	65.1	9.6	101	25.92	34.00	36	208	1	60	3.0	15	ALL
FC-15	UPPER LOUNGE	DAIKIN	FXFA36AAVJU	3X3 CEILING CASSETTE	33.1	33.1	11.3	58	31.05	40.00	44	208	1	60	1.6	15	ALL
FC-19	OFFICE STORAGE	DAIKIN	FXZ09AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	35	8.02	10.57	33	208	1	60	0.3	15	ALL
FC-20	ROAR STORE	DAIKIN	FXFA30AAVJU	3X3 CEILING CASSETTE	33.1	33.1	11.3	58	25.92	34.00	44	208	1	60	1.0	15	ALL
FC-21	VESTIBULE	DAIKIN	FXZ12AAVJU	2X2 CEILING CASSETTE	22.6	22.6	10.2	36	10.24	13.64	34	208	1	60	0.4	15	ALL

- REMARKS:
- PROVIDE DIGITAL WALL MOUNTED THERMOSTAT TO CONTROL UNIT. REFER TO PLANS FOR THERMOSTAT LOCATIONS.
  - INTEGRATE CONTROL OF VRV INDOOR UNITS TO THE INTELLIGENT TOUCH MANAGER AND INTEGRATE WITH EXISTING BAS VIA BACNET.
  - CONTRACTOR SHALL COORDINATE LOCATION TO MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
  - COORDINATE CEILING CASSETTES WITH CEILING GRID CONTRACTOR PRIOR TO INSTALLATION. 2X2 CEILING CASSETTES SHALL BE ALIGNED WITH CEILING GRID AND 3X3 CASSETTES SHALL BE CENTERED IN THE CENTER OF 4'X2' TILES.
  - UNIT SHALL HAVE INTEGRAL CONDENSATE PUMP WITH MINIMUM 18" RISE.
  - PROVIDE REFRIGERANT PIPING AND ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
  - PROVIDE CONDENSATE PUMP WITH UNIT.

VRV BRANCH SELECTOR UNIT SCHEDULE														
MARK	MANUFACTURER	MODEL	DIMENSIONS (IN.)			WEIGHT (LBS)	NUMBER OF BRANCHES	VOLTAGE	PHASE	HZ	MCA	MOP	REMARKS	
			LENGTH	WIDTH	HEIGHT									
BSF-1	DAIKIN	BSF6A54AAVJ	33.4	9.5	9.5	99	6	208	1	60	1.9	15	ALL	
BSF-2	DAIKIN	BSF6A54AAVJ	33.4	27.7	9.5	99	6	208	1	60	1.9	15	ALL	
BSF-3	DAIKIN	BSF4A54AAVJU	19.3	27.7	9.5	73	4	208	1	60	1.2	15	ALL	

- REMARKS:
- REFER TO PIPING SCHEMATICS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL COORDINATE TO ENSURE MANUFACTURER'S RECOMMENDED CLEARANCES ARE MAINTAINED.

DEDICATED OUTSIDE AIR SYSTEM SCHEDULE																																					
MARK	MANUFACTURER	MODEL	DIMENSIONS (IN.)			SUPPLY FAN						COOLING PERFORMANCE										HOT GAS REHEAT				GAS HEAT				ELECTRICAL DATA							
			LENGTH	WIDTH	HEIGHT	WEIGHT (LBS)	OUTSIDE AIRFLOW (CFM)	ESP (in. wg)	MOTOR TYPE	FAN QTY	HP (PER FAN)	REFRIGERANT TYPE	COOLING STAGES	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING COIL TEMPERATURE EAT DB	LEAVING COIL TEMPERATURE EAT WB	FACE VELOCITY (FPM)	APD (in. wg)	COIL ROWS	FINS/IN	EER	CAPACITY (MBH)	COIL LAT DB	HOT GAS REHEAT CAPACITY (MBH)	COIL LAT DB	EAT (F)	LAT (F)	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	HEATING STAGES	GAS PRESSURE (IN. WG)	VOLTS / HZ / PH	MCA	MOPD	SCCR	REMARKS
DOAS-1	VALENT	VX-112-101-G-E2	120.7	86.4	65.9	2190	1500	1.5	PLENUM, DIRECT DRIVE	1	0.66	R-454B	INVERTER SCROLL	118.2	68.6	95.0	75.0	49.4	49.1	127	0.068	4	14	11.8	53.9	84.6	5.0	94.9	200	162	16:1	6"-14"	208/60/3	54.7	60	10	ALL

- REMARKS:
- REFER TO DRAWINGS FOR CONFIGURATION.
  - UNITS ARE PROVIDED WITH SINGLE POINT POWER CONNECTION AND UNIT POWERED GFI OUTLET.
  - SUPPLY AND EXHAUST FANS SHALL HAVE VIBRATION ISOLATORS.
  - STAINLESS STEEL HEAT EXCHANGE TUBES
  - ALL FANS TO BE SUPPLIED WITH MOTOR SHAFT GROUNDING RINGS AND FACTORY WIRED VFDs.
  - PROVIDE UNITS WITH FACTORY SUPPLIED REFRIGERANT LEAK DETECTION PER ASHRAE 15 AND 34.

AIR HANDLING UNIT SCHEDULE																																							
MARK	MANUFACTURER	MODEL	DIMENSIONS (IN.)			SUPPLY FAN						COOLING PERFORMANCE										HOT WATER COIL				ELECTRICAL DATA													
			LENGTH	WIDTH	HEIGHT	WEIGHT (LBS)	OUTDOOR AIR (CFM)	AIRFLOW (CFM)	ESP (in. wg)	MOTOR TYPE	FAN QTY	HP (PER FAN)	REFRIGERANT TYPE	COOLING STAGES	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING COIL TEMPERATURE EAT DB	LEAVING COIL TEMPERATURE EAT WB	FACE VELOCITY (FPM)	APD (in. wg)	COIL ROWS	FINS/IN	CAPACITY (MBH)	EAT DB (F)	LAT DB (F)	EWT (F)	LWT (F)	FLOW RATE (GPM)	PRESSURE DROP (FT WG)	ROWS	FPI	FACE VELOCITY (FT/MIN)	VOLTS / HZ / PH	MCA	MOPD	SCCR	REMARKS		
AHU-1	DAIKIN	BCVE041	64	47.5	65.5	461	700	3500	2.0	ECM DIRECT	2	2.77	R-32	TWO-STAGE TANDEM	118.5	92.5	78.5	65.0	50.3	49.9	436.4	0.63	6	12	135297	55.8	91.2	160	140	13.8	1.96	1	12	436.4	208/60/3	26	35	5	ALL

- REMARKS:
- REFER TO DRAWINGS FOR CONFIGURATION.

CONDENSING UNIT SCHEDULE																	
MARK	MANUFACTURER	MODEL	DIMENSIONS (IN.)			WEIGHT	REFRIGERANT TYPE	COOLING CAPACITY (MBH)	HEATING CAPACITY	EER	ELECTRICAL					REMARKS	
			LENGTH	WIDTH	HEIGHT						VOLTAGE	PHASE	HZ	MCA	MOP		SCCR
CU-AHU	DAIKIN	DC6TE12030	36	36	42	394	R-32	118	NA	11.4	208	3	60	46	60	10	ALL

- REMARKS:
- PROVIDE WITH R-32 REFRIGERANT. SIZE LINES PER MANUFACTURER'S INSTRUCTIONS. SUBMIT DETAILED PIPING SCHEMATIC WITH SHOP DRAWINGS.
  - PROVIDE BASE MOUNTING RAILS.
  - MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUMES.
  - SUBSTITUTE MANUFACTURERS SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT.
  - THE EQUIPMENT PERFORMANCE TO MEET OR EXCEED IECC 2021.
  - PROVIDE UNITS WITH FACTORY SUPPLIED REFRIGERANT LEAK DETECTION PER ASHRAE 15 AND 34.

EXHAUST FAN SCHEDULE															
MARK	MANUFACTURER	MODEL #	TYPE	SERVICE	AIRFLOW (CFM)	E.S.P.	DRIVE	ELECTRICAL DATA					REMARKS		
								VOLTAGE	PHASE	HZ	MCA	MOP		SCCR	dBa
EF-1	GREENHECK	SQ-7M1-VG	DIRECT DRIVE IN-LINE FAN	LOCKERS	700	1.25	DIRECT VFD	115	1	60	8.2	5	61	1-5	
EF-RELIEF	GREENHECK	USF-18	UNIVERSAL SINGLE WIDTH BLOWER	GAME ROOM RELIEF	3500	1.343	DIRECT VFD	208	60	60	13.25	20	5	68	1, 2, 6, 7

- REMARKS:
- PROVIDE WITH BACKDRAFT DAMPER.
  - PRE-APPROVED MANUFACTURERS: GREENHECK, COOK, TWIN CITY.
  - PROVIDE HOA VIBRATION CONTROLLER EQUIVALENT.
  - MOUNT FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATION.
  - FANS CONNECTED LOAD IS 390CFM. BALANCE FAN TO 390CFM.
  - BASE MOUNTED ON EXISTING ROOF MECHANICAL CURB.
  - PROVIDE WITH MOTOR SHAFT GROUNDING RINGS. PROVIDE WITH VARIABLE FREQUENCY DRIVE AND NEMA 3R ENCLOSURE.

REGISTERS, GRILLES, AND DIFFUSERS														
MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS			
												PRICE		
E-1	PRICE	535	STEEL LOUVERED WITH 45 DEG. DEFLECTION AND 1/2" BLADE	24"x24"	22"x22"	10"x8"	225	0.05	25	NA	1, 2, 4			
E-2	PRICE	635	ALUMINUM LOUVERED WITH 45 DEG. DEFLECTION AND 1/2" BLADE	12"x10"	10"x8"	10"x8"	225	0.05	25	NA	1, 2, 4			
R-1	PRICE	535	STEEL LOUVERED WITH 45 DEG. DEFLECTION AND 1/2" BLADE	24"x24"	22"x22"	REFER TO PLANS	1200	0.05	25	NA	1, 2, 4, 5			
R-1F	PRICE	535F	STEEL LOUVERED WITH 45 DEG. DEFLECTION AND 1/2" BLADE, FILTER FRAME	24"x24"	22"x22"	REFER TO PLANS	1200	0.05	25	NA	1, 2, 4, 5, 6			
R-2	PRICE	60	STEEL LOUVERED WITH 45 DEG. DEFLECTION AND 1/2" BLADE	24"x24"	22"x22"	REFER TO PLANS	1500	0.05	25	NA	1, 2, 5			
S-1	PRICE	SPD	SQUARE PLAQUE DIFFUSER	24"x24"	6"Ø	6"Ø	100	0.05	25	4-WAY	1-3			
S-1A	PRICE	SPD	SQUARE PLAQUE DIFFUSER	12"x12"	6"Ø	6"Ø	100	0.05	25	4-WAY	1-3			
S-2	PRICE	SPD	SQUARE PLAQUE DIFFUSER	24"x24"	8"Ø	8"Ø	225	0.05	25	4-WAY	1-3			
S-3	PRICE	SPD	SQUARE PLAQUE DIFFUSER	24"x24"	10"Ø	10"Ø	450	0.05	25	4-WAY	1-3			
S-4	PRICE	SCD	SQUARE PLAQUE DIFFUSER	24"x24"	12"Ø	12"Ø	600	0.05	25	4-WAY	1-3			
S-5	PRICE	510Z	STEEL LOUVERED DIFFUSER	14"x10"	12"x8"	12"x8"	450	0.05	25	1-WAY	1-3			