



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

LEGEND

- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST FAN LIGHT COMBO (EACH FAN TO HAVE A BACKFLOW PREVENTER)
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- OUTSIDE AIR INTAKE DUCT
- ROUND FLEX DUCT, MAX. LENGTH 12'-0". MIN. R.G. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS. DUCT SIZE AS FOLLOWS:  
300CFM TO 399CFM = 8"  
200CFM TO 299CFM = 6"  
100CFM TO 199CFM = 5"
- AC CONDENSING UNIT MOUNTED ON ROOF, SEE ROOF PLAN
- AHU UNIT
- CONTROL DAMPER
- FIRE DAMPER
- THERMOSTAT

NOTE-1: MECHANICAL PLAN IS DRAWN DIAGRAMATIC. DUCT LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE AS NEEDED BETWEEN JOISTS OR TRUSSES. INSTALL FIRE DAMPER AT ANY LOCATION WHERE DUCT PENETRATES A FIRE WALL OR CEILING. ANY EXHAUST FAN FIXTURE INSTALLED IN A RATED CEILING SHALL BE RATED FOR THAT CEILING. REFER TO MECHANICAL NOTES # DETAILS ON SHEET M-2 FOR FURTHER INFORMATION.

NOTE-2: COORDINATE LOCATION OF ALL SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, EXHAUST FANS, ETC... WITH LIGHTING PLAN.

EXHAUST FAN SCHEDULE					
FAN No.	CFM	VOLTAGE	TYPE	MANUFACTURER	
EF-1	70	120	VENT/LIGHT	BROAN 744, SEE WOODHOUSE SPECS.	
EF-2	70	120	VENT/LIGHT	BROAN 744, SEE WOODHOUSE SPECS.	
EF-3	70	120	VENT/LIGHT	BROAN 665, SEE WOODHOUSE SPECS.	
EF-4	70	120	VENT/LIGHT	BROAN 744, SEE WOODHOUSE SPECS.	
EF-5	70	120	VENT/LIGHT	BROAN 665, SEE WOODHOUSE SPECS.	
EF-6	70	120	VENT/LIGHT	BROAN 665, SEE WOODHOUSE SPECS.	
EF-7	70	120	VENT/LIGHT	BROAN 665, SEE WOODHOUSE SPECS.	

NOTE: ALL EXHAUSTS TO HAVE BACKFLOW PREVENTERS.

A/C UNIT SCHEDULE TOTAL HVAC TONS = 20					
NO.	TOTAL BTU	ELECTRICAL			MANUFACTURER
		VOLTAGE	MCA	CKT BRKR	
1	120,000 10 TON	208V, 3Ø	42.6	MDP-2,4,6	TRANE OR EQUAL
2	120,000 10 TON	208V, 3Ø	42.6	MDP-8,10,12	

AHU UNIT SCHEDULE TOTAL HVAC TONS = 20								
NO.	TOTAL BTU	CFM	O.A.	HEAT ELEC.	ELECTRICAL			MANUFACTURER
					VOLTAGE	MCA	CKT BRKR	
1	120,000 10 TON	4,000	200	25 KW	208V, 3Ø	83.0	MDP-1,3,5	TRANE OR EQUAL
2	120,000 10 TON	4,000	130	25 KW	208V, 3Ø	83.0	MDP-7,9,11	

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DRAWN BY: KJK/JTL

The client, its agents, and its representatives, including the architect, shall be responsible for the accuracy of the information provided to the engineer. The engineer shall not be responsible for the accuracy of the information provided to the client, its agents, or its representatives. The engineer shall not be responsible for the accuracy of the information provided to the client, its agents, or its representatives. The engineer shall not be responsible for the accuracy of the information provided to the client, its agents, or its representatives.

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MECHANICAL PLAN

SHEET No: 7 OF 15

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