

HVAC GENERAL NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
- THESE DRAWINGS ARE DIAGNOSTIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
- SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT.
- LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED BY WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED. CONCEALED SHEET METAL DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH DUCT LINER (R-VALUE = 5). THE FIRST 5' FROM THE AIR HANDLER SHALL BE INTERNALLY LINED. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 645.
- CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
- AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE U.L. ASSEMBLY.
- PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
- ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.
- ALL ACTUATORS ON MOTORIZED DAMPERS, SMOKE DAMPERS, AND FIRE-SMOKE DAMPERS ARE TO BE LOW VOLTAGE UNLESS OTHERWISE NOTED.
- REFER TO APPENDIX B FOR SITE SEISMIC CLASSIFICATION. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES (OR EQUAL) & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS RECD BY APPLICABLE CODES FOR THE LOCALITY OF THIS PROJECT. SEISMIC RESTRAINTS FOR SEISMIC CLASSES D, E, AND F SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO INSTALLATION.
- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED.
- ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SPACIA STANDARDS. RUNOUTS FROM MAIN BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF U.S. 91 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAX. LENGTH OF FLEX PER RUNOUT TO BE 10'-0". A MAXIMUM OF 5'-0" OF FLEX MAY BE USED FROM THE MAIN DUCT TO THE FPA/VV BOX INLET FOR ALIGNMENT PURPOSES ONLY.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE LOW VOLTAGE CONTROL LINES TO THE ROOFTOP UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO ROOFTOP UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTROL LINES FROM THE CONDENSER TO THE AIR HANDLING UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO SPLIT SYSTEM UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
- REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES.
- MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND HALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- SEE PLUMBING SHEETS FOR ALL GAS PIPING INFORMATION AND DETAILS.
- ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK IN ATTIC TO BE INSULATED WITH A MINIMUM OF R-8 PER IRC/AC 2002 SECTION R03.2.6
- PENETRATIONS OF RATED WALLS, PARTITIONS AND FLOORS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NONCOMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-84.
- MECHANICAL CONTRACTOR SHALL PREPARE ALL EXPOSED DUCT, GRILLES, PIPING, AND UNITS FOR PAINTING. GC WILL BE RESPONSIBLE FOR PAINTING.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE REQUIRED OPENINGS IN ROOF TRUSSES WITH THE G.C. IN ORDER TO PROVIDE ADEQUATE SPACE, ACCESS AND SUPPORT FOR THE MECHANICAL UNIT.
- THE GENERAL CONTRACTOR SHALL PROVIDE PLATFORMS AS REQUIRED FOR THE INSTALLATION OF THE MECHANICAL UNIT, AND SUITABLE WALKING SURFACES AND WORKING AREAS FOR ACCESS AND MAINTENANCE. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE REQUIREMENTS FOR THESE ITEMS WITH THE GENERAL CONTRACTOR.

MECHANICAL LEGEND

XXX RECTANGULAR DUCT
 X-X ROUND METAL DUCT
 X-X FLEX/RIGID ROUND DUCT
 ELBOW WITH TURNING VANES
 VOLUME DAMPER
 SUPPLY TAP W/ NO VOLUME DAMPER
 SUPPLY DIFFUSER/GRILLE
 RETURN REGISTER/GRILLE
 EXHAUST REGISTER/GRILLE
 CEILING EXHAUST FAN

SIDEWALL DIFFUSER/GRILLE
 CONDENSATE DRAIN
 REFRIGERANT PIPING
 MECHANICAL EQUIPMENT TYPE X
 T-STAT MOUNTED 46" AFF.
 DUCT SMOKE DETECTOR
 LOUVERED DOOR (SEE ARCHITECTURAL DRAWINGS)
 3/4" DOOR UNDER CUT
 U.L. FIRE DAMPER W/ ACCESS DOOR
 U.L. CEILING RADIATION DAMPER
 U.L. FIRE-SMOKE DAMPER W/ ACCESS DOOR

DIFFUSER SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER #	MODEL NO.	NOTES
	AS NOTED	AS NOTED	24x24	LAY-IN	4-WAY	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD		1
	AS NOTED	AS NOTED	AS NOTED	SURFACE	LINEAR	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD'S 3 SLOTS		1,3,4
	AS NOTED	AS NOTED	AS NOTED	SURFACE	LINEAR	YES	STEEL	RETURN	NOTE 2	PRICE SMD'S 3 SLOTS		1,3,4
	AS NOTED	AS NOTED	RD-G	SURFACE	-	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD		1,3
	AS NOTED	AS NOTED	12x12	SURFACE	4-WAY	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD		1,2
	AS NOTED	AS NOTED	24x24	SURFACE	4-WAY	YES	STEEL	SUPPLY	NOTE 2	PRICE SMD		1,2
	AS NOTED	AS NOTED	24x24	LAY-IN	-	YES	STEEL	RETURN	NOTE 2	PRICE SMD		1
	AS NOTED	AS NOTED	6x6	SURFACE	PERF.	YES	STEEL	SUPPLY	NOTE 2	PRICE NSFG		1,2
	AS NOTED	AS NOTED	6x6	SURFACE	PERF.	YES	STEEL	EXHAUST	NOTE 2	PRICE NSFG		1,2

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:
 DIFFUSER OR NECK SIZE (e.g., 24x24) DIFFUSER TYPE AS NOTED ABOVE
 AIR QUANTITY (e.g., 200)

- FINISH TO MATCH BE ABLE MATCH CEILING OR WALL OR DOOR.
- PROVIDE WITH ARCHITECTURAL SELECTED FINISH
- PROVIDE WITH SDR RETURN

ENERGY REQUIREMENTS:
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE
 PRESCRIPTIVE PERFORMANCE ENERGY COST BUDGET

CLIMATE ZONE: 3
 THERMAL ZONE: WINTER DRY BULB 23, SUMMER DRY BULB 76
 INTERIOR DESIGN CONDITIONS: WINTER DRY BULB 70, SUMMER DRY BULB 75, RELATIVE HUMIDITY 50

BUILDING HEATING LOAD (THERM): 102.0 THERM
 BUILDING COOLING LOAD (THERM): 161.9 THERM

MECHANICAL SPACING CONDITIONING SYSTEM UNITARY

DESCRIPTION OF UNIT: HEATING EFFICIENT, COOLING EFFICIENT, HEAT OUTPUT OF UNIT, COOLING OUTPUT OF UNIT

BOILER: TOTAL BOILER OUTPUT, IF OVERSIZED, STATE REASON NA
 CHILLER: TOTAL CHILLER OUTPUT, IF OVERSIZED, STATE REASON NA

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES

EQUIPMENT SCHEDULES WITH UNITS (MECHANICAL SYSTEMS): SEE SCHEDULES

STATEMENT OF KNOWLEDGE AND DESIGN OF THIS BUILDING COMPLIANCE WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE ENERGY CODE: SEE SCHEDULES

SIGNED: [Signature]
 NAME: [Name]
 TITLE: MECHANICAL ENGINEER

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

UNIT TAG	AREA SERVED	AIR HANDLING UNIT DATA										HEAT PUMP											
		FAN DATA		COOLING		HEAT		AUX		ELECTRICAL DATA		GENERAL DATA		ELECTRICAL DATA		GENERAL DATA		ELECTRICAL DATA					
RU-1	ELEC 136	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-1	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-2	ELEC 137	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-2	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-3	COM 139	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-3	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-4	LAVATORY 153/154	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-4	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-5	ELEC 165	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-5	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-6	SERV ENV 111	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-6	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-7	ELEC 218	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-7	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-8	ACC. CONT. 274	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-8	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-9	COM 220	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-9	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1
RU-10	ENR 225	MANUF. MODEL: PKA24AFAL	FAN CFM: 500	ESP (WEG): 0.4"	MOTOR HP: 75(W)	OA (CFM): NA	TOTAL (MDH): 24	SENS. (MBH): 18.7	TOTAL (MBH): 26	HEAT (KWH): 0	VOLTAGE (VPH): 208(V)	MCA (A): NA	MOCP (A): NA	UNIT TAG: OU-10	MANUF. MODEL: MTSUBS2H	TONNAGE: 2.0	EFF. (SEER): 13.5	HSPF: 9	VOLTAGE (VPH): 208(V)	MCA (A): 13	MOCP (A): 20	WEIGHT (LBS): 53	NOTES: 1-1-1

- COOLING CAPACITIES ARE LISTED IN ACCORDANCE WITH ARI STANDARD 210-230 AT 95 DEGREE FARIENHEIT AMBIENT OUTDOOR AIR TEMPERATURE, 60 DEGREE FARIENHEIT WINTER OUTDOOR AIR TEMPERATURE, AND NORMAL AIR QUANTITY LISTED.
- REFRIGERANT PIPING TO BE SIZED PER TOTAL INSTALLATION EQUIVALENT LENGTH. LONG-LINE APPLICATION TO BE PROVIDED WHEREVER MANUFACTURER RECOMMENDED LENGTHS ARE EXCEEDED, INCLUDING, BUT NOT LIMITED TO, ONE-STOP VALVES, ACCUMULATOR, ETC. MAXIMUM T.E.L. IS 100'.
- PROVIDE SAGGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
- PROVIDE NEW FILTER IN EACH UNIT AT TURNING TO OWNER.
- OUTDOOR UNITS SHALL HAVE A SEISMIC 1.0 SEC. RATING.
- MANUFACTURER TO PROVIDE SPACE CONDENSER COMPATIBLE WITH INTERNAL CONTROL BOARD.
- PROVIDE HEAT PUMP UNIT WITH AIR HANDLER (IF REQUIRED).
- ALL ACCESSORIES AND OPTIONS ARE TO BE FACTORY INSTALLED.
- DRAIN CONDENSATE TO WSP SHED OR MUD SHED.
- ALL CATALOG NUMBERS AND MANUFACTURER'S ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED. SUBMIT SAMPLES OF THESE AND OBTAINATE MANUFACTURER'S APPROVAL PRIOR TO PURCHASE OF AIR UNITS. INFORMATION ON ALTERNATE UNITS PROVIDED BY THE CONTRACTOR SHALL INCLUDE THE ADDY DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT UNIT FOR THE ALTERNATE UNIT. THE PACKAGING AND LABELING SHALL BE IN ACCORDANCE WITH THE UNIT'S INSTRUCTIONS AND THE SYSTEM.
- PROVIDE UNIT WITH BACKET COMMUNICATION CARD FOR COMMUNICATION WITH EXISTING BMS SYSTEM.

UNIT HEATER SCHEDULE

TAG	LOCATION	MOUNTING	CAPACITY MBH	ELECTRICAL	FACTORY #	NOTES
UH-1	STAIR	WALL	6.6	2.0 277 1 60	MANUF. # 13320	1,2,3
UH-2	SERV ENV 111	WALL	6.6	2.0 277 1 60	MANUF. # 13320	1,2,3,4

1. INTERNAL THERMOSTAT
 2. SMOKE DETECTOR
 3. UNIT DISCONNECT
 4. U.L. LISTED

FAN SCHEDULE

UNIT TAG	AREA SERVED	CFM	S.P.T.	RPM	TYPE & ARRANGEMENT	MIN. MOTOR HP & VOLTAGE	MANUFACTURER # MODEL NO.	DRIVE	CONTROL SCHEME	NOTES	
EF-1	EXHAUST	WOMEN 103	350	0.25"	1500	CEILING	121 WF 74A 120(V) PH	GREENHECK SP-A41 G	DIRECT	A,E	1-5
EF-2	EXHAUST	MEN 104	350	0.25"	1500	CEILING	121 WF 74A 120(V) PH	GREENHECK SP-A41 G	DIRECT	A,E	1-5
EF-3	EXHAUST	JAN 105	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-4	EXHAUST	FAMILY TOILET 106	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-5	EXHAUST	HOLD 149	75	0.25"	950	NADIE	111 Q HP 120(V) PH	GREENHECK 200-60-VG	DIRECT	A,E	1-5
EF-6	EXHAUST	BREAK 152	100	0.25"	1400	CEILING	113 WQ 58A 120(V) PH	GREENHECK SP-A190	DIRECT	G,E	1-5
EF-7	EXHAUST	TOT 156	190	0.25"	1400	CEILING	113 WQ 58A 120(V) PH	GREENHECK SP-A190	DIRECT	A,E	1-5
EF-8	EXHAUST	MEN 167	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-9	EXHAUST	WOMEN 167	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-10	EXHAUST	WOM 203	225	0.25"	1050	CEILING	81 WQ 72A 120(V) PH	GREENHECK SP-A290	DIRECT	A,E	1-5
EF-11	EXHAUST	W. SHOWER 204	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-12	EXHAUST	MEN 205	350	0.25"	1500	CEILING	121 WF 74A 120(V) PH	GREENHECK SP-A41 G	DIRECT	A,E	1-5
EF-13	EXHAUST	M. SHOWER 206	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-14	EXHAUST	JAN 207	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-15	EXHAUST	JAN 208	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-16	EXHAUST	KITCHEN 212	100	0.25"	1400	CEILING	113 WQ 58A 120(V) PH	GREENHECK SP-A190	DIRECT	G,E	1-5
EF-17	EXHAUST	TOT 441	75	0.25"	950	CEILING	29 WQ 56A 120(V) PH	GREENHECK SP-A1 G	DIRECT	A,E	1-5
EF-18	EXHAUST	CATER 126	300	0.25"	1000	CEILING	121 WF 74A 120(V) PH	GREENHECK SP-A41 G	DIRECT	A,E	1-5

1. SCREEN
 2. BACKDRAFT DAMPER
 3. COLOR BY ARCHITECT
 4. INTERRAL DISCONNECT SWITCH
 5. SPEED CONTROLLER NEAR FAN
- CONDENSATE DISCHARGE:
 A. CONTROL W/ ROOM LIGHTS
 B. CONTROL W/ THERMOSTAT
 C. CONTROL W/ SWITCH
 D. CONTINUOUS OPERATION
 E. FAN STATUS TO BE MONITORED BY EXISTING AIRPORT METEOROLOGICAL BMS SYSTEM

MECHANICAL SHEET INDEX

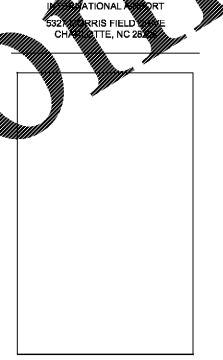
M-00	GENERAL NOTES, LEGEND & SCHEDULES
M-01	SCHEDULES
M-02	DETAILS
M-101	FIRST FLOOR PLAN
M-102	SECOND FLOOR PLAN
M-103	ROOF PLAN
M-201	CONCHECK



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