LOUVER SCHEDULE

NOTES:
1. CONTRACTOR TO INSTALL GRAVITY DAMPER.
2. LOUVER COLOR BY ARCHITECT.
3. MANUFACTURER INSTALLED BIRD SCREEN.
4. COMBINATION LOUVER/DAMPER. ALUMINUM DRAINABLE BLADE LOUVER.

			LOUVER SIZE						PERFORMANCE			
MARK	MANUFACTURER	MODEL	WIDTH (IN)	HEIGTH (IN)	DEPTH (IN)	AIR FLOW (CFM)	DUITY TYPE	DAMPER TYPE	AIR PRESSURE DROP (IN W.G.)	FREE AREA (SF)	FREE AREA VELOCITY (FT/MIN)	NOTES
L-1	GREENHECK	ECD-403	60	48	4	5070	INTAKE	GRAVITY	0.041	10.30	492	1:2:3:4

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

NOTES:
1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR DUCT CONNECTION.

		LAYOUT BASIS					INSTALLATION	
MARK	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	FACE SIZE	TYPE	NOTES
R1	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	24x12	LAY-IN INSTALLATION	1:2:4
R2	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	24x24	LAY-IN INSTALLATION	1:2:4
S1	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	12x12	LAY-IN INSTALLATION	1:2:3
S2	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	24x24	LAY-IN INSTALLATION	1:2:3

FAN SCHEDULE

NOTES:
1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
2. CENTRIFUGAL CEILING MOUNTED FAN. PROVIDE MANUFACTURER'S GRILLE, ROUND DUCT CONNECTION, SOLID STATE SPEED CONTROL AND MOTOR WITH THERMAL OVERLOAD.
3. FAN TO BE INTERLOCKED WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. PROVIDE 15-MINUTE TIME DELAY TO TURN OFF.
4. SIDEWALL DIRECT DRIVE FAN. PROVIDE WALL SLEEVE AND GRAVITY SHUTTER AND DAMPER AT THE DISCHARGE. PROVIDE SWITCH, NEMA-1, TOGGLE AND MOTOR ACCESS FROM INTERIOR OF BUILDING.
5. PROVIDE SHORT WALL HOUSING, FLUSH EXTERIOR W/OSHA GUARD, AND GALVANIZED 45 DEG WEATHER HOOD WITH BIRD SCREEN. PROVIDE VARI-GREEN EC MOTOR, MOTOR WITH SHAFT GROUNDING, AND VARI-GREEN DIAL ON EXTERIOR OF FAN HOUSING.
6. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT PROVIDED BY MECHANICAL. ELECTRICAL TO PROVIDE STARTER DISCONNECT TO OVERRIDE THERMOSTAT TO TURN ON FAN.

	LAYOUT BASIS		FAN PROPERTIES			AIRFLOW PROPERTIES		ELECTRICAL				
MARK	MANUFACTURER	MODEL	FAN TYPE	DRIVE TYPE	RPM	AIRFLOW (CFM)	TSP (IN.WG)	VOLTAGE (V)	PHASE	WEIGHT (LBS)	NOISE CRITERIA (SONES)	NOTES
EF-1	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-2	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-3	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-4	GREENHECK	AER-30-VG	SIDEWALL FAN	DIRECT	945	5070	0.429	208	1	353	17.9	4:5:6

HEAT PUMP AIR HANDLING UNIT SCHEDULE

NOTES:
1. UNIT AT 208/1Ø AUXILIARY HEATER AT 208/1Ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE TO NEAREST HUB DRAIN. COORDINATE WITH PLUMBING.
5. HORIZONTAL CONFIGURATION UNIT.
6. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
7. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.
8. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
9. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
10. UNIT SHALL HAVE MANUFACTURER'S REFRIGERANT LEAK DETECTION DISSIPATION SYSTEM.
11. PROVIDE CARRIER PROGRAMMABLE THERMOSTAT. LOCATE SENSORS AND THERMOSTAT AS PER DRAWINGS.

	LAUOUT BASIS			SUPPLY FAN				EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS		SUPPL. HEAT (KW)	UNIT WEIGHT (LBS)	ELECTRICAL		
MARK	MANUFACTURER	MODEL	TYPE	DESIGN AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	ESP (IN.WG)	HP	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL (MBH)	SENSIBLE (MBH)			VOLTAGE (V)	PHASE	NOTES
AH-1	CARRIER	FT5ANBC48L00	HORIZONTAL	1400	160	0.50	0.75	78.2	65.3	56.0	54.8	44.84	33.64	11.3	168	208	1	1:2:3:4:5:6:7:8:9:10:11

AIR COOLED HEAT PUMP UNIT SCHEDULE

NOTES:
1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.

					HEAT PUMP HEATING CAPACITY (BTU/HR)	REFRIGERANT	O.A. TEMPERATURE SUMMER (DB) °F	O.A. TEMPERATURE WINTER (DB) °F	NORMAL CAPACITY (TONS)	SEER2	EER2	UNIT DIMENSIONS			OPERATING WEIGHT (lb)	ELECTRICAL		
MARK	DESCRIPTION	SERVES	MANUFACTURER	MODEL NO.		TYPE						LENGTH	WIDTH	HEIGHT		VOLT (V)	PHASE	NOTES
HP-1	CONDENSING UNIT	AH-1	CARRIER	27TPA848A003	48000	R-454B	95.0	47.0 °F	4	17	12.5	2' - 11"	2' - 11"	3' - 9 11/16"	309	208	1	1:2:3:4:5:6

ELECTRIC UNIT HEATER SCHEDULE

NOTES:
1. MOUNT UNIT HEATERS AT 10'-0" AFF.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE MOUNTING BRACKETS, FAN DELAY HEATER, AND AUTOMATIC RESET LINEAR THERMAL CUT-OUT.
4. VERTICAL WALL MOUNTED EXPOSED HEATER.
5. UNIT SHALL BE CONTROLLED BY MANUFACTURER'S SINGLE STAGE THERMOSTAT.
6. PROVIDE CLEAR PLASTIC LOCKABLE ROOM THERMOSTAT GUARD.

		LOCATION							ELECTRICAL			DIMENSIONS			
MARK	DESCRIPTION	NAME	NO	MANUFACTURER	MODEL	INSTALLATION TYPE	AIRFLOW (CFM)	HEATING (kW)	FAN MOTOR (HP)	VOLTAGE (V)	PHASE	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	NOTES
UH-1	UNIT HEATER	HEATED WAREHOUSE	114	QMARK	MUH-15-8	SUSPENDED	910	15.0	0.02	208	1	13	19	22	1:2:3:4:5:6
UH-2	UNIT HEATER	HEATED WAREHOUSE	114	QMARK	MUH-15-8	SUSPENDED	910	15.0	0.02	208	1	13	19	22	1:2:3:4:5:6

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MECHANICAL SCHEDULES

M-003

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