SERIES FAN POWERED BOX SCHEDULE

MARK	CFM VALVE/FAN	BOX SIZE	INLET SIZE "ø	FAN HP	HTG COIL KW	LOCATION, FLOOR
Ⓐ	1095	4	12	1/3	3.3	1ST
Ⓑ	1765	5	14	1/2	3.7	1ST
Ⓒ	670	3	10	1/4	3.5	1ST
Ⓓ	935	4	10	1/3	5.5	1ST
Ⓔ	170	2	6	1/10	1.0	1ST,2ND,3RD
Ⓕ	640	3	10	1/4	1.0	1ST
Ⓖ	525	3	10	1/4	1.0	1ST
Ⓗ	900	4	10	1/3	2.8	2ND,3RD
Ⓘ	1450	5	14	1/2	3.8	2ND,3RD,4TH
Ⓙ	540	3	10	1/4	3.1	2ND,3RD
Ⓚ	570	3	10	1/4	3.8	2ND
Ⓛ	455	3	10	1/4	2.6	3RD,4TH
Ⓜ	665	3	10	1/4	1.0	2ND,3RD
Ⓝ	675	3	10	1/4	1.0	2ND,3RD
Ⓞ	650	3	10	1/4	1.0	2ND,3RD
Ⓟ	785	3	10	1/4	2.0	2ND,3RD
Ⓠ	980	4	12	1/3	3.5	4TH
Ⓡ	600	3	10	1/4	3.4	4TH
Ⓢ	205	2	8	1/10	1.0	4TH
Ⓣ	820	3	10	1/4	1.5	4TH
Ⓤ	800	3	10	1/4	1.5	4TH
Ⓥ	965	4	10	1/3	1.7	4TH

NOTES:
- MFG OR EQUAL: TITUS DMFC – 3000 W/ ELECTRIC HEATING COIL
- HEATING COIL CONTROL STEPS = 2 FOR COILS OVER 2KW & PD=.10"SP.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF FAN & COIL.
- BOX INLET SP=.50" AND FAN ESP=.40".

VAV BOX SCHEDULE

SYMBOL	CFM	KW	INLET	DISCH.
⟨A⟩	425	2.5	7"ø	12"x10"
⟨B⟩	765	2.5	8"ø	12"x10"
⟨C⟩	340	1.5	6"ø	12"x8"
⟨D⟩	475	2.0	7"ø	12"x10"
⟨E⟩	565	1.5	7"ø	12"x10"

NOTES:
- MFG OR EQUAL: TITUS DESV – 3000 WITH ELECTRIC HEATING COIL.
- MINIMUM CFM = 30%
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF HEATING COILS.
- INLET S.P. TO BOX IS .50" MIN.
- MAX PD FOR BOX AND ELECTRIC COIL IS .25"SP
- CONTROL STEPS FOR EACH HEATING COIL IS 2.

WATER COOLED PACKAGED AIR HANDLING UNIT SCHEDULE

MARK		PAC–1	PAC–2&3	PAC–4	PAC–5
MANUFACTURER		CARRIER	CARRIER	CARRIER	CARRIER
MODEL NUMBER		50BJ044	50BJ054	50BJ054	50BA016
CFM		14,000	14,000	15,000	6,000
ESP		2.5"	2.5"	2.5"	2.0"
FAN HORSEPOWER		15	20	20	3
VPLTS/PHASE		*	*	*	*
COOLING (MBH)	TOTAL MBH	473	503	575	165
	SENSIBLE MBH	369	380	452	134
	E.A.T. °FDB	79.7	80.6	82.7	78.3
	E.A.T. °FWB	65.7	66.6	67.0	66.0
CONDENSER WATER GPM		120	150	150	35
ENTERING WATER °F		85	85	85	85
WATER PRESSURE DROP		16'	15'	15'	10'
OUTSIDE AIR CFM		1700	2000	2000	600

NOTE : PROVIDE UNITS WITH SPRING VIBRATION ISOLATORS.

* SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

VENTILATING FAN SCHEDULE

MARK	PENN MODEL NO.	CFM	FAN RPM	SP"	HP	SONES	DRIVE	VOLTS/PH	CONTROL
EF–1	LB24	3700	730	0.75	1	9.6	BELT	*	EMS
EF–2	LB24	3200	610	0.50	3/4	7.5	BELT	*	EMS
EF–3	COOK TYPE SPD #16 SP10D	2000	1050	0.10	1/6	8.7	DIRECT	*	T'STAT
EF–4	WBW 45	1400	860	FA	1/6	6.2	DIRECT	*	T'STAT
EF5–8	QB 36	10000	390	.125	1 1/2	8.4	BELT	*	SMOKE DETECTOR
SF–1	SEE NOTE ON PENTHOUSE FLOOR PLAN								

* SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

CONDENSER WATER COOLING TOWER SCHEDULE

MARLEY MODEL	OPERATING WEIGHT	CONDENSER WATER			STATIC LIFT	FAN MOTOR		ENT. AIR WB	BASIN HEATER KW
		GPM	E.W.T.	L.W.T.		HP	VOLTS/PH		
NC211	14380	600	95°F	85°F	10 FT.	15	**	80°F	4

** SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

HVAC SYMBOLS

SUPPLY AIR DUCT
RETURN OR OUTSIDE AIR DUCT
CFM — CUBIC FEET PER MINUTE
TURNING VANES
FC — FLEXIBLE CONNECTION
T — THERMOSTAT
FIRE DAMPER
ACOUSTICALLY LINED DUCT
UNDERCUT DOOR 1", SEE ARCH. DWGS.
FLOOR DRAIN, SEE PLBG. DWGS.
PIPE RISING
PIPE TURNING DOWN
D — DRAIN PIPE
CS — CONDENSER WATER SUPPLY PIPE
CR — CONDENSER WATER RETURN PIPE
UNION
GATE VALVE
M — MOTOR OPERATED DAMPER
MANUAL DAMPER
3–WAY VALVE

ELECTRIC PIPE HEATING TAPE SCHEDULE

MARK	MANUF. & MOD. NO.	WATTS/FT	LENGTH	VOLTS/PHASE	REMARKS
EHT–7C	EMERSON TBT–7OS	4	70'	**	*

* TAPE SHALL BE COMPLETE WITH 2' CORD AND PLUG, AUTOMATIC THERMOSTAT AND "PRESS TO TEST" THERMOSTAT. PROVIDE ONE SECTION OF TAPE FOR EACH SECTION OF OUTDOOR PIPING.

** SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

AIR VENT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CFM	MAX. SP. DROP
AV–1	GREENHECK	GRS–24	1820	.06"
AV–2	GREENHECK	GRS–24	1820	.06"

GRILLE AND DIFFUSER SCHEDULE

MARK	METAL AIRE MODEL	TYPE
LCD	7000–6–D7	PERFORATED CEILING DIFFUSER (LAY–IN)
LCR	7000R–6–D7	PERFORATED CEILING RETURN (LAY–IN)
SCD	7000–1–D7	PERFORATED CEILING DIFFUSER (SUR. MTD.)
HSD	42CD	HIGH SIDEWALL DIFFUSER, REVERS–A–CORE
RAR & EG	42CD–R	SIDEWALL EXHAUST OR RETURN GRILLE, REVERS–A–CORE
CEG	7000–1–D7	PERFORATED CLG. EXHAUST GRILLE (SUR. MTD.)

BASE BID SHALL INCLUDE 542 8x8 LCD'S TO BE USED FOR UPFITTING.

HVAC NOTES

1. DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.
2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. WHEREEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
4. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
5. WHERE NOTED, LOCATE ABOVE CEILING.
6. WHERE NOTED, RUN BETWEEN BEAMS.
7. PROVIDE "P" TRAP FOR ALL CONDENSATE DRAINS.
8. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS. INCREASE DUCT SIZES AS REQUIRED FOR ACOUSTICAL INSULATION.
9. CONSTRUCT DUCTWORK AS JOB PROGESSES AND AFTER COORDINATING WITH ALL CONCERNED TRADES AND CONTRACTORS.
10. WHERE DUCTS PASS OVER RECESSED LIGHT FIXTURES, MAINTAIN 7" CLEARANCE FROM CEILING TO BOTTOM OF DUCT.
11. CEILING DIFFUSERS ARE FOUR–WAY BLOW UNLESS OTHERWISE NOTED.
12. PROVIDE GATE VALVES AND UNIONS FOR EACH PIECE OF PIPED EQUIPMENT.
13. PIPE BLOWDOWNS AND DRAINS TO ABOVE FLOOR DRAINS. KEEP WALKING AND SERVICE AREAS CLEAR OF PIPING, ETC.
14. PROVIDE BALANCING VALVES AT EACH FLOW METER NOT INTERNALLY EQUIPPED.
15. PITCH FOR CONDENSATE DRAINS SHALL BE CONSTANT WITHOUT DIPS OR SAGS AND SHALL MAINTAIN A RATE OF FALL OF AT LEAST 1/8" PER FOOT. ARRANGE FITTINGS TO PROVIDE MINIMUM FRICTION.
16. NOTE : THE SHELL CONTRACT SHALL INCLUDEPROVISIONS FOR ALL DUCTWORK AND CEILING DIFFUSERS FOR THE PUBLIC SPACES. THE CORRIDORS AND LOBBIES SHALL BE HEATED AND COOLED BY RUNOUTS, DIFFUSERS AND RETURN OPENINGS FROM THE VAV BOXES SERVING THE SPACES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE SHELL CONTRACT.
17. WHERE NOTED, COORDINATE LOCATION OF DUCTWORK WITH PLUMBING CONTRACTOR TO AVOID INTERFERENCE WITH PLUMBING PIPES.
18. FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET IN LENGTH. USE RIGID ROUND DUCT WHERE NECESSARY.
19. CONTRACTOR SHALL RELOCATE STATIC PRESSURE SENSOR IF NECESSARY TO OBTAIN PROPER VAV OPERATION.

WATER PUMP SCHEDULE

MARK	BELL & GOSSET MODEL	GPM	HEAD (FT)	RPM	HP	VOLTS/PHASE
P–1	SERIES 1510 #4BC	600	50	1750	10	*
P–2	SERIES 1510 #4BC	600	50	1750	10	*

* SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUF. & MOD. NO.	KW	VOLTS/PHASE	FAN MOTOR	CFM	CONTROL
EUH–1	MARKEL 3480	5	*	1/125 HP	400	T'STAT

* SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

ELECTRIC RECESSED CEILING HEATER SCHEDULE

MARK	MANUF. & MOD.	KW	VOLTS/PHASE	FAN HP	BTUH	CONTROL BY
ERCH–1	MARKEL 3480	3	*	1/8	10,239	T'STAT

* SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.

1 / M3.1 SCHEDULES - HVAC

SCALE: NONE

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PROJECT INSPECTOR | JOB CAPTAIN | DRAWN BY | APPROVED

MEDICAL OFFICE BUILDING AND PARKING DECK
SLIDELL MEMORIAL HOSPITAL — SLIDELL, LA
HVAC Notes, Symbols and Schedules
TITLE

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