AIR HANDLING UNIT SCHEDULE

CODE (AHU)	AREA SERVED	LOCATION	MANUFACTURER/ MODEL NO.	SUPPLY FAN						PREHEATING CAP (HEATING WATER)				COOLING CAPACITY (CHILLED WATER)						REHEATING CAP (HEATING WATER)					FILTER			ELECTRICAL		AHU CONFIG	WEIGHT (lbs.)	REMARKS
				CFM	TYPE	TSP "W.C. (ALT.)	ESP "W.C. (ALT.)	HP	MIN. OAI (CFM)	EAT (F)	CAP MBH	GPM	WPD (FT)	APD "W.C.	EAT (F) DB	EAT (F) WB	TOTAL MBH	SENS MBH	GPM	WPD (FT)	APD "W.C.	EAT (F)	CAP MBH	GPM	WPD (FT)	APD "W.C.	TYPE	APD ("W.C) INITIAL	APD ("W.C) FINAL	VOLT	PH			
AC-SC-2	VAV UNIT	SUB-CELLAR	TRANE/BCHC008	3,150	VAV	2.45	1.5	5	1,300	–	–	–	–	–	86	71	165.3	108.7	35.8	10.4	0.59	43	205.8	21.6	13.3	0.14	ANGLED	0.54	0.54	200	3	HORZ.	1,907.5	
AC-SC-3	SUITE	SUB-CELLAR	TRANE/BCHC072	1650	CV	1.6	1	1	675	–	–	–	–	–	87	71	74.5	51.8	15.4	12.3	–	41	96.2	9.9	1.6	–	ANGLED	–	–	200	3	HORZ.	276.2	A
AC-C-1	DANCE/KARATE	CELLAR	TRANE/MCC8003	1,000	CV	2.17	1	1	450	–	–	–	–	–	87	71	63	41.9	13.7	4.4	0.47	38	70.7	7.4	7.4	0.08	ANGLED	0.51	0.51	200	3	HORZ.	1,483.7	A
AC-C-2	CORRIDOR	CELLAR	TRANE/BCHC018	475	CV	1.85	1	0.5	75	–	–	–	–	–	83	68	14.9	11.3	3.4	7.5	–	59	13.9	1.3	0.2	–	ANGLED	–	–	200	3	HORZ.	112.1	A
AC-C-3	BOY'S LOCKER	CELLAR	TRANE/MCC8003	775	CV	1.85	1	1	775	0	45.7	4.8	2.4	0.03	95	75	52.7	33.7	11.4	10.0	0.26	55	40.7	4.3	1.9	0.03	ANGLED	0.51	0.51	200	3	HORZ.	1,416.7	A
AC-C-4	GIRL'S LOCKER	CELLAR	TRANE/MCC8003	775	CV	1.88	1	1	775	0	45.7	4.8	2.4	0.03	95	75	52.7	33.7	11.4	10.0	0.26	55	40.7	4.3	1.9	0.03	ANGLED	0.51	0.51	200	3	HORZ.	1,416.7	A
AC-1-1	GREAT HALL	1ST FLOOR	TRANE/MCC8008	3,950	CV	2.73	1	5	850	–	–	–	–	–	84	68	163.4	124.7	35.4	10.2	0.81	55	104.2	10.9	1.0	0.08	ANGLED	0.56	0.56	200	3	HORZ.	1,893.3	A
AC-1-2	RECEPTION	1ST FLOOR	TRANE/BCHC036	1,400	CV	1.7	1	1	50	–	–	–	–	–	81	67	22.5	22.9	5.4	2.5	–	67	22.2	1.4	0.1	–	ANGLED	–	–	200	3	HORZ.	178.8	A
AC-1-3	2ND FL. VENT	1ST FLOOR	TRANE/MCC8003	1,150	CV	2.39	1	1.5	1,150	0	67.8	7.1	10.4	0.06	95	75	78.7	50.4	17.0	17.7	0.70	55	80.4	6.3	8.5	0.10	ANGLED	0.52	0.52	200	3	VERT.	1,027.2	
AC-2-1	CLASS RM 1	2ND FLOOR	TRANE/BCHC072	2,000	CV	1.24	0.5	1	0	–	–	–	–	–	78	68	72.8	45.5	17.0	14.7	–	–	–	–	–	–	ANGLED	–	–	200	3	HORZ.	250.2	A
AC-2-2	CLASS RM 2	2ND FLOOR	TRANE/BCHC072	1,600	CV	1.02	0.5	0.75	0	–	–	–	–	–	78	68	66.8	40	16.9	14.6	–	–	–	–	–	–	ANGLED	–	–	200	3	HORZ.	250.2	A
AC-2-3	CLASS RM 3	2ND FLOOR	TRANE/BCHC036	1,100	CV	1.2	0.5	0.5	0	–	–	–	–	–	78	68	47.3	27.6	13.9	18.3	–	–	–	–	–	–	ANGLED	–	–	200	3	HORZ.	178.6	A
AC-2-4	CLASS RM 4	2ND FLOOR	TRANE/BCHC018	525	CV	1.43	0.5	0.5	0	–	–	–	–	–	78	68	19.7	11.8	5.5	17.4	–	–	–	–	–	–	ANGLED	–	–	200	3	HORZ.	103.8	A
AC-2-5	CORRIDOR	2ND FLOOR	TRANE/BCHC012	300	CV	1.12	0.5	0.5	150	–	–	–	–	–	87	71	15.3	10	6.8	8.7	–	41	12.9	1.6	0.2	–	ANGLED	–	–	200	3	HORZ.	101.1	A
AC-2-6	OFFICE/ADMIN	2ND FLOOR	TRANE/BCHC072	1,950	CV	1.59	1	1	225	–	–	–	–	–	82	68	62.7	47.6	19.6	13.4	–	62	83.9	8.5	1.2	–	ANGLED	–	–	200	3	HORZ.	245.5	A

GENERAL NOTES
1. CHILLED WATER: EWT = 45 F, LWT = 55 F, 30% PROPYLENE GLYCOL, 0.0005 FOULING FACTOR.
2. HEATING WATER: EWT=180 F, LWT=160 F, 30% PROPYLENE GLYCOL, 0.0005 FOULING FACTOR.
3. PROVIDE DUCT SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR OF ALL UNITS 2000 CFM OR GREATER. RE: SPECIFICATIONS.
4. PROVIDE FREEZE STAT DOWNSTREAM OF HEATING COIL.
5. PROVIDE HIGH EFFICIENCY MOTORS (RELIANCE E+ OR EQUIVALENT)
6. INSTALL UNITS WITH ADEQUATE CLEARANCE FOR COIL PULL , FILTER REPLACEMENT AND TO FULLY OPEN ACCESS DOORS.
7. PROVIDE A COMPLETE SET OF FILTERS FOR ALL UNITS.

REMARKS
A. PROVIDE CONDENSATE PUMP AT UNIT AND PIPE TO NEAREST FLOOR DRAIN OR INDIRECT WASTE.

FAN SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	TYPE	CFM	ESP "W.C. (ALT.)	DRIVE	ELECTRICAL HP	VOLT	PH	CTRL	WEIGHT LBS.	REMARKS
RF-SC-1	GREENHECK/BDF-120	SUB-CELLAR	CEILING	CABINET	3,600	1	B	2	200	3		142	A
KX-SC-1	GREENHECK/ICB-9	COOKING CLASSROOM	CEILING	IN-LINE	400	0.75	B						A,B
F-SC-1	GREENHECK/BDF-90	COMBUSTION AIR	CEILING	CABINET	1,290	0.25	B	0.5	200	3		91	A,B
GX-SC-1	GREENHECK/BSQ-90	POOL EQUP. EXHAUST	CEILING	CABINET	500	0.75	B	0.33	115	1		71	A
GX-SC-2	GREENHECK/BDF-90	KILN EXHAUST	CEILING	CABINET	1,400	1	B	0.75	200	3		91	A
RF-C-1	GREENHECK/BDF-80	DANCE/KARATE	CEILING	CABINET	1,000	1	B	0.5	200	3		70	A
TX-C-1	GREENHECK/BDF-100	BATHROOM EXHAUST	CEILING	CABINET	1,800	1	B	1	200	3		108	A
RF-1-1	GREENHECK/BDF-80	GREAT HALL	CEILING	CABINET	850	0.5	B	0.33	200	3		106	A,B
RF-1-2	GREENHECK/BDF-80	2ND FLOOR EXHAUST	CEILING	CABINET	800	1	B	0.33	200	3		70	A
TX-1-1	GREENHECK/BCF-106	BATHROOM EXHAUST	CEILING	CABINET	300	0.75	B	0.25	115	1		80	A
RF-2-1	GREENHECK/BDF-100	OFFICE/ADMIN	CEILING	CABINET	1,900	0.75	B	0.75	200	3		70	A
TX-2-1	GREENHECK/BCF-108	BATHROOM EXHAUST	CEILING	CABINET	500	0.5	B	0.25	115	1		80	A

GENERAL NOTES
1. DRIVE TYPE: D=DIRECT-PROVIDE RHEOSTAT SPEED CONTROLLER IN FAN HOUSING UNLESS OTHERWISE NOTED.
B=BELT-PROVIDE ADJUSTABLE SHEAVE UNLESS OTHERWISE NOTED.
VFD=VARIABLE FREQUENCY DRIVE.
2. PROVIDE MAGNETIC STARTER WITH AUXILARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE UNITS EXCEPT WHEN SERVED FROM MOTOR CONTROL CENTER.
3. PROVIDE HIGH EFFICIENCY MOTORS (RELIANCE E+ OR EQUIVALENT)
4. INSTALL FAN WITH FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET AND WITH HANGING VIBRATION ISOLATORS.
5. PROVIDE BACKDRAFT DAMPERS ON ALL FANS EXCEPT KITCHEN EXHAUST.

REMARK NOTES
A. PROVIDE BELT AND MOTOR GUARD.
B. VARIABLE FREQUENCY DRIVE

VAV BOX SCHEDULE

CODE	UNIT NO.	AREA SERVED	MANUFACTURER/ MODEL NO.	DESIGN CFM	CAPACITY (CFM) MIN.	CAPACITY (CFM) MAX.	MAX. NC @ BOX MAX.	INLET SIZE	OUTLET SIZE	CONTROL TYPE	APD (IN.)	REMARKS
VAV-1	AC-SC-2	STUDIO OFFICES	TITUS / DESV 6	365	80	500	31	6	12 x 8	DIGITAL ELEC.	0.25	A,B
VAV-2	AC-SC-2	THEATRE RM	TITUS / DESV 10	1000	230	1400	31	10	14 x 12.5	DIGITAL ELEC.	0.25	A,B
VAV-3	AC-SC-2	CONTROL RM	TITUS / DESV 6	300	80	500	31	6	12 x 8	DIGITAL ELEC.	0.25	A,B
VAV-4	AC-SC-2	ART RM 1	TITUS / DESV 9	800	175	1050	26	9	14 x 12.5	DIGITAL ELEC.	0.25	A,B
VAV-5	AC-SC-2	ART RM 2	TITUS / DESV 9	760	175	1050	26	9	14 x 12.5	DIGITAL ELEC.	0.25	A,B
VAV-6	AC-SC-2	CLASS RM	TITUS / DESV 10	1000	230	1400	31	10	14 x 12.5	DIGITAL ELEC.	0.25	A,B

GENERAL NOTES
1. CONTROLS SHALL BE BY MANUFACTURER OR BY CONTROL MANUFACTURER AND INSTALLED AT THE FACTORY (SEE SPECIFICATIONS).
2. MOUNT WITH 5 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX.
4. MAXIMUM NC LEVELS ARE RADIATED SOUND DATA AND BASED ON THE MAXIMUM BOX CFM LISTED AND AT A PRESSURE DROP ACROSS THE BOX OF 1.0".
3. MAXIMUM INLET S.P.= 1.

REMARK NOTES
A. PROVIDE CONTROL TRANSFORMER FOR EACH VAV SUITABLE FOR 120 VOLT POWER SUPPLY.
B. PROVIDE SOUND ATTENUATOR DOWNSTREAM.

NATATORIUM A/C UNIT SCHEDULE

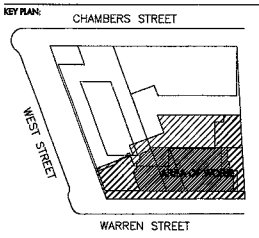
UNIT NO	EVAPORATOR: MANUFACTURER AND MODEL #	C.F.M.	MINIMUM OUTSIDE AIR C.F.M.	R.A.T.	SPACE REL. HUM.	SENSIBLE COOLING BTU/HR	SUPPLY FAN H.P.	RETURN FAN H.P.	SUPPLY FAN CFM	RETURN FAN CFM	VOLT/ PHASE	WEIGHT (LBS)	No. OF COMPR.	EVAPORATOR COIL: P.D./ROWS (MAXIMUM)	ROWS (MINIMUM)	FACE VEL. (F.P.M.) (MAXIMUM)	HEATING COIL: E.W.T.	L.W.T.	GPM	CAP. (BTU/HR)	No. OF ROWS	ELECTRIC: MCA	MOCP	MOISTURE REMOVAL: TOTAL AVERAGE EVAPORATION AND LATENT HEAT LOAD (LB/HR)	SUPPLEMENTAL COOLING COIL: EWB	EDB	LWB	LDB	CAP MBH	SENS CAP MBH	No. OF ROWS	REHEAT COND. CAP MBH	REMARKS
AC-SC-1	POOL PAK SVHP100-A05	7,613	2,665	88	60%	291,124	10	10	7,613	7,994	208/3	4,800	2	12/.5	8	500	180	160	30	280,000	2	186	225	141	73	88	57.45	58	46.5	240	6	364	1. PROVIDE COMPLETE SET OF FILTERS. 2. UNIT SHALL BE DELIVERED IN PIECES AS REQUIRED TO ALLOW FOR RIGGING TO FINAL LOCATION. 3. PROVIDE CONDENSATE PUMP AT UNIT AND PIPE TO NEAREST FLOOR DRAIN OR INDIRECT WASTE

NOTE:
1. PROVIDE ECONOMIZER SECTION.
2. HEAT TRANSFER RATINGS BASED ON 30% GLYCOL.
3. PROVIDE POOL WATER CONDENSER, 345 MBH CAPACITY, 40 GPM, 10 FT. WC PRESSURE DROP
4. PROVIDE AUXILIARY COOLING COIL OF CAPACITY INDICATED
5. PROVIDE COLD SURFACE TEMPERATURE SENSOR MOUNTED AS INDICATED IN POOL AREA.
6. OUTDOOR AND EXHAUST AIR DAMPERS SHALL BE FULLY MODULATING.

KEY NOTES:

GENERAL NOTES:
1. CONTRACTOR SHALL REFER TO EXISTING CONDITION (BASE BUILDING) DRAWINGS FOR LOCATION OF EXISTING UTILITY ROOMS, PIPING, CONDUIT, AND FOR ADDITIONAL INFORMATION.

KEY PLAN:



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ISSUES / REVISIONS:

NO.	DATE	ISSUE / REVISION	BY	CH
1	12.18.05	ISSUED FOR CLIENT REVIEW	GD	–
2	12.23.05	ISSUED FOR PRELIMINARY PRICING	GD	L.K.
3	02.22.06	ISSUED FOR PRELIMINARY PRICING	GD	L.K.
4	07.07.06	ISSUED FOR BID		
5	05.11.07	ISSUED FOR BID/CONSTRUCTION		

PLAN NORTH:

DRAWING SCALE: AS NOTED

PROJECT NUMBER: 02-2167-0100

SEAL:

DRAWING TITLE: MECHANICAL SCHEDULES

RECEIVED
MAY 18 2007
BP MECHANICAL CORP

DRAWING NUMBER: M-107