

EXISTING AIR HANDLING UNIT SCHEDULE										
TAG	LOCATION	TYPE	AIRFLOW				SF	RF	BASIS OF DESIGN	
			SUPPLY MINIMUM	SUPPLY MAXIMUM	OUTSIDE MIN	OUTSIDE MAX	SF QTY	RF QTY	MANUFACTURER	MODEL
(E) AHU-1	MECH ROOM	RECIRCULATING	5000 CFM	10000 CFM	500 CFM	2500 CFM	2	2	INGENIA	CUSTOM AHU

1. EXISTING AIR HANDLING UNIT AIRFLOW SETPOINTS HAVE BEEN REVISED TO MEET CURRENT AUDITORIUM DESIGN. (E) AHU-1 WILL REQUIRE A REVISED TAB AND COMMISSIONING TO MEET THE DESIGN AIRFLOW VALUES LISTED IN THIS SCHEDULE.

(E) AHU-1 COIL SCHEDULE																
TAG	TYPE	AIRFLOW [CFM]	TOTAL CAPACITY [MBH]	SENSIBLE CAPACITY [MBH]	MIN ROWS	MAX FINS PER INCH	EAT DB [°F]	EAT WB [°F]	AIRSIDE DATA				WATERSIDE DATA			
									LAT DB [°F]	LAT WB [°F]	MAX AIR PD [IN-WG]	EWT [°F]	LWT [°F]	FLOW [GPM]	WATER MAX PD [FT-H2O]	REMARKS
(E) AHU-1 CC	HYDRONIC	5000	307	199	10	12	85	70	49	49	1.60	44	60	38	17.50	DATA IS FOR ONE COIL; QTY OF COILS IS 2
(E) AHU-1 PHC	HYDRONIC	5000	16	16	1	7	47		53		0.10	130	100	2	1.00	DATA IS FOR ONE COIL; QTY OF COILS IS 2
(E) AHU-1 RHC	HYDRONIC	5000	130	130	2	10	49		72		0.25	130	100	9	1.00	DATA IS FOR ONE COIL; QTY OF COILS IS 2

1. EXISTING AIR HANDLING UNIT COIL PERFORMANCE HAS BEEN REVISED TO MEET CURRENT AUDITORIUM DESIGN. (E) AHU-1 WILL REQUIRE A REVISED TAB AND COMMISSIONING TO MEET THE DESIGN FLOW (GPM) VALUES AND AIRSIDE PERFORMANCE VALUES LISTED IN THIS SCHEDULE.

TAG	LOCATION	TYPE	AIRFLOW [CFM]				SF QTY	FILTER SECTIONS		BASIS OF DESIGN		REMARKS
			SUPPLY MINIMUM	SUPPLY MAXIMUM	MIN OUTSIDE AIR	MAX OUTSIDE AIR		PRE FILTER	FINAL FILTER	MANUFACTURER	MODEL	
AHU-2	GREEN RM MEZZ	RECIRCULATING	1500	5000	500	1600	2	MERV 8	MERV 13	INGENIA	CUSTOM AHU	

1. FANS SHALL BE SELECTED ASSUMING SCHEDULED FILTERS UNDER MEDIUM LOADING.

PUMP SCHEDULE										
TAG	LOCATION	TYPE	FLOW	DISCHARGE HEAD (FT-WG)	MOTOR DATA			BASIS OF DESIGN		REMARKS
					HP	VOLTAGE	PHASE	MANUFACTURER	MODEL	
CP-1	ELEC RM	CONDENSATE PUMP	2 GPM	5.00	0.025	120 V	1	LITTLE GIANT	VCL	
CP-2	DRESSING RM	CONDENSATE PUMP	2 GPM	5.00	0.025	120 V	1	LITTLE GIANT	VCL	
P-HC2-1	GREEN RM MEZZ	COIL CIRCULATOR	10 GPM	15.00	0.1	120 V	1	BELL & GOSSETT	ECO-CIRC	

AHU-2 FAN SCHEDULE																										
TAG	SYSTEM	LOCATION	TYPE	AIR CAPACITY			TSP	ESP	FAN RPM	VOLUME CONTROL	OCTAVE BANDS, MAX DUTY POINT, MAX PWL (DB RE 10'(-12)) W								MOTOR DATA				BASIS OF DESIGN		REMARKS	
				MIN	DESIGN	MAX					1 (63 HZ)	2 (125 HZ)	3 (250 HZ)	4 (500 HZ)	5 (1,000 HZ)	6 (2,000 HZ)	7 (4,000 HZ)	8 (8,000 HZ)	BHP	HP	MAX RPM	VOLTAGE	PHASE	MANUFACTURER		MODEL
AHU-2 RF-1	AHU-2	EXTERIOR TO UNIT	INLINE	1000 CFM	5000 CFM	5000 CFM	2.00 in-wg	2.00 in-wg	3500	VFD	83	87	94	91	87	85	81	77	63	5	3600	480 V	3	GREENHECK	AX	
AHU-2 SF-1	AHU-2	IN UNIT	PLENUM	1000 CFM	2500 CFM	5000 CFM	6.80 in-wg	3.00 in-wg	2392	VFD	51	73	76	81	83	79	75	68	4.24	10	3600	480 V	3	GREENHECK	APD	
AHU-2 SF-2	AHU-2	IN UNIT	PLENUM	1000 CFM	2500 CFM	5000 CFM	6.80 in-wg	3.00 in-wg	2392	VFD	51	73	76	81	83	79	75	68	4.24	10	3600	480 V	3	GREENHECK	APD	

1. PROVIDE ALL FAN WITH BACKDRAFT DAMPER
2. AHU-2 SF 1&2 SHALL BE SELECTED SUCH THAT EACH FAN IS CAPABLE OF THE MAXIMUM AND DESIGN AIRFLOWS AT THE SCHEDULED ESP. (N+1 OPERATION)

VOLUME CONTROL BOX SCHEDULE																							
TAG	LOCATION OF EQUIPMENT	LOCATION SERVED	TYPE	INLET SIZE	OUTLET SIZE	AIRSIDE DATA				REHEAT COIL DATA				NOISE DATA				BASIS OF DESIGN		REMARKS			
						MIN AIRFLOW	MAX AIRFLOW	MAX AIR PD	MIN INLET SP	HEATING AIRFLOW	EAT	LAT	EWT	LWT	FLOW	RADIATED SOUND (NC)	DISCHARGE SOUND (NC)	RER	MODEL				
VAV-1	GREEN RM MEZZANINE	GREEN ROOM	SINGLE DUCT WITH REHEAT	6	12x8	100 CFM	400 CFM	0.50 in-wg	0.25 in-wg	300 CFM	50 °F	85 °F	130 °F	100 °F	0.5 GPM		30	27	TITUS	DESV			
VAV-2	EAST AMBULATORY	STAGE	SINGLE DUCT WITH REHEAT	14	20x18	525 CFM	1700 CFM	0.50 in-wg	0.25 in-wg	1700 CFM	50 °F	75 °F	130 °F	100 °F	3.0 GPM	27	25	TITUS	DESV				
VAV-3	EAST AMBULATORY	AMBULATORIES	SINGLE DUCT WITH REHEAT	14	15x16	525 CFM	2800 CFM	0.50 in-wg	0.25 in-wg	2800 CFM	50 °F	75 °F	130 °F	100 °F	3.0 GPM	30	25	TITUS	DESV				
VAV-4	BACK OF HOUSE CORRIDOR	BACK OF HOUSE CORRIDOR	SINGLE DUCT WITH REHEAT	8	10x12	150 CFM	400 CFM	0.50 in-wg	0.25 in-wg	400 CFM	50 °F	100 °F	130 °F	100 °F	1.5 GPM	25	30	TITUS	DESV				
VAV-5	BACK OF HOUSE CORRIDOR	DRESSING ROOM	SINGLE DUCT WITH REHEAT	6	10x12	80 CFM	150 CFM	0.50 in-wg	0.25 in-wg	150 CFM	50 °F	75 °F	130 °F	100 °F	0.5 GPM	25	25	TITUS	DESV				

FAN COIL UNIT SCHEDULE

TAG	LOCATION	TYPE	AIRSIDE DATA		MOTOR DATA			COOLING COIL DATA								HEATING COIL DATA				BASIS OF DESIGN		REMARKS					
			AIRFLOW	VOLUME CONTROL	ESP	HP	VOLTAGE	PHASE	TOTAL CAPACITY	SENSIBLE CAPACITY	EAT DB	EAT WB	LAT WB	LAT WB	EWT	LWT	FLOW	MAX PD	EAT	LAT	EWT		LWT	FLOW	MAX PD	MANUFACTURER	MODEL
FCU-1	DRESSING RM	HORIZONTAL RECESSED	400 CFM	ECM	0.50 in-wg	0.25	277 V	1	12400 BTU	9100 Btu/h	76 °F	65 °F	55 °F	55 °F	44 °F	56 °F	2.1	0.77	70 °F	85 °F	130 °F	100 °F	0.5 GPM	5 FT-WG	DAIKIN	FCHR	

1. PROVIDE WITH BACKDRAFT DAMPER
2. PROVIDE AND INSTALL WITH VIBRATION ISOLATION

FIN TUBE RADIATION SCHEDULE										
TAG	MOUNTING	TYPE	HEIGHT [INCHES]	LENGTH [INCHES]	CAPACITY / FT [BTU/HR]	FLOW [GPM]	AVERAGE WATER/STEAM TEMPERATURE [°F]	BASIS OF DESIGN		REMARKS
								MANUFACTURER	MODEL	
FT-1	WALL MOUNTED	DOUBLE FINNED PANEL RADIANT/CONVECTIVE	6.0	94	600	1.00	120	RUNTAL	R2-F	
FT-2	WALL MOUNTED	DOUBLE FINNED PANEL RADIANT/CONVECTIVE	6.0	94	600	1.00	120	RUNTAL	R2-F	

NOTES:
1. PROVIDE ALL SUPPORTS AND MOUNTING HARDWARE FROM FINNED TUBE MANUFACTURER.
2. COORDINATE COLOR OF FTR AND ALL HARDARE/FASTENERS WITH ARCHITECTURE

BLOWER COIL UNIT SCHEDULE

TAG	LOCATION	TYPE	AIRSIDE DATA		MOTOR DATA			COOLING COIL DATA								OPERATING WEIGHT	BASIS OF DESIGN		REMARKS	
			AIRFLOW	ESP	HP	VOLTAGE	PHASE	TOTAL CAPACITY	EAT DB	EAT WB	LAT DB	LAT WB	EWT	LWT	FLOW		MAX PD	MANUFACTURER		MODEL
BCU-1	ELEC RM	HORIZONTAL EXPOSED	1500 CFM	0.50 in-wg	0.5	277 V	1	57600 Btu/h	80° F	67° F	55° F	55° F	44° F	60° F	7 GPM	10 FT-WG	600 lb	DAIKIN	BCHD	

1. PROVIDE AND INSTALL WITH VIBRATION ISOLATION

FAN SCHEDULE

TAG	SYSTEM	LOCATION	TYPE	AIR CAPACITY		ESP	FAN RPM	VOLUME CONTROL	BHP	HP	MOTOR DATA		PHASE	BASIS OF DESIGN		REMARKS
				DESIGN	MAX						MAX RPM	VOLTAGE		MANUFACTURER	MODEL	
EF-1	TOILET/DRESSING RM EXHAUST	TOILET RM CEILING	INLINE	250 CFM	500 CFM	1.25 in-wg	1885	ECM	.25	1	2200	480 V	1	GREENHECK	APD	

1. PROVIDE FAN WITH BACKDRAFT DAMPER
2. PROVIDE AND INSTALL WITH VIBRATION ISOLATION

DUCT SILENCER SCHEDULE

TAG	SYSTEM	TYPE	DIMENSIONS					AIRFLOW [CFM]	MAX DP [IN-WG]	MAX DP W/ SYS EFF [IN-WG]	MINIMUM DYNAMIC INSERTION LOSS PER OCTAVE BAND FREQUENCY [dB]								MANUFACTURER	MODEL	REMARKS
			DUCT WIDTH [IN]	OUTER WIDTH [IN]	DUCT HEIGHT [IN]	OUTER HEIGHT [IN]	LENGTH [IN]				63	125	250	500	1000	2000	4000	8000			
SA-1R	AHU-1	EXRNM	42	44	42	44	60	10000	0.10	0.15	11	8	17	18	12	11	9	8	VIBRO ACOUSTICS	EX-RNM-HV-F3	
SA-1S	AHU-1	EXRNM	60	63	60	63	60	10000	0.10	0.15	7	7	15	16	12	11	8	8	VIBRO ACOUSTICS	EX-RNM-HV-F3	
SA-2R	AHU-2	EXRNM	24	25	24	25	36	5000	0.10	0.15	6	5	12	15	10	9	7	6	VIBRO ACOUSTICS	EX-RNM-HV-F3	
SA-2S	AHU-2	EXRNM	24	25	24	25	36	5000	0.10	0.15	2	4	10	14	9	8	7	5	VIBRO ACOUSTICS	EX-RNM-HV-F3	

NOTES:
1. TYPE: EX - EXTENDED CASING
RE - RECTANGULAR ELBOW
NM - NO MEDIA
M - MEDIA
R - RECTANGULAR
2. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-13 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
3. PRESSURE DROP PER ASTM E477-13 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
4. MAXIMUM SELF GENERATED NOISE DETERMINED PER ASTM E477-13 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
5. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT:
A) THE RESULTANT DUCTBORNE FAN SOUNT LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA
B) THE RESULTANT DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	TYPE	MINIMUM AIRFLOW [CFM]	MAXIMUM AIRFLOW [CFM]	NECK SIZE	LENGTH [FT]	LINEAR DIFFUSER DATA		FACE SIZE	MAX PD [IN-W,G]	MAX NC	BASIS OF DESIGN		REMARKS
						SLOT QUANTITY	SLOT WIDTH [IN]				MANUFACTURER	MODEL	
S1-1	SQUARE PLAQUE	50	195	6	-	-	-	24X24	0.06	22	PRICE	SPD	SEE NOTE 2
S1-2		196	315	8	-	-	-		0.06	22			
S2-1	LINEAR SLOT SUPPLY	0	150	10	4	2	1	-	0.05	22	PRICE	TBD	SEE NOTE 1
S3-1	SUPPLY GRILLE	0	500	40x10	-	-	-	42x12	0.04	22	PRICE	LBMH	
S4-1	ROUND PLAQUE	0	200	6	-	-	-	14	0.06	22	PRICE	RPD	SEE NOTE 2, 6
S4-2	ROUND PLAQUE	0	450	8	-	-	-	18	0.06	22	PRICE	RPD	SEE NOTE 2, 6
S5-1	MODULAR FLOOR DIFFUSER	0	30	-	-	-	-	-	0.06	22	PRICE	MFD-DP	SEE NOTE 4
S6-1	FLOOR GRILLE	0	1000	VARIES	VARIES	-	-	6	0.06	22	PRICE	LBMH	SEE NOTE 5
S7-5	LOUVERED SUPPLY, ROUND	0	450	14	-	-	-	16	0.06	22	PRICE	RSQ	
R1-1	CEILING RETURN	-	-	12	-	-	-	24x24	0.08	22	PRICE	PDR	
R2-1	LINEAR SLOT RETURN	-	-	-	4	2	1	-	-	-	PRICE	TBD	SEE NOTE 3
E1-1	EXHAUST GRILLE	-	100	6	-	-	-	12x12	0.04	22	PRICE	LBMH	GRILLE SIZE SHALL MATCH TRANSFER DUCT CONNECTION SIZE
E2-1	EXHAUST GRILLE	0	100	6x6	-	-	-	6x6	.05	30	PRICE	600	