

### DIFFUSER / GRILLE AND REGISTER SCHEDULE

TAG	DESCRIPTION	NECK SIZE	MAX CFM	SP IN WC	THROW FT	NC	TYPE	MODEL	MOUNTING	NOTES
SD-1	SUPPLY AIR DIFFUSER	14" dia	535	0.041	4-6-12	<15	SQUARE CONE	SCD	LAY-IN	1, 2
SD-2	SUPPLY AIR DIFFUSER	10" dia	270	0.030	3-4-8	<15	SQUARE CONE	SCD	LAY-IN	1, 2
SD-3	SUPPLY AIR DIFFUSER	6" x 6"	100	0.065	5-8-15	<15	4-WAY	SMD TYPE 1-4A	SURFACE	1, 2
SD-4	SUPPLY AIR DIFFUSER	9" x 9"	225	0.065	8-12-18	<15	4-WAY	SMD TYPE 1-4A	SURFACE	1, 2
SD-5	SUPPLY AIR DIFFUSER	15" x 15"	475	0.036	10-15-21	<15	4-WAY	SMD TYPE 3P-4A	LAY-IN	1, 2
SD-6	SUPPLY AIR DIFFUSER	18" x 18"	675	0.036	12-17-24	<15	4-WAY	SMD TYPE 3P-4A	LAY-IN	1, 2
SG-1	SUPPLY AIR GRILLE	18" x 6"	300	0.045	11-16-25	<15	DBL. DEFLECTION	520-L	SURFACE	1, 2
SG-2	SUPPLY AIR GRILLE	24" x 16"	750	0.016	12-20-39	<15	DBL. DEFLECTION	520-L	SURFACE	1, 2
LD-1	LINEAR SLOT DIFFUSER	-	65 / LF	0.016	6-11-22	<15	(4) 1" SLOTS	SDS	LAY-IN	1, 3
RG-1	RETURN GRILLE	36"X20"	1900	0.044	-	22	45 DEG DEFLECTION	530-L	SURFACE	1, 2
RG-2	RETURN GRILLE	12" x 12"	350	0.041	-	<15	45 DEG DEFLECTION	630-F	SURFACE	1, 2
RG-3	RETURN GRILLE	16" x 16"	600	0.041	-	<15	45 DEG DEFLECTION	630-3P	LAY-IN	1, 2
RG-4	RETURN GRILLE	22" x 22"	1000	0.034	-	<15	45 DEG DEFLECTION	630-TB	LAY-IN	1, 2
RG-5	RETURN GRILLE	22" x 8"	500	0.035	-	<22	0 DEG DEFLECTION	510-Z	SURFACE	1, 2
RG-6	RETURN GRILLE	22" x 22"	1620	0.035	-	<22	0 DEG DEFLECTION	510-Z	LAY-IN	1, 2
EG-1	EXHAUST AIR GRILLE	8" x 8"	150	-	-	<15	45 DEG DEFLECTION	630-F	SURFACE	1, 2
EG-2	EXHAUST AIR GRILLE	12" x 12"	350	0.041	-	<15	45 DEG DEFLECTION	630-F	SURFACE	1, 2
EG-3	EXHAUST AIR GRILLE	16" x 16"	650	0.042	-	<15	45 DEG DEFLECTION	630-3P	LAY-IN	1, 2
TG-1	TRANSFER GRILLE	12" x 12"	300	0.041	-	<15	45 DEG DEFLECTION	630-F	SURFACE	1, 2
TG-2	TRANSFER GRILLE	12" x 24"	600	0.023	-	<15	45 DEG DEFLECTION	630-L	SURFACE	1, 2

- DIFFUSER / GRILLE SCHEDULE NOTES:**  
 1. BASED ON PRICE  
 2. PROVIDE WHITE FINISH  
 3. REFER TO DUCTWORK PLANS FOR LENGTHS AND INLETS

### BOILER SCHEDULE

TAG	MODEL	NATURAL GAS INPUT MBH	AFUE EFFICIENCY %	VENT AIR CONNECTION INCHES	COMB AIR CONNECTION INCHES	ELECTRICAL			NOTES
						MOCOP	VOLT	PHASE	
B-1	VITODENS 200-W B2HA	285	95	3	3	15	115	1	1, 2, 3, 4, 5
B-2	VITODENS 200-W B2HA	285	95	3	3	15	115	1	1, 2, 3, 4, 5

- BOILER SCHEDULE NOTES:**  
 1. BASED ON VIESSMANN  
 2. PROVIDE VERTICAL DIRECT VENT, SEALED COMBUSTION  
 3. CONDENSATE NEUTRALIZATION KIT  
 4. PROVIDE POLYPROPYLENE COMBUSTION / VENT AIR PIPING AND CONCENTRIC VENT  
 5. BOILER INJECTION PUMP POWERED BY FACTORY BOILER CONTROLLER  
 6. HOT WATER LOOP PUMP ENABLED BY FACTORY BOILER CONTROLLER, POWERED BY DIVISION 26.

### PUMP SCHEDULE

TAG	SERVES	MODEL	TYPE	FLOW GPM	HEAD FT	RPM	ELECTRICAL			NOTES
							HP	VOLT	PHASE	
P-1	HOT WATER LOOP	VR15-1	INLINE	35	25	-	0.68	208	1	1, 2
P-2	HOT WATER LOOP	VR15-1	INLINE	35	25	-	0.68	208	1	1, 2
P-3	B-1 INJECTION	007-F5	INLINE	7.0	4.0	3250	1/25	115	1	1, 3
P-4	B-2 INJECTION	007-F5	INLINE	7.0	4.0	3250	1/25	115	1	1, 3

- PUMP SCHEDULE NOTES:**  
 1. BASED ON TACO  
 2. PROVIDE ECM MOTOR W/ INTEGRAL VARIABLE FREQUENCY DRIVE  
 3. BASED ON 30 DEG F DELTA T THRU BOILER.

### MINI-SPLIT SYSTEM AC SCHEDULE

INDOOR EVAPORATOR UNIT									
TAG	COOLING CAPACITY BTU/HR	AIRFLOW CFM	ELECTRICAL		REFG. PIPE CONN.		WEIGHT	MODEL	SERVES
			VOLTS	AMPS	LIQUID	SUCTION			
EVU-1	9,000	381	208/1	0.3	1/4"	3/8"	20	FTXS09LVJU	IT 104

OUTDOOR CONDENSING UNIT									
TAG	COOLING CAPACITY BTU/HR	SEER	REFG.	ELECTRICAL			WEIGHT	MODEL	NOTES
				VOLTS	MCA	MFS			
ACCU-1	9,000	24.5	R-410A	208/1	8.0	15.0	75	RXS09LVJU	1, 2, 3, 4

- MINI-SPLIT SYSTEM AC SCHEDULE NOTES:**  
 1. BASED ON DAIKIN  
 2. PROVIDE LOW AMBIENT OPERATION DOWN TO 0 °F.  
 3. PROVIDE FACTORY INSTALLED CONDENSATE LIFT PUMP  
 4. PROVIDE WIRED, ZONE WALL MOUNTED THERMOSTAT

### ROOFTOP AIR HANDLING UNIT SCHEDULE

TAG	SERVES	TONS	CFM	MIN OUTSIDE AIR CFM	TSP	ESP	BHP	HP	TYPE	RPM
RTU-1	EXISTING SPORTS BAR	5	1,990	400	-	0.5	600 W	1	FC	966
RTU-2	EXISTING 1ST FLOOR CLUB	5	1,990	400	-	0.5	600 W	1	FC	966
RTU-3	EXISTING BASEMENT	5	1,870	400	-	1	680 W	1	FC	1080
RTU-4	GREEN ROOM	3	700	300	-	0.8	170 W	0.5	FC	940
RTU-5	BASEMENT OFFICE	3	700	200	-	0.8	170 W	0.5	FC	940
RTU-6	BASEMENT PREFUNCTION	5	1,870	400	-	1	680 W	1	FC	1080
RTU-7	EVENT SPACE	35	13,000 (VAV)	2,600	3.1	1.5	14	15	FC	1037

#### DX COOLING COIL

TAG	AREA	ROWS	FPI	EAT °F	LAT °F	REFG.	EER	# CIRCUITS	NET TMBH	NET SMBH	AMBIENT TEMP
RTU-1	9.7	4	14	80 / 67	56	R-410A	12.7	1	63.2	46.8	95
RTU-2	9.7	4	14	80 / 67	56	R-410A	12.7	1	63.2	46.8	95
RTU-3	9.7	4	14	80 / 67	56	R-410A	12.7	1	60.2	40.9	95
RTU-4	7.8	3	14	80 / 67	56	R-410A	12.7	1	23.5	16.5	95
RTU-5	9.7	3	14	80 / 67	56	R-410A	12.7	1	23.5	16.5	95
RTU-6	9.7	4	14	80 / 67	56	R-410A	12.7	1	60.2	40.9	95
RTU-7	37.4	4	14	80 / 67	56	R-410A	10.8	4	399.6	282.7	95

#### GAS HEATING SECTION

TAG	MIN IN MBH	MAX IN MBH	MIN OUT MBH	MAX OUT MBH	FUEL	AFUE %	GAS CONN.	REC'D GAS PRESS.	HEAT EXCH MAT.	BURNER TYPE	BURNER SIZE	CAPACITY CONTROL
RTU-1	113	150	92	121	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-2	113	150	92	121	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-3	113	150	92	121	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-4	81	108	66	87	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-5	81	108	66	87	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-6	113	150	92	121	NAT. GAS	81	1/2	7 IN.WC.	SS	INDIRECT	HIGH	2-STAGE
RTU-7	125	500	100	400	NAT. GAS	80	1-1/4	7 IN.WC.	SS	INDIRECT	HIGH	MODULATING

#### ELECTRICAL

UNIT	POWER	SUPPLY FAN FLA	COND FAN FLA	COMPRESSORS		MCA	MOCOP	FILTERS	MODEL	WEIGHT	NOTES
				QTY	RLA (TOTAL)						
RTU-1	208V / 3PH	7.4	4.1	1	16.5	35	50	2" MERV 13	LGH0604HE	870	1,2,3,4,10,11,12,13,14,15,17
RTU-2	208V / 3PH	7.4	4.1	1	16.5	35	50	2" MERV 13	LGH0604HE	870	1,3,4,10,11,12,13,14,15,17
RTU-3	208V / 3PH	7.4	4.1	1	16.5	35	50	2" MERV 13	LGH0604HE	870	1,3,4,10,11,12,13,14,15,17
RTU-4	208V / 1PH	4.3	4.1	1	15.3	30	45	2" MERV 13	LGH036HE	740	1,3,4,10,11,12,13,14,16,17
RTU-5	208V / 1PH	4.3	4.1	1	15.3	30	45	2" MERV 13	LGH036HE	740	1,3,4,10,11,12,13,14,16,17
RTU-6	208V / 3PH	7.4	4.1	1	16.5	35	50	2" MERV 13	LGH0604HE	870	1,3,4,10,11,12,13,14,15,17
RTU-7	208V / 3PH	48.2	28.8	4	118	229	250	4" MERV 13	LGH420H4V	8,450	1,3,4,5,6,7,8,9,10,11,12,17

- ROOFTOP AIR HANDLING UNIT SCHEDULE NOTES:**  
 1. BASED ON LENNOX EMERGENCE  
 2. PROVIDE ADAPTER CURB TO ALLOW UNIT TO BE MOUNTED ON EXISTING ROOF CURB (FIELD VERIFY ARRANGEMENT OF EXISTING CURB)  
 3. PROVIDE SPRING ISOLATION CURB WITH 2-INCH STATIC SPRING DEFLECTION  
 4. PROVIDE FACTORY INSTALLED ECONOMIZER WITH MOTORIZED OUTDOOR AIR AND MIXING DAMPERS  
 5. PROVIDE FACTORY INSTALLED 100% POWER EXHAUST  
 6. PROVIDE FACTORY INSTALLED SPRING ISOLATION FOR FANS AND COMPRESSORS  
 7. PROVIDE DOUBLE WALL CONSTRUCTION  
 8. PROVIDE HINGED LOUVERED PANELS FOR CONDENSER SECTION  
 9. PROVIDE FACTORY INSTALLED SUPPLY AND RETURN SMOKE DETECTORS  
 10. PROVIDE FACTORY INSTALLED STAINLESS STEEL DRAIN PANS  
 11. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH  
 12. PROVIDE FLUE INTAKE AND EXHAUST EXTENSIONS  
 13. PROVIDE MULTI-SPEED DIRECT DRIVE ECM MOTOR SUPPLY FAN  
 14. PROVIDE MULTI-SPEED DIRECT DRIVE ECM MOTOR CONDENSER FANS  
 15. RTU-1, 2, 3, 6 SCHEDULED PERFORMANCE BASED ON 70% TOTAL MOTOR TORQUE  
 16. RTU-4,5 SCHEDULED PERFORMANCE BASED ON 40% TOTAL MOTOR TORQUE  
 17. PROVIDE COMFORTSENSE 7500 CONTROLLER

### DUCT SILENCER SCHEDULE

TAG	SERVES	CFM	TYPE	MODEL	SIZE			MAX ADP IN-WC	VELOCITY FPM	AIRFLOW DIRECTION	MINIMUM DYNAMIC INSERTION LOSS (dB)							NOTES
					WIDTH IN	HEIGHT IN	LENGTH IN				63 HZ	125 HZ	250 HZ	500 HZ	1K HZ	2K HZ	4K HZ	
DS-7-S1	RTU-7 SUPPLY (1/2)	6,500	ELBOW	ERM48/9C	30	24	39	0.24	1,400	FORWARD	7	8	10	13	15	12	10	1, 2, 3, 4
DS-7-S2	RTU-7 SUPPLY (1/2)	6,500	ELBOW	ERM48/9C	30	24	39	0.24	1,400	FORWARD	7	8	10	13	15	12	10	1, 2, 3, 4
DS-7-R1	RTU-7 RETURN (1/2)	5,500	ELBOW	ERM48/9D	30	24	39	0.26	1,100	REVERSE	10	12	14	15	15	12	10	1, 2, 3, 4
DS-7-R2	RTU-7 RETURN (1/2)	5,500	ELBOW	ERM48/9D	30	24	39	0.26	1,100	REVERSE	10	12	14	15	15	12	10	1, 2, 3, 4

- DUCT SILENCER SCHEDULE NOTES:**  
 1. BASED ON PRICE  
 2. 18-GAUGE CASING, 22-GAUGE PERFORATED LINER  
 3. REFER TO DRAWINGS FOR QUANTITY AND LOCATIONS  
 4. SCHEDULED SILENCER MINIMUM DYNAMIC INSERTION LOSS BASED ON SCHEDULED ROOFTOP AIR HANDLER SOUND DATA

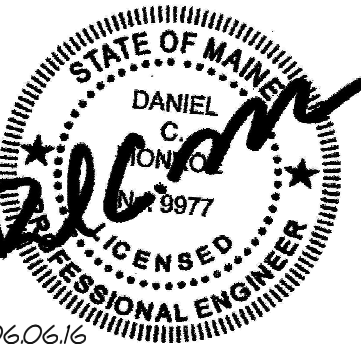
### ROOFTOP AIR HANDLING UNIT SOUND DATA SCHEDULE

TAG	SERVES	SOUND POWER LEVEL (dB)								
		63 HZ	125 HZ	250 HZ	500 HZ	1K HZ	2K HZ	4K HZ	8K HZ	
RTU-7	EVENT SPACE	RADIATED	94	87	86	86	84	82	78	72
		DISCHARGE	90	80	80	84	81	79	75	69
		RETURN	91	79	76	79	77	75	73	69

- ROOFTOP AIR HANDLING UNIT SOUND DATA SCHEDULE NOTES:**  
 1. BASED ON SCHEDULED ROOFTOP AIR HANDLER MANUFACTURER AND MODEL

0	ISSUED FOR BID	06 JUNE 2016
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REV.	DESCRIPTION	DATE



### ASYLUM

### MECHANICAL SCHEDULES

SHEET TITLE:	MECHANICAL SCHEDULES
WBRC CAD FILE:	407110 - ASYLUM DANCE CLUB - MECH.RVT
PROJECT No.:	4071.10
SCALE:	GRAPHIC SCALE: 0" = 1"
PROJECT MANAGER:	JRB
DRAWN BY:	CGB
CHECKED BY:	DMON
SHEET No.:	M-601