FANS

MARK	SERVICE/LOCATION	CFM	TSP	FAN TYPE	WHEEL TYPE	WHEEL DIA.	MAX RPM	MOTOR HP	ELEC V / ø	OPER WEIGHT	MODEL	NOTE(S)
REF69A-1	TOILETS/ROOF 69A	450	.5	ROOF/D	CENT	8	1400	1/8	120/1	60	VEDK 08	1, 2
REF69A-2	BREAK RMS/ROOF 69A	200	.5	ROOF/D	CENT	6	1000	1/8	120/1	60	VEDK 06	1, 2
EF69A-3	ELEC. RM / BSMNT	800	.25	INLN/D	PROP	12	1500	1/6	120/1	50	LYDK 12K2	1, 2
EF69-1	TOILETS/ATTIC	1350	.63	INLN/D	CENT	15	1025	1/3	120/1	100	VIDK 15	1, 2
EF69-4	BREAK RMS/ATTIC	300	.5	INLN/D	CENT	-	1050	230W	120/1	-	VCDB 045	1, 2
RAF69-5	AHU 69-5/GRND STORAGE	2775	.5	INLN/D	CENT	18	1000	15bW	480/3	100	VIBK 18	1, 2
RAF69-6	AHU 69-6/GRND JANITORS	1015	.38	INLN/D	CENT	10	1500	1/2	480/3	100	VIDK 10	1, 2
EF69-7	ELEV MACHINE RM	60	.25	CEIL/D	CENT	-	1500	35W	120/1	-	VCDB 008	1, 2
EF69-8	GRND FLR JANITORS CLOSET	60	.25	CEIL/D	CENT	-	1500	35W	120/1	-	VCDB 008	1, 2
EF69-9	ELEC. RM. / LOWER LEVEL	800	.38	INLN/D	CENT	10	1200	1/3	120/1	80	VIDK 10	1, 2
EF 70-1	ELEV. MACH. RM. / BLDG 70	300	.5	CEIL/D	CENT	-	1100	420W	120/1	-	VCDB 075	1,2
REF 70-2	TOILETS / BLDG 70	1200	.5	ROOF	CENT	10	1500	1/2	480/3	75	VEDK 10	1,2
REF 70-3	MECH. RM. / 1ST FLR.	800	.25	PNL/D	PROP	12	1200	1/3	120/1	50	LYDK 12K2	1
EF71-1	TOILETS/ATTIC	1350	.63	UTILITY	CENT	15	1025	1/3	120/1	100	VIDK 15	1, 2
EF71-2	JANITORS CLOS./ATTIC	120	.38	INLN/D	CENT	-	1575	150W	120/1	-	VCDB 030	1, 2
EF71-3	BREAK RMS	300	.5	INLN/D	CENT	-	1050	230W	120/1	-	VCDB 045	1, 2
EF71-4	ELEC. RM. EXH./1ST FLOOR	980	.25	PNL/D	PROP	14	1200	1/2	480/3	50	LYDK 14P2	1
EF72-1	WOMANS TOILETS, SHOWERS	175	.38	INLN/D	CENT	-	1575	150W	120/1	-	VCDB 030	1, 2
EF72-2	MENS TOILETS, SHOWRRS	250	.38	INLN/D	CENT	-	1100	230W	120/1	-	VCDB 045	1, 2
EF72-3	WORK ROOM, WORKOUT	200	.25	CEIL/D	CENT	-	1600	150W	120/1	-	VCDB 030	1, 2
EF72-4	ELECTRICAL ROOM	800	.25	PNL/D	PROP	12	1500	1/6	120/1	-	LYDK 12K2	1.
EF72-5	NORTH TOILETS	775	.38	INLN/D	CENT	-	1050	350W	120/1	-	VCDB 095	1, 2
RAF72-6	AHU72-2 / GRND MECH	830	.50	INLN/D	CENT	10	1300	1/2	480/3	85	VIDK 10	1, 2
RAF72-7	AHU72-3 / GRND MECH	1000	.50	INLN/D	CENT	10	1500	1/2	480/3	85	VIDK 10	1, 2
EF72-8	PRIV.TOILET/ ATTIC	75	.38	INLN/D	CENT	-	1000	110W	120/1	85	VCDB 015	1, 2
EF72-9	BREAK RMS, CONF./ATTIC	200	.35	INLN/D	CENT	-	1575	150W	120/1	-	VCDB 030	1, 2
EF 73-1	KIT. TOILET / BLDG 73	75	.38	CEIL/D	CENT	-	1325	60W	120/1	-	VCDB 010	1,2
REF 73-2	KITCHEN HOOD / BLDG 73	1600	1.5	ROOF/B	CENT	15	1450	1 1/2	480/3	130	VRBK 15	1,3
EF 73-3	BREAK ROOM / 2ND FLR	100	.25	CEIL/D	CENT	-	1625	110W	120/1	-	VCDB 015	1,2,4
EF 73-4	BREAK ROOM / 3RD FLR	100	.25	CEIL/D	CENT	-	1625	110W	120/1	-	VCDB 015	1,2,4
REF 73-5	TOILETS/ROOF	1350	.5	ROOF/D	CENT	12	1500	1/2	480/3	70	VEDK 12	1,2
REF 73-6	ELEV MACHINE RM/ ROOF	830	.5	ROOF/D	CENT	10	1200	1/4	120/1	85	VEDK 10	1,2
REF 73-7	M.E.R. VENT.	3500	.125	PNL/D	PROP	21	1000	1/2	480/3	100	LYDK 21P3	1,5

1. BASED ON CARNES
2. PROVIDE VARIABLE SPEED SWITCH AT FAN FOR BALANCING
3. SHALL MEET NFPA 96 REQUIREMENTS FOR GREASE LADEN AIR, PROVIDE EXTENDED CURB WITHOUT DAMPER
4. PROVIDE VXCAB 245 EXTTRUDED ALUM. BRICK VENT.
5. PROVIDE WALL COLLAR, MENA 1 DISC. ALL ALUMINUM CONSTRUCTION.

COMPUTER ROOM UNITS

MARK	SERV/LOCATION	AIR CAPACITY TOTAL	AIR CAPACITY ESP	AIR CAPACITY FAN HP	SYSTEM CAPACITY TOT. MBH	SYSTEM CAPACITY SEN MBH	REHEAT KW	REHEAT STGS.	HUMIDIFIER #/HR	HUMIDIFIER KW	ELECTRICAL CHAR. V / ø	ELECTRICAL CHAR. FLA	ELECTRICAL CHAR. OPD	OPER. WEIGHT	MODEL	NOTE(S)
AC-1	SERVER ROOM	2300	.3	1.0	39.8	37.6	9	2	11	4.8	460/3	20.4	25	600	BF042A	1
AC-2	COMP. RM. (SM)	3000	.3	2.0	59.9	53.0	15	2	11	4.8	460/3	33.1	45	650	BF067A	1
AC-3	COMP. RM. (LG)	3000	.3	2.0	59.9	53.0	15	2	11	4.8	460/3	33.1	45	650	BF067A	1
AC-4	COMP. RM. (LG)	3000	.3	2.0	59.9	53.0	15	2	11	4.8	460/3	33.1	45	650	BF067A	1

1. BASED ON LIEBERT, WITH INFARED HUMIDIFIER

AIR COOLED CONDENSER UNITS

MARK	SERVICE/LOCATION	CAP. MBH	ELECTRICAL CHARACTERISTICS V / ø	HP	FLA	OPD	OPER WEIGHT	MODEL	NOTE(S)
CU 1	AC-1 / AT GRADE	39.8	480/3	3/4	2.4	15	300	CSL-083L	1
CU 2	AC-2 / AT GRADE	59.9	480/3	3/4	2.4	15	300	CSL-083L	1
CU 3	AC-3 / AT GRADE	59.9	480/3	3/4	2.4	15	300	CSL-083L	1
CU 4	AC-4 / AT GRADE	59.9	480/3	3/4	2.4	15	300	CSL-083L	1

1. BASED ON LIEBERT, 95°F AMBIENT GROSS. PROVIDE FAN SPEED CONTROL FOR MIN. 0°F AMB. OPERATIONS. 5/8 OD LIQ. 7/8 OD HOT GAS.

VAV MODULES

MARK	SERVICE/LOCATION	TYPE	SERIES	CFM MAX	CFM MIN	MAX. APD	HV REHEAT MBH	HV REHEAT GPM	HV REHEAT MAX. WPD	MODEL	NOTE(S)
VAV69-1	CONF. RM/ 2ND FLOOR	THROT	AVV	900	450	.25	17.0	2.0	2.0	10	1
VAV69-2	CONF. RM./ 1ST FLOOR	THROT	AVV	900	450	.25	17.0	2.0	2.0	10	1
VAV69-3	MEETNG RM./ GRND FLOOR	THROT	AVV	500	250	.25	12.5	3.0	2.8	8	1
VAV70-1	CONF. RM/ 2ND FLOOR	THROT	AVV	1300	650	.25	25.0	3.0	< 1.0	12	1,2
VAV70-2	CONF. RM/ 3RD FLOOR	THROT	AVV	1300	650	.25	25.0	3.0	< 1.0	12	1,2
VAV71-1	CONF. RM/ 3RD FLOOR	THROT	AVV	900	450	.25	17.0	2.0	2.0	10	1
VAV71-2	CONF. RM./ 2ND FLOOR	THROT	AVV	900	450	.25	17.0	2.0	2.0	10	1
VAV72-1	CONF. RM.	THROT	AVV	500	250	.25	17.0	3.0	2.8	8	1
VAV 73-1	MTG RM / 3RD FLR	THROT	AVV	1800	900	.25	35.0	4.0	1.7	14	1
VAV 73-2	ASSOC DIR / 3RD FLR	THROT	AVV	900	450	.25	17.0	2.0	2.0	10	1
VAV 73-3	CONF RM / 3RD FLR	THROT	AVV	800	400	.25	17.0	2.0	2.0	10	1
VAV 73-4	2ND MTG RM / FOYER	THROT	AVV	1700	850	.25	35.0	4.0	1.7	14	1
VAV 73-5	HRG ROOM / 2ND FLR	THROT	AVV	640	320	.30	12.5	3.0	2.8	8	1
VAV 73-6	SUPERVISOR / 2ND FLR	THROT	AVV	500	250	.25	12.5	3.0	2.8	8	1
VAV 73-7	CONF RM / 1ST FLR	THROT	AVV	600	300	.25	12.5	3.0	2.8	8	1
VAV 73-8	CLASSROOM / 1ST FLR	THROT	AVV	600	300	.25	12.5	3.0	2.8	8	1

1. BASED ON CARNES AVV SERIES
2. 1 ROW HV COIL, AND SOUND ATTENUATOR

ELECTRIC HEATERS

MARK	SERVICE/LOCATION	TOTAL CAPACITY	ELECT. CHAR.	* MODEL	NOTE(S)
EUH69A-1	ELEC. SPACES/BLDG 69A	3.0 KW	208/1	MUH03-81	1
EUH71-1	ELEC. RM /BLDG 71	3.0 KW	208/1	MUH03-81	1
EUH72-1	VARIOUS/BLDG 72	3.0 KW	208/1	MUH03-81	1

1. BASED ON Q-MARK W/UNIT MOUNTED T-STAT, UNIVERSAL SUPPORT

KITCHEN EXHAUST HOOD

MARK	CFM	SIZE	MAX Δ P	OPER WGHT	MODEL	REMARKS
EH-1	1600	96X48	1.0	450 #	GHFW	1

1. BASED ON GREENHECK, SINGLE SHELL, FULL COMPENSATING WITH FIRE DAMPER IN SUPPLY COLLAR

CONDENSATE RETURN SETS (DUPLEX)

MARK	SERVICE/LOCATION	GPM	RECEIVER (GAL)	DISC. PRESS.	ELEC V / ø	MOTOR HP	MODEL	NOTE(S)
CR-1	MECH. EQUIP. RM. / #73	75	121	30 PSIG	480/3	2 @ 1.5 hp	CVV-5030	1

1. BASED ON FEDERAL PUMP @ 3500 RPM.

LINEAR DIFFUSERS & REGISTERS

MARK	SIZE	SERVICE	SLOTS SIZE	SLOTS QTY	BLADES SPCNG	BLADES DEF.	MODEL	NOTES
LA	72X8	SUPPLY	1"	4	-	-	CHFB	1
LB	72X3.5	SUPPLY	-	-	1/4"	0°	CTQB	1,2
LC	36X3.5	SUPPLY	-	-	1/4"	0°	CTQB	1,2
LD	48X4	SUPPLY	-	-	1/4"	0°	CTQB	1,2
LE	72X4	SUPPLY	-	-	1/4"	0°	CTQB	1,2
LF	96X4	SUPPLY	-	-	1/4"	0°	CTQB	1,2
LG	72X4	SUPPLY	3/4"	3	-	-	CHDB	1
LH	48X4	SUPPLY	1"	2	-	-	CHFB	1
LI	72X4	SUPPLY	1"	2	-	-	CHFB	1
LJ	96X6	SUPPLY	-	-	1/4"	0°	CTLB	1,2,3
LK	96X8	RET	-	-	1/2"	15° UP	CWPB	1,2

1. BASED ON CARNES
2. O.B. VOLUME CONTROL DAMPER
3. DEBRIS SCREEN FOR FLOOR MOUNTING

REGISTERS, GRILLES, DIFFUSERS

MARK	SIZE	SERVICE	TYPE	REAR BLADE	MODEL	NOTES
A	6X6	SUPPLY	DIFF	-	SK	1
B	9X9	SUPPLY	DIFF	-	SK	1
C	12X12	SUPPLY	DIFF	-	SK	1
D	15X15	SUPPLY	DIFF	-	SK	1
E	18X18	SUPPLY	DIFF	-	SK	1
F	8X4	SUPPLY	REG	-	RTDAH	1,2
G	6X9	SUPPLY	DIFF	-	SK	1
H	6X12	SUPPLY	DIFF	-	SK	1
I	12X12	SUPPLY	REG	45	RTDAH	1,2
J	12X6	SUPPLY	REG	22/45	RTDAH	1,2
K	10X6	SUPPLY	REG	45	RTDAH	1,2
L	12X8	SUPPLY	REG	22/45	RTDAH	1,2
L1	18X8	SUPPLY	REG	45	RTDAH	1,2
L2	24X8	SUPPLY	REG	45	RTDAH	1,2
L3	30X10	SUPPLY	REG	-	RTDAH	1,2
L4	12X16	SUPPLY	REG	45	RTDAH	1,2
M	8X8	RET/EXH	REG	-	RTLAH	1
N	10X10	RET/EXH	REG	-	RTLAH	1
P	12X12	RET/EXH	REG	-	RTLAH	1
Q	16X16	RET/EXH	REG	-	RTLAH	1
R	22X22	RET/EXH	REG	-	RTLAH	1
S	24X18	RET	REG	-	RTLAH	1
T	22X8	RET	REG	-	RTLAH	1
U	36X8	RET	REG	-	RTLAH	1
V	20X10	RET	REG	-	RTLAH	1
W	16X12	RET	REG	-	RTLAH	1
MA	36X48	SUPPLY	REG	45	RTDAH	1,2
MB	36X48	RET	REG	-	RTHAH	1,2,3
MC	30X48	RET	REG	-	RTHAH	1,2,3
MD	24X36	RET	REG	-	RTHAH	1,2,3
ME	48X48	RET	REG	-	RTHAH	1,2,3
MF	60X36	RET	REG	-	RTHAH	1,2,3
MG	60X24	RET	REG	-	RTHAH	1,2,3
MH	48X30	RET	REG	-	RTHAH	1,2,3
MJ	24X18	RET	REG	-	RTHAH	1,2,3
MK	24X24	RET	REG	-	RTHAH	1,2,3
ML	36X60	RET	REG	-	RTHAH	1,2,3

1. BASED ON CARNES, W/ VOLUME CONTROL DAMPERS
2. DOUBLE DEFLECTION, HORIZ. FRONT BALDE.
3. HEAVY DUTY CONSRUCTION, 40° DEFLECTION. MOUNT AT 8' AFF.

LEGEND:

ONE WAY
TWO WAY CORNER
TWO WAY
THREE WAY
FOUR WAY
INDICATES TYPE AND/OR SERVICE
EXHAUST AIR
RETURN AIR
INDICATES SIZE
###
INDICATES CFM

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RENOVATION AND RESTORATION OF CENTER GENERAL COMPLEX

FOR
THE STATE OF RHODE ISLAND
DEPARTMENT OF LABOR AND TRAINING
NEW HEADQUARTERS BUILDING
PONTIAC AVENUE
CRANSTON, RHODE ISLAND

CAI CONSULTING ENGINEERS
CATAUDELLA ASSOCIATES, INC.
1223 MINERAL SPRING AVENUE
NORTH PROVIDENCE, RI 02904
401-728-1122

7/24/98

No.	REVISIONS	DATE

TITLE:

HVAC SCHEDULES

SA Job No. 97112	GCA Job No. 3940
DRAWN: XX	DATE:
CHECKED: JSC	DRAWING: NO SCALE

M3.02

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