LINEAR BAR GRILLE PERFORMANCE SCHEDULE

TAG	SIZE (INCHES)	AIRFLOW (CFM)	SP LOSS (IN.W.G.)	THROW (FEET)	NC	FRAME STYLE	PATTERN	BASIS OF DESIGN METALAIRE FASTENING	SPACING	SERIES
E	36x4	450	0.03	20	25	1" FLANGE	*	SCREWS	1/2"	2000D
G	36x8	1000	0.04	25	20	1" FLANGE	*	SCREWS	1/2"	2000D

* - DEFLECTION PATTERNS MAY VARY, SEE DRAWINGS.

CONTROL VALVE SCHEDULE

TAG	FLOW RATE (GPM)	Cv	VALVE SIZE (IN)	TYPE
V1	15.0	12.0	1"	3-WAY, MIXING
V2	15.0	12.0	1"	3-WAY, MIXING
V3	15.0	12.0	1"	3-WAY, MIXING
V4	15.0	12.0	1"	3-WAY, MIXING
V5	15.0	12.0	1"	3-WAY, MIXING
V6	30.0	16.0	1-1/4"	3-WAY, MIXING
V7	2.0	2.2	3/4"	2-WAY, 2-POSITION
V8	2.0	2.2	1/2"	2-WAY, PROPORTIONING
-	-	-	-	-

LOUVER PERFORMANCE SCHEDULE

TAG	AIR FLOW (CFM)	SP LOSS (IN.W.G.)	AIR VEL. (FPM)	SIZE (INCHES) (WxH)	FREE AREA (SQFT)	DRAINABLE (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN RUSKIN SERVICE	MODEL
L1	-	-	-	66x36	9.04	Y	35°, 6"	BOILER ROOM	ELF6375DX
L2	-	-	-	66x36	9.04	Y	35°, 6"	BOILER ROOM	ELF6375DX
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

BFP PERFORMANCE SCHEDULE

* - BODY STYLE DESIGNATIONS REFERENCED ARE AS FOLLOWS: (DC) - DOUBLE CHECK, (DCDA) - DOUBLE DETECTION CHECK, (DCA) - DOUBLE CHECK WITH ATMOSPHERIC VENT, (RPZ) - DOUBLE CHECK W/ REDUCED PRESSURE ZONE RELIEF VALVE.

TAG	SIZE	FLOW RATE (GPM)	WPD (PSI)	MAX. WORK'G TEMPERATURE (DEGREES F)	MAX. WORK'G PRESSURE (PSI)	TESTABLE (Y) OR (N)	BODY STYLE*	BASIS OF DESIGN ZURN SERVICE	MODEL
BFP1	3"	150.0	12.0	180	175	Y	RPZ	DOM. WATER	975XL
BFP2	3"	150.0	12.0	180	175	Y	RPZ	DOM. WATER	975XL
BFP3	3/4"	10.0	18	180	175	Y	RPZ	BOILER FILL	975XL
BFP4	2 1/2"	90.0	10	180	175	Y	RPZ	IRRIGATION	975XL

LINEAR SLOT DIFFUSER PERFORMANCE SCHEDULE

TAG	SIZE (INCHES)	AIRFLOW (CFM)	SP LOSS (IN.W.G.)	THROW (FEET)	NC	FRAME STYLE	PATTERN	BASIS OF DESIGN METALAIRE NO. OF SLOTS	SLOT WIDTH	MODEL
F	48	200	0.05	7-22	25	T-BAR	VERT	2	1"	6000
I	48	375	0.10	10-30	35	T-BAR	VERT	2	1"	6000

DUAL FUEL WATER HEATER PERFORMANCE SCHEDULE

TAG	STORAGE (GALS)	INPUT (MBH)	RECVRY @ 100°F (GPH)	ELECTRICAL REQUIREMENTS HP	WATTS	V/PH/HZ	BASIS OF DESIGN RECO "ELITE" SERVICE	FUEL	MODEL
WH1	180	700	700	1/3	-	120/1/60	DOM HW	NO. 2 FUEL OIL / GAS	RSB-700-FO

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE

TAG	STORAGE (GALS)	RECVRY @ 80°F (GPH)	ELECTRICAL REQUIREMENTS NO. ELEM.	WATTS EA	V/PH/HZ	BASIS OF DESIGN A.O. SMITH SERVICE	MODEL
EWH	10.0	12.0	1	1500	120/1/60	DOM HW	ELSF-10

EWH TYPICAL OF MULTIPLE LOCATIONS, SEE DRAWINGS FOR QUANTITIES.

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HW
P1	WALL MNTD FV WC	4"	2"	1"	-
P2	ADA WALL MNTD FV WC	4"	2"	1"	-
P3	WALL HUNG URINAL (WATERLESS)	3"	2"	3/4" ***	-
P4	ADA WALL HUNG LAV	1-1/2"	1-1/2"	1/2"	1/2"
P4(T)	ADA WALL HUNG LAV WITH 1/2" TRAP PRIMER	1-1/2"	1-1/2"	1/2"	1/2"
P4A	ADA COUNTERTOP LAV	1-1/2"	1-1/2"	1/2"	1/2"
P4A(T)	ADA COUNTERTOP LAV WITH 1/2" TRAP PRIMER	1-1/2"	1-1/2"	1/2"	1/2"
P5	SS HAND SINK	1-1/2"	1-1/2"	1/2"	1/2"
P6	ADA CLASSROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"
P8	ART CLASSROOM SINK w/ INTERCEPTOR	1-1/2"	1-1/2"	1/2"	1/2"
P8A	ART CLASSROOM SINK w/ INTERCEPTOR	1-1/2"	1-1/2"	1/2"	1/2"
P9	ADA SHOWER VALVE and 2" FD	2" FD	1-1/2"	1/2"	1/2"
P10	ADA 37"x38" SHOWER w/ VALVE	2"	1-1/2"	1/2"	1/2"
P11	EMERGENCY EYE WASH	1-1/2"	1-1/2"	-	1/2" *
P12 (T)	24"x24" MOP BASIN w/ TRAP PRIMER	3"	2"	3/4"	3/4"
P13	ADA BI-LEVEL WATER COOLER	2"	1-1/2"	1/2"	-
P14	WASHING MACHINE HOOK-UP	2"	1-1/2"	1/2"	1/2"
P15	SINGLE BOWL SS KITCHEN SINK	2"	1-1/2"	1/2"	1/2"
P15(D)	SINGLE BOWL SS KITCHEN SINK w/ FOOD DISPOSER	1-1/2"	1-1/2"	1/2"	1/2"
P12	24"x24" MOP BASIN	3"	2"	3/4"	3/4"
HB	HOSE BIBB (INTERIOR)	-	-	1/2"	-
FPHB	FREEZE PROOF HOSE BIBB (EXTERIOR)	-	-	3/4"	-
FS1	FLOOR SINK	3"	2"	-	-
2"FD	2" FLOOR DRAIN w/ TRAP PRIMER CONNECTION	2"	2"	1/2" **	-
3"FD	3" FLOOR DRAIN w/ TRAP PRIMER CONNECTION	3"	2"	1/2" **	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
* - SUPPLY THERMOSTATIC MIXING VALVE, SET TO 85°.
** - FROM TRAP PRIMER.
*** - CAP IN WALL BEHIND A.P. FOR FUTURE CONNECTION.

RADIANT FLOOR HEATING SCHEDULE

ROOM	LOAD (MBH)	TUBE SPACING (INCHES)	MANI-FOLD	ZONE
W. CHANGE (335)	4.0	12"	RFM-1	(T)
REC. OFFICE (328)	1.3			
REC. STORAGE (329)	3.6			
MEN (330)	3.2			
WOMEN (331)	3.2			
M. CHANGE (334)	3.9			
MAIN LOBBY (102)	16.6		RFM-2	(T)
VESTIBULE (101)	2.5			
FIRST GRADE (162)	12.3		RFM-3	(T)
W.C. (163)	0.8			
SECOND GRADE (166)	15.4			(T)
EXPLORE (164)	2.4			
W.C. (165)	1.1			
KINDERGARTEN (167)	17.1			(T)
W.C. (168)	0.8			
STAIR (169)	3.8			
KINDERGARTEN (170)	12.9			(T)
W.C. (175)	0.8			
ELECTRICAL (176)	2.5			(T)
E.S.L. (145)	12.1		RFM-4	(T)
SPEECH (142)	1.7			
JAN. (143)	1.5			
W.C. (146)	0.8			
SECOND GRADE (149)	15.4			(T)
EXPLORE (147)	2.4			
W.C. (148)	1.0			
FIRST GRADE (150)	17.1			(T)
W.C. (151)	0.8			
STAIR (152)	3.8			
STAFF PREP. (157)	2.3			
W.C. (154)	0.8			
KINDERGARTEN (153)	12.9			(T)
STAFF W.C. (155)	0.9			
STORAGE (156)	0.9			
VESTIBULE (158)	0.9			(T)
OFFICE LOBBY (104) SEATING	1.6			
HANDS-ON/GYM (125)	16.9		RFM-5	(T)
SPRINKLER (126)	2.0			
FIRST GRADE (129)	12.2			(T)
W.C. (130)	0.8			
SECOND GRADE (133)	15.4			(T)
EXPLORE (131)	2.4			
W.C. (132)	1.0			
SECOND GRADE (134)	17.1			(T)
W.C. (135)	0.8			
STAIR (136)	3.8			
KINDERGARTEN (137)	12.9			(T)
W.C. (138)	0.8			
READING RECOVERY (140)	2.2			(T)

SOME THERMOSTATS CONTROL BOTH THE RADIANT FLOOR AND THE VAV BOX, SEE DRAWINGS FOR LOCATIONS.

REFRIGERANT COOLING COIL PERFORMANCE SCHEDULE

BASIS OF DESIGN TRANE

TAG	TOTAL COOLING (MBH)	SENS. COOLING (MBH)	SAT. SUCTION TEMPERATURE (DEG F)	TYPE OF REFRIGERANT	MAX. AIR FLOW (CFM)	MAX. APD (IN.W.G.)	E.A.T. D.B.(°F)	E.A.T. W.B.(°F)	L.A.T. D.B.(°F)	SERVICE
CC1	384.9	295.4	-	R22	11,000	-	80	67	55.8	AC1
CC2	387.1	302.0	-	R22	11,500	-	80	67	56.4	AC2
CC3	384.8	295.4	-	R22	11,000	-	80	67	55.9	AC3
CC4	384.8	295.3	-	R22	11,000	-	80	67	55.8	AC4
CC5	261.0	196.9	-	R22	7500	-	80	67	56.5	AC5
CC6	260.0	196.9	-	R22	7500	-	80	67	56.4	AC6

AIR SEPARATOR PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	WPD (FT.W.G.)	Cv FACTOR	STRAINER (Y) OR (N)	MAX. WORK'G TEMPERATURE (DEGREES F)	MAX. WORK'G PRESSURE (PSI)	BASIS OF DESIGN TACO SERVICE	PIPE SIZE(IN)	MODEL
AS1	280.0	0.8	350	N	270.0	150.0	HW/R	4	4904 A-D

EXPANSION TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D ACCEPT. VOL. (GAL)	MAX. WORK'G TEMPERATURE (DEG F)	MAX. WORK'G PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN (T) TACO, (A) AMTROL MOUNTING	SERVICE	MODEL
ET1	317.0	317.0	290.0	240	125	940	FLOOR	HW/R	(T) CA-1200
ET2	53	34.4	30.0	200	150	477	FLOOR	WH1	(A) ST-80V-C

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	WPD (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN SYMMONS SERVICE	ARRANGEMENT	MODEL
TMV1	62	1-1/4	1-1/2	25	140	Y	TANKLESS COILS	INLINE	5-100
TMV2	62	1-1/4	1-1/2	25	105	Y	DOM. HW SUPPLY	INLINE	5-100

UNIT HEATER PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F AVERAGE WATER TEMP. & 60°F ENTERING AIR TEMPERATURE

TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FT.W.G.)	AIRFLOW (CFM)	THROW	MTG.HT.	ELECTRICAL REQUIREMENTS HP	WATTS	V/PH/HZ	BASIS OF DESIGN STERLING SERVICE	ARRANGEMENT	MODEL
UH1	63.1	4.0	0.12	1800	40'	96 IN.	1/20	-	120/1/60	BOILER ROOM	HORIZONTAL	HS-120
UH2	63.1	4.0	0.	1800	40'	96 IN.	1/20	-	120/1/60	OIL TANK ROOM	HORIZONTAL	HS-120
UH3	63.1	4.0	0.	1800	40'	96 IN.	1/20	-	120/1/60	GYM STORAGE	HORIZONTAL	HS-120

CABINET UNIT HEATER PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F AVERAGE WATER TEMP. & 60°F ENTERING AIR TEMPERATURE

TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FT.W.G.)	AIRFLOW (CFM)	THROW	MTG.HT. (INCHES)	ELECTRICAL REQUIREMENTS HP	MCA	V/PH/HZ	BASIS OF DESIGN TRANE SERVICE	ARRANGEMENT	MODEL
CH1	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030
CH2	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030
CH3	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030
CH4	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030
CH5	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030
CH6	23.6	2.0	5.1	250	-	12" AFF	1/20	1.0	120/1/60	-	INV.VERT. REC.	FF-N-030

FAN PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	T.S.P. (IN.W.G.)	NOISE (SONES)	FRPM	DRIVE	ELECTRICAL REQUIREMENTS HP	BHP	WATTS	AMPS	V/PH/HZ	BASIS OF DESIGN GREENHECK SERVICE	ARRANGEMENT	MODEL
EF1	2300	1.5	16.1	1285	BELT	1-1/2	1.0	-	-	480/3/60	KITCHEN HOOD (KH1)	ROOFTOP UP	CUBE-161-10
EF2	125	0.4	5.9	1275	DIRECT	1/20	0.03	-	-	120/1/60	MOP CLOSET	ROOFTOP DN	G-080-D
EF3	125	0.4	5.9	1275	DIRECT	1/20	0.03	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	G-080-D
EF4	1200	0.5	8.1	1134	BELT	1/4	0.17	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-131-4
EF5	125	0.4	5.9	1275	DIRECT	1/20	0.03	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	G-080-D
EF6	750	0.5	6.7	1264	BELT	1/4	0.12	-	-	120/1/60	RANGE HOOD (KH3)	ROOFTOP UP	CUBE-101-4
EF7	750	0.5	6.7	1264	BELT	1/4	0.12	-	-	120/1/60	RANGE HOOD (KH2)	ROOFTOP UP	CUBE-101-4
EF8	125	0.4	5.9	1275	DIRECT	1/20	0.03	-	-	120/1/60	EMR	ROOFTOP DN	G-080-D
EF9	400	0.5	6.4	1244	BELT	1/4	0.07	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-081-4
EF10	250	0.5	5.3	1112	BELT	1/6	0.05	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-081-6
EF11	750	0.5	6.2	1210	BELT	1/4	0.12	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-101-4
EF12	250	0.5	5.3	1113	BELT	1/6	0.05	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-081-6
EF13	600	0.5	7.9	1243	BELT	1/4	0.10	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-091-4
EF14	250	0.5	5.3	1112	BELT	1/6	0.05	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-081-6
EF15	175	0.4	5.7	1209	BELT	1/6	0.04	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-071-6
EF16	250	0.5	5.3	1113	BELT	1/6	0.05	-	-	120/1/60	TOILET EXHAUST	ROOFTOP DN	GB-081-6
EF17	400	0.5	6.6	1390	BELT	1/4	0.08	-	-	120/1/60	RECYCLE EXHAUST	SIDEWALL	CUB-101HP-4
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
SF1	1000	0.50	8.4	634	BELT	1/4	-	-	-	120/1/60	BOILER ROOM	ROOFTOP	RSF-90-4

BOILER PERFORMANCE SCHEDULE

* - BASED ON No2 FUEL AT 140,000 BTU/GAL

TAG	I=B=R RATINGS* GROSS*	NET*	D.O.E. INPUT (MBH)	FIRING (GAL/HR)	THERMAL EFFIC.	BOILER SECTNS	ELECTRICAL REQUIREMENTS HP	WATTS	V/PH/HZ	BASIS OF DESIGN HB Smith SERVICE	BURNER MAKE	BURNER MODEL	MODEL
B1	1722.0	1497.0	-	14.4	85%	7	1.0	-	460/3/60*	HW/R	WEBSTER	-	LO28HE-W-7
B2	1722.0	1497.0	-	14.4	85%	7	1.0	-	460/3/60*	HW/R	WEBSTER	-	LO28HE-W-7

* - SEPARATE 120V CIRCUIT FOR CONTROLS.
PROVIDE EACH BOILER WITH TWO (2) TANKLESS COILS FOR DOMESTIC HOT WATER AND DUAL FUEL (GAS / OIL) BURNER.

CONVECTOR/FINTUBE PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F AVERAGE WATER TEMP. & 60°F ENTERING AIR TEMPERATURE

TAG	OUTPUT (MBH/FT)	FLOW RATE (GPM)	MOUNT'G HEIGHT(IN)	ENCLOSURE HEIGHT(IN)	ENCLOSURE LENGTH(FT)	ELEMENT LENGTH(FT)	CONTROL VALVE	BASIS OF DESIGN STERLING TUBE SIZE(IN)	FINS/FOOT	NO. OF TIERS	MODEL
FTR1	0.78	2.0	14	11	**	*	V1	3/4	50	1	JVK-811
FTR2	0.98	2.0	98	19-1/2	**	*	V1	3/4	40	1	JVB-55

* - SIZE ELEMENT TO MATCH HEAT OUTPUT INDICATED ON DRAWINGS.
** - ENCLOSURE SHALL BE RUN WALL-TO-WALL, EXCEPT AS OTHERWISE NOTED.

PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	HEAD (FT.W.G.)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS HP	BHP	WATTS	AMPS	V/PH/HZ	BASIS OF DESIGN TACO SERVICE	ARRANGEMENT	MODEL
CP1	140.0	15.0	6.4	1160	69	1.0	.8	-	-	460/3/60	BOILER B1	VERT. INLINE	KV300T
CP1A	75.0	10.0	4.3	1725	49	1/2	-	-	-	120/1/60	BOILER B1	INLINE	1635
CP2	140.0	15.0	6.4	1160	69	1.0	.8	-	-	460/3/60	BOILER B2	VERT. INLINE	KV300T
CP2A	75.0	10.0	4.3	1725	49	1/2	-	-	-	120/1/60	BOILER B2	INLINE	1635
CP3	280.0	60.0	8.0	1760	71	7.5	5.9	-	-	460/3/60	HW/R	BASE MNTD	FI2508
CP4	280.0	60.0	8.0	1760	71	7.5	5.9	-	-	460/3/60	HW/R	BASE MNTD	FI2508
CP5 **	25.0	30.0	5.5	1750	46	3/4	-	-	-	120/1/60	RADIANT	CARTRIDGE	1615
CP6 **	25.0	30.0	5.5	1750	46	3/4	-	-	-	120/1/60	RADIANT	CARTRIDGE	1615
CP7 *	10.0	20.0	-	3250	-	1/3	-	-	-	120/1/60	RECIRC HW	CARTRIDGE	0011B
CP8 *	40.0	15.0	4.75	1750	-	1/3	-	-	-	120/1/60	UH1	CARTRIDGE	1615B
AC1P	15.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC1/HC1	CARTRIDGE	1615
AC2P	15.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC2/HC2	CARTRIDGE	1615
AC3P	15.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC3/HC3	CARTRIDGE	1615
AC4P	15.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC4/HC4	CARTRIDGE	1615
AC5P	15.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC5/HC5	CARTRIDGE	1615
AC6P	20.0	15.0	4.0	1750	44	1/4	-	-	-	120/1/60	AC6/HC6	CARTRIDGE	1615

* - ALL BRONZE CONSTRUCTION
** - ESTIMATED, VERIFY SELECTION W/ RADIANT FLOOR SUPPLIER.

SPLIT-SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE

* - AT ARI CONDITIONS OF 85°F AMBIENT/67°F SAT. INDOOR WB

TAG	TOTAL COOLING (MBH)*	REFRIGERANT	CONDENSER AIRFLOW (CFM)	MINIMUM AMBIENT TEMP(°F)	FOOTPRINT DIMENSION (INCHES)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS MCA	MAX FUSE	V/PH/HZ	BASIS OF DESIGN MITSUBISHI COMP. STAGING	SOUND (BEL)	SERVICE	MODEL
SCU1	12.5	R-22	-	0°	34x13	-	11.0	15.0	208/1/60	-	50	SAC1	PU12EK

PROVIDE w/ LOW AMBIENT CONTROLS.

VAV BOX PERFORMANCE SCHEDULE

TAG	DESIGN COOLING CFM	MIN COOLING CFM	APD (IN.W.G.)	INLET VELOCITY FPM	HEATING CFM	EDB (°F)	LAT (°F)	COIL CAP (MBH)	WPD (FT.W.G.)	HEATING SETPOINT (°F)	EWT (°F)	HEATING DELTA T (°F)	FLOW RATE (GPM)	MAIN COIL TYPE	INLET SIZE (IN)	RADIATED VALVE NC	DISCHARGE VALVE NC	BASIS OF DESIGN TRANE VALVE	MODEL
1-1	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
1-2	1160	450	0.49	2126	450	55	120.0	31.7	.7	70	180	31.7	2.0	2 ROW	10	32	25	V8	VCWF
1-3	600	300	0.33	1718	300	55	120.8	21.3	.7	70	180	29.8	2.0	2 ROW	8	27	21	V8	VCWF
1-4	1100	400	0.45	2016	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	31	25	V8	VCWF
1-5	900	400	0.32	1650	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
1-6	1400	600	0.20	1309	600	55	120.3	38.6	.25	70	180	42.6	2.0	2 ROW	14	35	21	V8	VCWF
1-7	980	400	0.37	1796	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
1-8	900	400	0.32	1650	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
1-9	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
1-10	600	300	0.34	1718	300	55	120.8	21.3	.7	70	180	29.8	2.0	2 ROW	8	27	21	V8	VCWF
1-11	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
1-12	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
1-13	1100	450	0.31	1400	400	55	124.0	33.6	.25	70	180	33.6	2.0	2 ROW	12	27	25	V8	VCWF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-1	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
2-2	1160	450	0.49	2126	450	55	120.0	31.7	.7	70	180	31.7	2.0	2 ROW	10	32	25	V8	VCWF
2-3	600	300	0.34	1718	300	55	120.5	21.3	.7	70	180	29.8	2.0	2 ROW	8	27	21	V8	VCWF
2-4	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	23	V8	VCWF
2-5	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	23	V8	VCWF
2-6	1400	600	0.45	1782	600	55	114.3	38.6	.25	70	180	38.6	2.0	2 ROW	12	31	26	V8	VCWF
2-7	980	400	0.37	1796	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
2-8	900	400	0.32	1650	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
2-9	1200	500	0.35	1527	500	55	120.8	35.5	.7	70	180	29.8	2.0	2 ROW	12	29	26	V8	VCWF
2-10	900	400	0.32	1650	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
2-11	1400	500	0.45	1782	500	55	120.4	35.5	.25	70	180	35.5	2.0	2 ROW	12	31	26	V8	VCWF
2-12	750	350	0.24	1375	350	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	22	V8	VCWF
2-13	600	300	0.17	1100	300	55	132.9	25.3	.7	70	180	25.3	2.0	2 ROW	10	26	20	V8	VCWF
2-14	1250	500	0.17	1169	500	55	126.9	38.7	.7	70	180	25.3	2.0	2 ROW	14	34	27	V8	VCWF
2-15	500	250	0.25	1432	250	55	126.3	19.3	.7	70	180	20.0	2.0	2 ROW	8	27	27	V8	VCWF
-	-	-	-	-	-	-	-	-	-	-70	-	-	-	--	-	-	-	-	-
3-1	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
3-2	1160	450	0.49	2126	450	55	120.0	31.7	.7	70	180	31.7	2.0	2 ROW	10	32	25	V8	VCWF
3-3	600	300	0.34	1718	300	55	120.8	21.3	.7	70	180	29.8	2.0	2 ROW	8	27	27	V8	VCWF
3-4	1160	500	0.49	2126	500	55	116.6	33.4	.7	70	180	29.8	2.0	2 ROW	10	32	25	V8	VCWF
3-5	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	12	27	23	V8	VCWF
3-6	1400	600	0.45	1782	600	55	114.3	38.6	.25	70	180	38.6	2.0	2 ROW	10	31	26	V8	VCWF
3-7	980	400	0.37	1796	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
3-8	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	23	V8	VCWF
3-9	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
3-10	600	300	0.34	1718	300	55	120.8	21.3	.7	70	180	29.8	2.0	2 ROW	8	27	27	V8	VCWF
3-11	600	300	0.17	1100	300	55	132.9	25.3	.7	70	180	25.3	2.0	2 ROW	10	26	20	V8	VCWF
3-12	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	23	V8	VCWF
3-13	500	250	0.12	916	250	55	138.4	22.6	.7	70	180	22.5	2.0	2 ROW	10	26	20	V8	VCWF
3-14	800	400	0.26	1466	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	27	23	V8	VCWF
3-15	1000	400	0.38	1833	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	30	24	V8	VCWF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-1	1000	500	0.38	1833	500	55	116.6	33.4	.7	70	180	33.4	2.0	2 ROW	10	30	24	V8	VCWF
4-2	1000	500	0.38	1833	500	55	116.6	33.4	.7	70	180	33.4	2.0	2 ROW	10	30	24	V8	VCWF
4-3	1000	500	0.38	1833	500	55	116.6	33.4	.7	70	180	33.4	2.0	2 ROW	10	30	24	V8	VCWF
4-4	1500	750	0.23	1403	750	55	112.3	46.6	.7	70	180	46.6	2.0	2 ROW	14	35	27	V8	VCWF
4-5	1000	500	0.38	1833	500	55	116.6	33.4	.7	70	180	33.4	2.0	2 ROW	10	30	24	V8	VCWF
4-6	1000	500	0.38	1833	500	55	116.6	33.4	.7	70	180	33.4	2.0	2 ROW	10	30	24	V8	VCWF
4-7	600	300	0.34	1718	300	55	120.5	21.3	.7	70	180	33.4	2.0	2 ROW	8	27	27	V8	VCWF
4-8	950	450	0.35	1741	450	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
4-9	900	400	0.32	1650	400	55	123.8	29.8	.7	70	180	29.8	2.0	2 ROW	10	29	24	V8	VCWF
4-10	500	250	0.25	1432	250	55	126.3	19.3	.3	70	180	19.3	2.0	2 ROW	8	27	27	V8	VCWF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-1	1600	800	0.25	1496	800	55	110.0	47.8	.2	70	180	47.8	2.0	2 ROW	14	35	27	V8	VCWF
5-2	1600	800	0.23	1496	800	55	110.0	47.8	.2	70	180	47.8	2.0	2 ROW	14	35	27	V8	VCWF
5-3	1500	750	0.23	1403	750	55	112.3	46.6	.2	70	180	46.6	2.0	2 ROW	14	35	27	V8	VCWF
5-4	1500	750	0.23	1403	750	55	112.3	46.6	.2	70	180	46.6	2.0	2 ROW	14	35	27	V8	VCWF
5-5	1400	700	0.20	1309	700	55	114.7	45.3	.2	70	180	45.3	2.0	2 ROW	14	35	27	V8	VCWF
5-6	500	250	0.25	1432	250	55	114.4	16.1	.2	70	180	20.0	2.0	2 ROW	8	27	27	V8	VCWF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SOUND LEVELS BASED ON 1.0" W.G. INLET STATIC PRESSURE.

KITCHEN HOOD PERFORMANCE SCHEDULE

BASIS OF DESIGN - (GR) GREENHECK (G) GAYLORD

TAG	SIZE(IN) LxDxH	EXHAUST CONNECTIONS CFM	S.P.	QTY	SIZE	FPM	SUPPLY CONNECTIONS CFM	S.P.	QTY	SIZE	FPM	FILTER HEIGHT	FILTER QTY & SIZE	FILTER FACE VEL (FPM)	WEIGHT (LBS)	EXHAUST FAN	MAKEUP AIR UNIT	SERVICE	MODEL
KH1	108x54x24	2250	1.33	1	10x18	1800	N/A	N/A	N/A	N/A	N/A	-	-	-	590	EF1	N/A	KITCHEN EQUIP.	(G) GX2-BDL-54
KH2	42x36x24	750	0.15	1	8x8	1125	N/A	N/A	N/A	N/A	N/A	-	-	-	350	EF7	N/A	ELECTRIC RANGE	(GR) GHED
KH3	42x36x24	750	0.15	1	8x8	1125	N/A	N/A	N/A	N/A	N/A	-	-	-	350	EF6	N/A	ELECTRIC RANGE	(GR) GHED

PROVIDE ALL HOODS WITH ANSUL OR KIDDE FIRE SUPPRESSION SYSTEM

SPLIT-SYSTEM AIR CONDITIONER PERFORMANCE SCHEDULE

* - AT ARI CONDITIONS OF 85°F AMBIENT/65°F INDOOR WB

TAG	TOTAL COOLING (MBH)*	AIRFLOW (CFM)	MOISTURE REMOVAL (PINTS/HR)	COND. DRAIN (IN)	EER (BTUH/WATT)	SOUND RATING (DB)	WEIGHT (LBS)	REFRIGERANT PIPE SIZE (IN) LIQUID	GAS	ELECTRICAL REQUIREMENTS MCA	MAX FUSE	V/PH/HZ	BASIS OF DESIGN MITSUBISHI SERVICE	ARRANGEMENT	MODEL
SAC1	12.5	400	3.8	1"	10.3	40	37	3/8	5/8	1.0	15.0	120/1/60	SERVER CLOSET	WALL	PK12FK

HEATING COIL PERFORMANCE SCHEDULE

BASIS OF DESIGN TRANE
* APD. AT MAX. AIRFLOW

TAG	OUTPUT (MBH)	MODULE SIZE	FLOW RATE (GPM)	WPD (FT.W.G.)	WATER VELOCITY (FPS)	EWT (°F)	LWT (°F)	ROWS	TURBS (Y/N)	HTG. AIR FLOW (CFM)	MAX. AIR FLOW (CFM)	APD.* (IN.W.G.)	EAT (°F)	LAT (°F)	COIL TYPE	FIN MAT.	FPF	PUMP	VALVE	MODEL	SERVICE
HC1	363.1	-	15.0	5'	-	180	132	1	N	-	11,000	-	45	75.4	W	AL	80	AC1P	V1	-	AC1
HC2	367.9	-	15.0	5'	-	180	131	1	N	-	11,500	-	45	74.5	W	AL	80	AC2P	V2	-	AC2
HC3	363.1	-	15.0	5'	-	180	134	1	N	-	11,000	-	45	75.4	W	AL	80	AC3P	V3	-	AC3
HC4	363.1	-	15.0	5'	-	180	135	1	N	-	11,000	-	45	75.4	W	AL	80	AC4P	V4	-	AC4
HC5	318.8	-	15.0	5'	-	180	137	1	N	-	7500	-	45	84.2	W	AL	80	AC5P	V5	-	AC5
HC6	346.4	-	20.0	5'	-	180	145	1	N	-	7500	-	45	87.6	W	AL	80	AC6P	V6	-	AC6

PACKAGED ROOFTOP UNIT PERFORMANCE SCHEDULE

* - AT ARI STANDARD CONDITIONS.
SOUND POWER (dB RE 10^{-12} WATTS) OCTAVE BAND & CENTER FREQUENCY (HZ)

TAG	NOMINAL COOLING (TONS)	MINIMUM O.A. (CFM)	MAXIMUM O.A. (CFM)	FAN	DRIVE	AIRFLOW (CFM)	T.S.P. (IN.W.G.)	E.S.P. (IN.W.G.)	RPM	WT. (LBS)	HP	BHP	FLA	MCA	MOCP	V/PH/HZ	TAG HTG COIL	TAG CLG COIL	TAG HEAT RECOV.	*EER (BTUH/WATT)	BASIS OF DESIGN TRANE INTELLIPAK SERVICE	MODEL	1 (63)	2 (125)	3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	8 (8000)
AC1	30.0	2200	11,000	SUPPLY	BELT	11,000	4.22	1.50	1228	6200	20.0	14.1	-	95.1	110	480/3/60	HC1	CC1		9.1	-	SLHFC304B	-	-	-	-	-	-	-	-
				EXHAUST	BELT	10,000	.75	.75	714	-	5.0	3.5																		
AC2	30.0	2200	11,500	SUPPLY	BELT	11,500	4.35	1.50	1249	6200	20.0	15.1	-	102	125	480/3/60	HC2	CC2		9.1	-	SLHFC304B	-	-	-	-	-	-	-	-
				EXHAUST	BELT	10,500	.75	.75	795	-	5.0	3.9																		
AC3	30.0	2200	11,000	SUPPLY	BELT	11,000	4.22	1.50	1228	6200	20.0	14.1	-	93.1	110	480/3/60	HC3	CC3		9.1	-	SLHFC304B	-	-	-	-	-	-	-	-
				EXHAUST	BELT	10,000	.75	.75	714	-	5.0	3.5																		
AC4	30.0	2200	11,000	SUPPLY	BELT	11,000	4.05	1.50	1205	6200	20.0	14.1	-	93.5	110	480/3/60	HC4	CC4		9.1	-	SLHFC304B	-	-	-	-	-	-	-	-
				EXHAUST	BELT	10,000	.75	.75	772	-	5.0	3.4																		
AC5	20.0	1500	7500	SUPPLY	BELT	7500	3.56	1.50	1316	5210	10.0	8.9	-	61.75	70	480/3/60	HC5	CC5		9.1	-	SLHFC204C	-	-	-	-	-	-	-	-
				EXHAUST	BELT	7000	.75	.75	596	-	3.0	2.0																		
AC6	20.0	2000	7500	SUPPLY	BELT	7500	2.31	.50	1066	5210	7.5	5.40	-	61.75	70	480/3/60	HC6	CC6		9.1	-	SLHFC204C	-	-	-	-	-	-	-	-
				EXHAUST	BELT	6500	.50	.50	584	-	2.0	1.3																		

AIR DEVICE PERFORMANCE SCHEDULE

TAG	PANEL SIZE(IN)	NECK SIZE(IN)	AIRFLOW (CFM)	SP LOSS (IN.W.G.)	THROW(L)	THROW(S)	Nc	BASIS OF DESIGN METALAIRE DUCT CONN.(IN)	PATTERN	MODEL
A	24x24	6x6	150	0.05	-	-	25	SEE DWGS	SEE DWGS	5000D-IV
B	24x24	9x9	350	0.05	-	-	30	SEE DWGS	SEE DWGS	5000D-IV
C	24x24	12x12	500	0.05	-	-	30	SEE DWGS	SEE DWGS	5000D-IV
D	24x24	15x15	700	0.05	-	-	30	SEE DWGS	SEE DWGS	5000D-IV
H	20x10	24x12	1300	0.05	-	-	30	SEE DWGS	SEE DWGS	RL-DF
AA	-	8x8	100	0.05	-	-	30	SEE DWGS	1/2", 35°	RHD
BB	-	12x12	400	0.05	-	-	30	SEE DWGS	1/2", 35°	RHD
CC	-	16x16	600	0.05	-	-	30	SEE DWGS	1/2", 35°	RHD
DD	-	22x22	1200	0.05	-	-	30	SEE DWGS	1/2", 35°	RHD
EE	-	24x24	1300	0.05	-	-	30	SEE DWGS	1/2", 35°	HD-RHD

STATE OF MAINE – STEPHEN P. DOEL – NO. 4807 – REGISTERED PROFESSIONAL ENGINEER

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Revisions:

Consultants

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Carroll Associates

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Mechanical Engineer
Bennett Engineering

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TJM Consulting

Green Consultant
Fore Solutions

East End
Elementary School
Portland Public Schools
Portland, Maine

Job No.: 0309
Date: June 28, 2004
Scale: 1/8" = 1'-0"
Drawn by: SP Doel
Checked by: SP Doel

Drawing Title:
Mechanical Details & Schedules

M9