UNIT HEATER PERFORMANCE SCHEDULE

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

TAG	OUTPUT (MBH)	FLOW RATE (GPM)	W.P.D (FT.WG)	AIRFLOW (CFM)	THROW	MTG.HT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = STERLING		
							HP	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
UH-1	29.5	2.0	0.17	900	-	*	1/20	2.0	120/1/60	MECHANICAL RM 012	HORIZONTAL	HS-60
UH-2	29.5	2.0	0.17	900	-	*	1/20	2.0	120/1/60	STORAGE 011	HORIZONTAL	HS-60
UH-3	29.5	2.0	0.17	900	-	*	1/20	2.0	120/1/60	TRASH/RECYCLE 016	HORIZONTAL	HS-60

* AS HIGH AS POSSIBLE.

BOILER PERFORMANCE SCHEDULE

* - BASED ON No.2 FUEL AT 140,000 BTU/GAL

TAG	I=B=R RATINGS*		OIL FIRING (GPH)	GAS INPUT (MBH)	BOILER SECT'NS	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = LOCHINVAR			
	GROSS*	NET*				HP	AMPS	V/PH/HZ	SERVICE	BURNER MAKE	BURNER MODEL	MODEL
B-1	360.0	-	N/A	399.0	N/A	-	9.0	120/1/60	BLDG HEAT	-	-	KBN-399
B-2	360.0	-	N/A	399.0	N/A	-	9.0	120/1/60	BLDG HEAT	-	-	KBN-399

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 = TACO		
							MOUNTING	SERVICE	MODEL
ET-1	79.0	43.0	18.0	240	125	300	FLOOR	HWS/R	CBX-300
ET-2	34.0	19.0	15.0	240	125	300	FLOOR	DOM. HW	PAX-130

FINTUBE PERFORMANCE SCHEDULE

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

TAG	OUTPUT (BTUH/FT)	FLOW RATE (GPM)	MOUNT'G. HEIGHT(IN) (BOTTOM)	ENCLOSURE HEIGHT(IN)	ELEMENT LENGTH(FT)	ENCLOSURE LENGTH(FT)	BASIS OF DESIGN = STERLING			
							TUBE SIZE(IN)	FINS/FOOT	NO. OF TIERS	MODEL
FTR-1	700	2.0	0	9	*	**	3/4"	55	1	SENIOR

* - ELEMENT LENGTH SHALL BE AS REQUIRED TO MEET INDICATED LOAD.
** - ENCLOSURE LENGTH SHALL BE ELEMENT LENGTH PLUS 12" OR WALL TO WALL (AS INDICATED ON DRAWINGS).

AIR SEPARATOR PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	W.P.D (PSI)	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
AS-1	85.5	1.7	-	N	375	125	HWS/R	3"	4903AD

LOUVER PERFORMANCE SCHEDULE

TAG	AIR FLOW (CFM)	SP LOSS (IN.WG)	AIR VEL. (FPM)	SIZE (INCHES) (W x H)	FREE AREA (SQ.FT)	DRAINABLE (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN = RUSKIN	
								SERVICE	MODEL
L-1	-	-	-	42x18	2.32	Y	35°, 6"	MECH RM/ EMR VENT	ELF6375DX
L-2	2300	0.06	465	54x24	4.94	Y	35°, 6"	ERV-2 INTAKE	ELF6375DX
L-3	2700	0.06	491	30x48	5.50	Y	35°, 6"	ERV-1 EA DISCHARGE	ELF6375DX
L-4	3500	0.08	636	30x48	5.50	Y	35°, 6"	ERV-1 OA INTAKE	ELF6375DX

WALL/KICKSPACE HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	FLOW RATE (GPM)	W.P.D. (FT.WG)	AIRFLOW (CFM)	ENTERING WATER TEMP (DEG F)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN - VRV PRODUCTS	
						AMPS	V/PH/HZ	SERVICE	MODEL
WH-1	6.0	2.0	0.75	75	180	1.0	115/1/60	LAUNDRY 006	KS2006/KSWK
WH-2	6.0	2.0	0.75	75	180	1.0	115/1/60	STORAGE 011	KS2006/KSWK
WH-3	6.0	2.0	0.75	75	180	1.0	115/1/60	STORAGE 009	KS2006/KSWK
WH-4	8.2	2.0	0.75	100	180	1.0	115/1/60	VESTIBULE 100	KS2008/KSWK
WH-4A	7.6	2.0	0.75	100	170	1.0	115/1/60	VESTIBULE 100	KS2008/KSWK
WH-5	6.0	2.0	0.75	75	180	1.0	115/1/60	CORRIDOR 101	KS2006/KSWK
WH-6	8.2	2.0	0.75	100	180	1.0	115/1/60	GALLERY 200	KS2008/KSWK
WH-6A	7.6	2.0	0.75	100	170	1.0	115/1/60	GALLERY 200	KS2008/KSWK
WH-7	8.2	2.0	0.75	100	180	1.0	115/1/60	GALLERY 300	KS2008/KSWK
WH-7A	7.6	2.0	0.75	100	170	1.0	115/1/60	GALLERY 300	KS2008/KSWK
WH-8	6.0	2.0	0.75	75	180	1.0	115/1/60	CORRIDOR 401	KS2006/KSWK

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)		ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = MITSUBISHI 'CITY-MULTI'		
								LIQUID	GAS	MCA	MAX FUSE	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
SAC-1	18.0	320-425	4.8	3/4"	14.1	36-43	35	1/4"	1/2"	1.0	15.0	230/1/60	UNITS	WALL	PKA-18FA

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			BASIS OF DESIGN = MITSUBISHI 'CITY-MULTI'			
							MCA	MAX FUSE	V/PH/HZ	COMP. STAGING	SOUND (dBA)	SERVICE	MODEL
SCU-1	18.0	R-410A	1200	32.0	31"x14"	44.0	13.0	20.0	230/1/60	-	46.0	COMMUNITY ROOM	PUY-A18NHA

FAN PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	T.S.P (IN.WG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = GREENHECK		
						HP	BHP	WATTS	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
EF-1	295	0.40	4.4	1000	DIRECT	-	-	121	-	120/1/60	TRASH ROOM EXHAUST	CEILING-WALL*	SP-A410
EF-2	150	0.40	4.4	1050	DIRECT	-	-	129	-	120/1/60	EMR VENTILATION	CEILING-WALL*	SP-B150
SF-1	480	0.33	6.3	1550	DIRECT	1/10	0.07	-	-	120/1/60	MECH RM VENTILATION	INLINE	SQ-90-D

* - PROVIDE WITH CEILING RADIATION DAMPER

PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	HEAD (FT.WG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = TACO		
						HP	BHP	VFD	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CP-1	25.0	15.0	-	3450	-	1/6	-	N	-	120/1/60	B-1	INLINE	1400-30
CP-2	25.0	15.0	-	3450	-	1/6	-	N	-	120/1/60	B-2	INLINE	1400-30
CP-3	85.5	40.0	6.87	1760	48.0	2.0	1.81	Y	-	208/3/60	HWS/R	VERT INLINE	KV1509
CP-4	85.5	40.0	6.87	1760	48.0	2.0	1.81	Y	-	208/3/60	HWS/R	VERT INLINE	KV1509
CP-5	24.0	20.0	-	3450	-	1/6	-	N	-	120/1/60	IFWH-1	INLINE	1400-30
CP-6	24.0	20.0	-	3450	-	1/6	-	N	-	120/1/60	IFWH-2	INLINE	1400-30
CP-7	4.0	15.0	-	3250	-	1/8	-	N	-	120/1/60	RECIRC. HW	INLINE	008B

CP-7 SHALL BE ALL BRONZE CONSTRUCTION.

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	ADA FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-1A	ADA FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-2	ADA WALL HUNG LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-3	ADA SHOWER, 36"x36"	2"	2"	1/2"	1/2"
P-3A	ADA ROLL-IN SHOWER, 60"x30"	2"	2"	1/2"	1/2"
P-4	ADA SINGLE BOWL SS KITCHEN SINK**	1-1/2"	1-1/2"	1/2"	1/2"
P-4A	ADA DOUBLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	JANITORS SINK	3"	2"	3/4"	3/4"
P-6	WASHING MACHINE HOOK-UP	2"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN (W/ TRAP PRIMER)	3"	2"	1/2"*	-
FD-2	WOOD DECK FLOOR DRAIN (W/ TRAP PRIMER)	2"	1-1/2"	1/2"*	-
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-

* - TRAP PRIMER CONNECTION
** - w / DISHWASHER CONNECTIONS
MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
TRAP PRIMERS ON FLOOR DRAINS SHALL BE CONNECTED TO NEAREST FIXTURE.

CABINET UNIT HEATER PERFORMANCE SCHEDULE

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

TAG	OUTPUT (MBH)	FLOW RATE (GPM)	W.P.D (FT.WG)	AIRFLOW (CFM)	THROW	MTG.HT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = STERLING		
							HP	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CUH-1	13.9	2.0	0.24	230	-	*	1/15	0.8	120/1/60	STAIR #1 LOWER	INV. WALL	WI-1110-02
CUH-2	13.9	2.0	0.24	230	-	*	1/15	0.8	120/1/60	STAIR #2	CEILING	C-1160-02
CUH-3	18.1	2.0	0.26	335	-	*	1/15	0.8	120/1/60	L18 ENTRY	CEILING	C-1160-03

* REFER TO ARCHITECTURAL DRAWINGS, TYP. 6" AFF.
PROVIDE EACH UNIT W/ DISCONNECT SWITCH AND FILTERS.

NOTE

HYDRONIC HEATING SYSTEM TO BE FILLED WITH 35% PROPYLENE GLYCOL, 65% WATER SOLUTION. ALL EQUIPMENT PERFORMANCE SHALL BE BASED ON THE ABOVE SOLUTION PERCENTAGES.

BAYSIDE EAST

PROPOSED ELDERLY HOUSING
47 SMITH STREET, PORTLAND
FOR BAYSIDE EAST LP

TFH ARCHITECTS
100 COMMERCIAL STREET
PORTLAND MAINE 04101
TELEPHONE 207 775 6141
ARCHITECTURE PLANNING

CONSULTANTS:
BENNETT ENGINEERING
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REVISIONS:

DATE: MAY 18, 2007
PROJECT No. 0514
DRAWN BY: JMV
CHECKED BY: SPDoel
SCALE: AS NOTED

SHEET TITLE:
MECHANICAL SCHEDULES

M3.2