T:\00_TFH Projects\PROP\0114_Mellen Grant\Sand-Revised\Revised\Whitney\021004 bid docs\100%\R2.2.dwg, Model, 2/27/2004 4:00:49 PM

LOUVER SCHEDULE

TAG	SIZE W	SIZE H	SERVICE	CFM	FREE AREA (SQ FT)	APD (IN. W.G.)	NOTES
L-1	80"	18"	COMBUSTION AIR & VENTILATION INTAKE	-	3.7	.05	-
L-2	38"	18"	BLANKED OFF LOUVER	-	-	-	-
L-3	38"	18"	VENTILATION EXHAUST	520	1.0	.05	-
L-4	38"	18"	DRYER EXHAUST	-	.70	.05	-
L-5	24"	24"	VENTILATION INTAKE	1150	1.89	.05	1
L-6	12"	18"	VENTILATION EXHAUST	450	1.2	.05	1
L-7	36"	12"	VENTILATION EXHAUST	150	0.5	.05	-
L-8	36"	12"	VENTILATION INTAKE	150	0.5	.05	-
L-9	36"	18"	COMBUSTION AIR	-	1.9	.05	1

NOTES: 1. PROVIDE MOTOR OPERATED DAMPER
2. RUSKIN ELF375D OR EQUAL

PUMP SCHEDULE

TACO

TAG	SERVICE	TYPE	TACO MODEL #	GPM	TDH (FT)	HP	RPM	POWER
P-1	BOILER 1 CIRCULATOR	IN-LINE	006	5	2	1/6	-	120/60/1
P-2	BOILER 2 CIRCULATOR	IN-LINE	006	5	2	1/6	-	120/60/1
P-3	BOILER 3 CIRCULATOR	IN-LINE	006	4	3	1/6	-	120/60/1
P-4	BOILER 4 CIRCULATOR	IN-LINE	006	4	2	1/6	-	120/60/1
P-5	BOILER 5 CIRCULATOR	IN-LINE	006	4	2	1/6	-	120/60/1
P-6	A BLDG PROP HEATING	IN-LINE	1619	46	47	1.25	1750	230/60/1
P-7	A BLDG PROP HEATING	IN-LINE	1619	46	47	1.25	1750	230/60/1
P-8	A BLDG TENANT HEATING	IN-LINE	1615	22	33	.75	1750	230/60/1
P-9	A BLDG TENANT HEATING	IN-LINE	1615	22	33	.75	1750	230/60/1
P-10	A BLDG PROP DHW CIRCULATOR	IN-LINE	-	-	-	1/25	3250	120/60/1
P-11	A BLDG TENANT DHW CIRCULATOR	IN-LINE	-	-	-	1/25	3250	230/60/1
P-12	B BLDG TENANT HEATING	IN-LINE	1615	34.5	33	.75	1750	230/60/1
P-13	B BLDG TENANT HEATING	IN-LINE	1615	34.5	33	.75	1750	120/60/1
P-14	B BLDG DHW CIRCULATOR	IN-LINE	-	X	X	1/25	3250	120/60/1

NOTES: BOILER CIRCULATION PUMPS PROVIDED BY BOILER MANUFACTURE. PUMP POWER SUPPLY TO BE THROUGH BOILER ON/OFF SWITCH.

UNIT HEATER SCHEDULE

UNIT	MAKE MODEL NO.	EWT (°F)	EAT (°F)	MBH	POWER	AMPS
UH-1	STERLING HS-48	200	65	30.1	120/1/60	1.1
UH-2	STERLING HS-36	200	65	21.5	120/1/60	1.3
WH-1	BEACON/MORRIS W42	170	65	3.8	120/1/60	0.5

NOTES: 1. MANUFACTURER AND MODEL NUMBER GIVEN FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE.

CONVECTOR SCHEDULE

UNIT	TRANE MODEL NO.	DEPTH	LENGTH	EWT (°F)	EAT (°F)	BTU/HR
CONV-1	SK-26	6"	62"	200	65	7900
CONV-2	SFK-26	6"	38"	200	65	5400
CONV-3	SFK-26	6"	26"	200	65	2400
CONV-4	SFK-26	6"	26"	200	65	2400

NOTES: 1. MANUFACTURER AND MODEL NUMBER GIVEN FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE.

HEAT RECOVERY VENTILATOR

TAG	RENEWAIRE MODEL	CAPACITY	WINTER EFFICIENCY @ 300 CFM	POWER	MAX. AMPS	REMARKS
HRV-1	EV-300	300 CFM @ 0.4" W.G.	60	115/60/1	3.3	-
HRV-2	EV-300	300 CFM @ 0.4" W.G.	60	115/60/1	3.3	-
HRV-3	EV-450	450 CFM @ .75" W.G.	62	230/60/1	1.5	-
HRV-4	EV-200	150 CFM @ 0.65" W.G.	70	115/60/1	1.5	-

NOTES: 1. MANUFACTURER AND MODEL NUMBER GIVEN FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE.

HOT WATER HEATING BOILER SCHEDULE

TAG	FUEL	CAPACITY-MBH INPUT	CAPACITY-MBH OUTPUT	CAPACITY-MBH NET IBR	BURNHAM MODEL NO.	BOILER WATER FLOW GPM	BOILER WATER FLOW TEMP RISE	BOILER WATER FLOW PD.(FT)	BURNER GAS PRESSURE MIN/MAX (IN. W.G.)	BURNER CONTROL	GAS CONNECTION	WEIGHT LBS.	NOTES
B-1	N. GAS	396	316.8	275	807B	21	30	2.0	6.0/14	24 VAC W/ MECH. GAS FLOW MODULATION	1"	875	
B-2	N. GAS	396	316.8	275	807B	21	30	2.0	6.0/14	24 VAC W/ MECH. GAS FLOW MODULATION	1"	875	
B-3	N. GAS	330	264	230	806B	28	30	3.0	6.0/14	24 VAC W/ MECH. GAS FLOW MODULATION	1"	770	
B-4	N. GAS	330	264	230	806B	17	30	2.0	6.0/14	24 VAC W/ MECH. GAS FLOW MODULATION	1"	770	
B-5	N. GAS	330	264	230	806B	17	30	2.0	6.0/14	24 VAC W/ MECH. GAS FLOW MODULATION	1"	770	

NOTE: ANY ALTERNATIVE BOILERS MUST FIT IN SPACE PROVIDED.

DIFFUSER/REGISTER/GRILLE SCHEDULE

UNIT	DESCRIPTION	SIZE	CFM	MAX NC	THROW (FT)	T.P. " W.C.	TITUS MODEL	NOTES
A	SQUARE CEILING DIFFUSER WITH FIRE DAMPER	12"W X 12"L	10-50	25	---	.05	TMS-FR	FIRE RATED, FIXED PATTERN, SURFACE MOUNT ADJUSTABLE VOLUME DAMPER, WHITE FINISH
B	SQUARE CEILING RETURN WITH FIRE DAMPER	12"W X 12"L	10-100	25	---	.05	PAR-FR	FIRE RATED, PERFORATED PLATE, SURFACE MOUNTED, ADJUSTABLE VOLUME DAMPER, WHITE FINISH
C	WALL SUPPLY REGISTER	8"W X 6"H 12"W X 8"H	20-100 101-350	25	---	.05	301-RL	SINGLE DEFLECTION, ADJUSTABLE BLADES, VOLUME DAMPER TO BE SURFACE MOUNTED, WHITE FINISH
D	WALL RETURN REGISTER	8"W X 6"H 12"W X 8"H	20-100 101-250	25	---	.05	355-RL	SINGLE DEFLECTION, FIXED BLADES, VOLUME DAMPER, TO BE SURFACE MOUNTED, WHITE FINISH
E	WALL RETURN GRILLE	12"W X72"H	1700	25	---	.05	23RS	FIXED CURVED BLADS AT 3/4" SPACING, SURFACE MOUNT, STEEL WITH WHITE FINISH
F	TRANSFER GRILLE	30"W X14"H	1150	-	---	.01	1700L	REVERSABLE CORE, SURFACE MOUNT, WHITE
G	CONICAL DUCT GRILLE	6"D 4"D	71-100 15-70	25	---	.05	---	CONICAL INDUSTRIAL/COMMERCIAL AIR TERMINALS STEEL WITH STEEL WIRE MESH SCREEN, WHITE
H	WALL RETURN GRILLE	48"W X10"H	1000	25	---	.05	23RL	FIXED CURVED BLADS AT 3/4" SPACING, SURFACE MOUNT, STEEL WITH WHITE FINISH

NOTES: 1. MANUFACTURER AND MODEL NUMBER GIVEN FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE.

VALVE SCHEDULE

-

TAG	TYPE	BODY MATERIAL	SIZE RANGE	MANUFACTURER	MODEL	REMARKS
V-1	FULL PORT BALL	BRONZE / 316 SS BALL	1/2" - 2"	APOLLO	77-24X	-
V-2	CONSTANT FLOW	BRASS	1/2" - 1"	AUTOFLOW	BRL	MAX. △ P AT RATED FLOW = 5 PSI
V-3	ZONE	BRASS	1/2" - 3/4"	BELIMO	Z820T + SEF24	ANY ALTERNATIVE VALVE MUST FIT IN BASEBOARD
V-4	GATE	BRONZE 2" AND SMALLER IRON W/ BRONZE TRIM 2 1/2" AND LARGER	1/2" - 3"	MILWAUKEE	105	- -
V-5	MULTI-PURPOSE	IRON/STEEL WITH BRONZE TRIM	2"	TACO	MPV-30	-
V-6	BACK-FLOW PREVENTER	BRONZE WITH STAINLESS STEEL TRIM	3/4"	WATTS	9D	-
V-7	CIRCUIT SETTER	BRONZE 2" AND SMALLER	1/2' - 2"	BELL & GOSSETT	CB-2	- -
V-8	ZONE	BRASS	1"	TACO	572	-
V-9	CHECK	BRONZE	1/2" - 2"	MILWAUKEE	509	-

NOTES: MANUFACTURER AND MODEL NUMBER ARE GIVEN FOR REFERENCE. CONTRACTOR MAY USE APPROVED EQUAL.

FAN SCHEDULE

TAG		EF-1	KHEF-1	EF-2	EF-3	RHEF-1
QUANTITY		31	1	2	1	16
LOCATION		APT. BATHRMS	ROOF	RMS A006, A121	ATTIC	APT RANGES
SERVICE		BATH RM EXH	KITCH. EXH.	EXHAUST	EXHAUST	RANGE EXHAUST
MAKE		COOK	COOK	COOK	COOK	NUTONE
MODEL		GC-140/CRD-1	135 V5B	GC-140/CRD-1	GN-140	MM6500 - 30"
BLOWER DATA	C.F.M.	105	1350	105	105	190
	S.P. "WC	.125	1.0	.125	.125	0.1
	TYPE	CEIL. FAN/FD	CENTRIFUGAL	CEIL. FAN/FD	IN-LINE FAN	CENTRIFUGAL
	DRIVE	DIRECT	BELT	DIRECT	DIRECT	DIRECT
MOTOR DATA MECH	H.P OR WATTS	70	0.5	70	70	240 W/ LIGHT
	R.P.M.	-	-	-	-	-
MOTOR DATA ELEC	VOLTS	120	120	120	120	120
	PHASE	1	1	1	1	1
	HERTZ	60	60	60	60	60
SONES		1.5	--	1.5	1.5	7.0
REMARKS		BY DIV. 15	BY DIV. 15	BY DIV. 15	BY DIV. 15	BY DIV. 15
SOLID STATE SPEED		NO	NO	NO	NO	NO
CONTROL		BY DIV. 16	BY DIV. 15	BY DIV. 16	BY DIV. 16	BY DIV. 15
GRAVITY DAMPER		YES	NO	YES	YES	NO
FIRE DAMPER		YES		YES	NO	NO

NOTES: 1. MANUFACTURER AND MODEL NUMBER GIVEN FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE.

HYDRONIC HEATING SPECIALTY LIST

-

TAG	TYPE	CAPABILITY	SIZE	MANUFACTURER	MODEL	REMARKS
HSP-1	EXPANSION TANK	12 GALLONS ACCEPTANCE	22 GALLON TANK	TACO	CAX-84	-
HSP-2	AIR SEPARATOR	1 PSI PRESSURE DROP @ 42 GPM	2" LINE SIZE	TACO	VRTX200	-
HSP-3	PRESSURE REDUCING VALVE	INLET PRESSURE = 60 PSIG , OUTLET SET POINT = 25 PSIG	3/4"	TACO	335	BRONZE BODY, PROVIDE SPARE DIAPHRAGM
HSP-4	DIFFERENTIAL PRESSURE REGULATOR	16 PSID, 8.0 GPM TO 40 GPM	2"	SPENCE	N6 - 2", 5 - 50 PSID SPRING	IRON BODY, STAINLESS STEEL TRIM, PROVIDE SPARE SEAL RING AND GASKET
HSP-5	EXPANSION TANK	5 GALLONS ACCEPTANCE	11 GALLON TANK	TACO	CAX-42	
HSP-6	AIR SEPARATOR	1 PSI PRESSURE DROP @ 29 GPM	2" LINE SIZE	TACO	VRTX200	-
HSP-7	PRESSURE REDUCING VALVE	INLET PRESSURE = 60 PSIG , OUTLET SET POINT = 30 PSIG	3/4"	TACO	335	BRONZE BODY, PROVIDE SPARE DIAPHRAGM
HSP-8	DIFFERENTIAL PRESSURE REGULATOR	10 PSID, 8 GPM TO 27 GPM	2"	SPENCE	N6 - 2", 5 - 50 PSID SPRING	IRON BODY, STAINLESS STEEL TRIM, PROVIDE SPARE SEAL RING AND GASKET
HSP-9	EXPANSION TANK	12 GALLONS ACCEPTANCE	22 GALLON TANK	TACO	CAX-84	
HSP-10	AIR SEPARATOR	1 PSI PRESSURE DROP @ 34.5 GPM	2" LINE SIZE	TACO	VRTX200	
HSP-11	PRESSURE REDUCING VALVE	INLET PRESSURE = 60 PSIG , OUTLET SET POINT = 30 PSIG	3/4"	TACO	335	BRONZE BODY, PROVIDE SPARE DIAPHRAGM
HSP-12	DIFFERENTIAL PRESSURE REGULATOR	10 PSID, 7 GPM TO 32.5 GPM	2"	SPENCE	N6 - 2", 5 - 50 PSID SPRING	IRON BODY, STAINLESS STEEL TRIM, PROVIDE SPARE SEAL RING AND GASKET

NOTES: MANUFACTURER AND MODEL NUMBER ARE GIVEN FOR REFERENCE. CONTRACTOR MAY USE APPROVED EQUAL.

OUTDOOR HVAC UNIT SCHEDULE

SYMBOL		OACU-1	OACU-2
SERVICE		AH-1	AH-1
MAKE		TRANE	TRANE
MODEL		TTR-048	TTR-048
TYPE		AIR COOLED	AIR COOLED
COOL CAP MBH	SENSIBLE	25.8	25.8
	TOTAL	47.3	47.3
AMBIENT AIR F		95	95
EER/SEER MINIMUM		10.5	10.5
ELECTRICAL	VOLTAGE	208/230	208/230
	HERTZ	60	60
	PHASE	1	1
	R.L.A. COMPRESSOR	24.4@230V	24.4@230V
	L.R.A. COMPRESSOR	140@230V	140@230V
	MCA	32.0	32.0
	FUSE MAX AMPS	50	50
	LOW AMBIENT	0°F	0°F
WT LBS.		-	-
SOUND POWER		80 dBA	80 dBA
REMARKS PROVIDE EQUIPMENT RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATION			

NOTES:
1. MANUFACTURER AND MODEL PROVIDED FOR REFERENCE. APPROVED EQUAL IS ACCEPTABLE

BASEBOARD RADIATOR SCHEDULE

TAG	MAKE MODEL	TUBE SIZE	BTU/FT NOTE 1	REMARKS
RAD-1	STERLING LB-R04	3/4"	950	16 GAUGE ENCLOSURE
RAD-2	SLANT-FIN 83-A2	3/4"	890	MULTI-PAK 80 NO SUBSTITUTES

NOTES: 1. OUTPUT AT 200°F EWT, 65°F EAT, 1 GPM

DUCT COIL

TAG	CFM	EAT (°F)	LAT (°F)	MBH	GPM	WPD (FT)	APD " W.C.	HEIGHT	WIDTH	NOTES
DC-1	300	55	70	4.9	0.5	10	0.1	8	8	
DC-2	300	55	70	4.9	0.5	10	0.1	8	8	
DC-3	450	55	70	7.3	0.5	10	0.1	8	10	
DC-4	150	55	70	2.4	0.5	10	0.1	6	6	

KITCHEN HOOD SCHEDULE

UNIT	DESCRIPTION	TYPE	DIMENSIONS	EXHAUST AIR FLOW	COMPENSATING AIR FLOW	NOTES
KH-1	KITCHEN RANGE EXHAUST HOOD	WALL COMMERCIAL KITCHEN HOOD	4'-0"L X 3'-0" DEEP	1350 CFM	NONE	

AIR HANDLER SCHEDULE

UNIT	AREA SERVED	TRANE MODEL	CFM	OA CFM	HP	POWER	EXT. S.P. "W.C.	HEATING MBH	COOLING MBH	SENSIBLE MBH	RPM	EWT (°F)	NOTES
AH-1	COMMUNITY ROOM 113	TWE090B	2700	1150	1.5	230/60/1	0.6	122	94.6	51.6	816	200	1. PROVIDE WITH DUAL CIRCUIT DX COIL

NOTES: 1. CONTROLLED THROUGH ATC
2. MANUFACTURER AND MODEL PROVIDED FOR REFERENCE, APPROVED EQUAL IS ACCEPTABLE

STATE OF MAINE
RICHARD P. WHITNEY No. 4844
REGISTERED PROFESSIONAL ENGINEER

© TFH ARCHITECTS

PROP

GRANT & MELLEN SREET
PARKSIDE NEIGHBORHOOD CENTER & AFFORDABLE HOUSING
PEOPLE'S REGIONAL OPPORTUNITY PROGRAM
PORTLAND, MAINE

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

CONSULTANTS:

CIVIL:
Pinkham & Greer
170 US Route One
Falmouth, ME 04105
207-781-5242

STRUCTURAL:
Structural Design Consulting
Five Balsam Lane
Falmouth, ME 04105-2448
207-878-8038

MECHANICAL:
Whitney Engineering
10 Danforth Place
Portland, ME 04102
207-833-2921

ELECTRICAL:
Bennett Engineering
7 Bennett Road
Freeport, ME 04032
207-865-9475

REVISIONS:

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DATE: 01/29/04
PROJECT No. 0114
DRAWN BY: AWH
CHECKED BY: RPW
SCALE: AS NOTED

SHEET TITLE:

HVAC SCHEDULES

HVAC2.2