

BOILER PERFORMANCE SCHEDULE										
TAG	1-B.R. RATINGS	FUEL	HEATING SURFACE	BOILER HEIGHT	ELECTRICAL REQUIREMENTS	BASIS OF DESIGN (M.P. Products "Lundberg")				
	GROSS NET	TYPE	BTU/HR	FEET	HP WATTS	VOLTS	SERVICE	BURNER MAKE	BURNER MODEL	MODEL
B1	37.0	37.0	NS	53'	-	240V	HEAVY	-	-	3921

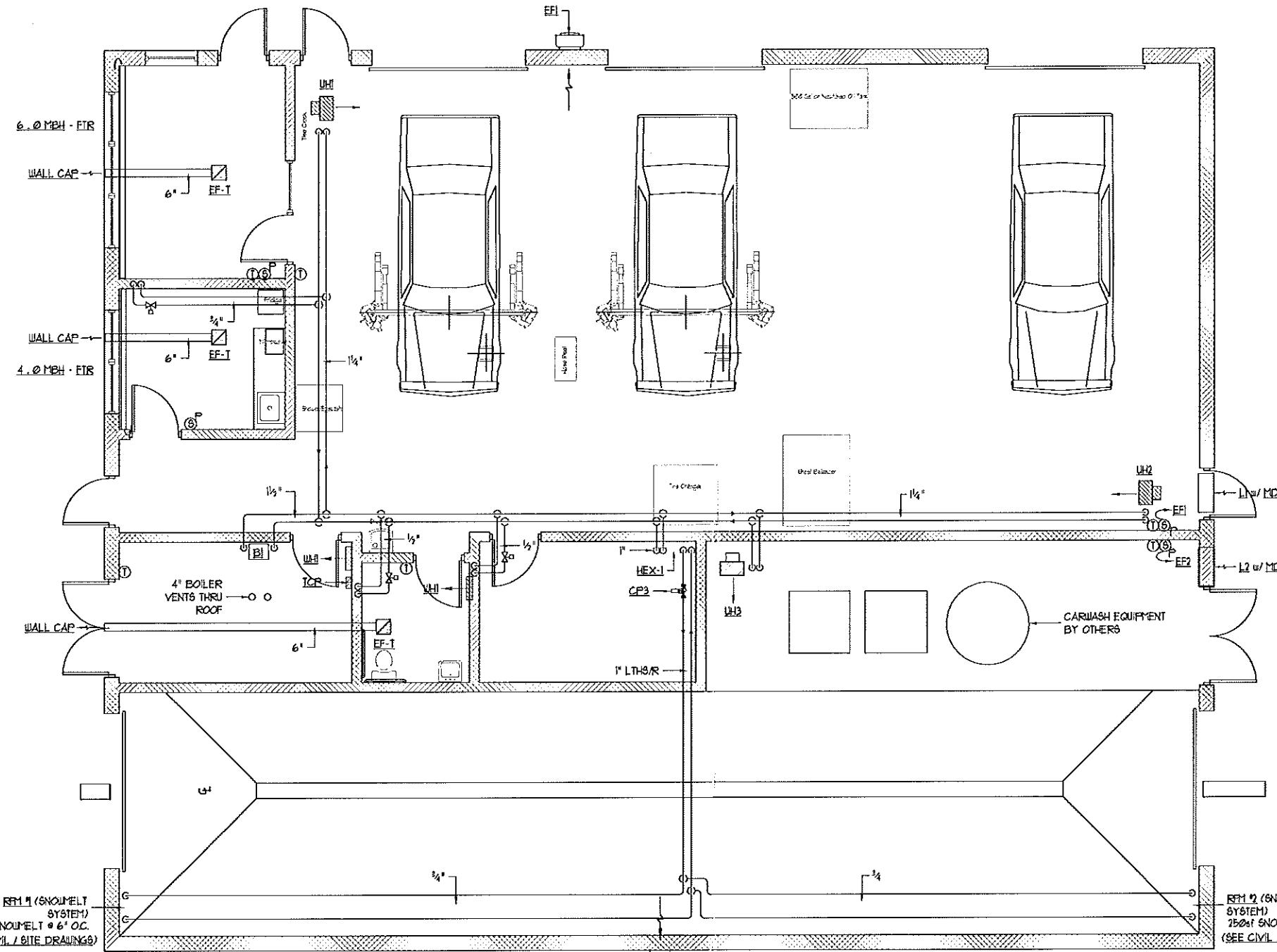
AIR SEPARATOR PERFORMANCE SCHEDULE									
TAG	FLOW RATE (GPM)	ORIFICE FACTOR	STRAINER (Y) OR (N)	MAX WORKING PRESSURE (PSI)	MAX WORKING TEMPERATURE (DEGREES F)	SERVICE	PIPE SIZE (IN)	MODEL	
AS	25.0	1.4	N	150	250	HEAVY	2	4500 A-D	
AS1	4.0	1.4	N	150	250	SHOWER	1	45-1	

WALL 4 UNIT HEATER PERFORMANCE SCHEDULE										
TAG	OUTPUT (BTU)	FLOW RATE (GPM)	W.P. (PSI)	ANNUAL FLOW (GPD)	HEIGHT	ELECTRICAL REQUIREMENTS	BASIS OF DESIGN (B1) Heating (B) Service Environment			
						HP WATTS	VOLTS	SERVICE	ARRANGEMENT	MODEL
UH	8.1	1.0	30	360	84"	18	240V	-	WALL HEATER	(B1)H-20
UH1	45.0	3.0	30	360	84"	18	240V	-	HORIZONTAL	(B1)H-20
UH2	45.0	3.0	30	360	84"	18	240V	-	HORIZONTAL	(B1)H-20
UH3	10.1	4.0	30	480	144"	18	240V	-	HORIZONTAL	(B1)H-20

PUMP PERFORMANCE SCHEDULE											
TAG	FLOW RATE (GPM)	HEAD (FEET)	PIPE SIZE	HP	EFF %	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (T) TACO, (D) VILLO MISTRAL		
						HP	EFF %	VOLTS	SERVICE	ARRANGEMENT	MODEL
CP1	25.0	10.0	1"	1/2	75	1/2	75	240V	BOILER PUMP	N-LINE	(T)12400-40
CP2	25.0	24.0	1"	1/2	75	1/2	75	240V	STATION PUMP	N-LINE	(T)12400-30
CP3	1.0	25.0	1"	1/2	75	1/2	75	240V	SHOWER	N-LINE	(T)12400-30

FAN PERFORMANCE SCHEDULE											
TAG	APPROX. (CFM)	TAP (INCH)	NOISE (dBA)	HP	EFF %	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (T) PARSONS, (G) GREENHECK		
						HP	EFF %	VOLTS	SERVICE	ARRANGEMENT	MODEL
EF-1	60	0.1	0.3	1/8	75	1/8	75	240V	TOILETS	CEILING	(T)1700-0020
EF	7000	0.1	0.3	1/2	75	1/2	75	240V	MAINTENANCE BAY	SIDEWALL	(G)1200-10-5
EF2	7000	0.1	0.3	1/2	75	1/2	75	240V	CAR BAY BAY	SIDEWALL	(G)1200-10-5

EXPANSION TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. PRESS. (PSI)	MAX. WORKING PRESSURE (PSI)	MAX. WORKING TEMPERATURE (DEGREES F)	HEIGHT (FEET)	BASIS OF DESIGN (T) TACO, (A) AIRVAL		
							HOISTING	SERVICE	MODEL
ET1	51.0	51.0	34	146	250	25	FLOOR	HEAVY	(T) CA-1B
ET2	1.0	5.0	3.4	146	250	25	FLOOR	SHOWER	(T) CA1-Q



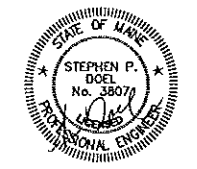
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 MAR 12 2012
 Dept. of Building Inspections
 City of Portland Maine

CONVECTOR / FINETUBE PERFORMANCE SCHEDULE										
TAG	OUTPUT (BTU)	FLOW RATE (GPM)	HEIGHT (FEET)	ENCLOSURE HEIGHT (FEET)	ENCLOSURE LENGTH (FEET)	ELEMENT LENGTH (FEET)	CONTROL VALVE	BASIS OF DESIGN (STERLING)		
								PIPE SIZE (IN)	FINESPOOT NO. OF TUBS	MODEL
FTR	0.10	2.0	H	I	-	-	V-5	3/4	60	JVC-61

LOWER PERFORMANCE SCHEDULE										
TAG	AIR FLOW (CFM)	SP. LOSS (IN. WG)	AN. VEL. (FPM)	SIZE (INCHES)	FREE AREA (SQ. FT.)	FRAN. ANGLE (DEGREES)	BLADE ANGLE (DEGREES)	FRAME DEPTH	BASIS OF DESIGN (MURK)	
									SERVICE	MODEL
L1	7000	0.05	3000	5.1	Y	30	6	EF1 INTAKE	ELF5700X	N
L2	7000	0.05	3000	5.1	Y	30	6	EF2 INTAKE	ELF5700X	N



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REVISIONS		
#	DATE	DESCRIPTION
1	9-1-11	BID SET
2	9-9-11	FOR CONSTRUCTION

Date Issued: SEPTEMBER 9, 2011
 Project Number: 11101
 Drawing Scale: 1/8"=1'-0"
 SHEET NAME: HVAC Plan and Schedules
 Drawn By: SP Doel
 Checked By: SP Doel

BOILER PERFORMANCE SCHEDULE															
TAG	IN-RATE (GPM)	NET	DOE (HP/DO)	FUEL	HEATING EFFICIENCY	BOILER SECTIONS	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (NIP Products "Munroe")					
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL									
BS	37.0	0	37.0	0	NS	SSA	-	-	-	DAV60	HEAR	-	-	-	3991

AIR SEPARATOR PERFORMANCE SCHEDULE										
TAG	FLOW RATE (GPM)	SPD (FPM)	CF	STRAINER (1/16" O.D.)	MAX WORKING TEMPERATURE (DEGREES F)	MAX WORKING PRESSURE (PSI)	BASIS OF DESIGN TACO			MODEL
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL				
AS	25.0	1.4	-	N	250	50	HEAR	1/2"	1/2"	4785 A-D
AS	4.0	1.4	-	N	250	50	BOHELT	1	1	43-1

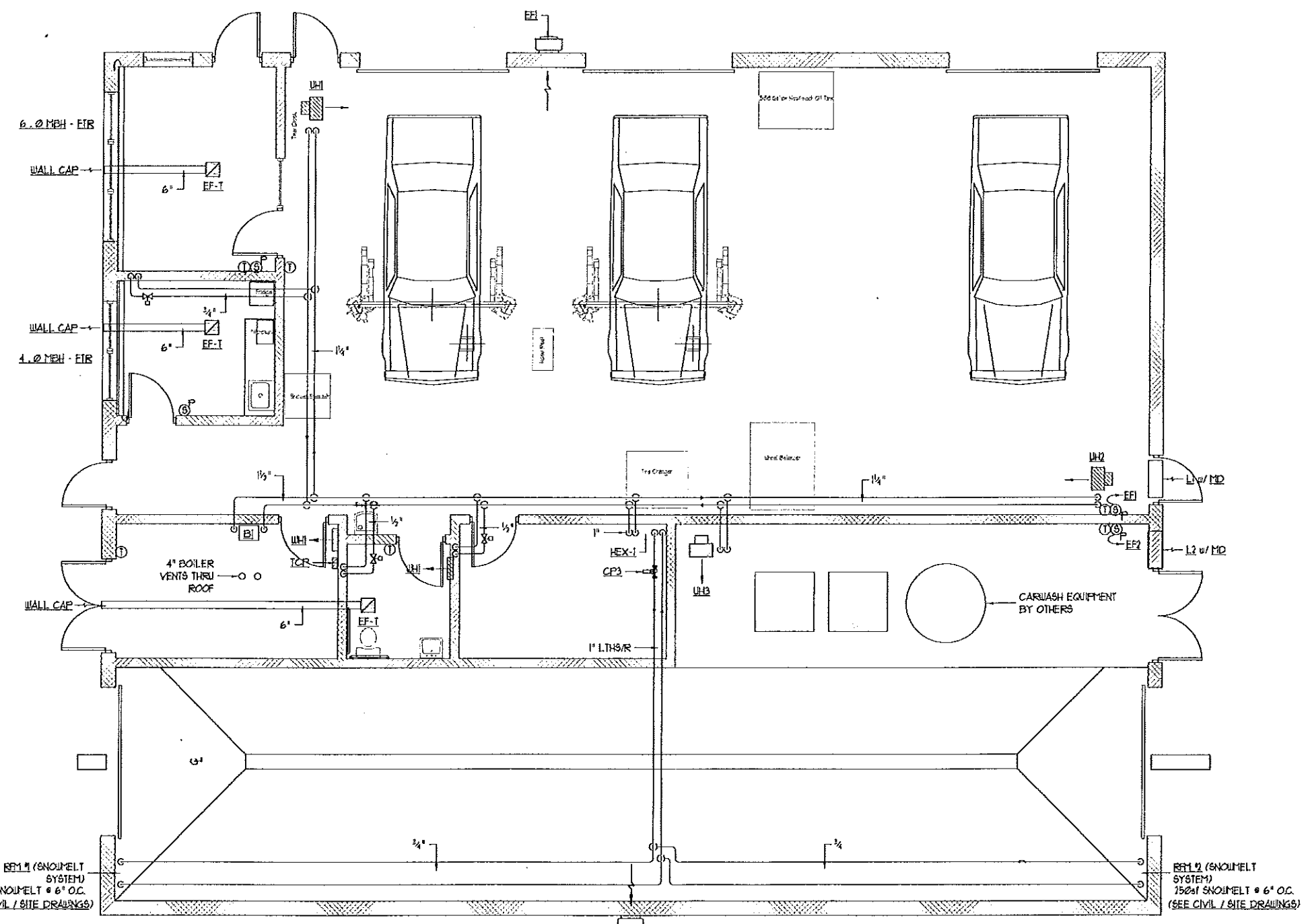
WALL UNIT HEATER PERFORMANCE SCHEDULE										
TAG	OUTPUT (BTU)	FLOW RATE (GPM)	W.P.D. (FT/DO)	APPROX. (DO)	HEIGHT	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (NIP Heating (N) Ser's Environmental)	
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL				
UH	6.1	1.0	-	80	-	80	DAV60	-	HEAR	(N) K25006
UH	45.0	3.0	0.0	350	30"	84"	1/8"	DAV60	-	HORIZONTAL (N) 116-TJ
UH	45.0	3.0	0.0	350	30"	84"	1/8"	DAV60	-	HORIZONTAL (N) 116-TJ
UH	12.1	4.0	0.0	350	40"	144"	1/8"	DAV60	-	HORIZONTAL (N) 116-TJ

EXPANSION TANK PERFORMANCE SCHEDULE										
TAG	TANK VOLUME (GAL)	ACCEPTANCE (GAL)	MIN. HEAD (PSI)	MAX. WORKING TEMPERATURE (DEGREES F)	MAX. WORKING PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN (TACO (A) AIRTEL)			MODEL
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL				
ET	31.0	31.0	31.0	240	50	250	FLOOR	HEAR	-	(T) CA-1B
ET	1.0	1.0	1.0	240	50	100	FLOOR	BOHELT	1	(T) CEX-2

PUMP PERFORMANCE SCHEDULE													
TAG	FLOW RATE (GPM)	HEAD (FT)	PIPE SIZE	HP	EFF %	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (TACO (A) UNO "Munroe")				
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL							
CP	25.0	10.0	-	705	-	1/8"	-	-	1.5	DAV60	BOILER PUMP	N-LINE	(T) 1400-40
CP	25.0	24.0	-	705	-	1/4"	-	-	1.5	DAV60	SYSTEM PUMP	N-LINE	(T) 1.70 x 3.30 3
CP	4.0	25.0	-	3400	-	1/2"	-	-	1.5	DAV60	BOHELT	N-LINE	(T) 1400-30

FAN PERFORMANCE SCHEDULE													
TAG	APPROX. (CFM)	TAP (INCH)	NOISE (dBA)	FRONT	DRIVE	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN (F) PANASONIC (G) GREENBEC				
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL							
EF-1	60	0.1	0.3	TB	DIRECT	-	-	25.1	-	DAV60	TOILETS	CEILING	(F) FV-00020
EF	2500	0.1	0.3	STI	BELT	1/2"	0.4	-	5.0	DAV60	MAINTENANCE BAY	ROOFWALL	(G) CUB-14-3
EF	2500	0.1	0.3	STI	BELT	1/2"	0.35	-	7.2	DAV60	CAR WASH BAY	ROOFWALL	(G) CUB-14-3

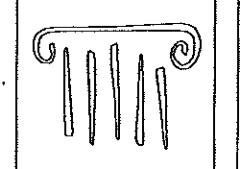
Note: All fans shall have galling backdraft dampers.



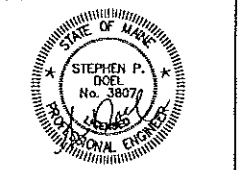
CONVECTOR / FIN-TUBE PERFORMANCE SCHEDULE											
TAG	OUTPUT (BTU)	FLOW RATE (GPM)	HEIGHT (FT)	EXPOSURE (HEIGHT)	EXPOSURE (LENGTH)	ELEMENT (LENGTH)	CONTROL VALVE	BASIS OF DESIGN STERLING			MODEL
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL					
FTR	6.30	2.0	H	I	-	-	V-5	34	50	1	JAK-01

1 - SIZE ELEMENT TO MATCH HEAT OUTPUT INDICATED ON DRAWING.
 2 - EXPOSURE SHALL BE RUN WALL-TO-WALL EXCEPT AS OTHERWISE NOTED.

LOUVER PERFORMANCE SCHEDULE											
TAG	AREA (SQ. FT)	HP LOSS (IN. WG)	AREA (SQ. FT)	BLADE ANGLE (DEG.)	FRAME DEPTH (IN.)	BASIS OF DESIGN RUSCH			MODEL		
HP	WATTS	VPHHZ	REVERSE	RUNNER MAKE	RUNNER MODEL	MODEL					
L1	2500	0.05	-	30°	3.1	Y	35°	6"	EF 1 INTAKE	ELF43BOX	N
L2	2500	0.05	-	30°	3.1	Y	35°	6"	EF 2 INTAKE	ELF43BOX	N



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 Portland, Maine

REVISIONS		
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1	9-1-11	BID SET
2	9-9-11	FOR CONSTRUCTION

Date Issued: SEPTEMBER 9, 2011

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Drawing Scale: 6-SHEET NAME

HVAC Plan and Schedules

Drawn By: SP Doel
 Checked By: SP Doel

