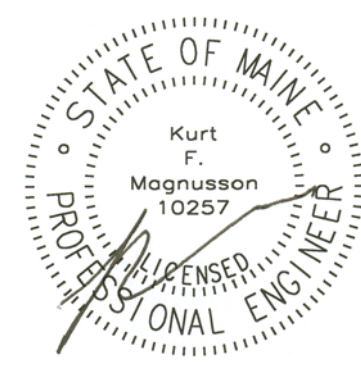


AIR HANDLING UNIT SCHEDULE

TAG	AREA SERVED	SUPPLY FAN				EXHAUST FAN				ELECTRIC			DIRECT EXPANSION COOLING COIL					MIN. O.A.	WEIGHT (LBS)	REMARKS	
		CFM	ESP	RPM	HP	RPM	HP	PHASE	FLA	POWER	MIN. AMPS	MAX. CK'T AMPS	AMB.	EDB	EWB	SENS.	TOTAL				KW
AHU-1	LOCKER & WEIGHT ROOMS	1400	0.60"	628	¾	N/A	N/A	N/A	N/A	208V-60-1P	31.6	50.0	95	80	67	31.4	41.9	3.5	25.0%	574	ROOF MOUNTED, DOWN FLOW
AHU-2	GENERAL OFFICE SPACES	3,000	1.20"	915	2	1.075	0.87	1	5.7	208V-60-3P	43.3	50.0	95	80	67	64.1	84.0	7.8	20.0%	1200	ROOF MOUNTED, DOWN FLOW
AHU-3	CRIME LAB	2,600	1.00"	808	2	1.075	0.87	1	5.7	208V-60-3P	43.3	50.0	95	80	67	63.6	91.4	7.5	10.0%	1200	ROOF MOUNTED, DOWN FLOW

GENERAL NOTES

1. HVAC Contractor shall coordinate work with all other trades.
2. All piping and ductwork shall be run concealed and on warm side of building insulation unless noted otherwise.
3. Piping and ductwork is shown diagrammatically. Exact locations to be adjusted as required to suit field conditions.
4. All duct sizes indicated are outside (sheet metal) dimensions.
5. All cutting and patching shall be provided by General Contractor.
6. All square elbows in ductwork shall have turning vanes.
7. Refer to reflected ceiling plans for exact locations of all ceiling registers, diffusers and grilles.
8. All duct coils, fire dampers and motor operated dampers shall have duct access doors as large as possible up to 12"x12"
9. All dimensions are approximate and are to be verified in the field.
10. Heating systems designed for 180°F. water leaving the boilers with a 20°F. temperature drop throughout the system.
11. All branch water piping to individual terminal heating units to be not less than 3/4" unless noted otherwise.
12. All reductions in steam pipe sizes in the direction of flow shall be accomplished with eccentric reducers. Reducing tee fittings are not acceptable.
13. All reductions in water pipe sizes in the direction of flow shall be accomplished with inverted eccentric reducers. Reducing tee fittings are not acceptable.
14. Provide automatic air vents at all locations where water piping drops in the direction of flow, at all high points and elsewhere as indicated on drawings.
15. Provide drains at all low points in the water piping system.
16. All removed materials shall remain the property of the Owner until such time that the Owner's authorized representative has reviewed the removed materials and taken what the Owner wishes to retain. All remaining items shall become the property of the Contractor and shall be immediately removed from the premises by the Contractor.



VARIABLE AIR VOLUME UNIT SCHEDULE

UNIT TAG	AREA SERVED	VALVE SIZE	VALVE CFM		VALVE FPM	HEATING COIL								REMARKS				
			MAX.	MIN.		CFM(1)	CFM(2)	ROWS	F.V.	EAT	LAT	MBH	EWT		GPM	WTD	WPD	S.P.
VAV-01	226 PBA OFFICE	4	90	30	1,031	90	90	1	129.6	55	112.9	5.65	180	0.50	22.6	0.53	0.01	SINGLE DUCT TERMINAL
VAV-02	227 SOA OFFICE	4	90	30	1,031	90	90	1	129.6	55	112.9	5.65	180	0.50	22.6	0.53	0.01	SINGLE DUCT TERMINAL
VAV-03	228 RECORDS UNIT	8	600	200	1,719	200	200	1	785.5	55	96.8	4.08	180	0.50	36.3	0.71	0.20	SINGLE DUCT TERMINAL
VAV-04	229 FILE STORAGE	4	90	30	1,031	90	90	1	129.6	55	112.9	5.65	180	0.50	22.6	0.53	0.01	SINGLE DUCT TERMINAL
VAV-05	230 BREAK ROOM	6	280	90	1,426	90	90	1	403.2	55	112.9	5.65	180	0.50	22.6	0.53	0.14	SINGLE DUCT TERMINAL
VAV-06	234 CORRIDOR	4	150	50	1,719	85	85	1	216.0	55	114.7	5.51	180	0.50	22.0	0.53	0.03	SINGLE DUCT TERMINAL
VAV-07	305 CORRIDOR	4	135	45	1,547	85	85	1	144.4	55	114.7	5.51	180	0.50	22.0	0.53	0.03	SINGLE DUCT TERMINAL
VAV-08	306 PHOTOGRAPHY	6	260	90	1,324	90	90	1	374.4	55	112.9	5.65	180	0.50	22.6	0.53	0.12	SINGLE DUCT TERMINAL
VAV-09	307 IMAGE MANAGEMENT	4	155	50	1,716	85	85	1	223.2	55	114.7	5.51	180	0.50	22.0	0.53	0.03	SINGLE DUCT TERMINAL
VAV-10	308 AFIS	6	300	100	1,528	100	100	1	432.0	55	109.5	5.41	180	0.50	23.6	0.53	0.16	SINGLE DUCT TERMINAL
VAV-11	313 OPEN OFFICE	10	850	280	1,558	280	280	1	128.6	55	103.4	14.70	180	1.00	24.4	3.28	0.18	SINGLE DUCT TERMINAL
VAV-12	304 CRIME LAB	10	400	300	1,650	300	300	1	771.4	55	101.5	15.14	180	1.00	30.3	3.28	0.20	SINGLE DUCT TERMINAL
VAV-13	304-A EQUIPMENT	6	320	100	1,630	100	320	1	468.8	55	88.5	11.64	180	1.25	18.6	2.63	0.18	SINGLE DUCT TERMINAL
VAV-14	304-B EQUIPMENT	4	150	50	1,719	85	85	1	216.0	55	114.7	5.51	180	0.50	22.0	0.53	0.03	SINGLE DUCT TERMINAL
VAV-15	304-C EXAM	4	150	50	1,719	85	85	1	216.0	55	114.7	5.51	180	0.50	22.0	0.53	0.03	SINGLE DUCT TERMINAL
VAV-16	304-D EXAM	6	250	85	1,273	85	85	1	360.0	55	114.7	5.51	180	0.50	22.0	0.53	0.11	SINGLE DUCT TERMINAL
VAV-17	304-E EXAM	6	260	85	1,324	85	260	1	374.4	55	91.1	10.19	180	1.00	20.4	1.78	0.12	SINGLE DUCT TERMINAL
VAV-18	304-F EXAM	5	200	70	1,467	85	200	1	288.0	55	91.2	7.85	180	0.50	31.4	0.53	0.05	SINGLE DUCT TERMINAL
VAV-19	304-G BIO	5	200	70	1,467	85	200	1	288.0	55	91.2	7.85	180	0.50	31.4	0.53	0.05	SINGLE DUCT TERMINAL
VAV-20	304-H BIO	5	170	60	1,247	85	170	1	244.8	55	94.4	7.36	180	0.50	24.4	0.53	0.04	SINGLE DUCT TERMINAL

HEATING COIL FACE VELOCITIES AND AIR PRESSURE DROPS BASED ON MAXIMUM AIR FLOW. THE CFM(1) COLUMN REFLECTS THE NORMAL CONDITIONS WHEN IN THE HEATING MODE. HEATING COIL PERFORMANCES ARE BASED ON THE CFM(2) COLUMN WHICH REFLECTS THE AIR FLOW WHEN EXHAUST FANS IN THE SPACE ARE ACTIVATED.

FAN SCHEDULE

TAG	AREA SERVED	TYPE	CFM	SP	SONES	RPM	HP	ELECTRIC	WEIGHT	REMARKS
EF-1	SECOND FLOOR TOILETS	ROOF CENT.	600	1/2"	8.4	1,494	1/6	120V-60-1P	77	OPERATE FROM T.C. SYSTEM
EF-2	BIO 304-H	ROOF CENT.	190	1/4"	2.8	1,004	1/8	120V-60-1P	50	OPERATE FROM T.C. SYSTEM
EF-3	BIO 304-G	ROOF CENT.	220	1/4"	3.1	1,033	1/8	120V-60-1P	50	OPERATE FROM T.C. SYSTEM
EF-4	EXAM 304-F	ROOF CENT.	220	1/4"	3.1	1,033	1/8	120V-60-1P	50	OPERATE FROM T.C. SYSTEM
EF-5	EXAM 304-E	ROOF CENT.	290	1/4"	4.0	1,124	1/8	120V-60-1P	50	OPERATE FROM T.C. SYSTEM
EF-6	EQUIPMENT 304-A	UTILITY	500	3/8"	N/A	2,274	1/3	120V-60-1P	166	OPERATE FROM FUME HOOD

DUCT HEATING COIL SCHEDULE

TAG	TYPE	SIZE	CFM	APD	EAT	LAT	EWT	MBH	GPM	WPD	REMARKS
DHC-1	HOT WATER SERPENTINE	9"x12"	560	0.29"	45	90.8	180	27.81	1.75	0.77	SLIP FLANGE FRAME
DHC-2	HOT WATER SERPENTINE	12"x14"	840	0.27"	45	90.0	180	41.00	2.75	0.83	SLIP FLANGE FRAME
DHC-3	HOT WATER SERPENTINE	18"x32"	3,000	0.16"	35	60.0	180	81.34	4.00	1.69	SLIP FLANGE FRAME
DHC-4	HOT WATER SERPENTINE	18"x32"	2,600	0.16"	25	60.0	180	98.69	6.50	0.31	HEADER TYPE

PUMP SCHEDULE

TAG	TYPE	AREA SERVED	GPM	HEAD	HP	RPM	ELECTRIC	REMARKS
P-1	HORIZ. IN-LINE	ENTIRE HEATING SYSTEM	30	40'	1/2	1,400 → 4,800	208V-60-1P	PRIMARY PUMP
P-2	HORIZ. IN-LINE	ENTIRE HEATING SYSTEM	30	40'	1/2	1,400 → 4,800	208V-60-1P	STAND-BY FOR P-1

AIR TERMINAL SCHEDULE

TAG	SIZE	MAX CFM	MAX NC	MAX SP	REMARKS
D1	6"	140	20	0.065"	SQUARE DIFFUSER / LAY-IN FRAME
D2	8"	240	20	0.065"	SQUARE DIFFUSER / LAY-IN FRAME
D3	10"	355	20	0.065"	SQUARE DIFFUSER / LAY-IN FRAME
D4	(2) 3/4" SLOTS	170	17	0.045"	36" SLOT DIFFUSER - 8" INLET
D5	(2) 3/4" SLOTS	260	19	0.070"	48" SLOT DIFFUSER - 8" INLET
ER1	6" x 6"	80	20	0.070"	EXHAUST REGISTER
ER2	8" x 8"	150	20	0.045"	EXHAUST REGISTER
ER3	12" x 8"	220	21	0.055"	EXHAUST REGISTER
RR1	8" x 6"	100	20	0.050"	RETURN / RELIEF REGISTER
RR2	8" x 8"	155	20	0.070"	RETURN / RELIEF REGISTER
RR3	12" x 8"	200	20	0.040"	RETURN / RELIEF REGISTER
RR4	12" x 12"	300	20	0.040"	RETURN / RELIEF REGISTER
RR5	16" x 12"	420	21	0.040"	RETURN / RELIEF REGISTER
RR6	24" x 12"	600	20	0.040"	RETURN / RELIEF REGISTER / LAY IN FRAME
RR7	24" x 18"	850	22	0.040"	RETURN / RELIEF REGISTER / LAY IN FRAME
SR1	6" x 6"	80	20	0.020"	DOUBLE DEFLECTION SUPPLY REGISTER
SR2	8" x 6"	120	20	0.020"	DOUBLE DEFLECTION SUPPLY REGISTER
SR3	8" x 8"	140	20	0.030"	DOUBLE DEFLECTION SUPPLY REGISTER
SR4	10" x 8"	320	20	0.030"	DOUBLE DEFLECTION SUPPLY REGISTER

CONVECTOR SCHEDULE

TAG	TYPE	MBH	GPM	LENGTH	HEIGHT	DEPTH	REMARKS
C-1	FULLY RECESSED	1.69	0.50	20"	14"	6"	FRONT RETURN GRILLE

CAPACITIES BASED ON 180° F. ENT W/20°F. WTD (170° F. AWT).

SYMBOLS AND ABBREVIATIONS

ABV	AUTOMATIC BALANCING VALVE	L	LOUVER	——	WATER SUPPLY PIPING
AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE	-----	WATER/CONDENSATE RETURN PIPING
AD	ACCESS DOOR	LDB	LEAVING DRY BULB	——/——	LOW PRESSURE STEAM PIPING
APP	ABOVE FINISH FLOOR	LPS	LOW PRESSURE STEAM	———E———	COLD WATER PIPING
AP	ACCES PANEL	LNB	LEAVING NET BULB	———E———	EXISTING PIPING
APD	AIR PRESSURE DROP	MBH	THOUSAND BTU PER HOUR	——X——X——X——	PIPING TO BE REMOVED
ATC	AUTOMATIC TEMP. CONTROL	MD	MANUAL DAMPER	———X———	PIPE ANCHOR
AV	AUTOMATIC VENT	MOD	MOTOR OPERATED DAMPER	———X———	PIPE ANCHOR
BD	BACKDRAFT DAMPER	MV	MANUAL VENT	———X———	PIPE ANCHOR
BJ	BAR JOIST	NTS	NOT TO SCALE	———X———	PIPE ANCHOR
BV	BALANCING VALVE	OA	OUTDOOR AIR	———X———	PIPE ANCHOR
C	CONVECTOR	OD	OUTSIDE DIMENSION	———X———	PIPE ANCHOR
CFM	CUBIC FEET PER MINUTE	OS&Y	OUTSIDE SCREW & YOKE	———X———	PIPE ANCHOR
CR	CONDENSATE RETURN	P	PUMP	———X———	PIPE ANCHOR
CTE	CONNECT TO EXISTING	PC	PLUMBING CONTRACTOR	———X———	PIPE ANCHOR
CUH	CABINET UNIT HEATER	PG	PRESSURE GAUGE	———X———	PIPE ANCHOR
CV	CONTROL VALVE	PRV	PRESSURE REDUCING VALVE	———X———	PIPE ANCHOR
D	DRAIN	R	RETURN	———X———	PIPE ANCHOR
D&D	DROP AND DRIP	RA	RETURN AIR	———X———	PIPE ANCHOR
DHC	DUCT HEATING COIL	RG	RETURN GRILLE	———X———	PIPE ANCHOR
DIC	DOWN IN CORNER/CHASE	RIS	RUBBER-IN-SHEAR	———X———	PIPE ANCHOR
DIFF	DIFFUSER	RR	RETURN REGISTER	———X———	PIPE ANCHOR
DIW	DOWN IN WALL	RV	RELIEF VALVE	———X———	PIPE ANCHOR
DO	DRAIN-OFF	S	SUPPLY	———X———	PIPE ANCHOR
DSD	DUCT SMOKE DETECTOR	SA	SUPPLY AIR	———X———	PIPE ANCHOR
EAT	ENTERING AIR TEMPERATURE	SC	SITE CONTRACTOR	———X———	PIPE ANCHOR
EC	ELECTRICAL CONTRACTOR	SG	SUPPLY GRILLE	———X———	PIPE ANCHOR
EDB	ENTERING DRY BULB	SP	STATIC PRESSURE	———X———	PIPE ANCHOR
EF	EXHAUST FAN	SR	SUPPLY REGISTER	———X———	PIPE ANCHOR
ER	EXHAUST REGISTER	SV	SAFETY VALVE	———X———	PIPE ANCHOR
ESP	EXTERNAL STATIC PRESSURE	T	THERMOMETER	———X———	PIPE ANCHOR
EWB	ENTERING WET BULB	TC	TEMPERATURE CONTROL	———X———	PIPE ANCHOR
EWT	ENTERING WATER TEMPERATURE	TGG	TRANSFER CEILING GRILLE	———X———	PIPE ANCHOR
FC	FLEXIBLE CONNECTOR	TGP	TEMPERATURE CONTROL PANEL	———X———	PIPE ANCHOR
FCV	FLOW CONTROL VALVE	TSP	TOTAL STATIC PRESSURE	———X———	PIPE ANCHOR
FD	FIRE DAMPER	TSTAT	THERMOSTAT	———X———	PIPE ANCHOR
FV	FACE VELOCITY	TV	THERMOSTAT	———X———	PIPE ANCHOR
F&T	FLOAT AND THERMOSTATIC	UC	UNDERCUT	———X———	PIPE ANCHOR
GC	GENERAL CONTRACTOR	UIC	UP IN CHASE	———X———	PIPE ANCHOR
GPH	GALLONS PER HOUR	V	VENT	———X———	PIPE ANCHOR
GPM	GALLONS PER MINUTE	WFD	WATER TEMPERATURE DROP	———X———	PIPE ANCHOR
GV	GATE VALVE	WTD	WATER TEMPERATURE DROP	———X———	PIPE ANCHOR
HC					