Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/06/14

AIR HANDLING UNIT SCHEDULE

TAG	AREA SERVED	SUPPLY FAN				ELECTRICAL				HEATING						DIRECT EXPANSION COOLING COIL						MIN.	WEIGHT	REMARKS
		CFM	ESP	RPM	HP	MCA	MOP	kW	VOLTAGE	FUEL	MBH IN	MBH OUT	STAGES	EAT	LAT	EDB	EWB	SENS.	TOTAL	LDB	LWB	O.A.	(LBS) *	
AHU-1	SHOWROOM AREA	4,000	0.750"	1,482	3.80	49.60	60.00	10.73	208V-60-3P	N.G.	150.0	120.0	2	65	93.1	80.0	67.0	86.43	112.77	60.32	58.10	10.0%	1,369	ROOFTOP UNIT, DOWNFLOW
AHU-2	FUTURE STORAGE	2,000	0.375"	1,050	1.00	27.40	40.00	5.42	208V-60-3P	N.G.	130.0	104.0	1	50	98.4	80.0	67.0	45.10	59.26	59.48	57.60	5.0%	824	ROOFTOP UNIT, DOWNFLOW
AHU-3	FUTURE STORAGE	2,000	0.375"	1,050	1.00	27.40	40.00	5.42	208V-60-3P	N.G.	130.0	104.0	1	50	98.4	80.0	67.0	45.10	59.26	59.48	57.60	5.0%	824	ROOFTOP UNIT, DOWNFLOW

* WEIGHT DOES NOT INCLUDE CURBS

FAN SCHEDULE

TAG	AREA SERVED	TYPE	CFM	SP	SONES	dBA	RPM	HP	ELECTRIC	WEIGHT	REMARKS
EF-1	TOILETS	ROOF CENT.	225	1/4"	3.0	42.0	936	1/25	120V-60-1P	65	OPERATE FROM OCCUPANCY SENSORS BY E.C.
EF-2	D&R BAYS	ROOF CENT.	2,000	1/4"	10.2	60.0	1,500	1/3	120V-60-1P	120	OPERATE FROM MANUAL SWITCH

SONE RATINGS ARE MINIMUMS NOT TO BE EXCEE HVI SONE RATINGS WILL NOT BE ACCEPTED

AIR TERMINAL SCHEDULE

TAG	SIZE	MAX CFM	MAX NC	MAX SP	REMARKS
D1	6"Ø	155	20	0.05"	SQUARE DIFFUSER / LAY-IN FRAME
D2	10"Ø	385	20	0.03"	SQUARE DIFFUSER / LAY-IN FRAME
D2	10"Ø	385	20	0.03"	SQUARE DIFFUSER / GYPSUM FRAME
ER1	6" x 6"	90	20	0.070"	EXHAUST REGISTER
RR1	6" x 6"	130	20	0.100"	RETURN REGISTER
RR2	24"x24"	1,875	20	0.051"	RETURN REGISTER WITH LAY-IN FRAME

GENERAL NOTES

1. Mechanical Contractor shall coordinate work with all other trades.
2. All piping and ductwork shall be run concealed and on the warm side of building insulation unless shown otherwise.
3. Piping and ductwork is shown diagramatically. Exact locations to be adjusted as required to conform to field conditions.
4. All duct sizes indicated are outside (sheet metal) dimensions.
5. All cutting and patching by the General Contractor.
6. All square duct elbows over 12 inches in width to have turning vanes.
7. Refer to Architectural Reflected Ceiling Plans for exact locations of all ceiling registers, diffusers and grilles.
8. All dimensions associated with existing conditions are approximate and are to be field verified.

UNIT HEATER SCHEDULE

TAG	TYPE	AREA SERVED	INPUT MBH	OUTPUT MBH	FUEL	CFM	MOTOR HP	ELECTRIC			WEIGHT	REMARKS
								FLA	WATTS	VOLTAGE		
UH-1	HORIZONTAL	109 D&R BAYS	60.0	49.2	N.G.	1,012	1/3	7.1	447	115V-60-1P	89	CENTRIFUGAL BLOWER
UH-2	HORIZONTAL	110 UTILITY	25.0	20.0	N.G.	380	1/50	0.8	60	115V-60-1P	72	AXIAL BLOWER

SYMBOLS AND ABBREVIATIONS

AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE
AD	ACCESS DOOR	LDB	LEAVING DRY BULB
AFF	ABOVE FINISH FLOOR	LWB	LEAVING WET BULB
AHU	AIR HANDLING UNIT	MBH	THOUSAND BTU PER HOUR
AP	ACCES PANEL	MC	MECHANICAL CONTRACTOR
APD	AIR PRESSURE DROP	MD	MANUAL DAMPER
ATC	AUTOMATIC TEMP. CONTROL	MOD	MOTOR OPERATED DAMPER
BD	BACKDRAFT DAMPER	NG	NATURAL GAS
BJ	BAR JOIST	NTS	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	OA	OUTDOOR AIR
CFM	CUBIC FEET PER MINUTE	PC	PLUMBING CONTRACTOR
DIFF	DIFFUSER	R	RETURN
DIW	DOWN IN WALL	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RR	RETURN REGISTER
EC	ELECTRICAL CONTRACTOR	S	SUPPLY
EDB	ENTERING DRY BULB	SA	SUPPLY AIR
EF	EXHAUST FAN	SC	SITE CONTRACTOR
EG	EXHAUST GRILLE	SG	SUPPLY GRILLE
ER	EXHAUST REGISTER	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SR	SUPPLY REGISTER
GC	GENERAL CONTRACTOR	TC	TEMPERATURE CONTROL
H&V	HEATING & VENTILATING	T'STAT	THERMOSTAT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UC	UNDERCUT
		UH	UNIT HEATER

(T)	THERMOSTAT
(T)	THERMOSTAT WITH GUARD
	MANUAL DAMPER
	FLEXIBLE DUCT
	LAY-IN DIFFUSER
	SURFACE MOUNT DIFFUSER
	SUPPLY AIR DUCT
	RETURN / RELIEF AIR DUCT

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
YARMOUTH, MAINE 04096
FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
207-846-1441

M.S.E. Proj. 1422
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STATE OF MAINE
Kurt F. Magnusson
10257
LICENSED
PROFESSIONAL ENGINEER

EQUIPMENT SCHEDULES
NO SCALE
M1

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Project Title
U-HAUL MOVING & STORAGE
425 MARGINAL WAY
Portland, Maine

Mark	Date	Description
	Aug. 15, 2014	Contract Document

Issue Dates

0 5 10 15 20
Graphic Scale (feet)

Drawing Title
MECHANICAL EQUIPMENT SCHEDULES

Drawing Number
M2

August 15, 2014 – 12:45 pm
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