

ROOFTOP UNIT DETAIL

-FLEX. CONNECTION

THREADED STEEL HANGER RODS & ——

VIBRATION HANGERS; SUPPORT FROM

BUILDING STRUCTURE.

CONDENSER UNIT MTD.

ON ROOF SEE PLAN

DWGS.

DUCTLESS SPLIT SYSTEM SCHEDULE **OUTDOOR UNIT** INDOOR UNIT NOTES TOTAL CLG MODEL# AMBIENT TEDB TEWB SUPPLY CAPACITY CAPACITY VOLTS//MCA//MOCP COOLING AIR (CFM) FILTER HEATING | WEIGHT T-STAT WEIGHT PLAN SAME MANUFACTURER CAPACITY AIR MANUFACTURER / MODEL # VOLTS//MCA//MOCP | INPUT | OUTPUT (° F) MARK TYPE STAGE(S) (LBS.) MARK STAGE(S) TYPE (LBS.) (CFM) AS INDOOR UNIT) (° F) (MBH/TON/SEER) (MBH) (MBH) 1,2,3,4,5 AHU-1 LG / LCN127HV4 335 208/230-1-60//1//-90.4 ONE CU-1 LUU127HV 12.4/1/19.4 208/230-1-60//12.3//15 ONE **PROGRAMM**

NOTES: PROVIDE W/ CONDENSER MOUNTING BRACKETS.

RECOMMENDATION.

- "CASSETTE" TYPE AIR CONDITIONING

UNIT c/w REMOVABLE FACE GRILLE &

INSULATION.

1.) THIS DIAGRAM IS SCHEMATIC ONLY. EXACT ROUTING OF

2.) REFRIGERANT TUBING & FITTINGS SHALL BE PROCESSED

PIPING AND MOUNTING OF UNITS TO BE DETERMINED

TUBING SUITABLE FOR THIS APPLICATION; DEOXIDIZED,

DEHYDRATED & SEALED, TYPE ACR w BRAZED JOINTS.

INSULATED SUCTION LINE w 25mm thk ELASTOMER PIPE

- RUN CONDENSATE LINE TO NEAREST SANITARY. 3. SUCTION AND LIQUID LINE SIZES AS REQUIRED PER MANUFACTURER

TOTAL O.A. PROVIDED = 480 CFM

4. SINGLE POINT ELECTRICAL CONNECTION 5. PROVIDE WITH PROGRAMMABLE THERMOSTAT, LOW AMBIENT WIND BAFFLE AND CASSETTE GRILLE.

OUTSIDE AIR CALCULATION

BASED ON 2007 ASHRAE											
Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Uncorrected Outdoor Air (CFM)					
Zone 1											
Backbar	1	390.0	3.0	7.50	0.18	92.7					
RR	1	102.0	0.0	0.00	0.00	0.0					
Cafe	1	805.0	26.0	7.50	0.18	339.9					
Work Room	1	398.0	2.0	0.00	0.12	47.8					
Totals (incl. Space Multipliers)						480.4					
TOTAL O.A. REQUIRED = 480 CFM											

	ROOFTOP PACKAGED UNIT SCHEDULE																	
MARK MANUFACTURER & MODEL	SUPPLY FAN		E.A.T.	CLG CAP.	HTG. CAP.		AUX.	ELECTRICAL					EER	SEER	NOTES	WEIGHT		
	CFM	O.A.	E.S.P.	DB/WB	(TOTAL/SENS)	IN (MBH)	OUT (MBH)	HEAT (KW)	V	PH	Hz	MCA	МОСР	LLK	JLEK	NOTES	(LB)	
RTU-1	TRANE YSC060G4RMA	2000	340	0.68	80/67	60.08/53.91	80	68.59	-	208	3	60	12.9	20		14.0	1,2,3,4,5,6	798
RTU-2	TRANE YSC090F4RLA	3000	140	0.64	80/67	94.59/45.47	120	100.42	-	208	3	60	19.5	30	11.2	-	1,2,3,4,5,6,7	1021

- - NEW ELECTRIC COOLING/GAS HEATING ROOFTOP PACKAGED UNIT TO REPLACE EXISTING. VERIFY FINAL LOCATION AT JOBSITE.
 - HIGH EFFICIENCY, DOWN DISCHARGE CONFIGURATION.
 - PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH. 4. PROVIDE WITH NON-POWERED CONVENIENCE SERVICE OUTLET (115V
 - 5. PROVIDE WITH FACTORY INSTALLED ENTHALPY TYPE ECONOMIZER WITH

(MBH)	(MBH)	(KVV)	V	РН	HZ	MCA	MOCP				(LD)
80	68.59	ı	208	3	60	12.9	20	ı	14.0	1,2,3,4,5,6	798
120	100.42	-	208	3	60	19.5	30	11.2	1	1,2,3,4,5,6,7	1021

- PROVIDE FACTORY INSTALLED SMOKE DETECTOR IN RETURN AIR DUCT TO
- SHUT DOWN UNIT UPON DETECTION.
- 7. PROVIDE WITH POWER EXHAUST.

BAROMETRIC RELIEF DAMPER.

- 1. REPLACE EXISTING ROOFTOP UNIT WITH NEW UNIT (SEE SCHEDULE ON THIS SHEET) PER MANUFACTURER'S RECOMMENDATIONS. MOUNT ON EXISTING CURB. FACTORY INSTALLED SMOKE DETECTOR SHALL DE-ENERGIZE UNIT SUPPLY FAN IF ACTIVATED. PROVIDE PERMANENT ACCESS TO SMOKE DETECTOR. EXISTING THERMOSTATS/CONTROLS TO REMAIN. IF EXISTING CONTROLS NOT ADEQUATE, REPLACE WITH NEW 2-PIECE 7-DAY PROGRAMMABLE THERMOSTAT MOUNTED AT 44" A.F.F AT MANAGER'S DESK AND SENSOR MOUNTED AT 60" A.F.F. IN ZONE SERVED BY RTU. FIELD VERIFY ALL CONDITIONS PRIOR TO INSTALLATION.
- 3. PROVIDE & INSTALL NEW AHU-1 CEILING CASSETTE AS PART OF DUCTLESS SPLIT SYSTEM. REFER TO SCHEDULE ON THIS SHEET FOR SPECIFICATIONS. UNIT INSTALLATION SHALL BE PER LOCAL CODES AND MANUFACTURER'S TO NEAREST SANITARY. SEE PLUMBING PLANS FOR MORE INFORMATION.
- 4. PROVIDE & INSTALL NEW CONDENSING UNIT CU-1 AS PART OF DUCTLESS SPLIT SYSTEM. SEE SCHEDULE ON THIS SHEET. UNIT TO BE MOUNTED ON ROOF PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VIBRATION ISOLATORS AS REQUIRED. ROUTE REFRIGERATION LINES DOWN THRU ROOF TO AHU-1 PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH OTHER ROOFTOP EQUIPMENT.
- MOUNT BORDER TO REPLACE EXISTING LAY-IN TYPE DIFFUSER. RECONNECT TO EXISTING BRANCH DUCT AS REQUIRED. MATCH EXISTING DIFFUSER MANUFACTURER, MODEL, AND NECK SIZE.
- 6. PROVIDE & INSTALL NEW RETURN GRILLE WITH SURFACE MOUNT BORDER TO REPLACE EXISTING LAY-IN TYPE GRILLE. EXTEND EXISTING BRANCH DUCT TO NEW GRILLE LOCATION AS REQUIRED. MATCH EXISTING GRILLE MANUFACTURER,

X SHEET NOTES

- 2. ALL EXISTING SUPPLY, RETURN, & EXHAUST DUCTWORK AND AIR DEVICES TO REMAIN. FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- RECOMMENDATIONS. ROUTE TRAPPED CONDENSATE PIPING
- 5. PROVIDE & INSTALL NEW SUPPLY DIFFUSER WITH SURFACE

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RENOVATION OF STARBUCKS COFI PORTLAND, 1080 FOREST AVE.
PROJECT ADDRESS:
1080 FOREST AVENUE PORTLAND, ME 04103 CUMBERLAND COUNTY COF 1080

STARBUCKS COFFEE

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STARBUCKS TEMPLATE VERSION i2016.12.23

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DESIGNER: A. LEE LEED®AP: R. TURNER-LAUCK PRODUCTION DESIGNER: E. VEGA

CHECKED BY: DMC / SWE **Revision Schedule**

Rev Date By

MECHANICAL DESIGN PLAN

SCALE: AS SHOWN

M-1101







