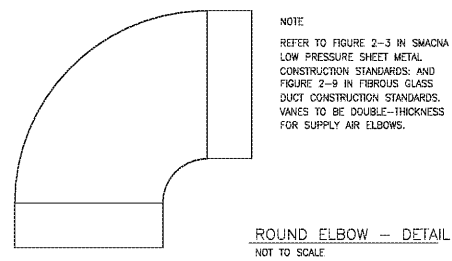
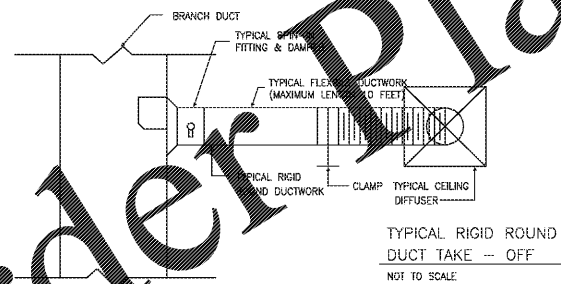
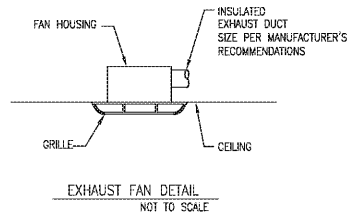


HVAC PLAN
SCALE: 3/16"=1'-0"

① PROGRAMMABLE THERMOSTAT



NOTE
REFER TO FIGURE 2-3 IN SMACNA
LOW PRESSURE SHEET METAL
CONSTRUCTION STANDARDS; AND
FIGURE 2-9 IN FIBROUS GLASS
DUCT CONSTRUCTION STANDARDS.
VANES TO BE DOUBLE-THICKNESS
FOR SUPPLY AIR ELBOWS.

MECHANICAL NOTES

- Mechanical contractor shall obtain the mechanical permit for the work.
- Contractor shall make the existing heating and air condition equipment operable for the intended use to meet the current code requirements.
- Duct work shall pass leak test.
- All duct work shall have proper 2" thick fire insulation and shall have access door to clean inside of the ducts.
- Clean all existing air handling diffusers in the space.
- All fans supplying more than 2,000 CFM shall be installed with a smoke detector in compliance with Section 606.2.1 of the I.M.C. The smoke detector shall be wired to stop the fan upon detection of smoke.

AIR CALCULATION

FRESH AIR PROVIDED BASED ON IMC TABLE 403.3 50 ACF/PERSON AT NON-SMOKING AREA, AND REQUIRED FRESH AIR CALCULATION AS FOLLOWS:

- NON-SMOKING
 - DINING AREA (438 SF) (438X0.18) = (230.79) = 231
 - KITCHEN RANGE AREA (144 SF) (144X0.7) = 101 EXHAUST
- 309 CFM FRESH AIR REQUIRED
- 320 CFM FRESH AIR PROVIDED

AIR BALANCE SCHEDULE (CFM)	
CFM PROVIDED (A/C)	320
REST ROOM EXH. FANS	-75
BALANCE	245

NOTE:

Low pressure insulated flexible duct shall be designed in accordance with ACCA (Air Conditioning Contractors of America) duct sizing calculation based on a friction loss of 0.1. The degree and amount of radius bends will also affect the calculated air flow. route duct to prevent oval flex as recommended by the manufacturer. The following chart is based on straight runs and is taken from the ACCA duct sizing calculations.

CFM	FLEXDUCT DIAMETER
0 - 80	6"
81 - 165	8"
166 - 300	10"
301 - 500	12"
501 - 650	14"

FAN SCHEDULE

MARK	LOCATION	TYPE	CFM	EXT SP IN WG	DRIVE	METER		REMARKS
						HP	V/PH/HZ	
EF-1	TOILET	CEILING MOUNT	75	0.5	DIRECT	1/6	110/1/60	GO THRU WALL

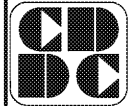
EXISTING ROOF TOP UNIT SCHEDULE

TAG	AREA SERVED	NOMINAL TONS	CARRIER MODEL NO.	TOTAL CFM	ESP (INCHES)	O.A. CFM	MAX. FAN HP.	COOLING				HEATING NAT. GAS				(ALL NOTES APPLY) ACCESSORIES	
								TOTAL MSH	SENS. MSH	EAT (COOL) DE/WG	LAT (COOL) DB	MIN. SEER /EER	INPUT MSH	OUTPUT MSH	AFUE %		MAX. WEIGHT LBS
EXISTING RTU - 1	AS SHOWN	4.0 TON	24HJ 004	1800	0.6	320	3.0	76.2	56.8	80.0/67.0	95.0	13.0	125.5	100.0	80.0	350	1,2,3,4

NOTES: (APPLIES TO ALL ROOF TOP UNITS)

- UNIT COOLING CAPACITIES, AND MINIMUM SEER/EER RATINGS ARE BASED AT 80 DB/87 MB COOL, EAT AND 65" DB ENTERING CONDENSER COIL. COOLING CAPACITIES SHALL BE WITHIN 50% OF THE VALUES SCHEDULED'S COOLING VALUES SHOWN ARE GROSS.
- FOR SHELL FINISH SUITES THE FINAL MINIMUM OUTSIDE AIR QUANTITY SHALL BE DETERMINED DURING THE TENANT FINISH PHASE OF WORK SET DAMPER AT 20% FOR THIS PHASE OF WORK. FOR "WHITE BOX" FINISH SUITES, SEE OUTSIDE AIR.
- WEIGHT INCLUDES BASE UNIT ALL ACCESSORIES ROOF CURB AND 150LBS FOR SOUND ATTENUATION INSULATION WITHIN THE ROOF CURB AND A MODEST SAFETY FACTOR. IF CONTRACTOR WANTS TO PROVIDE AN ALTERNATE UNIT, HE SHALL COORDINATE THE TOTAL WEIGHT OF UNIT AND THE REQUIRED ROOF PENETRATION SIZES AND OPERATIONS WITH THE STRUCTURAL ENGINEER AND THE ARCHITECT PRIOR TO ORDERING EQUIPMENT, FOR ADDITIONAL INFORMATION.
- SUBMIT SHOP DRAWINGS INDICATING THE PROPOSED UNIT'S CAPACITIES OF THE SCHEDULED VALUE VALUES.

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HVAC PLAN
NOTES & SCHEDULE

REVISION	BY

DRAWN BY:

SCALE: AS NOTED

PROJECT NO:

DATE: 10/15/18

SHEET

M1
OF SHEETS

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