HVAC NOTES

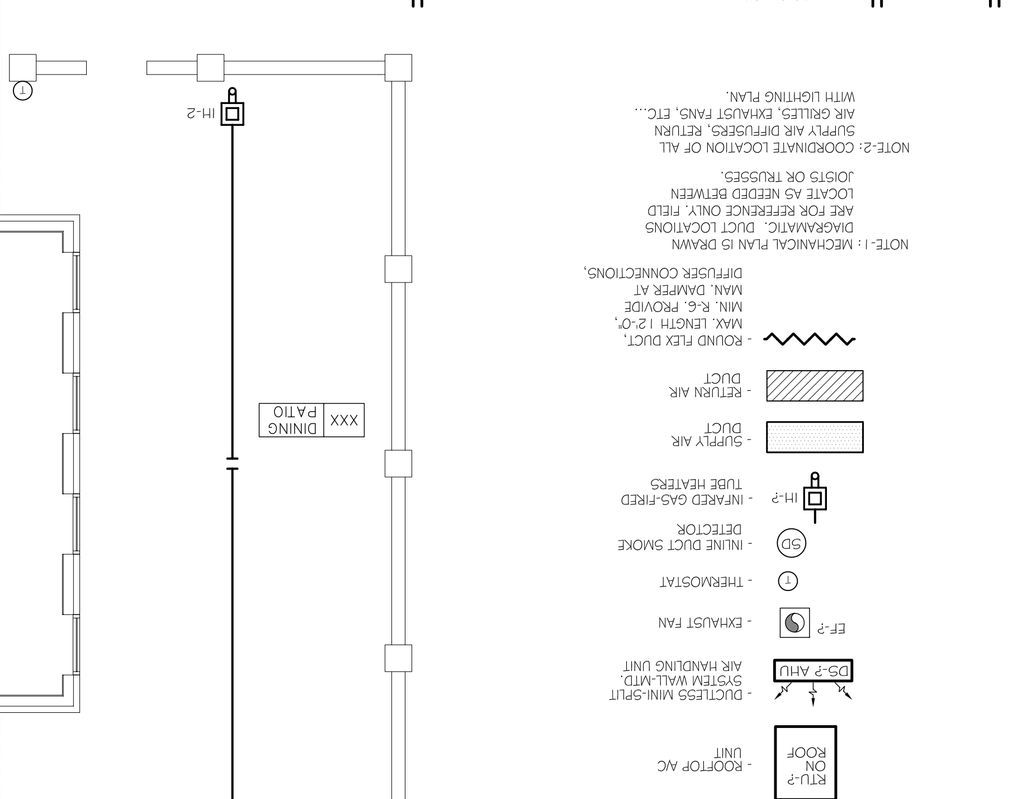
1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH NEOPRENE COATED 1.0" THICK, 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION, MIN R-6, INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH NEOPRENE COATED 1.0" THICK, 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. CONDENSATE & OVERFLOW DRAIN LINES SHALL BE PVC SCH 40 AND SHALL BE INSTALLED COMPLETELY SEPARATE TO SANITARY SEWER. DRAINS TO BE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
4. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
5. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
6. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND AFTER ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
7. PROVIDE U.L. LISTED 125 F FUSESTAT IN RETURN AIR OR SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
8. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN TO COAST PER I-10 OR EQUAL. FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
16. REFRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILINGS.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
19. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
20. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
21. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
22. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
23. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
24. REFRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.

HVAC LEGEND

- 2'x2' SUPPLY AIR GRILLE W/DAMPER
- RETURN AIR GRILLE
- SIDE-WALL SUPPLY AIR GRILLE W/DAMPER
- DUCTLESS MINI-SPLIT SYSTEM WALL-MTD. AIR HANDLING UNIT
- DS-? AHU
- EF-? EXHAUST FAN
- THERMOSTAT
- INSIDE DUCT SMOKE DETECTOR
- IH-? INFARED GAS-FIRED TUBE HEATERS
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS.

NOTE-1: MECHANICAL PLAN IS DRAWN DIAGRAMATIC. DUCT LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE AS NEEDED BETWEEN JOISTS OR TRUSSES.

NOTE-2: COORDINATE LOCATION OF ALL SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, EXHAUST FANS, ETC... WITH LIGHTING PLAN.



WATER HEATER VENTILATION DETAIL

N.T.S.

GAS-FIRED INFARED TUBE HEATERS SCHEDULE

UNIT NO.	SERVICE AREA	BTUH	MINIMUM MOUNT HT.	ELECTRICAL (v/ph/hz/amps)
IH-1	DINING PATIO	50,000	10 FT.	120/1/60/4.8a
IH-2	DINING PATIO	50,000	10 FT.	120/1/60/4.8a

EXHAUST FAN SCHEDULE

NO.	LOCATION	CFM	EXT. S.P.	MOTOR HP(w)	TYPE	DRIVE	ELECTRICAL(v/ph/hz)	MANF.
EF1	WOMENS RESTROOM	250	0.3	212(w)	CEILING	DIRECT	120/1/60	BROAN
EF2	MENS RESTROOM	250	0.3	212(w)	CEILING	DIRECT	120/1/60	BROAN
EF3	CUSTODIAN	100	0.3	127(w)	CEILING	DIRECT	120/1/60	BROAN

MINI-SPLIT DUCTLESS A/C SYSTEM SCHEDULE

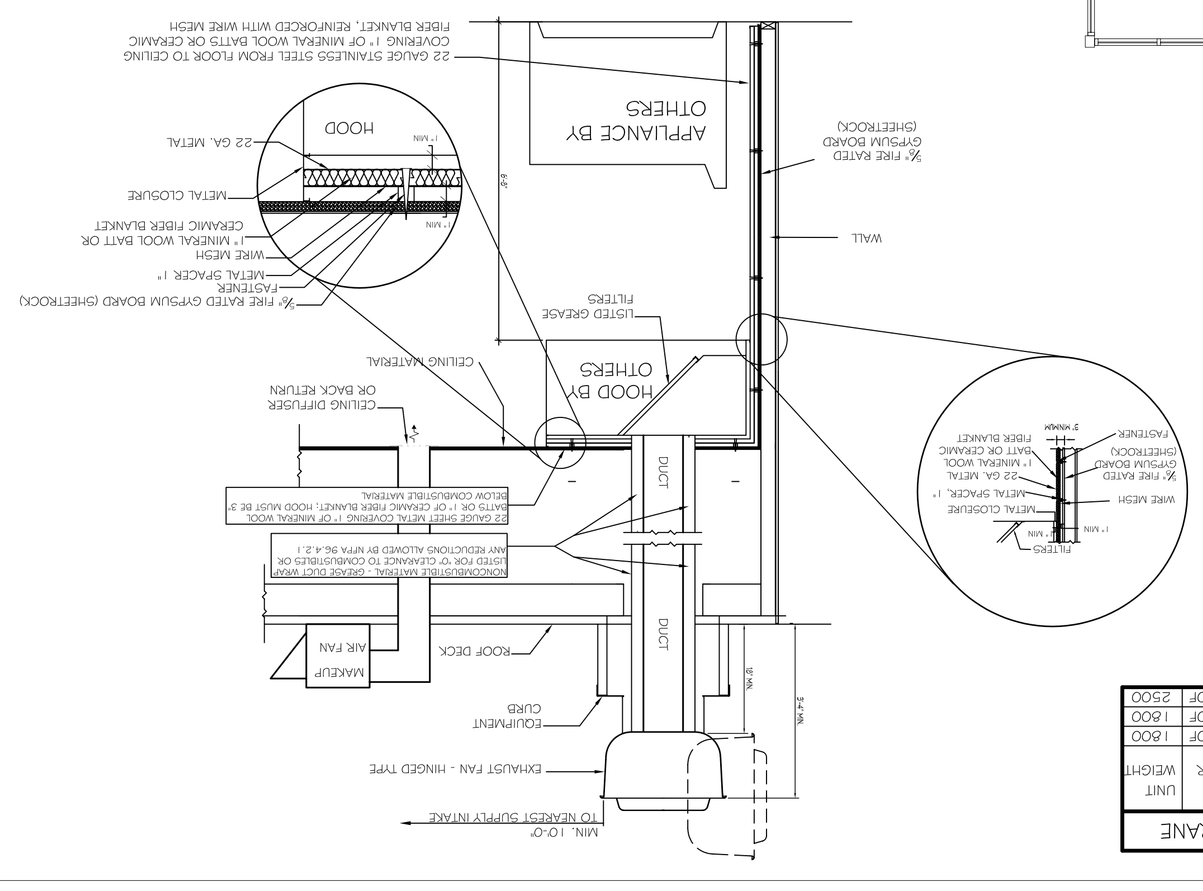
UNIT NUMBER	NOM. TONS	AIR CAPACITY		COOLING CAPACITY		AIR HANDLING UNIT		CONDENSING UNIT				
		MIN. CFM	MAX. CFM	RATED BTU/HR	MINIMUM BTU/HR	TRANE MODEL	WEIGHT	TOTAL AMPS	(2)	(2)	(2)	WEIGHT
AC-1	3	(2) 400	(2) 600	34,000	16,000	4MXW 4A15	37.4	1	4TXM 6S36A	208/1	28/45	165

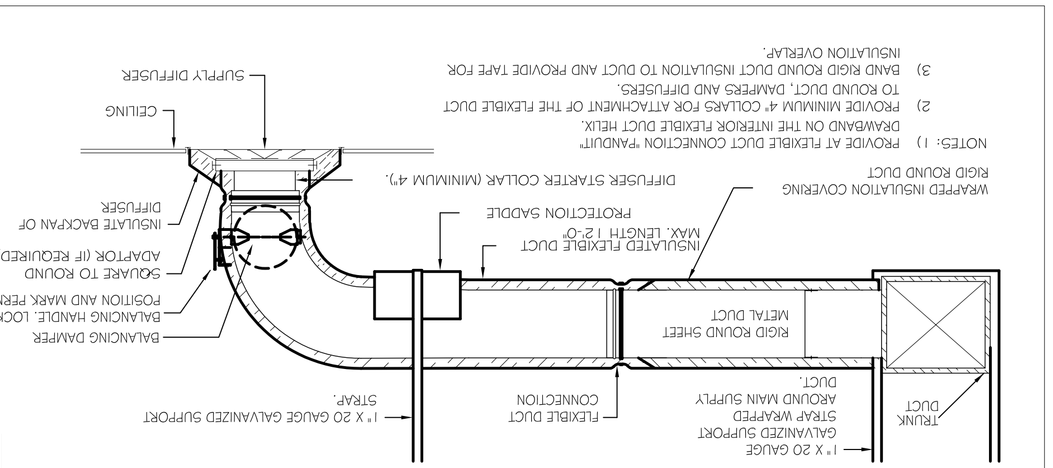
SINGLE PACKAGE ROOF-TOP A/C UNITS SCHEDULE

UNIT NUMBER	TOTAL CFM	MINIMUM OUTSIDE AIR CFM	EXT. STATIC PRESSURE IN W.G.	COOLING CAPACITY				ELECTRICAL DATA						TRANE MODEL NUMBER	UNIT WEIGHT
				TOTAL BTUH	SENSIBLE BTUH	ENTERING D.B.F.	ENTERING W.B.F.	LEAVING D.B.F.	LEAVING W.B.F.	VOLT.	PH.	FAN MOTOR H.P.	UNIT MCA	UNIT MOCP	HEATING GAS BTUH		
RTU-1	4000	400	0.50	119,000	101,410	80	67	60.1	57.9	208	3	1.7	49.6	60	200,000	YSC120F	1800
RTU-2	4000	400	0.50	119,000	101,410	80	67	60.1	57.9	208	3	1.7	49.6	60	200,000	YSC120F	1800
RTU-3	6000	400	0.50	166,000	131,000	80	67	60.8	56.9	208	3	3	75	100	250,000	YSD180F	2500

TYPICAL HOOD & DUCT INSTALLATION W/CLEARANCE REDUCTION MATERIALS TO PROTECT COMBUSTIBLES

N.T.S.





DAMMON
ENGINEERING, INC.
Architects & Engineers

Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
PH: 985.649.5832
F: 985.641.5950
www.dammonengineering.com
dammonengb@bellsouth.net

in joint venture with:

Meyer Engineers, Ltd.
4937 Hearst Street . Suite 1B . Metairie, Louisiana 70001
2031 Claiborne Street . Mandeville, Louisiana 70448
phone.504.885.9892 . fax.504.887.5056
website.www.meyer-e-l.com

project no.	20-1448/
drawn	JTL
checked	CKD
date	08.21.2014
revised	00.00.0000
	00.00.0000
	00.00.0000

MECHANICAL PLAN & DETAILS

MUGSHOTS GRILL & BAR
RIDGELAND, MS

sheet no. **M001**
of ____ sheets