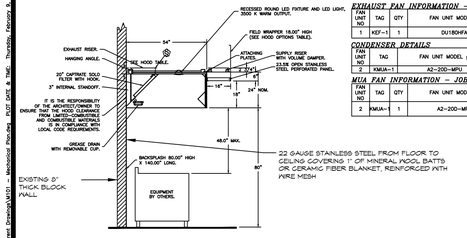


SECTION VIEW – MODEL S424ND-2-PSP-F HOOD – #1

EXHAUST FAN INFORMATION – JOB#5846208

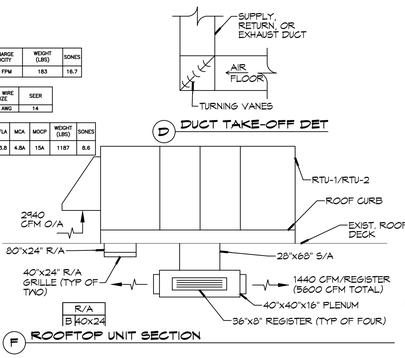
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVAIRE	2507	1.500	1228	DDP,PREMIUM	2.000	1.2990	3	208	8.3	579 FPM	183	16.7

CONDENSER DETAILS

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN. WIRE SIZE	SEER
2	KMUA-1	A2-200-MPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

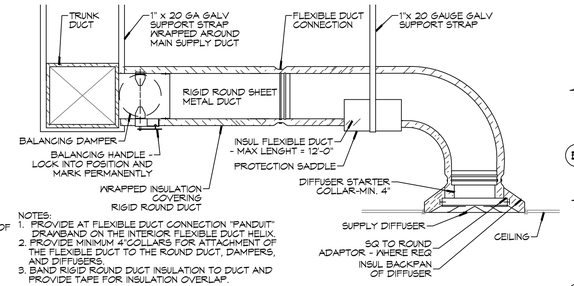
MUA FAN INFORMATION – JOB#5846208

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	KMUA-1	1	A2-200-MPU	10WF-2-MOD	A2	2000	2006	0.600	975	ODP,PREMIUM	1.000	0.4600	3	208	3.8	4.8A	15A	1187	8.6



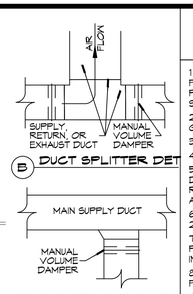
D DUCT TAKE-OFF DET

F ROOFTOP UNIT SECTION



NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2. PROVIDE MINIMUM 4"COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO THE ROUND DUCT, DAMPERS, AND DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

G DIFFUSER CONNECTION DETAIL - FLEX DUCT

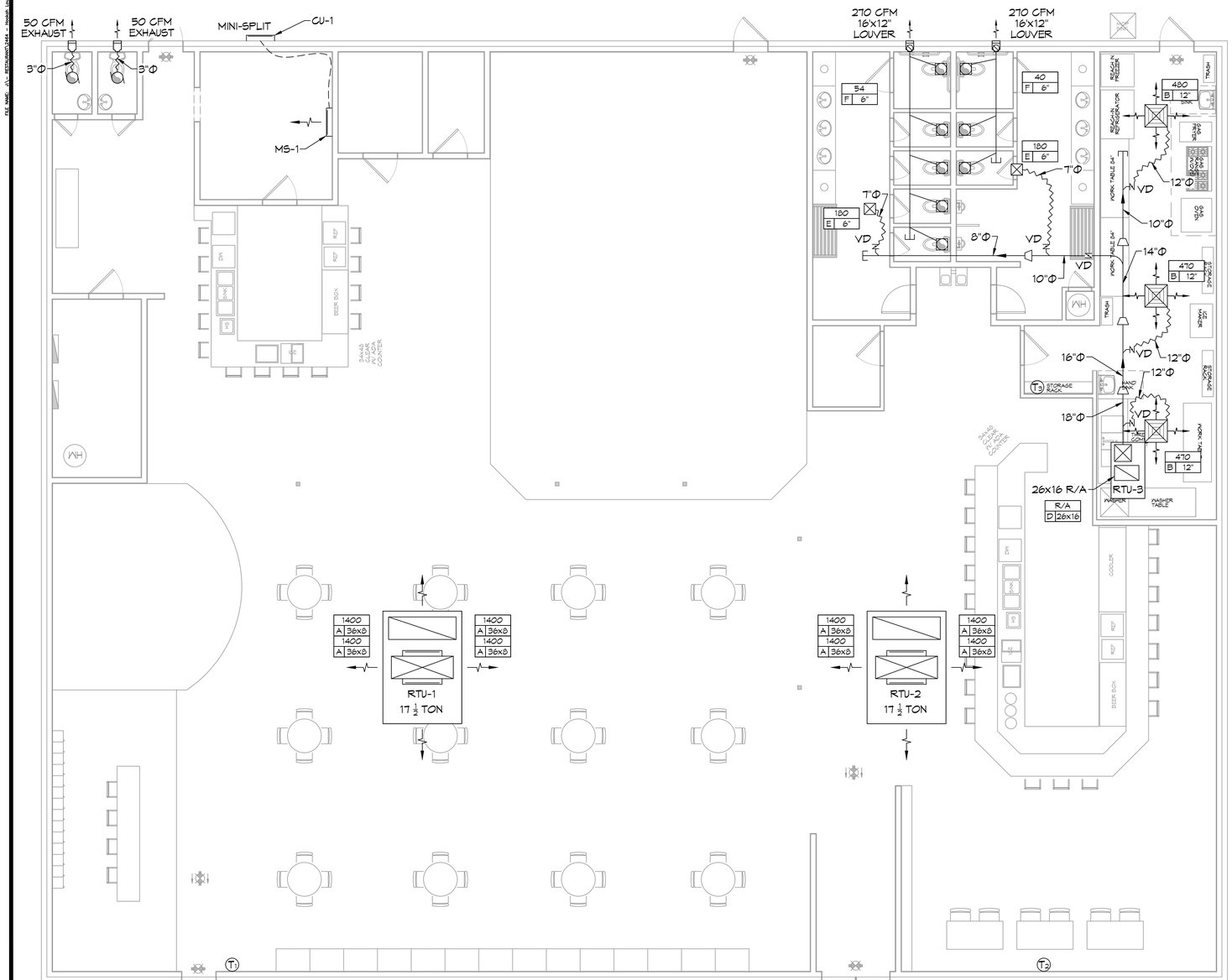


B DUCT SPLITTER DET

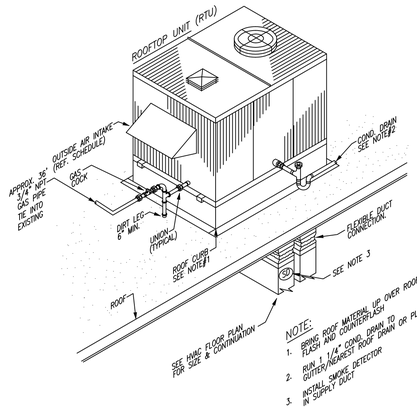
A SQUARE ELBOW DET

TYPICAL DETAILS

SCALE: N.T.S.



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



NOTE:
1. BRING ROOF MATERIAL UP OVER ROOF CURB FLASH AND COUNTERFLASH
2. RUN 1 1/4" COND. DRAIN TO GUTTER/NEAREST ROOF DRAIN OR PLUMBING
3. INSTALL SMOKE DETECTOR IN SUPPLY DUCT

HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6, INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCW WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 °F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
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 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 AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. 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).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0". SUPPORT FLEX DUCT TO PREVENT SAGGING
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE
22. 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.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

MECHANICAL LEGEND

- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- VD DAMPER CONTROL
- SUPPLY DUCT
- RETURN AIR DUCT
- EXHAUST DUCT
- RATED WALL
- CFM / MK / SIZE
- EXHAUST FAN
- EXHAUST MOTOR
- T THERMOSTAT
- FIRE DAMPENER
- ROUND FLEX DUCT, MAX. LENGTH 12'-0". MIN. R-6. DUCT SIZE AS FOLLOWS:
  250 CFM TO 350 CFM = 9"
  200 CFM TO 250 CFM = 8"
  150 CFM TO 200 CFM = 7"
  100 CFM TO 150 CFM = 6

EXHAUST FAN SCHEDULE

TAG	FAN AIRFLOW (CFM)	FAN TSP (" wc)	POWER AMPS	POWER WATTS	POWER VAC	POWER PH	POWER HZ	MAKE / MODEL	REMARKS
EF-1	270	0.15		170	120	1	60	Cook GC-422	1, 2
EF-2	50	0.1	0.9		120	1	60	NuTone 696N	1, 3

1. Install per manufacturer's recommendations
2. Interlock with RTU-3.
3. Interlock with light switch

DIFFUSER SCHEDULE

Mark No.	Service	Neck Size	Description
A	Supply Air	Ref. Plan	Price 620D Register, Double Deflection Loouvered Face Supply w/ Damper
B	Return Air	Ref. Plan	Price 610Z, Lovered Face Return
C	Supply Air	Ref. Plan	24"x 24" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel
D	Return Air	Ref. Plan	Price 610Z, Lovered Face Return
E	Supply Air	Ref. Plan	12"x 12" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel
F	Exhaust	Ref. Plan	6" x 6" Eggcrate, Price Series 80

1. Coordinate with Architect / Owner for colors and finish.

AIR HANDLER Tag	Nominal Tons	Make	Model	Airflow (CFM)	Cooling (MBH)	Heating (BTUH)	Power VAC	Power Ph	Power MCA	CONDENSING UNIT Tag	Make	Model	Power VAC	Power PH	MCA	Remarks
MS-1	3/4	Mitsubishi	MSZ-GL09NA	400	9	10900	208	1	1	CU-1	Mitsubishi	MUZ-GL09NA	208	1	9	1, 2, 3

NOTES:
1 Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
2 Furnish with wired wall thermostat / controller, condensate pump and inlet filter.
3 Install units in accordance with manufacturer's recommendations and drawings.

RTU SCHEDULE

TAG	Make / Model	NOMINAL TONS	TOTAL CFM	O/A CFM	COOLING TOTAL MBH	COOLING SENSIBLE MBH	ESP (" WC)	POWER VAC	POWER HZ	POWER PH	POWER MCA	GAS HEAT INPUT	GAS HEAT OUTPUT	REMARKS
RTU-1	Trane YSD210	17.5	5600	2940	198.9	118.9	0.4	208	60	3	93	250	203	1, 2, 3, 4
RTU-2	Trane YSD210	17.5	5600	2940	198.9	118.9	0.4	208	60	3	93	250	203	1, 2, 3, 4
RTU-3	Trane YSC048	4	1780	120	49.7	38.2	0.5	208	60	3	26	60	48	1, 2, 3, 4

NOTES:
1 Furnish with powered exhaust, ventilation override, electrical thru base provisions, roof curb, smoke detector & MERV 8 filters
2 Provide condensate overflow switch and programmable 7/24 thermostat with lockable cover.
3 Install units in accordance with Manufacturer's recommendations.
4 Provide new filters after commissioning and final acceptance.

SCHEDULES
SCALE: N.T.S.

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Slidell, LA 70458

#	DESCRIPTION	REVISIONS	DATE

SEAL:

NEW LOUNGE RESTAURANT
THE BLAKK LOUNGE RESTAURANT AND BAR
2504 OLD SPANISH TRAIL,
SLIDELL, LA 70461

JOB No: 2464 | DATE: 02/07/2022
DRAWN BY: CKD | CHECKED BY: BAM

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SHEET TITLE:
MECHANICAL PLAN

DRAWING NUMBER:
M101

SHEET No: 11 of 1

FILE NAME: J:\-_REVIT\WORK\2464 - Blakk Lounge 2504 Old Spanish Trail\Drawings\Current Drawings\M101 - Mechanical Plan.dwg PLOT DATE & TIME: Thursday, February 3, 2022 11:11:54 AM