FAN SCHEDULE											
MARK	SERVICE	CFM	E.S.P. "WG	RPM	MOTOR HP	VOLTS/ PH	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
KEF-1	EXHAUST HOOD	817	0.50	1428	0.25	115/1	CAPTIVEAIRE	DU30HFA	ROOF UPBLAST FAN	55	1,3,6
TEF-1	RESTROOM	150	0.25	1300	133 W	115/1	LOREN COOK	GN 164	CEILING CABINET FAN	16	2,4,7
TEF-2	RESTROOM	150	0.25	1300	133 W	115/1	LOREN COOK	GN 164	CEILING CABINET FAN	16	2,4,7

NOTES: (NOT ALL MAY APPLY)

- 1. EXHAUST FAN SHALL BE INTERLOCKED WITH EXHAUST HOOD SWITCH. COORDINATE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR.
- 2. ELECTRICAL CONTRACTOR SHALL INTERLOCK WITH RESPECTIVE RESTROOM LIGHT SWITCH FOR SIMULTANEOUS OPERATION.
- . WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
- INSTALL COMPLETE WITH FACTORY AVAILABLE GRAVITY BACKDRAFT DAMPER.
- 5. PROVIDE FACTORY AVAILABLE GREASE BOX.
- 6. FURNISHED WITH KITCHEN HOOD PACKAGE, INSTALLED BY MECHANICAL CONTRACTOR.
- 7. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

AIR DEVICE SCHEDULE								
MARK	FACE SIZE	TYPE	MOUNTING TYPE	MAXIMUM N.C.	DIRECTION	MANUFACTURER	MODEL	NOTES
CD	24x24	SUPPLY	LAY-IN	30	4-WAY	TITUS	TMS	1,2,3
GD	12x12	SUPPLY	SURFACE	30	4-WAY	TITUS	OMNI	1,2,3
KD	24x24	SUPPLY	LAY-IN	30	1-WAY	TITUS	PAR	1,2,3,4
OD	12x12	SUPPLY	LAY-IN	30	4-WAY	TITUS	TMS	1,2,3
CR	24x24	RETURN	LAY-IN	30	1-WAY	TITUS	PAR	1,2,3,4
KR	24x24	RETURN	LAY-IN	30	1-WAY	TITUS	PAR	1,2,3,4
OR	12x12	RETURN	LAY-IN	30	1-WAY	TITUS	PAR	1,2,3,4

NOTES: (NOT ALL MAY APPLY)

- 1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR INTENDED INSTALLATION.
- 2. AIR DEVICE(S) SHALL BE FACTORY FINISHED WHITE.
- 3. AIR DEVICE(S) SHALL BE INSTALLED WITH MANUFACTURER AVAILABLE MOLDED INSULATION BACKING. FIELD FABRICATED INSULATION BACKING IS NOT ALLOWED (UNLESS FIRST APPROVED BY THE TENANT'S CONSTRUCTION MANAGER).
- 4. DO NOT INSTALL WITH PATTERN CONTROLLERS.

AIR BALANCE SCHEDULE							
MADIZ		DINING (CFM)		KITCHEN (CFM)			
MARK	S/A	O/A	E/A	S/A	O/A	E/A	
RTU-1	2850	710	_	_	_	_	
RTU-2	_	-	_	3800	950	_	
KEF-1	_	_	_	_	-	817	
TEF-1	_	_	150	_	-	_	
TEF-2	_	_	150	_	_	-	
TOTAL	2850	710	300	3800	950	817	

DINING PRESSURIZATION (O/A) - (E/A) = +410 CFM

KITCHEN PRESSURIZATION (O/A) - (E/A) = -133 CFM

NET BUILDING PRESSURIZATION (DINING + KITCHEN)= +543 CFM

O/A VENTILATION SCHEDULE						
AREA SERVED	# OF SEATS	OCCUPANCY DIVERSITY	# OF PEOPLE	CFM/PERSON	CFM	
DINING	87	90%	66	20	1320	
KITCHEN	_	100%	6	15	90	
				TOTAL O/A REQUIRED	1410	

NOTES:

- 1. CALCULATIONS ARE BASED ON 2009 UMC, TABLE 403.3
- 2. OUTDOOR AIR DEMAND IS: 1410 CFM OUTDOOR AIR PROVIDED IS: + 1660 CFM

OUTDOOR AIR DIFFERENCE IS: + 250 CFM

3. REFER TO THE AIR BALANCE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

TEST AND BALANCE NOTES

1. THE GENERAL CONTRACTOR SHALL SUBCONTRACT TO AN AIR TEST AND BALANCE CONTRACTOR THE TESTING, ADJUSTING AND BALANCING OF ALL ENVIRONMENTAL SYSTEMS SHOWN OR SPECIFIED ON THE CONTRACT DOCUMENTS. THE WORK SHALL BE PERFORMED BY A FIRM CERTIFIED BY EITHER AABC OR NEBB, AND FOUR (4) COPIES OF THE FINAL REPORT, SUBMITTED ON CERTIFYING AGENCY FORMS, SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL. THE REPORT SHALL BEAR THE CERTIFICATION SEAL OF THE TAB SUPERVISOR IN CHARGE. REPORTS SHALL CONTAIN ALL AIR SIDE BALANCING DATA, INSTRUMENTS USED AND THEIR LATEST CALIBRATION DATES, PERSON(S) PERFORMING THE WORK AND A WRITTEN GUARANTEE THAT ALL TAB WORK WAS PERFORMED IN ACCORDANCE WITH THE CERTIFYING AGENCY STANDARDS AND PROCEDURES. AN INDEPENDENT AIR BALANCING CONTRACTOR MAY PERFORM THIS WORK ONLY UPON WRITTEN SUBMISSION OF QUALIFICATIONS AND SUBSEQUENT APPROVAL BY THE PROJECT ENGINEER.

PACKAGED ROOFTOP UNIT SCHEDULE					
	MARK	<u>RTU-1</u>	<u>RTU-2</u>		
	SERVING	DINING	KITCHEN		
	MANUFACTURER	TRANE	TRANE		
.	MODEL NO.	YHC092	YHC120		
GENERAL	TYPE	GAS/ELEC	GAS/ELEC		
GE	OPERATING WEIGHT, LBS.	1400	1601		
	LENGTH, WIDTH, HEIGHT	89"x53"x47"	100"x63"x51"		
	MINIMUM EER	13.0	12.5		
,AL	VOLTS/ PH/ HZ	208/3/60	208/3/60		
RIC	MIN. CIRCUIT AMP. (MCA)	42.7	50.3		
ELECTRICAL	MAX. OVERCURRENT PROT. (MOCP)	50.0	60.0		
EL					
	SUPPLY AIR CFM	2850	3800		
├	OUTSIDE AIR CFM	710	950		
SUPPLY FAN	EXTERNAL STATIC PRESSURE IN W.G.	0.8	0.8		
SUF F.	FAN RPM	794	1379		
0,	FAN MOTOR BHP	1.10	1.73		
	NOMINAL SIZE TONS	7.5	10		
၌	TOTAL CAPACITY MBTUH	85.0	110.0		
COOLING	SENSIBLE CAPACITY MBTUH	66.5	87.1		
000	OUTSIDE AIR DB/WB, DEG. F.	105	105		
	ENTERING AIR DB/WB DEG. F.	80/67	80/67		
	TYPE OF HEAT	040	040		
	TYPE OF HEAT	GAS	GAS		
ð	HEATING INPUT MBTUH	150	200		
HEATING	HEATING OUTPUT MBTUH	120	160		
<u> </u>	OUTSIDE AIR DB, DEG. F.	25	25		
	LEAVING AIR DB, DEG. F.	100.1	100.0		
NOTES		1 THRU 10	1 THRU 10		

NOTES: (NOT ALL MAY APPLY)

- PROVIDE A FACTORY AVAILABLE UN-INSULATED FLAT ROOF CURB THAT SHALL BE FIELD ASSEMBLED AND SHIMMED SUCH THAT THE TOP OF THE CURB SETS LEVEL. ROOF CURBS TO BE INSTALLED BY THE GENERAL CONTRACTOR, AND FIELD INSULATED BY THE MECHANICAL CONTRACTOR.
- 2. PROVIDE WITH LOW AMBIENT CONTROLS, CONDENSER COIL HAIL GUARD, HINGED ACCESS PANELS, CRANK CASE HEATER, FROSTAT.
- SENSORS AND LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.
 PROVIDE WITH MANUFACTURER'S REMOTE TEMPERATURE SENSOR AND PROGRAMMABLE 24/7 THERMOSTAT
- CAPABLE OF AUTOMATIC COOLING/ HEATING CHANGEOVER.

 5. PROVIDE FACTORY INSTALLED ENTHALPY CONTROLLED ECONOMIZER WITH MOTORIZED OUTSIDE AIR DAMPER.
- 6. PROVIDE FACTORY AVAILABLE RETURN AIR SMOKE DETECTOR(S), CAPABLE OF SHUTTING DOWN THE ROOFTOP UNIT UPON ACTIVATION.
- 7. PROVIDE FACTORY INSTALLED NON-FUSED ELECTRICAL DISCONNECT AND CONVENIENCE RECEPTACLE. RECEPTACLE SHALL BE FIELD WIRED BY THE E.C. AND POWERED SEPARATELY FROM THE UNIT.
- 8. PROVIDE BOTTOM ENTRY SINGLE POINT ELECTRICAL POWER CONNECTION.
- 9. UNIT SELECTIONS ARE BASED ON R-410A REFRIGERANT AND HIGH EFFICIENCY OPERATION.
- 10. SCHLOTZSKY'S DELI RESTAURANTS AS PART OF FOCUS BRANDS HAS A NATIONAL ACCOUNT AGREEMENT WITH THE TRANE COMPANY FOR PREFERRED PRICING. THE ROOFTOP UNITS SHALL BE ORDERED, FURNISHED AND INSTALLED BY THE INSTALLING CONTRACTOR. CONTACT MR. CHRIS ST. JOHN (TRANE) AT (407)551—1116 FOR PRICING AND VERIFICATION OF FINAL SELECTIONS FOR EQUIPMENT INFORMATION AND ORDERING.

MECHANICAL LEGEND				
SYMBOL	ABBR.	DESCRIPTION		
\boxtimes	CD	CEILING DIFFUSER — SUPPLY		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CD	CEILING DIFFUSER BELOW DUCT — SUPPLY		
\boxtimes	SAD	RISER — SUPPLY AIR DUCT		
K Z	SAD	DROP — SUPPLY AIR DUCT		
	CR	CEILING REGISTER — RETURN		
	CR	CEILING REGISTER BELOW DUCT — RETURN		
	RAD	RISER — RETURN AIR DUCT		
Г Л	RAD	DROP — RETURN AIR DUCT		
	CE	CEILING REGISTER — EXHAUST		
	CE	CEILING REGISTER BELOW DUCT — EXHAUST		
	EAD	RISER — EXHAUST AIR DUCT		
£3	(L)	LINED DUCTWORK		
	VD	MANUAL VOLUME DAMPER		
= 	FC	FLEXIBLE CONNECTION		
=		NEW DUCT		
TAG		AIR DEVICE DESIGNATION		
Ū	TSTAT	PROGRAMMABLE THERMOSTAT		
<u> </u>	SENS	REMOTE TEMPERATURE SENSOR		
<u>(s)</u>	SD	SMOKE DETECTOR		
\oplus	POC	POINT OF CONNECTION		
	CFM	CUBIC FEET PER MINUTE		
	S/A	SUPPLY AIR		
	O/A	OUTSIDE AIR		
	E/A	EXHAUST AIR		
	S.P.	STATIC PRESSURE		
	FOH	FRONT OF HOUSE		
	ВОН	BACK OF HOUSE		

MECHANICAL GENERAL NOTES

- 1. NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- 2. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- 3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL. PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
- 4. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- 5. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHT FIXTURES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- 7. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
- 8. ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
- 9. HVAC UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET—BACK HOURS, THE HVAC UNITS SHALL RUN IN "FAN AUTO" MODE.
- 10. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR HVAC UNITS AND FANS.
- 11. ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY.
 THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
 ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
- 12. SUPPLY, RETURN, AND RESTROOM EXHAUST, AND DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
- 13. ALL HVAC SUPPLY AND RETURN EXPOSED DUCTWORK SHALL BE INTERNALLY LINED AND PINNED WITH MINIMUM R-5.0, 1-1/2" INSULATION WITH VAPOR BARRIER PER THE 2009 UNIFORM MECHANICAL CODE WITH CITY AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT PAINT OR COLOR SPECIFICATION
- 14. ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-5.0, 2" INSULATION WITH VAPOR BARRIER PER THE 2009 UNIFORM MECHANICAL CODE WITH CITY AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
- 15. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED
- WITH UL LISTED FIRE STOPPING MATERIAL.

 16. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

 17. ALL RECTANCILLAR ROLLING AND FLEXIBLE DUCTWORK SHALL BE SIZED AS
- 17. ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS; AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
- 18. THERMOSTAT(S) SHALL BE LOCATED AS NOTED EXACT LOCATIONS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED WORK OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
- 19. ROOF CURBS FOR EXHAUST FANS AND THE MAKEUP AIR UNIT SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HOOD AND FAN PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- 20. A FULL CERTIFIED MECHANICAL AIR TEST AND BALANCE REPORT SHALL BE PERFORMED BY A CONTRACTOR APPROVED BY THE TENANT.
- 21. PER THE 2009 UNIFORM MECHANICAL CODE WITH CITY AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE BUILDING CODE, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
- 22. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE AIR HANDLING UNITS WITH 2" THICK PLEATED MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
- 23. MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.



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12-15-11

SCHLOTZSKY'S D

THE TRAILS AT 620

300 N. FM 620 STE 103

USTIN, TX. 78726

LIENT: FOCUS Brands

201 S. CONCRESS AVE STE 1100



DATE DESCRIPTION

ISSUE FOR PERMIT

\triangle	DATE	:	DESCRIPTION

MECHANICAL SCHEDULES

SHEET NUMBER:

M2.0

PROJECT NUMBER:

FOC11003