

GENERAL:

- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFF-SETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
- PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

- INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- E.C. SHALL PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
- M.C. SHALL PROVIDE 24V CONTROL WIRING AND FINAL CONNECTIONS. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
- FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
- HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
- ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED.
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX.
- SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS, AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. INCLUDE SMOKE DETECTOR IN THE SUPPLY AIR DUCT ONLY IF REQUIRED BY LOCAL CODE.
- ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE 3M FIRE BARRIER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. SEE 8/M4.0.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8/M4.0.
- ALL UTILITY PIPING FOR RTUS SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- SEE 8/M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
- FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT ORDERED BY THE OWNER AND COORDINATED BY THE G.C. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL. EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.
- THERMOSTAT & REMOTE WALL MOUNTED TEMPERATURE AND CEILING MOUNTED HUMIDITY SENSOR PROVIDED AND INSTALLED BY M.C.



GENERAL NOTES 10

SYMBOL & ABBREV.	DESCRIPTION
	SA/SUP SUPPLY AIR (RISE/DROP)
	RA/RET RETURN AIR DUCT (RISE/DROP)
	EA/EXH EXHAUST AIR DUCT (RISE/DROP)
	CD/SR CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG RETURN REGISTER/GRILLE
	ER/EG EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FC FLEXIBLE CONNECTION
	MVD MANUAL VOLUME DAMPER
	FD FIRE DAMPER
	(L) DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINE DUCT BRANCH TAKEOFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEX FLEXIBLE DUCT (14'-0 MAXIMUM)
	T-STAT PROGRAMMABLE THERMOSTAT, PROVIDED WITH TRANE PACKAGE.
	THERMOSTAT SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE.
	HUMIDITY SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE.
	D CONDENSATE DRAIN
	DIA. DIAMETER
	DL DOOR LOUVER
	UC DOOR UNDERCUT (3/4" MINIMUM)
	MECHANICAL EQUIPMENT DESIGNATION
	R RESET SMOKE DETECTOR RESET
	DOUBLE LINE DUCT SHOE TAP BRANCH TAKEOFF WITH VOLUME DAMPER

MECHANICAL SYMBOLS 12

SYMBOL & ABBREV.	DESCRIPTION
A/C, AC	AIR CONDITIONING
BDD	BACK DRAFT DAMPER
CB	CIRCUIT BREAKER
CLG.	CEILING
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DET.	DETAIL
DISC.	DISCONNECT
DTR	DOWN THRU ROOF
EF	EXHAUST FAN
(E)	EXISTING
GA.	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
MFR.	MANUFACTURER
MECH.	MECHANICAL
(N)	NEW
OA/OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
S/S	STAINLESS STEEL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTR	UP THRU ROOF

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XX-XXX MARK	AREA SERVED	FAN DATA					COOLING CAPACITY			HEATING CAPACITY			UNIT ELECT DATA			MAX UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMARKS	
		SUPPLY CFM	MIN O.A. CFM	ESP	HP	RPM	NOM TONS	MIN CAP (MBH) TOT/SEN	EER	INPUT (MBH)	OUTPUT (MBH)	STAGES	AFUE	VOLTS/PH	MCA				MOPD
RTU-1	DINING	2400	900	0.69"	2.75	972	7.5	84.5/88.5	12.6	120	96	2	80	208/3	42	50	1227	TRANE YHC092	SEE NOTES 1-5
RTU-2	KITCHEN	4000	600	0.74"	3	589	12.5	131.1/93.7	12.1	150	120	2	80	208/3	67	80	2457	TRANE YHD150	SEE NOTES 1-5

SCHEDULE NOTES:

- LISTED CAPACITY IS THE STANDARD UNITS NET COOLING CAPACITY AT MIXED AIR CONDITIONS AND 102.2°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER 97.2°F & 75.3°F WB, WINTER 23.5°F. THERMOSTAT SHALL BE PROGRAMMED FOR 73°F IN SUMMER AND 68°F IN WINTER WITH 2°F ADJ. FUNCTION UP OR DOWN. THE UNOCCUPIED TEMP SHALL BE SET TO THE STORE SCHEDULE AND 60°F MINIMUM.
- SPECIFIED RTUS ARE DOWN DISCHARGE PACKAGED GAS / ELECTRIC ROOFTOP UNITS WITH MINIMUM 2-STAGE COOLING. INCLUDES THROUGH THE ROOF CURB POWER, GAS & CONDENSATE DRAIN. GAS PIPING SHALL BE FACTORY PIPED WITH SHUT-OFF OUTSIDE OF UNIT.
- SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" PLEATED FILTERS, LOW AMBIENT CONTROL TO 0 DEG. F., MODULATING ECONOMIZER (REFERENCE ENTHALPY) CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK DOWN ROOF CURB.
- ENHANCED DEHUMIDIFICATION OPTION IS REQUIRED FOR BOTH RTUS. HUMIDITY SENSOR TO BE MOUNTED ON THE CEILING NEAR THE RETURN. THIS OPTION IS REQUIRED FOR DESIGN WET BULB TEMPERATURE 74 DEG. F AND ABOVE.
- THERMOSTAT AND REMOTE SENSOR PROVIDED AND INSTALLED BY M.C. THERMOSTAT TO BE HONEYWELL T7300 PROGRAMMABLE ZONE THERMOSTAT W/ REMOTE SENSOR.

DESIGNER NOTES:

- TACO BELL CORPORATE RTU UNITS BASIS OF DESIGN IS TRANE. LENNOX MAY BE USED AS FRANCHISE OPTION. M.C. AND G.C. REQUIRED TO COORDINATE CHANGES IF LENNOX IS SELECTED.



HVAC UNIT SCHEDULE 1

XX-XXX MARK	CFM	SP	RPM	HP	ELECT	STARTER	ACCESSORIES					MANUFACTURER AND MODEL NUMBER	REMARKS
							DISC	BDD	BIRD SCREEN	V-BELT	D-DR		
EF-1	1050	0.9	1344	0.50	120/1	-	X	-	-	-	X	STRATOVENT #SVDU50HFA	SEE NOTES 1,3,5,6,7,8,10
EF-2	150	0.25	1095	0.166	120/1	-	X	X	X		X	STRATOVENT #SVD10HFA	SEE NOTES 2,4,7,8,9,10,11

REMARKS:

- UL 762 LISTED (GREASE)
- UL705 LISTED (HEAT OR STEAM)
- FLAT ROOF CURB: 19.5" X 19.5" X 26"H, VENTED
- FLAT ROOF CURB: 17.5" X 17.5" X 19"H
- GREASE CUP WITH DRAIN
- FACTORY ATTACHED HINGES
- WEATHERPROOF PRE-WIRED DISCONNECT SWITCH
- PROVIDE PRE-WIRED SOLID STATE SPEED CONTROLLER
- GRAVITY BACKDRAFT DAMPER
- PROVIDED BY OWNER WITH HOOD PACKAGE
- PROVIDE WITH DAMPER TRAY

SUPPLY AND EXHAUST FAN SCHEDULE 2

XX-XXX MARK	QUANTITY	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE	(NO.) & AIR PATTERN	CFM RANGE	MOUNTING			DUTY		MATERIAL		MANUFACTURER	MODEL NUMBER	REMARKS
				DIFFUSER REGISTER GRILL <td></td> <td></td> <th>LAY-IN</th> <th>SURFACE</th> <th>SUPPLY</th> <th>RETURN</th> <th>EXHAUST</th> <th>ALUMINUM</th> <th>STEEL</th> <td></td> <td></td> <td></td>			LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST	ALUMINUM	STEEL			
S-1	-	PER PLAN	24x24	X	4W	0-600	X	X	X			X		METALAIRE	5000	FRN SQR TO RND ADAPTER
S-2	-	PER PLAN	14x14	X	4W	0-200		X	X				X	METALAIRE	5000	FRN SQR TO RND ADAPTER, (1) LAY-IN MOUNT
S-3	-	PER PLAN	24x24	X	VERT	0-475	X		X					HART & COOLEY	RZMCDST	PLASTIC MODULAR CORE
R-1	-	PER PLAN	24x24		NO DIREC	0-1350	X			X				METALAIRE	RH	HINGED / FULLY REMOVABLE FACE, FACE ADJ. OBD WHERE REQUIRED
E-1	-	8x8	12X12	X	NO DIREC	0-150		X			X	X		METALAIRE	CC5	FACE ADJ. OBD WHERE REQUIRED.

NOTES:

- SEE HVAC PLAN FOR DIFFUSER QUANTITIES.
- DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- FURNISH DIFFUSERS WITH INSULATED TOPS.
- SUPPLY AND RETURN DIFFUSERS THROUGHOUT WILL BE WHITE.
- PROVIDE SQUARE TO ROUND TRANSITION FROM DUCT SHOWN ON PLAN TO DIFFUSER AS REQUIRED.

AIR DEVICE SCHEDULE 3

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	1050	-1050
EF-2	-	--	--	150	-150
RTU-1	900	1500	2400	--	+900
RTU-2	600	3400	4000	--	+600
TOTAL	1500	4900	6400	1200	+300

NOTE:

THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 30.0% FOR RTU-1 AND 12% FOR RTU-2.

AIR BALANCE SCHEDULE CFM 4

REFER TO SCOPE OF WORK 15700-1 HVAC FOR TEST & BALANCE & COMMISSIONING REQUIREMENTS WHICH WILL BE SUPPLIED BY THE OWNER AND COORDINATED BY THE GC.

FOR COMPLETE INFORMATION AND PRICING ON THE TRANE HVAC PACKAGE CONTACT MARTY CUSICK, THE YUM! BRANDS ACCOUNT EXECUTIVE AT TRANE NATIONAL ACCOUNTS. TOLL-FREE PHONE: (866) YUM-HVAC or (866) 986-4822. FAX: (502) 499-7870. EMAIL: mjcusick@trane.com

TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH LENNOX NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS CONTACT BY EMAIL AT YUM!@LENNOXIND.COM OR 800-367-6285. ACCOUNT MANAGER BRAD SMITH.

TRANE AND LENNOX HAVE AGREED TO SUPPLY AN HVAC PACKAGE CONSISTING OF THE ROOF-TOP UNITS, CURBS, THERMOSTATS, TEMPERATURE SENSORS (REMOTE), AND HUMIDITY SENSORS (REMOTE). RTUS AS SPECIFIED INCLUDE AN UNPOWERED CONVENIENCE OUTLET (SEE ELECTRICAL) AND AN HACR CIRCUIT BREAKER WHICH PROVIDES UNIT DISCONNECT. TRANE AND YORK ALSO HAVE AVAILABLE OPTION PACKAGES WHICH INCLUDE SMOKE DETECTORS AND ANNUNCIATORS, ECONOMIZERS, AND RTU VARIATIONS SUCH AS HIGH-EFFICIENCY MODELS.

FOR HVAC TEST AND BALANCE, GC TO SCHEDULE WITH TACO BELL'S PREFERRED VENDOR PER SCOPE OF WORK WORKSHEETS.

BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

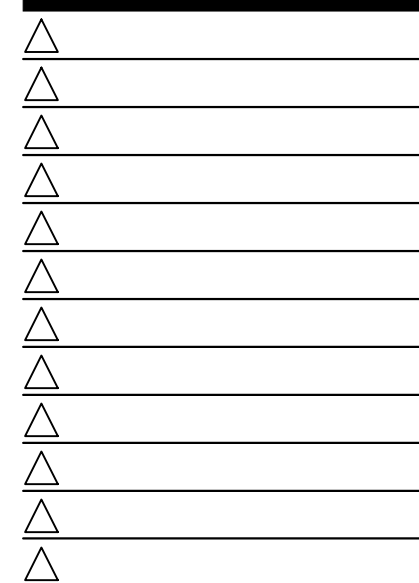
SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

TRANE PACKAGE N.T.S. 8



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A Division of LMHT Associates

2022-02-24
BID SET



CONTRACT DATE: 11.29.21
BUILDING TYPE: ENDEAVOR 2.0
PLAN VERSION: SEPTEMBER 2021
SITE NUMBER: XXX-XXX
STORE NUMBER: XXXXX

TACO BELL

209 BLYTHEWOOD RD
BLYTHEWOOD, SC 29016



ENDEAVOR 2.0

MECHANICAL SCHEDULES AND NOTES

M1.0

