

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 MECHANICAL AND ENERGY CODES 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. REFER TO SHEETS E3.0 - ELECTRICAL POWER PLAN, SHEET E3.2-ELECTRICAL POWER ROOF PLAN, E6.0 - ELECTRICAL DETAILS - TBCCB, E6.1 - ELECTRICAL DETAILS - TBCCB, E7.0 - ELECTRICAL DETAILS, E7.1 - ELECTRICAL DETAILS.
- 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. REFER TO ELECTRICAL DRAWINGS SHEETS E6.1 AND E7.0 FOR ADDITIONAL LOW VOLTAGE WIRING AND CONNECTIONS.
- PROVIDE ALL REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF AND CHARGE LINES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
- ALL SUPPLY / RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED. ALL RETURN AND SUPPLY DUCT RISERS SHALL BE LINED (NOT WRAPPED).
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID EXCEPT AS NOTED/INDICATED AS RIGID ON THE DUCT PLAN, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX. ALL EXHAUST DUCT MUST BE RIGID.
- ROOF TOP UNITS SHALL BE ORDERED WITH FACTORY SUPPLIED AND INSTALLED RETURN SMOKE DETECTORS. WHEN REQUIRED BY MANUFACTURER, SAMPLE TUBE SHALL BE LOCATED PER FIELD INSTALLATION INSTRUCTIONS. DETECTOR SHALL DEACTIVATE THE ROOF TOP UNIT UPON SENSING SMOKE. INCLUDE SUPPLY SMOKE DETECTOR 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. PROVIDE TRANSITION AT TERMINATION OF TYPE 1 EXHAUST DUCT TO THE TOP OF THE FAN BASE. TRANSITION MUST BE CENTERED AND HAVE MINIMUM OF 1" SLOPE.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT BRANCH FEEDER. DAMPER SHALL BE MINIMUM 26 GAUGE LOCATED IN A DEDICATED SLEEVE WITH AN AXLE AND LOCKING QUADRANT. NO INSTALLATION OF DAMPERS IN STARTER COLLARS. ALL DAMPER HANDLES SHALL HAVE A FLAG ON THE HANDLE FOR LOCATION PURPOSES.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND /OR VENTS.
- SEE M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY HVAC TEST & BALANCE REQUIRED FOR LOCAL AUTHORITY HAVING JURISDICTION, CERTIFICATE OF OCCUPANCY, BUILDING FINAL, ETC.
- FINAL HVAC SYSTEM TESTING AND BALANCING, AND COMMISSIONING SHALL BE PERFORMED BY INDEPENDENT AGENT. INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER IS SCHEDULED AND PAID FOR (FRANCHISE STORES) BY GENERAL CONTRACTOR (CORPORATE STORES ARE DIRECT BILLED TO TACO BELL). CONTRACTOR SHALL CERTIFY COMPLETION OF INSTALLATION, START UP AND PRE-COMMISSIONING CHECKLIST SHOWN ON SHEET SW2.0 BEFORE SCHEDULING OWNER. S INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT START/RESTART/POWER ON PURPOSES OR WHEN READY TO STARTED, 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 SHALL BE INCURRED BY THE GENERAL CONTRACTOR.

INDEPENDENT AGENTS:

- Air Care Experts
TAB@ACE-IAQ.COM
949 770-2222
- WIRE ALL SMOKE DETECTORS IN RTU TO ITS RESPECTIVE REMOTE ANNUNCIATOR/RESET SWITCH. INSTALL "SYSTEM SENSOR" MODEL R1S2A0S. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MANUFACTURER SPECIFICATIONS.
 - REFERENCE RTU TO TBCCB CONNECTIONS PER E6.1.
 - RTU MANUFACTURER FURNISHED THERMOSTATS SHALL BE CAPABLE OF RECEIVING AN EXTERNAL "OCCUPIED" SIGNAL.
 - MECHANICAL CONTRACTOR RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
 - REFERENCE RTU TO TBANS CONNECTIONS PER E7.1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE CONNECTIONS.
 - LOW VOLTAGE CONNECTIONS TO SMOKE DETECTORS, REMOTE ANNUNCIATORS AND RESETS, THERMOSTATS, TBCCB AND TBANS REQUIRE VISUAL INSTALLATION VERIFICATION CERTIFICATE. CONTACT CERTIFY@ACE-BCX.COM OR 949 770 2222 FOR CERTIFICATE. SEE SHEET SW2.0 CERTIFICATE.

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.



GENERAL NOTES 10

SYMBOL & ABBREV.	DESCRIPTION
	SUPPLY AIR (RISE/DROP)
	RETURN AIR DUCT (RISE/DROP)
	EXHAUST AIR DUCT (RISE/DROP)
	CEILING DIFFUSER/SUPPLY REGISTER (ARROW-HEAD REPRESENTS NUMBER OF THROW)
	RETURN REGISTER/GRILLE
	EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINE DUCT BRANCH TAKEOFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEXIBLE DUCT (14'-0" MAXIMUM)
	PROGRAMMABLE THERMOSTAT, PROVIDED WITH TRANE PACKAGE
	THERMOSTAT SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE
	HUMIDITY SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE
	CONDENSATE DRAIN
	DIAMETER
	DOOR LOUVER
	DOOR UNDERCUT (3/4" MINIMUM)
	MECHANICAL EQUIPMENT DESIGNATION
	RESET
	DOUBLE LINE DUCT SHOE TAP BRANCH TAKEOFF WITH VOLUME DAMPER

SYMBOL & ABBREV.	DESCRIPTION
	AIR CONDITIONING
	BACK DRAFT DAMPER
	CIRCUIT BREAKER
	CEILING
	CONNECT/CONNECTION
	CONTINUATION
	CONTRACTOR
	CUBIC FEET PER MINUTE
	DETAIL
	DISCONNECT
	DOWN THRU ROOF
	EXHAUST FAN
	EXISTING
	GAGE/GAUGE
	GENERAL CONTRACTOR
	HEATING, VENTILATING AND AIR CONDITIONING
	MANUFACTURER
	MECHANICAL
	NOTED
	OUTSIDE AIR
	OPPOSED BLADE DAMPER
	STAINLESS STEEL
	TYPICAL
	UNLESS OTHERWISE NOTED
	UP THRU ROOF

MECHANICAL SYMBOLS 12

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	3400	750	0.8"	2.0	918	8.5	109.4/89.8	12.2	180	144	2	80	208/3	44	50	1333	LENNOX LGH102H4M	SEE NOTES 1-16
RTU-2	KITCHEN	7000	1050	1"	5	969	17.5	215.0/162.9	12.0	260	208	2	80	208/3	87	100	2592	LENNOX LGH210H4M	SEE NOTES 1-16

SCHEDULE NOTES:

- LISTED CAPACITY IS THE UNITS NET COOLING CAPACITY AT THE FOLLOWING CONDITIONS: RTU-1 - 80.3°F DB / 70.0°F WB EAT AND 92.5°F AMBIENT / OUTDOOR DESIGN CONDITION. SUMMER 90°F & 75°F WB, WINTER 18°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 UNITS INCLUDE MINIMUM 2 STAGE COOLING FOR RTU-1 AND 3 STAGE COOLING FOR RTU-2, LOW AMBIENT CONTROL TO 0 DEG. F AND THROUGH THE ROOF CURB CURB GAS AND POWER CONNECTIONS.
- HINGED ACCESS DOORS (FACTORY PROVIDED).
- 2 INCH MERV 8 FILTER (FACTORY PROVIDED).
- SINGLE ENTHALPY ECONOMIZER W HOOD (FACTORY PROVIDED).
- LOW LEAKAGE ECONOMIZER (FACTORY PROVIDED) WITH FDD.
- STANDARD STATIC POWER RELIEF W HOOD (FACTORY PROVIDED).
- CIRCUIT BREAKER (FACTORY PROVIDED).
- RETURN AIR SMOKE DETECTOR (FACTORY PROVIDED).
- STANDARD CAP (FACTORY PROVIDED).
- PHASE MONITOR (FACTORY PROVIDED).
- MULTI-STAGE AIR VOLUME (FACTORY PROVIDED).
- 14" ROOF CURB (FIELD INSTALLED).
- COMFORT SENSE CS8500 THERMOSTAT (FIELD INSTALLED).
- GFCI (FIELD WIRED, FACTORY INSTALLED).
- UNITS SHALL BE PROVIDED WITH HOT GAS REHEAT (FACTORY PROVIDED).
- UNITS SHALL BE PROVIDED WITH HUMIDITY SENSOR (FIELD INSTALLED).

HVAC UNIT SCHEDULE 1

XX-XXX MARK	CFM	SP	RPM	HP	ELECT	STARTER	ACCESSORIES					MANUFACTURER MODEL NUMBER	REMARKS	
							DISC	BDD	BDD	SOB	SOB	D-DR		
EF-1	1050	0.9	1429	0.5	115.1	-	X	-	-	-	-	X	STRATOVENT #SVDU50HFA	SEE NOTES 1,3,5,6,7,8,10
EF-2	570	.375	1025	1/4	57.5	-	X	X	X	X	X	X	STRATOVENT #SVD30HFA	SEE NOTES 2,4,7,8,9,10,11

SUPPLY AND EXHAUST FAN SCHEDULE 2

XX-XXX MARK	QUANTITY	NECK SIZE	DIFFUSER SIZE	TYPE	(NO.) & AIR PATTERN	MOUNTING					MATERIAL	MANUFACTURER	MODEL NUMBER	REMARKS
						LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST				
S-1	1	14"	24x24	X	(5)4W	X		X			X	HART & COOLEY	RZ T-BAR	PLASTIC DIFFUSER. PAINT TO MATCH CEILING.
S-2	1	14"	24x24	X	(1)3W	X		X			X	HART & COOLEY	RZ T-BAR	PLASTIC DIFFUSER. PAINT TO MATCH CEILING.
S-3	2	6"	12x12	X	(2)4W		X				X	HART & COOLEY	RZ16	PLASTIC DIFFUSER. PROVIDE SURFACE MOUNTING FRAME
S-4	10	14"	24x24	X	(7)4W (3)3W	X		X			X	HART & COOLEY	RZ T-BAR	PLASTIC DIFFUSER
S-5	1	8"	24x24	X	(1)3W	X		X			X	HART & COOLEY	RZ T-BAR	PLASTIC DIFFUSER. PAINT TO MATCH CEILING.
R-1	3	14"	24x24		NO DIREC	X					X	EGAR ADAVNTAGE	EFARWSP	HINGED / FULLY REMOVABLE FACE
R-2	3	18"	24x24		NO DIREC	X					X	EGAR ADAVNTAGE	EFARW-SP-18	HINGED / FULLY REMOVABLE FACE. PAINT TO MATCH CEILING.
R-3	2	8"	12x12		NO DIREC	X					X	EGAR ADAVNTAGE	EAPERFSM-12X12-08	HINGED / FULLY REMOVABLE FACE. PROVIDE MOUNTING FRAME
E-1	2	8x8	24X24		NO DIREC		X				X	EGAR ADAVNTAGE	EAPERFSM	HINGED / FULLY REMOVABLE FACE. PROVIDE MOUNTING FRAME
E-2	1	10x10	24x24		NO DIREC	X					X	EGAR ADAVNTAGE	EFARWSP	HINGED / FULLY REMOVABLE FACE. PROVIDE MOUNTING FRAME

NOTES:

- DIFFUSERS IN SURFACE MOUNTED CEILING SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE WITH INSULATED BACK.

AIR DEVICE SCHEDULE 3

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	1050	-1050
EF-2	--	--	--	570	-570
RTU-1	750	2650	3400	--	+750
RTU-2	1050	5950	7000	--	+1050
2070	1800	8800	10400	1620	+180

NOTE:
-THE OUTSIDE PERCENTAGE OF TOTAL SUPPLY AIR IS 22.1% FOR RTU-1 AND 15.0% FOR RTU-2.
-ADJUST OUTSIDE AIR INTAKES TO MAINTAIN VALUES AT EVAPORATOR FAN SPEEDS.

TRANE PACKAGE N.T.S. 8

AIR BALANCE SCHEDULE CFM 4

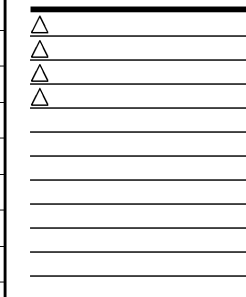
TACO BELL HAS A NATIONAL HVAC AGREEMENT WITH LENNOX NATIONAL ACCOUNTS. FOR QUOTES & TECHNICAL SPECIFICATIONS, PLEASE CONTACT BRAD SMITH, LENNOX NATIONAL ACCOUNT MANAGER AT (7) 757-394-1084 OR (M) 757-773-9013. EMAIL: BRAD.SMITH@LENNOXIND.COM

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.

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CONTRACT DATE: 11/17/20
BUILDING TYPE: ENDEAVOR MED 40
PLAN VERSION: SEPT 2020
BRAND DESIGNER: 200109
SITE NUMBER: 297222
STORE NUMBER: 003717
ARCVISION: 200188

TACO BELL
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MECHANICAL SCHEDULES AND NOTES

M1.0