

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 15/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)
	RAVRET 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
	MVD FLEXIBLE CONNECTION
	FD 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.
	TS THERMOSTAT SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE.
	H HUMIDITY SENSOR (REMOTE), PROVIDED WITH TRANE PACKAGE.
	D CONDENSATE DRAIN
	DIA DIAMETER
	DL DOOR LOUVER
	UC DOOR UNDERCUT (3/4" MINIMUM)
	(X-X [0000]) MECHANICAL EQUIPMENT DESIGNATION
	R RESET SMOKE DETECTOR RESET
	DL DOUBLE LINE DUCT SHOE TAP BRANCH TAKEOFF WITH VOLUME DAMPER

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

MECHANICAL SYMBOLS 12

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	84.5/68.5	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

MARK	CFM	SP	RPM	HP	ELECT	STARTER	ACCESSORIES					MANUFACTURER AND MODEL NUMBER	REMARKS
							DISC	BDD	BRD SCREEN	V-BELT	D-DR		
EF-1	1050	0.9	1344	0.50	120/1	-	X	-	-	-	X	STRAVENT #SVDU50HFA	SEE NOTES 1,3,5,6,7,8,10
EF-2	150	0.25	1095	0.166	120/1	-	X	X	X		X	STRAVENT #SVDR10HFA	SEE NOTES 2,4,7,8,9,10,11

REMARKS:

- UL 765 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

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			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			X	NO DIREC	0-1350	X		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.

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: (602) 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

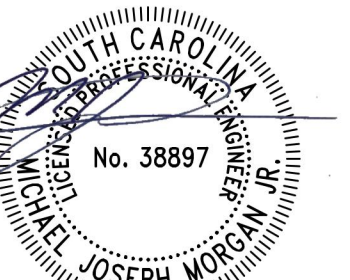
ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	1050	-1050
EF-2	-	--	--	150	-150
RTU-1	900	1500	2400	--	+900
RTU-2	600	3400	4000	--	+600
TOTAL	1500	4900	6400	1200	+300

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

AIR BALANCE SCHEDULE CFM 4

INRD national restaurant designers ARCHITECTS & ENGINEERS
 7208 ACC Blvd, 2nd Floor, Raleigh NC 27617
 ph: 919 544 0087 fax: 919 544 8399
 A Division of LMHT Associates

5.19.22



CONTRACT DATE: XXXXX
 BUILDING TYPE: XXXXX
 PLAN VERSION: XXXXX
 SITE NUMBER: 315669
 STORE NUMBER: XXXXX

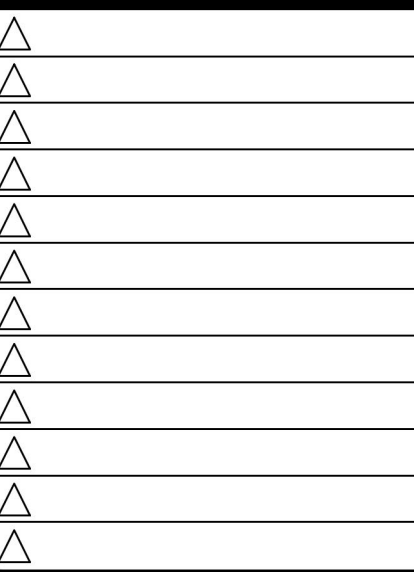
TACO BELL
 SPEARS CREEK CHURCH RD.
 ELGIN, SC 29045



ENDEAVOR 2.0

MECHANICAL SCHEDULES AND NOTES

M1.0



CONTRACT DATE: XXXXX
 BUILDING TYPE: XXXXX
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TACO BELL
 SPEARS CREEK CHURCH RD.
 ELGIN, SC 29045

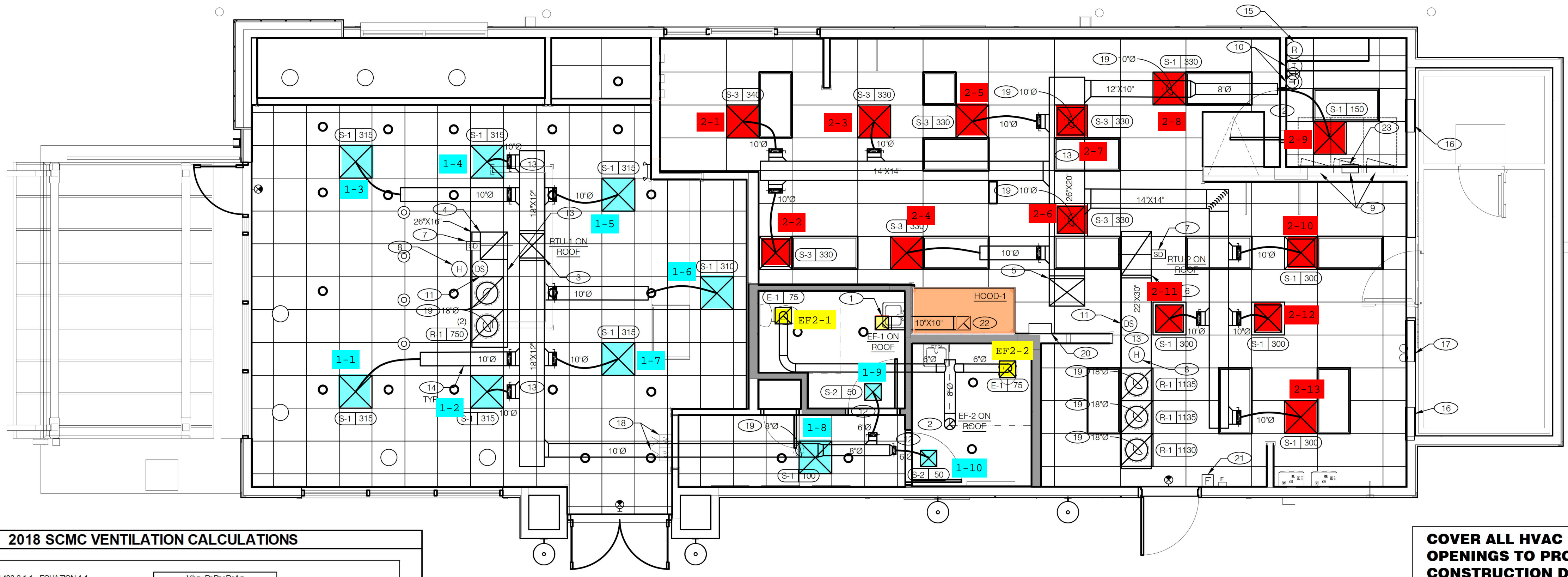


ENDEAVOR 2.0

DUCT AND DIFFUSER PLAN

M2.0

KEY NOTES



COVER ALL HVAC DUCT SYSTEM OPENINGS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS UNTIL CONSTRUCTION IS COMPLETE. IF THE HVAC SYSTEM IS OPERATED BEFORE CONSTRUCTION IS COMPLETE, PROVIDE MERV8 FILTERS AT ALL AIR INTAKES INSIDE THE BUILDING.

2018 SCMC VENTILATION CALCULATIONS

DINING AREA

* SECTION 403.3.1.1 - EQUATION 4-1 $V_{bz} = R_p P_z + R_a A_z$

$R_p = 7.5$ CFM/PERSON (TABLE 403.3)
 $P_z = 40$ PEOPLE (SEATS)
 $R_a = 0.18$ CFM/FT² (TABLE 403.3)
 $A_z = 750$ FT²

$V_{bz} = 435$ CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 6.2.2.3 - EQUATION 6-2 $V_{oz} = V_{bz} / E_z$

$V_{bz} = 435$ CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
 $E_z = 0.80$ ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

$V_{oz} = 544$ CFM MIN. ZONE OUTDOOR AIRFLOW

CORRIDOR

* SECTION 403.3.1.1 - EQUATION 4-1 $V_{bz} = R_p P_z + R_a A_z$

$R_p = 0$ CFM/PERSON (TABLE 403.3)
 $P_z = 0$ PEOPLE
 $R_a = 0.06$ CFM/FT² (TABLE 403.3)
 $A_z = 73$ FT²

$V_{bz} = 4$ CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE

* SECTION 6.2.2.3 - EQUATION 6-2 $V_{oz} = V_{bz} / E_z$

$V_{bz} = 4$ CFM MIN. OUTDOOR AIRFLOW AT THE BREATHING ZONE
 $E_z = 0.80$ ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 403.3.1.2)

$V_{oz} = 5$ CFM MIN. ZONE OUTDOOR AIRFLOW

2018 SCMC EXHAUST CALCULATIONS

KITCHEN

* SECTION 403.3

0.7 CFM/FT² (TABLE 403.3)
 982 FT²

EXHAUST RATE = **687** CFM MIN. REQUIRED EXHAUST RATE

TOILETS

* SECTION 403.3

70 CFM/UNIT (TABLE 403.3)
 2 UNITS

EXHAUST RATE = **140** CFM MIN. REQUIRED EXHAUST RATE

2018 SCMC VENTILATION SCHEDULE

AREA	UNIT	VENT./EXHAUST REQ'D.	MIN. REQUIRED VENT. (CFM)	TOTAL REQ. VENT. (CFM)	PROVIDED VENT. (CFM)	MIN. REQUIRED EXHAUST (CFM)	PROVIDED EXHAUST (CFM)
DINING ROOM	RTU-1	SEE 2018 SCMC CALCS	544	549	900	-	-
ENTRY LOBBY		SEE 2018 SCMC CALCS	5	-	-	-	-
KITCHEN	RTU-2	SEE 2018 SCMC CALCS	-	-	600	687	1,050
MEN'S/WOMEN'S TOILET		SEE 2018 SCMC CALCS	-	-	TRANSFER	140	150
TOTALS				549	1,500	827	1,200

DUCT AND DIFFUSER PLAN 1/4"=1'-0" **A**

GENERAL NOTES

- DINING ROOM LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS.
- THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT WITH SUBBASE, REMOTE TEMPERATURE SENSOR, AND REMOTE HUMIDITY SENSOR.
- HUMIDITY SENSORS SHALL BE CEILING MOUNTED NEAR RETURN GRILLES.
- COORDINATE DUCTWORK LOCATIONS WITH LIGHTING AND STRUCTURAL.
- SEE DETAIL 16/M4.0 FOR TYPICAL DUCTWORK DETAILS.

KEY NOTES

- 10"x10" GREASE EXHAUST AIR DUCT UP THROUGH ROOF TO EF-1. SEE HOOD DETAILS ON M3.0. SEE DETAIL 15 ON SHEET M4.0 FOR FIRE PROTECTION OF DUCT WORK. SEE DETAIL 18 ON SHEET M4.0 FOR EXHAUST DUCT TRANSITION.
- 8"Ø EXHAUST AIR DUCT UP THROUGH ROOF TO EF-2.
- 18"x18" SUPPLY AIR DUCT UP. CONNECT TO SUPPLY AIR PLENUM AT ROOFTOP UNIT RTU-1.
- 20"x20" RETURN AIR DUCT UP. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-1.
- 26"x20" SUPPLY AIR DUCT UP. CONNECT TO SUPPLY AIR PLENUM AT ROOFTOP UNIT RTU-2.
- 22"x30" RETURN AIR DUCT UP. CONNECT TO RETURN AIR PLENUM AT ROOFTOP UNIT RTU-2.
- FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRING BY ELECTRICAL CONTRACTOR, SEE SHEET E3.2.
- CEILING HUMIDITY SENSORS (REMOTE). VERIFY EXACT LOCATION.
- NO DUCT SHALL BE ROUTED OVER ELECTRICAL PANELS.
- LOCATE THERMOSTAT CONTROLS ON WALL IN OFFICE AT 48" A.F.F. COORD. LOCATION WITH LIGHT SWITCHES.
- MOUNT REMOTE TEMPERATURE SENSOR IN RETURN DUCT.
- UNDERCUT DOORS MIN. 3/4" FOR MAKE-UP AIR.
- 13 RUN DUCTWORK BETWEEN TRUSSES AS HIGH AS POSSIBLE.
- 14 RUN DUCT THROUGH OPEN WEBBING OF ROOF JOISTS (WHERE POSSIBLE). COORDINATE WITH TRUSS DESIGN PRIOR TO DUCTWORK FABRICATION.
- 15 NEW SMOKE DETECTOR RESET SWITCH WITH KEY. MFR. IS "SYSTEM SENSOR" MODEL # RT5151 KEY. MOUNT NEXT TO THERMOSTATS @ 48" A.F.F. - INSTALL PER MFR. SPECIFICATIONS.
- 16 AIR TRANSFER GRILLES. SEE SECTION 'C' ON SHEET A5.1.
- 17 ACCESS OPENING TO SPACE ABOVE WALK-IN. SEE SHEET A7.1.
- 18 PROVIDE AUDIBLE/VISIBLE ALARM DEVICES IN APPROVED LOCATION TO SIGNAL DUCT DETECTOR ACTIVATION. MOUNT AT 6'-6" A.F.F. M.C. AND E.C. SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODE REQUIREMENTS.
- 19 TAP OFF BOTTOM OF DUCT AND CONNECT TO DIFFUSER OR GRILLE. PROVIDE BALANCING DAMPER IN BRANCH DUCT IF ACCESSIBLE, OTHERWISE PROVIDE FACE ADJUSTABLE BALANCING DAMPER IN DIFFUSER OR GRILLE.
- 20 M.C. SHALL INSTALL HOOD ANSUL CABINET AT CEILING WHERE SHOWN.
- 21 M.C. SHALL INSTALL MANUAL FIRE PULL AT 48" A.F.F. AT LOCATION SHOWN. ENSURE FIRE PULL IS LOCATED BETWEEN 10 AND 20 FEET FROM COOKING EQUIPMENT WHICH IT SERVES OR IS LOCATED AS DIRECTED BY LOCAL INSPECTOR. M.C. SHALL LABEL (FOR EASY IDENTIFICATION) THE FIRE PULL FOR CORRESPONDING HOOD NUMBER SHOWN ON PLAN.
- 22 10"x10" EXHAUST AIR DUCT DOWN AND TRANSITION TO FIELD CUT EXHAUST CONNECTION AT HOOD.
- 23 M.C. SHALL INSTALL HOOD CONTROL PANEL AT CEILING WHERE SHOWN. COORDINATE WITH E.C.

NOT USED **F**

KEY NOTES **B**

SHOP DRAWING FOR REFERENCE ONLY

CONTRACT DATE: XXXXX
 BUILDING TYPE: XXXXX
 PLAN VERSION: XXXXX
 SITE NUMBER: 315669
 STORE NUMBER: XXXXX

TACO BELL
 SPEARS CREEK CHURCH RD.
 ELGIN, SC 29045



ENDEAVOR 2.0

HOOD DETAILS

M3.0

HOOD #	1 OF 1	MODEL #	STRATOVENT SVBD2
LENGTH (IN):	6'-3"	WIDTH (IN):	36"
HEIGHT (IN):	14"	SUPPLY CFM:	BY RTU-SEE M1.0
EXHAUST CFM:	1050	SUPPLY SP:	NA
EXHAUST SP:	0.9" (HOOD+DUCT)	SUPPLY SP:	NA
EXHAUST FPM:	1512	SUPPLY FPM:	NA
EXH. SIZE:	10"X10"	SUP SIZE:	NA
FILTERS: (4)	16" X 16"	FILTERS: ()	300 LBS
FIRE SUPPRESSION:	ANSUL-R102	FILTER TYPE:	STAINLESS BAFFLE
LIGHT QTY: (3)	A19/CFL	CONTROL SWITCH:	BY OTHERS

DESIGN NOTES:
 - STRATOVENT HOODS ARE ETL LISTED TO UL-710 STANDARDS, 3054804-001
 - MODEL SVBD2 IS A NON-CANOPY HOOD, "LISTED" VALUES ARE UTILIZED FOR AIRFLOW, OVERHANGS AND TEMPERATURE RATINGS.
 - 18/20 GAUGE MINIMUM S/S ON EXPOSED SURFACES PER NFPA.
 - HOOD IS PRE-PIPED FOR ANSUL SYSTEM INSTALL BY OTHERS.
 - INSTALLER TO REVIEW E6.0 SHEET FOR HOOD AND FAN WIRING. NO CONTACTOR OR CONTROL BOX IS FURNISHED WITH HOOD, UNLESS SOURCED DIRECT FROM STRATOVENT BY INSTALLER.

PLAN VIEW
 3" INTEGRAL REAR STAND-OFF, FACTORY INSULATED. HOOD ASSEMBLY IS LISTED AND LABELED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. ARCHITECT MUST VERIFY COMPLIANCE WITH ALL LOCAL CODES CONCERNING CLEARANCES.

FRONT VIEW
 25" TALL DUCT ENCLOSURE PANELS, FRONT, LEFT & RIGHT SIDES (PROVIDED WITH HOOD, GC INSTALLED).
 TOP EDGE OF HOOD.
 LOWER, LEADING EDGE OF HOOD, 71" ABOVE FINISHED FLOOR.
 TRIANGLE, END PANELS, PROVIDED BY STRATOVENT, SEE SIDE VIEW DETAIL. FIELD INSTALLED BY GC.
 104"H X 111"L, BACKSPASH, COVERING HOOD WALL AND 18" BEYOND THE HOOD. MINIMUM 20 GA. STAINLESS STEEL PROVIDED BY GENERAL CONTRACTOR.

HOOD DETAIL 1: CORNER HANGING ANGLE (4) TYP. PER HOOD.
 HOOD DETAIL 2: TIMER MOUNTING CHANNEL-POWER OUTLET.
 HOOD DETAIL 2: 42"L X 3"H, FACTORY ATTACHED MOUNTING CHANNEL FOR CUSTOMER SUPPLIED TIMERS. DUAL 115V/1PH OUTLET FACE MOUNTED ABOVE CHANNEL WITH J-BOX ON TOP OF HOOD.

UPDATED: 6FT-3IN LONG VERSION, 05-05-2014 JJ

TACO BELL HOOD DETAIL N.T.S. 2

THIS DRAWING IS PROVIDED FOR REFERENCE ONLY. HOOD CONTRACTOR SHALL SELECT AND CERTIFY ALL EXHAUST/M.U. AIR FANS. ALL SYSTEMS SHALL MEET ALL APPLICABLE REQUIREMENTS OF STATE AND LOCAL CODES AND OTHER REQUIREMENTS AS SHOWN IN DESIGN DRAWINGS.

INSTALLATION: DUCT TEMPERATURE SWITCH SENSOR DETAIL

FAN CONTROL CIRCUIT (BY OTHERS, SEE E6.0)

NOTE: GENERIC WIRING DEPICTION. SEE PLANS FOR PROPER INTEGRATION.

EXTERNAL SURFACE OF DUCT OR HOOD PLENUM AREA (BEHIND FILTERS), OR TOP OF HOOD CAVITY.
 1.125" - 1.250" DIAM. HOLE
 0.50" QUIK SEAL (WASHER)
 0.50" QUIK SEAL (NUT)
 EXTENSION RING, TACK WELD TO HOOD OR DUCT TO SECURE INSTALLATION.

ADDITIONAL QUESTIONS??
 CONTACT, STRATOVENT VENTILATION HOODS, 919-573-4250 - 251-490-6114
 JEFF.JOHNSON@STRATOVENT.COM

MODIFIED: 05-05-2014

HEAT SENSOR ATTACHMENT N.T.S. 10

HOOD NOTES AND SPECS (TYP) N.T.S. 6

- Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
- UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
- UL listed and NSF approved vapor proof incandescent light fixtures pre-wired to junction box at top of hood in accordance with NEC 70.
- Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood or by a certified technician. Final location of all nozzles and fire suppression drops to be locally approved and inspected.
- Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

THIS HOOD DESIGN IS BASED UPON STRATOVENT, MODEL SVND2, MANUFACTURED BY STRATOVENT VENTILATION HOODS, RALEIGH, NC 27616. CONTACT: JEFF JOHNSON, 251-490-6114

INSTALLATION: DUCT TEMPERATURE SWITCH HOOD DETAIL

OPTION #1: DUCT, JUST ABOVE EXHAUST OPENING. MUST BE REACHABLE FROM BELOW OR THROUGH CLEAN-OUT DOOR FOR CLEANING.
 OPTION #2: THROUGH ROOF OF HOOD INTO PLENUM AREA BEHIND FILTERS, LEFT OR RIGHT OF DUCT OPENING.
 OPTION #3: INTO HOOD CAVITY.

NOTE: SENSOR MUST BE INSTALLED WITH INCLUDED UL-LISTED QUIK SEAL KIT PER FACTORY GUIDELINES (SEE EXPLODED PARTS VIEW).

ADDITIONAL QUESTIONS??
 CONTACT, STRATOVENT VENTILATION HOODS, 919-573-4250 - 251-490-6114
 JEFF.JOHNSON@STRATOVENT.COM

MODIFIED: 05-05-2014

HEAT SENSOR LOCATION N.T.S. 12

EF-1. PERFORMANCE DATA:
 MODEL: STRATOVENT, SVDU50
 AIRFLOW: 1050 CFM, 0.9" STATIC PRESSURE
 FAN RPM: 1344
 POWER: 0.26 BHP
 MOTOR: 0.50 HP, 115V, 1PH, 8.1 FLA

*DIRECT DRIVEN WITH PREWIRED SPEED CONTROLLER

STRATOVENT UL-762 EXHAUST FAN 6'-3" LONG TACO BELL HOOD

ATTENTION!
 INSTALLER MUST READ LABEL NEAR DISCONNECT SWITCH! MESSAGE ON LABEL. *INSTALLER SHOULD SUPPLY SUFFICIENT ELECTRICAL CORD TO ALLOW FAN TO MAKE COMPLETE SWING.

DUCT TRANSITION (SUGGESTED)
 1/4" MIN. FLANGE DUCT TO REST ON 19.5" O.D. CURB. DUCT DISCHARGE MUST BE LARGER THAN INLET CURB. DUCT FROM HOOD.

WEIGHTS: 62 LBS (FAN), 45 LBS (CURB)

NOTE: ALL DIMENSIONS (INCHES)

RESTAURANT MODEL
 • UL RFG GREASE RATED
 • DIRECT DRIVEN
 • VARIABLE SPEED CONTROL
 • WEATHERPROOF DISCONNECT
 • OPTIONAL
 • HIGH VELOCITY WIND DESIGN
 • MFG. IN GERMANY
 • PRODUCT APPROVAL

REDDING, CA - RALEIGH, NC
 800-474-0037
 WWW.STRATOVENT.COM

TACO BELL HOOD FIRE SUPPRESSION SYSTEM PLAN N.T.S. 14

PROJECT: TACO BELL
 System Size: ANSUL-3.0 Gallons Total, R102 Flow Points: 8 Design, 11 (max)
 Hood #1: 6'-6" L x 36" W x 14" H
 Exhaust Riser Size: 10" x 10"

PLAN VIEW
 6'-3" HOOD LENGTH
 12" 16" 50" DISTANCES
 75" TOTAL DISTANCE

FRONT VIEW
 6'-3" HOOD LENGTH
 12" 16" 50" DISTANCES
 75" TOTAL DISTANCE

LEGEND - WALL MOUNTED ANSUL SYSTEM

1B	3.0 GALLON TANK
2	AUTOMAN RELEASE
5	ANSULEX LIQUID AGENT (3.0 GAL.)
7	CARTRIDGE (101-20)
10	TEST LINK
11	DOUBLE MICROSWITCH
1W	NOZZLE ASSEMBLY (419336)
1N	NOZZLE ASSEMBLY (419335)
3N	NOZZLE ASSEMBLY (419338)
28	DETECTOR BRACKET
30	HIGH TEMP FUSIBLE LINK
MGV	MECHANICAL GAS VALVE
34	REMOTE MANUAL PULL STATION
S	SWIVEL ADAPTOR

PROVIDED BY: STRATOVENT RALEIGH, NC - REDDING, CA
 CONTACT: JEFF JOHNSON
 PH: 251-490-6114, Fax: 919-573-4251
 JEFF.JOHNSON@STRATOVENT.COM

TACO BELL HOOD FIRE SUPPRESSION SCHEDULE N.T.S. 16

LOW-PROFILE HOOD HOOD #1

25"H, 3-SIDED DUCT ENCLOSURE PANELS, SHIPPED LOOSE BY HOOD SUPPLIER. DESIGN FOR UP TO 8'-10" CEILING.
 16"H, UL-LISTED, S/S BAFFLE FILTERS.
 3" INTEGRAL REAR STAND-OFF, FACTORY INSULATED. HOOD ASSEMBLY IS LISTED FOR ZERO CLEARANCE TO COMBUSTIBLE IN THE REAR. COMPLIANCE WITH ALL LOCAL CODES VERIFIED BY ARCHITECT.
 GREASE CUP
 END PANELS, SHIPPED LOOSE AND GC INSTALLED. PROVIDED BY HOOD VENDOR.
 20 GA. MIN S/S WALL PANEL COVERING REAR WALL, EXTENDING 18" BEYOND THE HOOD. PROVIDED BY STRATOVENT.
 REAR WALL.

HOOD DESIGN QUESTIONS?
 STRATOVENT KITCHEN VENTILATION PHONE: 251.490.6114
 JEFF.JOHNSON@STRATOVENT.COM

UPDATED: 6FT-3IN LONG VERSION, 05-05-2014 JJ

TACO BELL HOOD SECTION 1/2" = 1'-0" 4

HVAC SEQUENCE OF OPERATIONS

M.C. SHALL SET THERMOSTAT "OCCUPIED" AND "UNOCCUPIED" MODES TO OWNER'S OPERATION SCHEDULE. EVAPORATOR FANS SHALL BE SET TO "ON" UNDER NORMAL CONDITIONS. RTU-1, WHEN ACTIVATED BY THE "OCCUPIED" SWITCH (INTERIOR OVERRIDE SWITCH) LOCATED ON THE CONTROL PANEL, SHALL FORCE EVAPORATOR FANS TO RUN.

NORMAL OPERATION (OCCUPIED):

EF-1; EVAPORATOR FANS, AND ECONOMIZERS (IF APPLICABLE) ON RTU-1 SHALL OPERATE CONTINUOUSLY UPON ACTIVATION OF THE "OCCUPIED" SWITCH. NORMALLY OPEN CONTACTS FOR THIS ARE INCLUDED INTERNALLY IN THE CONTROL BOX. SEE DETAILS THIS SHEET AND SHEET E6.0.

THE TEMPERATURE SCHEDULE SET POINTS SHALL BE SPECIFIC FOR EACH RTU AND SHALL BE FIELD ADJUSTABLE.
SPACE TEMPERATURE SET POINTS: RTU-1: 73°F COOLING, 68°F HEATING

SPACE HUMIDITY SET POINTS: RTU-1: 50% RH

EF-2 SHALL BE CONTROLLED BY THE DINING ROOM LIGHTING CIRCUIT.

EVAPORATOR FANS, AND ECONOMIZERS (IF APPLICABLE) ON RTU-2 SHALL BE SET TO OWNER'S OPERATION SCHEDULE.

THE TEMPERATURE SCHEDULE SET POINTS SHALL BE SPECIFIC FOR EACH RTU AND SHALL BE FIELD ADJUSTABLE.
SPACE TEMPERATURE SET POINTS: RTU-2: 73°F COOLING, 68°F HEATING

SPACE HUMIDITY SET POINTS: RTU-2: 50% RH

ALL RTU'S COOLING/HEATING SWITCH/OVER SHALL BE AUTOMATIC BASED ON THE SPACE DEMAND. EVAPORATOR FANS SHALL BE SET TO RUN CONTINUOUSLY(ON) DURING "OCCUPIED" PERIODS. OUTSIDE AIR INTAKE ON ECONOMIZERS OR DAMPERS SHALL BE IN MINIMUM OPEN POSITION TO DELIVER CFM'S INDICATED IN AIR BALANCE SCHEDULE ON SHEET M1.0 OR SHALL FOLLOW THE ECONOMIZER OPERATION DESCRIBED BELOW.

UPON DEACTIVATION OF THE "OCCUPIED" SWITCH THE KITCHEN AND DINING ROOM LIGHTS, EF-1 AND EF-2, EVAPORATOR FANS AND ECONOMIZERS ON RTU-1 AND RTU-2 SHALL START TIME DELAYED OFF (SUBJECT TO HOODSTAT AND/OR ZONESENSOR OVERRIDE).

ECONOMIZER OPERATION (IF APPLICABLE)

THE RTU'S EQUIPPED WITH ECONOMIZERS (SEE UNITS SCHEDULE ON SHEET M1.0) SHALL UTILIZE "FREE COOLING" AS THE FIRST STAGE OF COOLING. WHEN OUTDOOR AIR ENTHALPY IS LOWER THAN THE MIXED AIR ENTHALPY, OUTSIDE AIR INTAKE DAMPERS SHALL MODULATE FROM MIN. TO MAX. OPEN POSITION AND SPACE RETURN AIR DAMPERS SHALL MODULATE FROM MAX. TO MIN. RELIEF DAMPERS SHALL BE CONTROLLED RESPECTIVELY VIA INTEGRAL RTU CONTROL. IF THE OUTSIDE AIR ALONE CANNOT SATISFY THE SPACE COOLING DEMAND, THE COMPRESSORS SHALL BE ENERGIZED IN STAGES. WHEN OUTDOOR AIR ENTHALPY IS HIGHER THAN MIXED AIR ENTHALPY, OR WHEN THE LOW LIMIT SENSOR LOCATED IN DISCHARGE AIR REACHES ITS SET POINT (55°F -ADJ.), THEN OUTDOOR AIR AND RETURN AIR DAMPERS SHALL BE SET TO DELIVER MINIMUM O.A. CFM'S INDICATED IN THE AIR BALANCE SCHEDULE.

NIGHT SETBACK OPERATION (UNOCCUPIED)

SPACE TEMPERATURE SET POINTS: RTU-1 AND RTU-2: 85°F COOLING, 60°F HEATING.

ALL RTU'S EVAPORATOR FANS, COMPRESSORS AND HEATER SHALL RUN ON DEMAND ONLY.(AUTO) ANY MOTORIZED OUTSIDE AIR DAMPERS SHALL BE IN CLOSED POSITION. M.C. SHALL VERIFY REQUIREMENT FOR AUTOMATIC SETBACK CONTROL WITH LOCAL AUTHORITIES AND COORDINATE WITH EQUIPMENT SUPPLIER.

FIRE PROTECTION GLOBAL SHUTDOWN:

IF LOCAL CODE OFFICIAL REQUIRES GLOBAL SHUTDOWN OF ALL RTU'S UPON SMOKE DETECTION IN ANY RTU DUCTWORK, THE MECHANICAL CONTRACTOR SHALL PROVIDE A RELAY IN EACH RTU TIED TO THE STAND ALONE SMOKE ALARM SMOKE DETECTION SYSTEM TO SHUT DOWN ALL RTU'S SIMULTANEOUSLY.

HOOD:

THE INTERIOR OVERRIDE SWITCH SHOULD BE TURNED ON BY THE MANAGER UPON ARRIVAL. WHEN FINISHED FOR THE DAY, THE MANAGER SHOULD TURN THE INTERIOR OVERRIDE SWITCH OFF AND TIME DELAYED OFF (SUBJECT TO HOODSTAT AND/OR ZONESENSOR OVERRIDE) COMMENCES.

AUTOMATIC BACK-UP OPERATION: WHEN THE HOOD TEMPERATURES ARE GREATER THAN 15 DEGREES ABOVE THE ROOM TEMPERATURE (AS MEASURED BY DUCT STAT IN HOOD RISER AND COMPARED TO BASE ROOM SENSOR TEMPERATURE), ALL FAN LIGHTS WILL BE FORCED ON IF NOT PREVIOUSLY ON BY OTHER MEANS (SWITCH).

FAN/LIGHTS WILL REMAIN ON AS LONG AS EITHER OF THE FOLLOWING CONDITIONS EXIST 1) "OCCUPIED" SWITCH IS IN THE "ON" POSITION, OR 2) AUTOMATIC OPERATION I.E. HOOD TEMPERATURES ARE GREATER THAN 15 DEGREES ABOVE ROOM TEMPERATURE.

Installation, Start Up and Pre-Commissioning Checklist

= Responsible Party
Initial When Completed

Standard Unit
eFlex
Reference #

PROCESS

Standard Unit eFlex Reference #	PROCESS	GC-General Contractor	EC-Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency
X X 1	Package Units					
X X 2	Reference and abide to all instructions in manufacturers Installation, Startup, Operation and Maintenance literature					
X X 3	Units are set level					
X X 4	Unit and plenums align to each other					
X X 5	Units and plenums are properly sealed to each other					
X X 6	All loose shipped components are relocated and installed per manufacturers instructions					
X X 7	a) economizer eyebrow, skirts and mist eliminator installed					
X X 8	b) economizer dampers and linkage installed and operable					
X X 9	c) economizer wiring connected and completed					
X X 10	d) relief damper or power exhauster installed and operable					
X X 11	e) smoke detectors and sample tubes relocated and installed per manufacturers instructions					
X X 12	Utilities are installed and ON to the units					
X X 13	a) power on and breakers sized to unit rating					
X X 14	b) phases correct					
X X 15	c) gas on					
X X 16	d) gas gooseneck or pipe capacity meets or exceeds unit capacity					
X X 17	e) condensate line is piped per plan					
X X 18	f) condensate vent is on leaving side of trap					
X X 19	Discharge Temperature Limit potentiometer is set to the 9 o'clock position					
X X 20	No thermostat, smoke detector, remote enunciator or any other wiring runs through the plenums					
X X 21	Manufacturers start up procedure has been followed and all units evaporator fan operates through all fan stages per manufacturers instructions					
X X 22	Manufacturers start up procedure has been followed and all units cycle through all heating stages per manufacturers instructions					
X X 23	Manufacturers start up procedure has been followed and all units cycle through all cooling stages per manufacturers instructions					
X X 24	Manufacturers start up procedure has been followed and all units cycle through all economizer stages per manufacturers instructions					
	25					
	26					
	27					
	28 Ductwork					
X X 29	All ductwork and registers are installed per plan					
X X 30	All starters and or take offs are radiused per plan.					
X X 31	Ductwork from the exhaust register over production line to EF-2 fan base is 100% rigid per plan					
X X 32	Balance dampers are in sleeves on axles with locking quadrant, not located in any starter collars, "T"s or "Y"s and located per plan					
X X 33	Balance damper handles are flagged to identify their location					
	34					
	35					
	36 Economizer					
X X 37	All mechanical components related to the economizer have been installed					
X X 38	"Blank off" plate under economizer eyebrow has been installed					
X X 39	Barometric relief damper operates freely					
X X 40	Input sensors for the Economizer have been properly located and connected to the Economizer					
X X 41	Economizer has been tested to perform "Free" cooling when ambient conditions are below 55 degrees					
X X 42	Mechanical cooling stages on when Economizer cooling is not available					
X X 43	Mechanical cooling stages on with the Economizer cooling when					
X X 44	Economizer damper positions to minimum damper position when set					
	45					
	46					
	47 Smoke Detectors					
X X 48	Smoke detector option has been included in package unit					
X X 49	Return side smoke detector has been relocated from its shipping position to the factory provided installation location in the return section of the package unit					
X X 50	All smoke detector sample tubes are properly located per manufacturers design					
X X 51	The return smoke detector in each unit has been tested for unit shutdown					
X X 52	The supply smoke detector in each unit has been tested for unit shutdown					
	53					
	54 Remote Smoke Detector Enunciators and Resets					
X X 55	A remote smoke detector enunciator and reset has been installed in the managers office for each package unit					
X X 56	RTU 1 return side smoke detector alarm sets off the visual and audible					
X X 57	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation					
X X 58	RTU 1 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 1					
X X 59	After triggering RTU 1 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 1 returns RTU 1 to normal operation					
X X 60	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2					
X X 61	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation					
X X 62	RTU 2 return side smoke detector alarm sets off the visual and audible remote enunciator alarms and shuts down RTU 2					
X X 63	After triggering RTU 2 return side smoke detector alarm, resetting the remote smoke detector reset for RTU 2 returns RTU 2 to normal operation					
	64					
	65					
	66					
	67					
	68					

GC-General Contractor
EC-Electrical Contractor
MC-Mechanical Contractor
PC-Plumbing Contractor
AB-Air Balance Agency

Remarks

CA-Commissioning Agent
Functional Verification
(CA Contracted by Owner)

Standard Unit
eFlex
Reference #

PROCESS

Standard Unit eFlex Reference #	PROCESS	GC-General Contractor	EC-Electrical Contractor	MC-Mechanical Contractor	PC-Plumbing Contractor	AB-Air Balance Agency
	69 Zonesensor					
X X 70	Baysens 135 Zonesensor is installed					
X X 71	Zonesensor to unit wiring is landed on proper terminals per detail					
X X 72	Remote sensor wiring is landed on proper terminals (8 and 9) of Zonesensor per detail					
X X 73	Jumper on back of Zonesensor is configured for remote sensor					
X X 74	Zonesensor is set up for eFlex operation					
X X 75	a) Fahrenheit selected					
X X 76	b) Whole degrees selected					
X X 77	c) Dual Setpoint selected					
X X 78	d) Heat/Cool/Auto/Off selected					
X X 79	e) Occupancy (Timed Override) Disabled					
X X 80	Zonesensor is programmed to Taco Bell parameters					
	81					
	82 Thermostat					
X X 83	Thermostats are wired to package units per thermostat and unit wiring diagrams					
X X 84	Package units equipped with two stage cooling have each cooling stage individually wired and controlled from their thermostat.					
X X 85	Package units equipped with two stage heating have each heating stage individually wired and controlled from their thermostat.					
X X 86	Thermostats are wired to Interlock Control Box per Detail on plan sheet E-6					
X X 87	Thermostats are programmed to Taco Bell parameters					
	88 Hoodstat					
X X 89	Hoodstat has been installed in duct or hood per plan					
X X 90	Hoodstat is wired to terminals 1 and 2 of the Interlock Control Box					
X X 91	Hoodstat microswitch closes at 85 degrees					
	92					
	93					
	94 Interlock					
X X 95	Unswitched power is provided to H=HOT and N=Neutral terminals in the Control Box					
X X 96	Hoodstat wires are landed on terminals 1 and 2 of the Control Box					
X X 97	Terminal 16 of Control Box is wired to terminal 11 of RTU 1 RTRM (J6)					
X X 98	Terminal 17 of Control Box is wired to terminal 12 of RTU 1 RTRM (J6)					
X X 99	Terminal 19 of Control Box is wired to terminal 11 of RTU 2 RTRM (J6)					
X X 100	Terminal 20 of Control Box is wired to terminal 12 of RTU 2 RTRM (J6)					
X X 101	"Occupied" switch is installed so that it is "Hot" when switch is in "Unoccupied or OFF" position and landed on terminal 7 of the Control Box					
X X 102	"Occupied" switch in "ON" position activates Kitchen Lights, EF-1, RTU 1 and "Occupied" switch in "OFF" position turns off Kitchen Lights, Dining Room					
X X 103	lights, EF-2 and starts time delayed off of EF-1 and RTU 1 & 2 evaporator fans (subject to Hoodstat and or Zonesensor override)					
	104					
	105					
	106					
	107 Ansl Shutdown					
X X 108	Metal jumper clip on EPO terminals 5 and 6 of RTU 2 LTB 1 has been removed					
X X 109	Terminals 5 and 6 of RTU 2 LTB 1 are wired to "Closed when Cocked"					
X X 110	Upon activation of the fire suppression system discharge (microswitch opens) RTU 2 immediately shuts off					
	111					
	112					
	113					
	114 Lighting					
X X 115	A 3 way switch, installed as a single switch and open in the UP throw position, has been installed as an "Occupied" switch in the managers office					
X X 116	Up position of "Occupied" switch activates kitchen lighting via Control Box					
X X 117	Up position of "Occupied" switch provides power, via the Control Box, to the Dining Room light switch in the managers office					
X X 118	Photoce ll is wired to the Greengate Box per detail					
X X 119	Exterior lights are wired to the Greengate Box per detail					
X X 120	Sign lights are wired to the Greengate Box per detail					
X X 121	Greengate Box is programmed to Taco Bell parameters					
X X 122	Manual override of Greengate box activates lighting circuits					
	123					
	124					
	125					
	126					
	127 Air Balance Supplement					
X X 128	Balancing performed in accordance to ASHRAE Standard 111-2008, NEBB, TABB or AABC standards					
X X 129	Perform full fan speed adjustments after exhaust fan adjustments and supply air distribution adjustments have been made					
X X 130	Perform outside air adjustment after all other balance adjustments are complete					
X X 131	Perform outside air adjustment at full evaporator fan speed operating point					
X X 132	Perform outside air adjustment at medium fan speed operating point					
X X 133	Perform outside air adjustment at low fan speed operating point					
X X 134	Verify lobby doors closures have been adjusted for ADA compliance					
X X 135	Verify lobby doors closure operation during full economizer function of both package units and note result in air balance report					
X X 136	Verify pressure relief system operation in full economizer operation					
X X 137	Adjust power exhauster "ON" and "OFF" positions to mitigate door closure issues. Note if no power exhauster is available.					
X X 138	Provide copy of air balance report to Commissioning Agent					
	139					
	140					
	141					
	142					

= Responsible Party
Initial When Completed

GC-General Contractor
EC-Electrical Contractor
MC-Mechanical Contractor
PC-Plumbing Contractor
AB-Air Balance Agency

Remarks

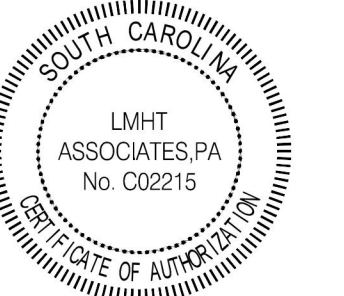
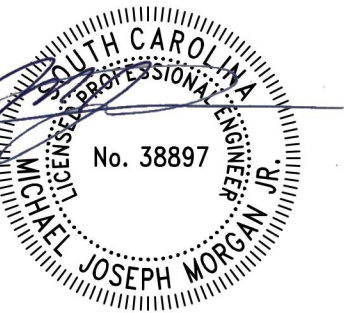
CA-Commissioning Agent
Functional Verification
(CA Contracted by Owner)

Installation, Start Up and Pre-Commissioning Checklist

PROJECT # 22204



5.19.22



CONTRACT DATE: XXXXX
BUILDING TYPE: XXXXX
PLAN VERSION: XXXXX
SITE NUMBER: 315669
STORE NUMBER: XXXXX

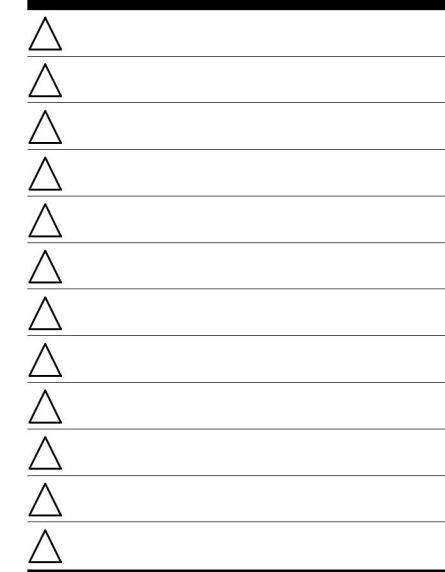
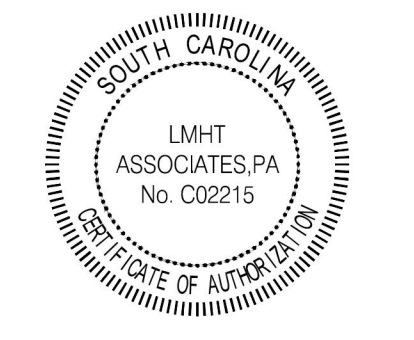
TACO BELL
SPEARS CREEK CHURCH RD.
ELGIN, SC 29045



ENDEAVOR 2.0
INSTALLATION
START-UP
PRE-COMM
CHECK LIST

M5.0

5.19.22

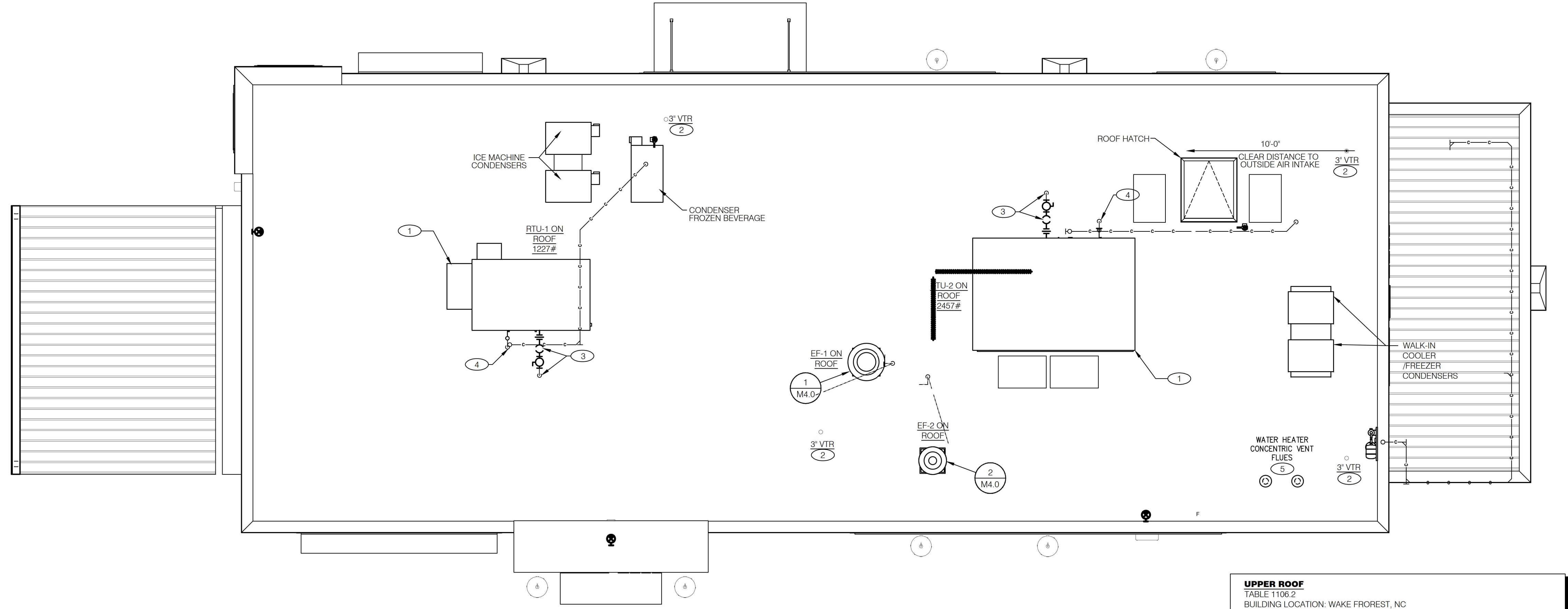


CONTRACT DATE: XXXXX
 BUILDING TYPE: XXXXX
 PLAN VERSION: XXXXX
 SITE NUMBER: 315669
 STORE NUMBER: XXXXX

TACO BELL
 SPEARS CREEK CHURCH RD.
 ELGIN, SC 29045

ENDEAVOR 2.0
MP ROOF
PLAN

MP1.0



UPPER ROOF
 TABLE 1106.2
 BUILDING LOCATION: WAKE FROREST, NC
 HORIZONTAL ROOF AREA = 1,900 SF + 508 SF VERTICAL WALL AREA = 2,408 SF
 NO. CONDUCTORS = 2 @ 5'x4'
 RAINFALL RATE = 3.75 IN/HR OR 12.5 GPM

LOWER ROOF
 TABLE 1106.2
 BUILDING LOCATION: WAKE FROREST, NC
 HORIZONTAL ROOF AREA = 162 SF + 87 SF VERTICAL WALL AREA = 149 SF
 NO. CONDUCTORS = 1 @ 5'x4'
 RAINFALL RATE = 3.75 IN/HR OR 0.77 GPM

12 11 10 9 8 7 6 5 4 3 2 1 **MEP ROOF PLAN** 1/4"=1'-0" **A**

- ① MAINTAIN AT LEAST 10'-0" BETWEEN ALL EX-HAUST OUTLETS AND OUTSIDE AIR INTAKES.
- ② ENSURE VTR IS MINIMUM 10'-0" FROM ALL OUTSIDE AIR INTAKES.
- ③ ROUTE GAS PIPE THROUGH ROOF TO RTU GAS CONNECTION. PROVIDE GAS COCK, DIRT LEG AND UNION AT EACH RTU.
- ④ ROUTE 1" CONDENSATE DRAIN WITH P-TRAP TROUGH ROOF DECK, DOWN INSIDE WALL AND TERMINATE INDIRECTLY OVER FLOOR FIXTURE WITH AIR GAP TWICE THE DIAMETER OF DRAIN PIPE.
- ⑤ THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM HORIZONTAL OR 3' VERTICAL CLEARANCE TO AIR INTAKES.

NOT USED **F**

NOT USED **E**

KEY NOTES **B**