

MARK	TONNAGE	AREA SERVED	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)			EXISTING MANUFACTURER/ MODEL	NEW MANUFACTURER/ MODEL	PERCENTAGE OF OUTDOOR AIR	ELECTRICAL DATA		REMARKS	APPROX. NET WEIGHT INCLUDING OPTIONS
			TOTAL	SENS	INPUT	OUTPUT	SUPPLY	O.A.	HP				ESP	VOLTS/PHASE		
EXISTING AC#1	12.5	KITCHEN, MULTI PURPOSE	-	-	-	-	8,000	2500	-	-	20.0%	208/3/60	-	-	12	-
EXISTING AC#2	8.5	DINING B	-	-	-	-	3,500	680	-	-	20.0%	208/3/60	-	-	12	-
EXISTING AC#3	10.0	DINING C	-	-	-	-	3,700	800	-	-	20.0%	208/3/60	-	-	12	-
EXISTING AC#4	7.5	DINING A	-	-	-	-	2,750	600	-	-	20.0%	208/3/60	-	-	12	-
EXISTING AC#5	5.0	PLAYGROUND	-	-	-	-	1,800	400	-	-	20.0%	208/3/60	-	-	12	-

- PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
 - PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
 - PROVIDE NEW 14" HIGH ROOF CURB.
 - SEE DETAIL M42 FOR SETTING OF PROOBY M5 AND M-8 IMC BOARD CONTROLECTO PARAMETERS BY MC.
 - PROVIDE FACTORY INSTALLED AND UNIT POWERED 15V GFI SERVICE OUTLET.
 - PROVIDE FACTORY INSTALLED 15V GFI SERVICE OUTLET.
 - PROVIDE FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR.
 - PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
 - PROVIDE 2" MERV 8 THROW AWAY FILTERS.
 - PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
 - ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
 - PROVIDE FACTORY COIL HALL GUARD, FIELD INSTALLED.
 - PROVIDE UNIT WITH HEAVY BLOWER.
 - PROVIDE ALMOTROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR STATES OF CA AND AZ EXCLUDED.
 - PROVIDE FACTORY INSTALLED BELT TENSIONER.
 - REPLACE EXISTING LENNOX ROOFTOP UNIT WITH NEW SAME SIZE WITH THE SAME MANUFACTURER LENNOX PLACED ON SAME LOCATION ON EXISTING CURB.
 - EXISTING UNIT TO REMAIN.
- CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.
- TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER AND TO ENGINEER OF RECORD.
- NEW HVAC EQUIPMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING CLEARANCES, & SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE FOR ALL INSPECTIONS, SERVICE, REPAIR, OR REPLACEMENT.
- NEW ROOFTOP UNITS ONLY. MECHANICAL CONTRACTOR SHALL RELOCATE THE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR FROM THE BLOWER SECTION TO THE SUPPLY DUCT DROP ABOVE THE FIRST 90 DEGREE DUCT FITTING.
- NEW ROOFTOP UNITS ONLY. THE MECHANICAL CONTRACTOR SHALL SPlice NEW PLENUM RATED CABLE BETWEEN THE FACTORY SMOKE DETECTOR AND THE FACTORY JACK PLUG. THE NEW WIRING SHALL BE ROUTED THRU THE ROOFTOP UNIT BASEPAN RACEWAY. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS.

OUTDOOR AIR CALCULATION													
ROOM NUMBER & NAME	AREA SQ. FT.	NO. OF PEOPLE	REQ'D OA CFM/PERSON	REQ'D OA CFM/SQ FT	TOTAL OSA	ZONE EFFECTIVENESS	REQ'D EXHAUST AIR PER FIXTURE	REQ'D OSA AC-1	REQ'D OSA AC-2	REQ'D OSA AC-3	REQ'D OSA AC-4	REQ'D OSA AC-5	
KITCHEN	973	8	750	0.18	235.14	0.8		235.14					
OFFICE	78	1	5.00	0.06	9.68	0.8		9.68					
MULTI-PURPOSE	327	0	5.00	0.06	19.62	0.8		19.62					
DINING B	502	52	7.50	0.18	480.36	0.8			480.36				
MEN'S RR	93	0	0.00	0.00	0.00	0.8	50/70		0.00				
WOMEN'S RR	106	0	0.00	0.00	0.00	0.8	50/70		0.00				
RR VESTIBULE	58	0	5.00	0.06	3.48	0.8			3.48				
ELECTRICAL ROOM	50	0	0.00	0.12	6.00	0.8			6.00				
MECHANICAL ROOM	23	0	0.00	0.12	2.76	0.8			2.76				
DINING C	769	36	7.50	0.18	408.42	0.8				408.42			
SERVING AREA	234	2	7.50	0.18	57.12	0.8				57.12			
DRIVE THRU	110	2	7.50	0.18	34.8	0.8				34.8			
ENTRY B	49	0	5.00	0.06	2.94	0.8				2.94			
DINING A	514	24	7.50	0.18	272.52	0.8					272.52		
ENTRY A	70	0	5.00	0.06	4.2	0.8				4.2			
ORDER AREA	162	0	5.00	0.06	9.72	0.8				9.72			
PLAYGROUND	181	10	7.50	0.18	107.58	0.8						107.58	
TOTALS							REQUIRED OUTSIDE AIR	100/140	264.5	492.2	503.3	286.5	107.6
							PROVIDE OUTSIDE AIR	-	2500.0	680.0	800.0	600.0	400.0

NOTES:
OUTSIDE AIR BASED ON THE INTERNATIONAL MECHANICAL CODE 2012 & PER ASHRAE 62-2007 MINIMUM VENTILATION RATES.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE												
MARK	COOLING CAPACITY (MBH)		EFFICIENCIES SEER	FAN SECTION (CFM)	ELECTRICAL DATA		R-410A MODEL	MFR	WEIGHT			
	MIN.	MAX.			CIRCUIT AMPACITY	MOCP			AHJ	CJ		
AHJ/CJH (NEW)	16	36.0	16.2	705-220	28	40	208/3/60	PKA-A39KAT7 PLZ2-HA39H45	MTS/BRISH	46 LBS	265 LBS	

NOTES:
MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-35-HOIO, FOR PRICING AND AVAILABILITY.

REMARKS:
1. ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
2. MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
3. PROVIDE ENGRAVED PLASTIC LABEL AT AHJH AND CJH WITH HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
4. PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
5. PROVIDE WITH FACTORY WIRED 7-DAY PROGRAMMABLE WALL THERMOSTAT, MODEL CZ-2055LL.

AIR DOOR SCHEDULE								
MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
NEW AD#1	1765	2670 FPM	10 KW	3/4	DRIVE THRU	CHA-H48E	POWERED-AIR	123.5
EXISTING AD#2	3,867	4,288	NA	3/4	REAR DOOR	RBT-H48	POWERED-AIR	3.4

NOTES:
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-35-HOIO, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC. REMOTE W ALL SWITCHES FOR B-HATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DVERTER BOX.

EXHAUST FAN SCHEDULE									
MARK	CFM	ESP	RPM	TIP SPEED (FPM)	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EXISTING EF#1	1085	.75	1,071	4,626	1/2	HOOD#1	165W#B	LOREN COOK	123,4,5,6
EXISTING EF#2	1,085	.75	1,071	4,626	1/2	HOOD#R	165W#B	LOREN COOK	123,4,5,6
EXISTING EF#3	500	-	-	-	-	RESTROOMS	-	-	15
EXISTING EF#4	701	.75	1,222	4,798	1/3	HOOD#2	150V#B	LOREN COOK	123,4,5,6
EXISTING EF#5	698	.75	1,220	4,790	1/3	HOOD#3	150V#B	LOREN COOK	123,4,5,6

NOTES:
GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
GREASE EXHAUST FANS TO BE UL 762 LISTED.
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE FANULRB PACKAGE. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FANULRB PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-35-HOIO FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:
1. PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
2. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
3. PROVIDE FACTORY INSTALLED HINGED BASE KIT.
4. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-919-7034.
5. PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
6. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
7. EXISTING EXHAUST FAN TO REMAIN.

AIR DEVICE SCHEDULE						
MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA KITCHEN	VARIES	24X24	LAY-IN	17
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	19X19	BEVELLED	13,5,6
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	18X10	20X12	SURFACE	1
F	PRICE MODEL 80 ESCORTATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	17
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12X12	24X24	LAY-IN	16,7
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	15X15	BEVELLED	12,3,5,6
K	PRICE MODEL APDC ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X14	18X16	SURFACE	14,5,6
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	UTILITY	12X12	14X14	SURFACE	1

NOTES:
MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-35-HOIO, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:
1. STANDARD OFF WHITE FINISH.
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. SEE DRAWING M4 FOR THROW.
4. PROVIDE MODEL VCS7 NECK DAMPER ON GRILLES IN RESTROOMS.
5. PROVIDE BACKPAN, MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL IM#1.
7. FACTORY INSULATED R-6 BACKPAN.

KITCHEN PRESSURIZATION	
RETURN AIR FROM DINING BACK TO AC-1	+800
NEW AC-1 OA-25.0 TON 25%	+2500
NEW EF-1 KITCHEN HOOD	-1085
NEW EF-2 KITCHEN HOOD	-1085
NEW EF-4 KITCHEN HOOD	-701
NEW EF-5 KITCHEN HOOD	-698
NEW EF-6 KITCHEN HOOD	-387
TOTAL	+556

DINING PRESSURIZATION	
EXISTING AC-2 OA-8.5 TON 20%	+680
EXISTING AC-3 OA-10.0 TON 20%	+800
EXISTING AC-4 OA-7.5 TON 20%	+600
EXISTING AC-5 OA-5.0 TON 20%	+400
EXISTING EF-3 RESTROOM EXHAUST	-500
RETURN AIR FROM DINING BACK TO AC-1	-800
TOTAL	+1180

BUILDING POSITIVE PRESSURE -524

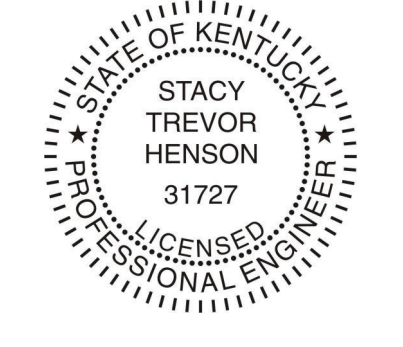


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BUILDING TYPE / SIZE: S04 - 162
DATE: April 2022
DRAWN BY: DD
CHECKED BY: DAK
CONSULTANT PROJECT #: 2020.0308

MECHANICAL SCHEDULES
SHEET NUMBER

