AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	MATERIAL / FINISH	DESCRIPTION	NOTES
CD1	TITUS	TMS-AA	12X12	REF PLANS	ALUMINUM / WHITE	CEILING DIFFUSER - LOUVERED FACE	A, D, H, J
CD2	TITUS	PAS-AA	24X24	REF PLANS	ALUMINUM / WHITE	CEILING DIFFUSER - PERFORATED FACE, ADJUSTABLE	B, G, H, J
CD3	TITUS	PAS-AA	12X12	REF PLANS	ALUMINUM / WHITE	CEILING DIFFUSER - PERFORATED FACE, ADJUSTABLE	A, D, H,J
CD4	TITUS	FT-10	60X4	10"	ALUMINUM / WHITE	LINEAR SLOT FLOWTEE CEILING DIFFUSER - SINGLE 1" SLOT, ADJUSTABLE. 8" INLET.	A, D,E, H, F
RG1	TITUS	50F	24X24	REF PLANS	ALUMINUM / WHTIE	EGGCRATE RETURN GRILLE - 1/2"x1/2"x1/2", SIGHT-PROOF	B, C, H
RG2	TITUS	300FL	REF PLANS	REF PLANS	ALUMINUM / WHTIE	LOUVERED RETURN GRILLE, 3/4" BLADE SPACING, LONG BLADES, SIGHT-PROOF	D, H
SD1	TITUS	272FS	20X12	18X10	ALUMINUM / ARCH PLANS	SIDEWALL SUPPLY DIFFUSER - DOUBLE DEFLECTION 3/4" O.C. BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION	A, D
EG1	TITUS	50F	12X12	REF PLANS	ALUMINUM / WHTIE	EGGCRATE RETURN GRILLE - 1/2"x1/2"x1/2", SIGHT-PROOF	C, D, H

AIR DEVICE ACCESSORIES:
A. PROVIDE OBD
B. LAY-IN.
C. PROVIDE DUCT CONNECTION BOX.
D. SURFACE MOUNTED.
E. PROVIDE MANUFACTURERS INSULATED PLENUM.
F. PROVIDE BOWDEN CABLE SYSTEM 'BCDR' DAMPER OPERATOR.
G. REFER TO PLANS FOR DIRECTIONAL ARROWS INDICATING CFM THROWS FOR PROPER GRILLE SELECTION.
H. NECK SIZE TO BE SAME AS DUCT SIZE UNLESS NOTED OTHERWISE.
J. PROVIDE WITH INSULATED BACK PANEL.

ROOFTOP UNIT SCHEDULE
(SLIM CHICKENS LENNOX NATIONAL ACCOUNT - ED WRIGHT 972-672-3818)

MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY FAN			COOLING CAPACITY (MBH)		EAT DB/WB LAT DB/WB (F)	IEER\EER	HEATING INPUT (MBh)	HEATING OUTPUT (MBh)	ELECTRICAL DATA			WEIGHT (LB)
				CFM	E.S.P. (IN. WC)	OSA (CFM)	TOTAL	SENSIBLE					V/PH	MCA	MOCP	
RTU-1	LENNOX	LGH120H4B	10	3,200	1.5"	600	111	67	80/67 55/54	13.0\12.0	130	104	208/3	46	50	1,244
RTU-2	LENNOX	LGH156H4M	13	4,500	1.5"	850	139	89	80/67 55/54	14.1\12.0	200	176	208/3	65	70	2,142

NOTES (ALL NEW UNITS):
A. PROVIDE 2" MERV 8 FILTERS WITH EACH UNIT.
B. SMOKE DETECTORS TO BE PROVIDED AND FACTORY INSTALLED BY MANUFACTURER. MOUNT IN RETURN AIR DUCT. WIRE TO SHUTDOWN UNIT UPON DETECTION. FINAL LOCATION TO BE BY FIRE ALARM CONTRACTOR.
C. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE TRAP OF ADEQUATE DEPTH TO PREVENT STATIC FROM OVERCOMING TRAP SEAL. ROUTE TO NEAREST APPROVED RECEPTOR PER LOCAL AHJ.
D. PROVIDE WITH STANDARD 7 DAY PROGRAMMABLE THERMOSTAT AND REMOTE SENSOR KIT. THERMOSTAT SHALL HAVE A MINIMUM 5°F DEADBAND. MOUNT SENSORS AT 60" A.F.F.
E. OUTDOOR AMBIENT TEMPERATURE 100°F.
F. PROVIDE WITH 2 STAGE MULTI SPEED SUPPLY FAN.
G. PROVIDE WITH FACTORY STANDARD 14" ROOF CURB.
H. PROVIDE LOW AMBIENT TO 0°F VIA MICROPROCESSOR CONTROL PROGRAMMING FORE BOTH RTUS.
J. PROVIDE WITH FACTORY MANUFACTURED HAIL GUARDS.
K. PROVIDE WITH HUMIDITROL DEHUMIDIFICATION SYSTEM ON BOTH RTUS AND ALL RELATED REQUIRED ACCESSORIES. (ACTIVATE WHEN RH>50% IN BOTH ZONES WHEN WB > 76)
L. INTERLOCK THE RTU SMOKE DETECTOR WITH FIRE ALARM SYSTEM.
M. PROVIDE UNITS WITH 100% OUTDOOR AIR ECONOMIZER, WITH DIFFERENTIAL ENTHALPY CONTROL. PROVIDE FACTORY BAROMETRIC RELIEF DAMPER.
N. PROVIDE WITH MULTI STAGE HEATING.
O. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH AND CONVENIENCE RECEPTACLE.
P. PROVIDE WITH FACTORY SUPPLIED C02 DETECTION AS REQUIRED PER PLANS.

AIR BALANCE SCHEDULE

UNIT	EXHAUST	INTAKE
RTU1	---	600 CFM
RTU2	---	850 CFM
KSF1	---	2,737 CFM
KEF1	3,220 CFM	---
KEF2	500 CFM	---
EF1	300 CFM	---
TOTAL	4,020 CFM	+167 CFM

VENTILATION CALCULATION

SYSTEM	ROOM NUMBER	ROOM NAME	FLOOR AREA SQ FT (Az)	P / 1000 SQ FT *	PEOPLE (Pz)	CFM/ PERSON (Rp)	CFM (Vp)	CFM/ SQ FT (Ra)	CFM (Va)	TOTAL CFM (Vbz)
RTU-1	105	DRIVE THRU	135	10	2	7.5	15	0.12	17	32
RTU-1	106A	KITCHEN	355	10	4	7.5	30	0.12	43	73
RTU-1	107	PREP	330	10	4	7.5	30	0.12	40	70
RTU-1	108	OFFICE	60	5	1	5.0	5	0.06	4	9
RTU-2	101	ENTRY	175	50	9	7.5	68	0.06	11	79
RTU-2	102	DINING	1186	70	72	7.5	540	0.18	214	754
RTU-2	103	CASHIER	80	-	2	5.0	10	0.06	5	15
RTU-2	109	CORRIDOR	75	0	0	0.0	0	0.06	5	5
RTU-2	111	RESTROOM	45	0	0	0.0	0	0	0	0
RTU-2	112	RESTROOM	45	0	0	0.0	0	0	0	0
SUM OF ZONE Vbz:										1037
ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez):										0.8
TOTAL ZONE OUTDOOR AIR FLOW (Voz):										1296

REMARKS:

1. CALCULATIONS BASED ON IMC 2015, TABLE 403.3.
* WHERE P/1000 SQ FT CELLS HAVE A VALUE OF "-", AN OCCUPANCY RATE HAS BEEN ASSIGNED FROM ARCHITECTURAL DRAWINGS.

ELECTRIC HEATER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	WATTS	LENGTH	BTU / H	VOLTS / PH	AMPS	CONTROL TYPE
EH1	ELECTRIC UTILITY INFRARED HEATER	TPI CORPORATION	FFH-512A	550	22"	1877	120 / 1	5	T-STAT

HEATER NOTES:
A. MOUNT AT A MINIMUM 7'-0" A.F.F.
B. PROVIDE MANUFACTURERS WIRE GUARD.

MAKE-UP AIR FAN SCHEDULE (OWNER SUPPLIED CONTRACTOR INSTALLED)

MARK	MANUFACTURER	FLOW (CFM)	STATIC PRESSURE (IN WC)	RPM	SONES	HP	VOLTS / PH	FLA	WEIGHT (LBS)
KSF1	CAPTIVEAIRE	2,737	0.4	1119	9.2	1.5	208 / 3	3.8	820

MAU NOTES:
A. ROOF MOUNTED.
B. DUCTWORK TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
C. INTERLOCKED WITH KEF-1.

HOOD SCHEDULE (OWNER SUPPLIED CONTRACTOR INSTALLED)

MARK	MANUFACTURER	OVERALL LENGTH	EXHAUST PLENUM		SUPPLY PLENUM		UTILITY CABINET				HOOD HANGING WEIGHT (LBS)	NOTES
								ELECTRICAL PACKAGE				
			AIRFLOW (CFM)	DIAMETER	MAKE-UP AIRFLOW (CFM)	MAKE-UP DIAMETER	ANSUL LOCATION	OPTIONS	CONTROL	VOLTS / PH		
KH1	CAPTIVEAIRE	14' - 0"	3,220	18"	2,737	(8) 14"	REMOTE	SMART THREMOSTSTIC CONTROL	KEF-1 & KSF-1	208 / 3	1,330	A,B,C,D,E,F,G,H
KH2	CAPTIVEAIRE	4' - 0"	500	8"	---	---	---	SMART THREMOSTSTIC CONTROL	KEF-2	208 / 3	103	E,G

NOTES:
A. SHOP WRAPPER 2.00" HIGH - FRONT, LEFT, RIGHT.
B. BACK SPLASH 80" H X 111" L 430 SS.
C. RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH 23" HIGH 430 SS.
D. INSULATION FOR TOP OF HOOD.
E. INSULATION FOR BACK OF HOOD.
F. LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 0" 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
G. DUCTWORK TO BE PROVIDED AND INSTALLED BY CONTRACTOR
H. KITCHEN EXHAUST DUCT SHALL BE ENCLOSED IN A 1 HR FIRE RATED SHAFT FROM ABOVE THE HOOD TO THE EXTERIOR TO MEET IMC 506.3.11.

AIR CURTAIN SCHEDULE (OWNER SUPPLIED CONTRACTOR INSTALLED)

MARK	MANUFACTURER	MODEL	DESCRIPTION	UNIT WIDTH (IN)	MAX VELOCITY (FPM)	AVG. OUTLET VELOCITY (FPM)	AIR VOLUME (CFM)	VOLTS / PH	MOTOR (HP)	AMPS (KW)	OUTLET VELOCITY UNIFORMITY (%)	WEIGHT (LBS)	NOTES
AC1	BERNER	ALC08-1048A	AIR CURTAIN - SINGLE SPEED	48	2800	2104	1380	120 / 1	1/5	3.4	94	48	A, B, C
AC2	BERNER	DTU03-1018E	AIR CURTAIN - HEATED, DRIVE THRU UNIT	18	2800	1047	135	120 / 1	1/2	15.7	76	12	D, E

AIR CURTAIN ACCESSORIES:
A. PROVIDE WHITE POWDER-COATED CABINET
B. PROVIDE WALL MOUNTING PLATE.
C. MOUNT AT 7'-3" AFF.
D. MOUNT AT 8'-0" AFF.
E. MOUNT OVER OPERABLE DRIVE THRU WINDOW.

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	DRIVE	FAN AIRFLOW (CFM)	ESP (IN WC)	RPM	VOLTS / PHASE	SONES	CONTROL TYPE	HP	WEIGHT (LBS)	ACCESSORIES
EF1	INLINE EXHAUST FAN	COOK	GN-542	DIRECT	300	0.25	1,600	120 / 1	3.5	TIME CLOCK	0.134	50	1
KEF1	KITCHEN EXHAUST FAN - UPBLAST, CENTRIFUGAL ROOF MOUNTED	CAPTIVEAIRE	DU180HFA	DIRECT	3,220	1.750	1425	208 / 3	22	SWITCHED AT HOOD	1.5	195	2, 3
KEF2	KITCHEN EXHAUST FAN - UPBLAST, CENTRIFUGAL ROOF MOUNTED	CAPTIVEAIRE	DU33HFA	DIRECT	500	0.650	1,263	208 / 3	8.4	SWITCHED AT HOOD	0.13	100	2, 3

GENERAL REQUIREMENTS (ALL FANS):
A. PROVIDE PRE-WIRED FACTORY MOUNTED INTEGRAL DISCONNECT DEVICE (NEMA 3R FOR EXTERIOR).
B. PROVIDE VARIABLE SPEED CONTROLLER (FACTORY INSTALLED IF AVAILABLE) ON ALL DIRECT DRIVE FANS FOR FAN BALANCING.
C. DUCTWORK TO BE PROVIDED AND INSTALLED BY CONTRACTOR

ACCESSORIES LEGEND:
1. PROVIDE GRAVITY BACKDRAFT DAMPER.
2. PROVIDE GREASE COLLECTION CUP.
3. OWNER SUPPLIED CONTRACTOR INSTALLED

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MECHANICAL SCHEDULES

SHEET: M2.0