

AIR DISTRIBUTION SCHEDULE							
MARK	TYPE	SIZE IN INCHES		FINISH	O.B.D.	BASIS OF DESIGN (TITUS)	NOTES
		NECK	FACE				
81	SUPPLY	10"x10"	24"x24"	WHITE	NO	TDC	① ③ ⑩
82	SUPPLY	8"x8"	24"x24"	WHITE	NO	TDC	① ③ ⑩
83	SUPPLY	12"x12"	24"x24"	WHITE	NO	TDC	① ③ ⑩
84	SUPPLY	6"x6"	12"x12"	WHITE	NO	TDC	① ③ ⑩
85	SUPPLY	15"x15"	24"x24"	WHITE	NO	TDC	① ③ ⑩
86	SUPPLY	30" ROUND	60" ROUND	⑦	NO	TMR	①
87	SUPPLY	8" ROUND	24"x24"	WHITE	NO	⑤	① ③
88	SUPPLY	10"x10"	16"x16"	WHITE	NO	TDC-A4	①
89	SUPPLY	12"x12"	18"x18"	⑦	NO	TDC-A4	①
810	SUPPLY	30"x30"	36"x36"	⑦	NO	TDC-A4	①
811	SUPPLY	14"x8"	16"x10"	⑦	YES	300RS	①
812	SUPPLY	22"x10"	24"x12"	⑦	YES	300RS	①
813	SUPPLY	10"x6"	12"x8"	⑦	YES	300RS	①
814	SUPPLY	6"x6"	24"x24"	WHITE	NO	TDC-A4	①
815	SUPPLY	10" ROUND	24"x24"	WHITE	NO	⑤	① ③
816	SUPPLY	18"x6"	20"x8"	⑦	YES	300RS	①
817	SUPPLY	-	-	WHITE	-	DROP BOX DIFFUSER	① ④
818	SUPPLY	-	-	WHITE	-	DROP BOX DIFFUSER	① ②
819	SUPPLY	-	-	WHITE	-	DROP BOX DIFFUSER	① ⑨
820	SUPPLY	-	-	WHITE	-	DROP BOX DIFFUSER	① ⑧
821	SUPPLY	-	-	WHITE	-	DROP BOX DIFFUSER	① ⑪
81	RETURN	22"x22"	24"x24"	WHITE	NO	50F	①
82	TRANSFER	18"x18"	24"x24"	WHITE	NO	50F	①
83	EXHAUST	6"x6"	8"x8"	WHITE	NO	50F	①
84	EXHAUST	12"x12"	14"x14"	WHITE	NO	50F	①
85	TRANSFER/EXHAUST	10"x10"	24"x24"	WHITE	NO	50F	①
86	TRANSFER	36"x20"	38"x22"	⑦	NO	50F	① ⑥
87	TRANSFER/EXHAUST	10"x10"	12"x12"	WHITE	NO	50F	①
88	TRANSFER/EXHAUST	8"x8"	10"x10"	WHITE	NO	50F	①
89	RETURN/TRANSFER	30"x30"	32"x32"	WHITE	NO	50F	①
810	TRANSFER/RETURN	14"x14"	24"x24"	WHITE	NO	50F	①

- DIFFUSER MOUNTING STYLE SHALL BE CONFIRMED WITH DRAWING A1.3, REFLECTED CEILING PLAN.
- 2-WAY DROP BOX DIFFUSER PROVIDED BY KROGER, AES MODEL NUMBER 42443 (ADB-1-20-2B).
- SEE DRAWINGS FOR DIFFUSER THROW PATTERN. PROVIDE 4-WAY THROW DIFFUSER IF NO DIRECTION ARROWS ARE INDICATED.
- 6-WAY DROP BOX DIFFUSER PROVIDED BY KROGER, AES MODEL NUMBER 42446 (ADB-6-20).
- ACCUTHERM THERMA-FUSER, MODEL TF-HC
- COORDINATE LOCATION WITH ARCHITECTURAL. BOTTOM OF TRANSFER GRILLE TO BE AS HIGH AS POSSIBLE.
- MATCH FINISH COLOR OF ADJACENT MATERIAL.
- 3-WAY DROP BOX DIFFUSER PROVIDED BY KROGER, AES MODEL NUMBER 42437 (ADB-1-15-3).
- 3-WAY DROP BOX DIFFUSER PROVIDED BY KROGER, AES MODEL NUMBER 42441 (ADB-1-20-3).
- PROVIDE SQUARE TO ROUND TRANSITION WHEN REQUIRED.
- 4-WAY DROP BOX DIFFUSER PROVIDED BY KROGER, AES MODEL NUMBER 42424 (ADB-1-8-4).

AIR BALANCE SCHEDULE

MARK	MAKE-UP AIR CFM	EXHAUST AIR CFM	REMARKS
RTU-1	1,000	----	OUTDOOR AIR
RTU-2	1,000	----	OUTDOOR AIR
RTU-3	1,000	----	OUTDOOR AIR
RTU-4	----	----	OUTDOOR AIR
RTU-5	1,000	----	OUTDOOR AIR
RTU-6	2,100	----	OUTDOOR AIR
RTU-7	1,000	----	OUTDOOR AIR
RTU-8	----	----	OUTDOOR AIR
RTU-9	1,000	----	OUTDOOR AIR
RTU-10	1,000	----	OUTDOOR AIR
RTU-11	1,200	----	OUTDOOR AIR
RTU-12	800	----	OUTDOOR AIR
RTU-13	920	----	OUTDOOR AIR
RTU-14	800	----	OUTDOOR AIR
RTU-15	640	----	OUTDOOR AIR
RTU-16	620	----	OUTDOOR AIR
RTU-17	700	----	OUTDOOR AIR
RTU-18	600	----	OUTDOOR AIR
RTU-19	600	----	OUTDOOR AIR
RTU-20	400	----	OUTDOOR AIR
EF-1	----	600	FRONT RESTROOM EXHAUST
EF-2	----	400	MEZZ RESTROOM EXHAUST
EF-5	----	900	RACK OVEN (INTERMITTENT)
EF-6	----	900	RACK OVEN (INTERMITTENT)
EF-7	----	1,200	SEAFOOD EXHAUST
EF-9	----	200	REAR RESTROOM EXHAUST
EF-10	----	200	PHARMACY RESTROOM EXHAUST
EF-11	----	400	PROTOCOL ROOM EXHAUST
EF-12	----	400	PHARMACY STORAGE
EF-13	----	600	FM JEWELRY
EF-14	----	600	ELEVATOR EQUIPMENT ROOM
EF-15	----	600	ELECTRICAL ROOM
----	----	400	UTENSIL WASHER
----	----	400	UTENSIL WASHER
HOOD #1	----	3,150	DELI/BAKERY HOOD (INTERMITTENT)
HOOD #2	----	1,400	DELI/BAKERY HOOD (INTERMITTENT)
HOOD #3	----	2,000	MEAT HOOD (INTERMITTENT)
HOOD #4	----	600	SEAFOOD (INTERMITTENT)
TOTAL	16,380	14,750	
TOTAL DIFF		16,380 - 14,750 = +1,630 CFM	

FAN SCHEDULE

MARK	CFM	S.P. WG	DRIVE	H.P.	TYPE	BASIS OF DESIGN (CAPTIVEAIRE)	PNET	LOCATION/SERVICE	ROOF CURB	AES CURB MODEL#	NOTES
EF-1	600	0.3"	DIRECT	0.160	CENTRIFUGAL	DR12HFA	42811	MEN'S/WOMEN'S RESTROOM	ARC3/CA	42408	① ②
EF-2	400	0.3"	DIRECT	0.016	CENTRIFUGAL	DR12HFA	42812	MEZZ RESTROOMS	ARC3/CA	42408	① ②
EF-3	3,150	1.0"	BELT	1.500	CENTRIFUGAL	NCA16FA	42839	DELI HOOD# 1	ARC3/VE	42414	①
EF-4	1,400	1.0"	BELT	0.500	CENTRIFUGAL	NCA10FA	42830	DELI HOOD# 2	ARC3/VE	42412	①
EF-5	900	1.0"	BELT	0.333	CENTRIFUGAL	NCA14HPFA	42849	BAKERY/OVEN	ARC3/VE	42413	① ③
EF-6	900	1.0"	BELT	0.333	CENTRIFUGAL	NCA14HPFA	42849	BAKERY/OVEN	ARC3/VE	42413	① ③
EF-7	1,200	0.3"	DIRECT	0.250	CENTRIFUGAL	DR30HFA	42809	SEAFOOD PREP.	ARC3/CA	42409	① ④
EF-8	2,000	1.0"	BELT	0.750	CENTRIFUGAL	NCA18HPFA	42874	MEAT/SEAFOOD HOOD #3	ARC3/VE	42414	①
EF-9	200	0.2"	DIRECT	0.080	CENTRIFUGAL	DR10HFA	42813	REAR RESTROOM	ARC3/CA	42408	① ②
EF-10	200	0.2"	DIRECT	0.080	CENTRIFUGAL	DR10HFA	42813	PHARMACY RESTROOMS	ARC3/CA	42408	① ②
EF-11	400	0.3"	DIRECT	0.016	CENTRIFUGAL	DR12HFA	42812	MEZZ PROTOCOL ROOM	ARC3/CA	42408	① ⑤
EF-12	200	0.15"	DIRECT	0.060	CENTRIFUGAL	CFA250CA	42814	PHARMACY STORAGE			① ⑥
EF-13	600	0.3"	DIRECT	0.160	CENTRIFUGAL	DR12HFA	42811	FM JEWELRY GOLDSMITH ROOM	ARC3/CA	42408	① ④
EF-14	600	0.3"	DIRECT	0.160	CENTRIFUGAL	DR12HFA	42811	ELEVATOR EQUIPMENT ROOM	ARC3/CA	42408	① ⑤
EF-15	600	0.3"	DIRECT	0.160	CENTRIFUGAL	DR12HFA	42811	ELECTRICAL ROOM	ARC3/CA	42408	① ⑤
EF-16	600	0.5"	DIRECT	0.333	CENTRIFUGAL	DU33HFA	42824	SEAFOOD STEAMER HOOD, H-4	ARC3/VE	42412	① ⑤

- FANS & CURBS ARE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF FANS.
- FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
- FAN TO BE ON WHEN OVEN IS IN OPERATION.
- FAN TO BE CONTROLLED BY WALL MOUNTED SWITCH.
- FAN TO BE INSTALLED ON THE ROOF AND CONTROLLED BY A TEMPERATURE SENSOR. ACTIVATE AT 85° F.
- FAN TO BE INSTALLED IN CEILING AND CONTROLLED BY A TEMPERATURE SENSOR. ACTIVATE AT 85° F.

AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT				OUTDOOR UNIT				PNET	NOTES	
MARK	CFM	O.A. CFM	FAN MOTOR	MARK	MBH COOLING @95°F AMBIENT	MBH HEATING @27°F AMBIENT	BASIS OF DESIGN (MITSUBISHI)			
FCU-1	848	N/A	0.76 F.L.A	MSY-D36NA	CU-1	34.6	N/A	MUY-D36NA	40551	① ② ③ ④ ⑤
FCU-2	375	N/A	0.76 F.L.A	MSY-GE12NA	CU-2	12.0	N/A	MUY-GE12NA	40547	① ② ③ ④ ⑤

- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF SPLIT SYSTEM UNITS.
- PROVIDE LONG LINE APPLICATION WHEN THE TOTAL TUBING LENGTH EXCEEDS 40 FT OR WHEN THERE IS MORE THAN 16 FT VERTICAL SEPERATION BETWEEN INDOOR AND OUTDOOR UNITS.
- PROVIDE CONDENSATE PUMP MODEL LITTLE GIANT EC-400 OR EQUIVALENT. PROVIDE FLOAT SWITCH IN DRAIN PAN.
- PROVIDE WITH LOW AMBIENT KIT AND WIND GAFFLES TO AVOID REVERSE ROTATION OF CONDENSER FAN.
- ROOF MOUNTED OUTDOOR CONDENSING UNITS TO BE INSTALLED ON 45"x20"x14" TALL CURB, AES CURB MODEL# 42486.

HOOD SCHEDULE

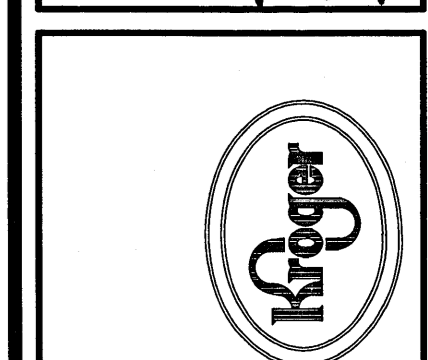
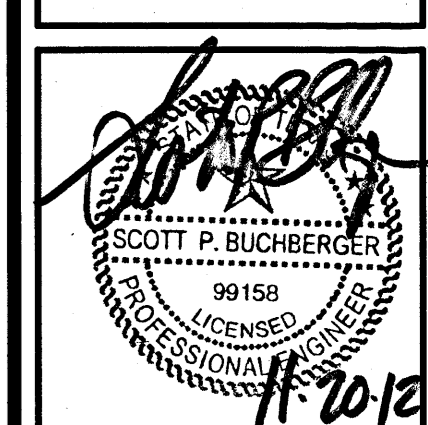
MARK	EXH. CFM	EXH. COLLAR	LENGTH	WIDTH	LOCATION / SERVICE	MODEL (CAPTIVEAIRE)	PNET	NOTES
H-1	3,150	10"x15"(2)	216"	60"	DELI/BAKERY	6024 ND	42504	① ② ③
H-2	1,400	10"x13"	96"	60"	DELI/BAKERY	6024 ND	42504	① ② ③
H-3	2,000	13"x12"	48"	60"	MEAT/SEAFOOD	6030 ND	42548	① ② ③
H-4	600	9"x8"	48"	48"	SEAFOOD STEAMER	4824 VH1	42540	① ② ③

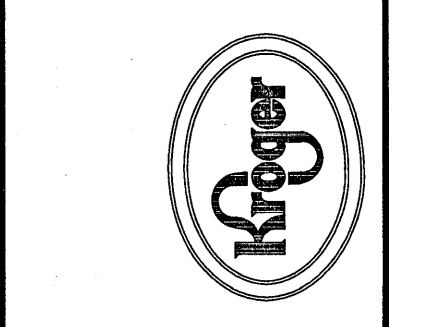
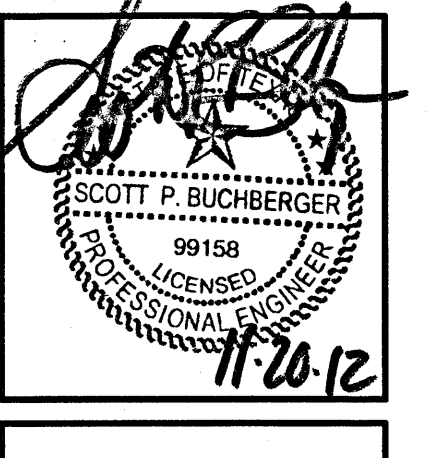
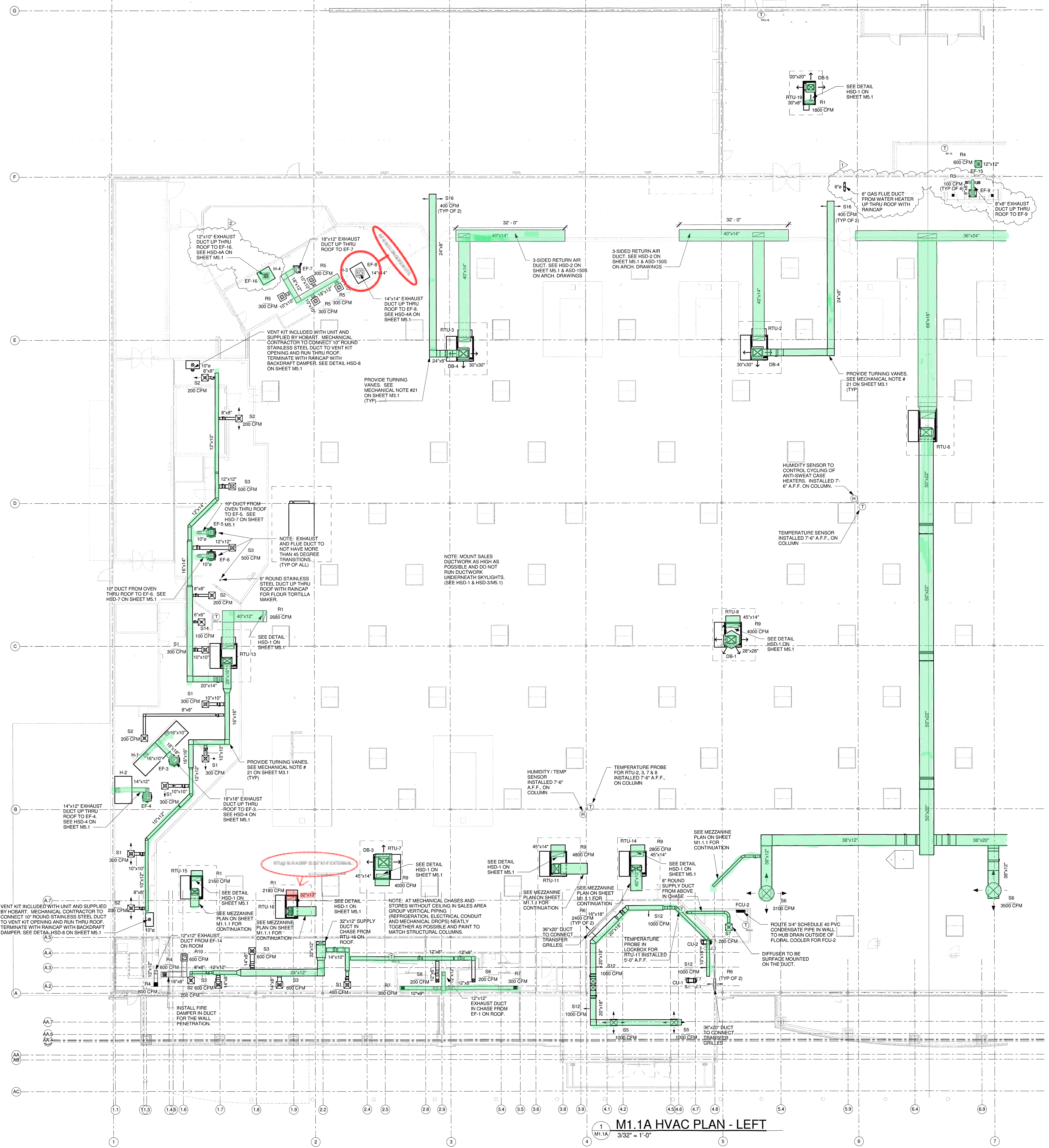
- PROVIDE CONTROL PANEL FOR FANS AND LIGHTS ON FRONT CORNER OF HOOD. HOOD, FANS, AND DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA 96.
- HOODS ARE PROVIDED BY KROGER. CONTRACTOR RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF HOODS. ANSUL SYSTEM PROVIDED AND INSTALLED BY KROGER.
- GAS APPLIANCES VENTED BY HOODS TO BE INTERLOCKED SO THAT WHEN THE EXHAUST FAN IS OFF THE GAS SUPPLY SHOULD ALSO BE OFF.

ROOFTOP UNIT SCHEDULE

MARK	CFM	O.A. CFM	TSP W.G.	BREAK H.P.	COOLING			HEATING		BASIS OF DESIGN (AON)	NOM. TONNAGE	WEIGHT (LBS)	AES CURB MODEL NUMBER	NOTES	
					EAT F'db	EAT F'wb	SENS CAP. MBH	TOT CAP. MBH	INPUT BTU						OUTPUT BTU
RTU-1	5,000	1,000	1.6"	1.83	80°F	67°F	141.52	172.05	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ④ ⑤ ⑥
RTU-2	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ④ ⑤ ⑦
RTU-3	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ④ ⑤ ⑥
RTU-4	5,000	-	1.5"	1.75	80°F	67°F	140.76	160.62	-	-	RN-015-3-0-CA02-000	15	1653	42472	① ② ③ ⑤ ⑦ ⑧
RTU-5	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ④ ⑤ ⑦
RTU-6	10,500	2,100	2.8"	7.17	80°F	67°F	248.58	317.17	270,000	218,700	RN-030-3-0-BQ02-242	30	2911	42473	① ② ③ ④ ⑤ ⑥
RTU-7	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ⑤ ⑥
RTU-8	5,000	-	1.5"	1.75	80°F	67°F	140.76	160.62	-	-	RN-015-3-0-CA02-000	15	1653	42472	① ② ③ ⑤ ⑦ ⑧
RTU-9	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ⑤ ⑦
RTU-10	5,000	1,000	1.6"	1.83	80°F	67°F	141.47	172.07	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ⑤ ⑦
RTU-11	6,000	1,200	1.8"	2.72	80°F	67°F	157.08	177.42	195,000	156,000	RN-015-3-0-CA02-2F2	15	1788	42472	① ② ③ ④ ⑤ ⑥
RTU-12	3,200	800	1.3"	1.14	80°F	67°F	81.27	89.48	90,000	72,900	RN-008-3-0-CA01-222	8.0	1112	42475	① ② ③ ④ ⑤
RTU-13	3,600	920	1.2"	0.90	80°F	67°F	88.17	92.64	195,000	156,000	RN-009-3-0-CA02-2F2	9.0	1607	42472	① ② ③ ④ ⑤
RTU-14	3,600	800	1.1"	0.76	80°F	67°F	82.01	90.75	195,000	156,000	RN-009-3-0-CA02-2F2	9.0	1607	42472	① ② ③ ④ ⑤
RTU-15	2,800	640	1.2"	0.87	80°F	67°F	69.07	73.80	90,000	72,900	RN-007-3-0-BA01-222	7.0	1113	42475	① ② ③ ④ ⑤
RTU-16	2,800	620	1.2"	0.88	80°F	67°F	68.92	73.46	90,000	72,900	RN-007-3-0-BA01-222	7.0	1113	42475	① ② ③ ④ ⑤
RTU-17	2,800	700	1.2"	0.87	80°F	67°F	69.15	74.23	90,000	72,900	RN-007-3-0-BA01-222	7.0	1113	42475	① ② ③ ④ ⑤
RTU-18	2,400	600	1.9"	1.37	80°F	67°F	61.82	68.35	60,000	48,600	RQ-006-3-V-CA01-212	6.0	860	42460	① ② ③ ⑤
RTU-19	2,400	600	1.9"	1.37	80°F	67°F	61.82	68.35	60,000	48,600	RQ-006-3-V-CA01-212	6.0	860	42460	① ② ③ ⑤
RTU-20	2,000	400	1.6"	0.95	80°F	67°F	51.55	57.06	60,000	48,600	RQ-005-3-V-CA01-212	5.0	826	42460	① ② ③ ⑤

- KROGER MAINTAINS A NATIONAL ACCOUNT WITH AAO, INC. UNITS WILL BE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF ROOFTOP UNITS.
- PROVIDED WITH FULL PERIMETER ROOF CURB.
- UNIT SHALL HAVE SENSORS/THERMOSTATS AS SPECIFIED FOR DANFOSS ENERGY MANAGEMENT SYSTEM.
- INSTALL SMOKE DETECTORS IN RETURN AIR STREAM. PROVIDED WITH FIRE ALARM BY CONTRACTOR.
- SEE SPECIFICATIONS FOR OPTIONS, CONTROLS, & ACCESSORIES REQUIRED.
- PROVIDED WITH HEAT RECLAIM COIL.
- PROVIDED WITH MODULATING HOT GAS REHEAT COIL.
- SEAL OUTSIDE AIR DAMPER.





Kroger SW-578
 2608 FM 544 W
 Wylie, TX 75098
 FOR **KROGER**
 1331 East Airport Freeway
 Irving, TX 75062

REVISIONS

07/20/12	KROGER CRITERIA CHANGES
11/20/12	ASB 003 KROGER CRITERIA CHANGE PER REV 024

SHEET TITLE
HVAC PLAN - LEFT

DATE
 05/29/2012

PROJECT NUMBER
 11-290

SHEET NUMBER
M1.1A

M1.1A HVAC PLAN - LEFT
 3/32" = 1'-0"

