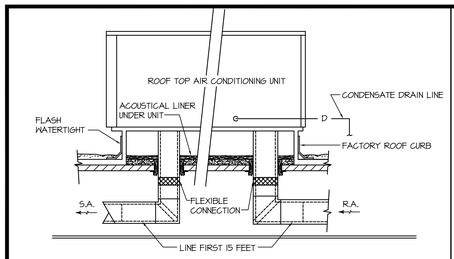
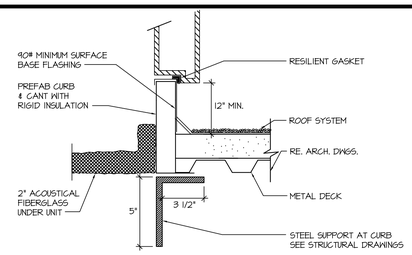
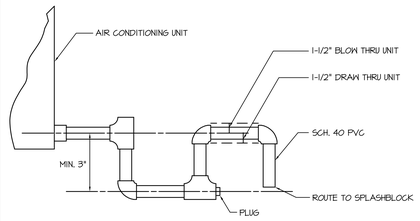


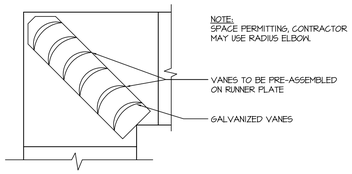
1 / H3.1 ROOFTOP UNIT DETAIL
SCALE: NONE



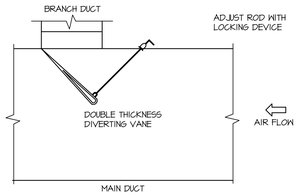
2 / H3.1 ROOFTOP UNIT CURB DETAIL
SCALE: NONE



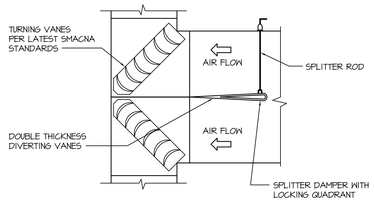
3 / H3.1 CONDENSATE TRAP DETAIL
SCALE: NONE



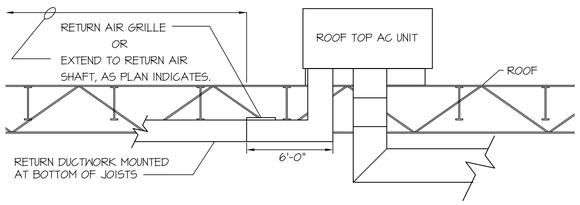
4 / H3.1 SQUARE ELBOW WITH DOUBLE THICKNESS VANES
SCALE: NONE



5 / H3.1 BRANCH DUCT SPLITTER DETAIL
SCALE: NONE



6 / H3.1 SPLITTER DAMPER DETAIL
SCALE: NONE



7 / H3.1 SALES AREA RTU DETAIL
SCALE: NONE

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	SIZE IN INCHES NECK	SIZE IN INCHES FACE	FINISH	O.B.D.	BASIS OF DESIGN (TITUS)	NOTES
A	SUPPLY	10"x10"/10"Φ	24"x24"	WHITE	NO	TDC-A4	
B	SUPPLY	7"x7"/8"Φ	24"x24"	WHITE	NO	TDC-A4	
C	RETURN	22"X22"	24"x24"	WHITE	NO	50F	
D	EXHAUST	22"X22"	24"x24"	WHITE	NO	50F	
E	SUPPLY	6"x6"/6"Φ	24"x24"	WHITE	NO	TDC-A4	
F	RETURN	22"X46"	24"x48"	WHITE	NO	50F	
G	SUPPLY	11"x11"/12"Φ	24"x24"	WHITE	NO	TDC-A4	

EXACT LOCATION OF ALL CEILING DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.

ROOFTOP UNIT SCHEDULE

MARK	CFM	O.A. CFM	TSP W.G.	H.P.	COOLING EAT°Fdb	COOLING EAT°Fwb	COOLING CAP.MBH	HEATING INPUT BH	HEATING OUTPUT BH	BASIS OF DESIGN (AAON)	NOM. TONNAGE	NOTES
RTU-1	2000	500	0.82"	0.88	80°F	67°F	61.44	100,000	80,000	HB-005-B-V-AA01-242	5.0	1 2 3
RTU-2	2,400	720	1.04"	2.0	80°F	67°F	88.93	90,000	72,900	RM-007-8-0-BA01-222	7.0	1 2 3
RTU-3	5200	600	1.60"	7.5	80°F	67°F	159.97	180,000	145,800	RM-013-8-0-BA02-232	18.0	1 2 3

1. KROGER MAINTAINS A NATIONAL ACCOUNT WITH AAON, INC. UNITS & CURBS WILL BE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF ROOFTOP UNITS.
2. PROVIDED WITH FULL PERIMETER FACTORY ROOF CURB PROVIDED AS PART OF NATIONAL ACCOUNT.
3. UNIT SHALL HAVE FACTORY INSTALLED RTU BOARD AND SLIDER THERMOSTAT. CONTRACTOR INSTALL THERMOSTAT AS SHOWN.

FAN SCHEDULE

MARK	CFM	S.P. WG	DRIVE	H.P.	TYPE	BASIS OF DESIGN (CAPTIVE AIRE)	PNET	LOCATION/SERVICE	CURB	PNET	NOTES
EF-1	2800	1.0"	BELT	1.0	CENTRIFUGAL UPBLAST	NCA16HPFA	42841	HOOD 1 EXHAUST	ARC3/VE	42414	1 2
EF-2	750	1.0"	BELT	1/3	CENTRIFUGAL UPBLAST	NCA14HPFA	42849	OVEN EXHAUST	ARC3/VE	42413	1 3
EF-3 & 4	400	0.125"	BELT	0.16	CENTRIFUGAL UPBLAST	DR12HFA	42812	TOILET ROOMS	ARC3/CA	42404	1 5
EF-5	400	0.1"	BELT	0.06	CABINET	CFA400CA	42817	BREAKROOM EXHAUST	N/A	N/A	1 4

1. FAN IS PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF FANS.
2. FAN TO BE CONTROLLED BY SWITCH MOUNTED ON CORNER OF HOOD.
3. FAN TO BE ENERGIZED WHENEVER OVEN IS IN OPERATION.
4. FAN TO BE CONTROLLED WITH WALL SWITCH.
5. FAN TO BE INTERLOCKED WITH LIGHTS.

HOOD SCHEDULE

MARK	EXH. CFM	EXH. COLLAR	MAKE-UP CFM	MAKE-UP COLLAR	LENGTH	WIDTH	LOCATION / SERVICE	MODEL (CAPTIVE AIRE)	PNET	NOTES
H-1	2800	(2) 10"x13"	--	--	192"	60"	DELI / BAKERY	6030 ND	42520	1 2

1. 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.
2. HOODS ARE PROVIDED BY KROGER. CONTRACTOR RESPONSIBLE FOR SCHEDULING, RECEIPT, AND COMPLETE INSTALLATION OF HOODS. ANSUL SYSTEM PROVIDED AND INSTALLED BY KROGER.

NOTES TO GENERAL CONTRACTOR REGARDING KROGER SUPPLIED, CONTRACTOR INSTALLED EQUIPMENT:

1. CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM KMA PROJECT ENGINEER AND COORDINATE WITH VENDOR.
2. CONTRACTOR TO RECEIVE EQUIPMENT, PROVIDE INSPECTION, AND NOTIFY VENDOR & KMA PROJECT ENGINEER OF MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAYS FOR CONCEALED DAMAGE).
3. CONTRACTOR TO PROVIDE SAFE HARBORING, INSTALLATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
4. CONTRACTOR TO HANDLE ANY WARRANTY CLAIMS (PRIOR TO STORE OPENING) DIRECTLY WITH VENDOR.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

MECHANICAL NOTES

1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.
2. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW-PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
3. INTERNALLY LINE THE FIRST 15' OF ALL SUPPLY AND RETURN DUCT WITH FIBERGLASS DUCT LINER PER SPECIFICATIONS. INSTALL IN ACCORDANCE WITH SMACNA DUCT LINER APPLICATIONS STANDARDS. ALL DUCTWORK DIMENSIONS ARE NET INSIDE DIMENSIONS. ALL DUCTWORK ELBOWS SHALL BE INSTALLED WITH TURNING VANES. ALL DUCTWORK ENCLOSED BY CEILING OR WALL SHALL BE INSULATED; EXPOSED DUCTWORK DOES NOT REQUIRE INSULATION.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED FOR THIS WORK.
5. PROVIDE CONDENSATE DRAINS FOR ALL EQUIPMENT REQUIRING THEM. ALL CONDENSATE DRAINAGE PIPING SHALL BE SCHEDULE 40 PVC WITH SOCKET JOINTS USING SOLVENT CEMENT. PIPING SHALL BE RUN FULL SIZE OF CONNECTION AND THE PIPING SHALL HAVE AN ADEQUATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT DOWNSTREAM OF THE TRAP.
6. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATIONS. BUILDING DIMENSIONS SHALL BE TAKEN FROM ARCH. PLANS AND EQUIPMENT DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DATA.
7. ROOFTOP UNITS TO HAVE FACTORY-MOUNTED FUSED DISCONNECT SWITCH. MAY HAVE NON-FUSED DISCONNECT SWITCH IF APPROVED BY LOCAL AUTHORITIES.
8. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
9. COORDINATE THE LOCATION OF ALL PENETRATIONS OF THE STRUCTURE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10. EXACT LOCATION OF ALL CEILING DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
11. ALL FANS 1/8 H.P. AND ABOVE SHALL HAVE FUSED DISCONNECT SWITCH MOUNTED AT THE FAN. MAY BE EQUIPPED WITH NON-FUSED DISCONNECT SWITCH IF APPROVED BY LOCAL AUTHORITIES.
12. RTU TO BE CONTROLLED BY RTU BOARD AND SLIDER THERMOSTAT.
13. ALL DUCTWORK TO BE MOUNTED TIGHT TO BAR JOISTS, AND IN NO CIRCUMSTANCE LESS THAN 15'-0" A.F.F. UNLESS OTHERWISE NOTED.
14. CONDENSATE DRAIN INSULATION. INSULATE ALL HORIZONTAL CONDENSATE DRAIN PIPING WITHIN THE BUILDING WITH 3/8" WALL THICKNESS ARMAFLEX TYPE INSULATION.
15. MOUNT THERMOSTATS AT 48" A.F.F. UNLESS OTHERWISE NOTED. THERMOSTATS LOCATED ON AN OUTSIDE WALL SHALL BE MOUNTED ON AN INSULATED BASE.

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Kroger L-292
Terry Lane and Greenwood Road
LOUISVILLE, KY
FOR:
The Kroger Company
1014 Vine Street
Cincinnati, OH 45202

REVISIONS

SHEET TITLE
HVAC - SCHEDULES, NOTES & DETAILS

DATE
09-27-06

PROJECT NUMBER
06-378

SHEET NUMBER
H3.1
OF 3