

NEW ROOFTOP UNIT SCHEDULE																												D361		
Mk	DESCRIPTION AREA SERVED	MANUF. & MODEL No.	SUPPLY FAN			COOLING						CONDENSING						HEATING						FILTERS No.	WT LBS	EER	FULL LOAD AMPS	REMARKS/MODEL #	CONTROLS BOARD	SUPPLIED BY
			CFM	ESP (w/c)	HP	TTL (MBH)	SENS (MBH)	E.A.T.		L.A.T.	COMPRESSOR	CONDENSER		RPM	MBH IN	MBH OUT	CFM	E.A.T. °F	L.A.T. °F											
								°F DB	°F WB			°F DB	°F WB							HP EACH	FANS	HP EACH								
RTU-1,2,3,4	SALES	AAON RN-020	8,000	0.5	10.0	246.2	191.2	77.2	65.3	54.8	54.7	2	-	2	0.75	1080	540	432	8,000	55.0	105.0	4	BALANCE AIR	460/3/60	2770	12	52	RN-020-3-0-BA02-2C2	CPC	KROGER
RTU-5	VEST	AAON RQ-005	2,000	0.25	2.0	58.9	50.3	75.8	62.7	52.2	52.1	1	-	1	0.33	1080	100.0	81.0	2,000	69.4	106.9	2	BALANCE AIR	460/3/60	870	11.6	12	RQ-005-3-V-CA01-232:	CPC	KROGER
RTU-6,8	OFFICE RECYCLING	AAON RQ-003	1,200	0.25	1.0	34.4	29.6	76.2	63.1	53.1	53.0	1	-	1	0.17	830	60.0	48.6	1,200	67.0	104.5	2	BALANCE AIR	460/3/60	750	12.1	10	RQ-003-3-V-CA01-212:	CPC	KROGER
* PROVIDE AND INSTALL R.A. DUCT SMOKE DETECTOR FOR RTU-1,2,3,4																														

1) PROVIDE AND INSTALL R.A. DUCT SMOKE DETECTOR FOR RTU-1,2,3,4

NEW CURB SCHEDULE – RTU						D361
RTU No	AREA LOCATION	AXON BOX SIZE	CURB DESCRIPTION	CURB WEIGHT	SUPPLIED BY	
RTU-5,6,8	VESTIBULE OFFICE/RECYCL	R0 CABINET	ADJUSTABLE PITCH SOLID BOTTOM	141 LBS	BY GC	

NEW UNIT HEATER SCHEDULE													D361
UH No	AREA LOCATION	MODEL	INPUT HEATING CAPACITY BTUH	OUTPUT HEATING CAPACITY BTUH	FAN MOTOR HP	FAN MOTOR RPM	VOLTAGE	FLA	MOP	CONDENSATE PER HOUR (GAL)	WEIGHT	SUPPLIED BY	
UH-1 – 3	DELIVERY DOCK BACK ROOM	REZNOR UEAS-180	175,000	159,250	1/4	1,050	115/1	6.3	15	1.0	245	GC	

1) UNIT HEATER PROVIDED AND INSTALLED BY GC/MC

ELECTRIC AIR CURTAIN SCHEDULE							D361
Mk No	AREA LOCATION	MANUFACTURER	VOLTAGE	HP	KW	AMPS	
EAC-1/2	VESTIBULE	MARS AIR SYSTEM MODEL: LPV264-SE	460/3/60	2 – 1/6 HP	16/20	77/96	

NEW SPLIT SYSTEM SCHEDULE											D361
Mk No	AREA LOCATION	MANUFACTURER	UNIT DESCRIPTION	VOLTAGE	SEER	SUPPLIED BY:	KROGER UNIT P-NET No	KROGER CURB P-NET No			
CU-1 ACU-1	ECR ROOM	DAIKIN INDOOR UNIT PKA-A36HAL OUTDOOR UNIT PU-Y-A36NH4B	3.0 TON COOLING ONLY SPLIT SYSTEM, R410A SYSTEM WITH ROOF MOUNTED OUTDOOR UNIT AND WALL MOUNTED INDOOR UNIT. LOW AMBIENT KIT INCLUDED. OPERATES DOWN TO 0°F DEG F. PROVIDE ALL WIRING, CONDENSATE DRAIN, CONDENSATE PUMP MODEL SP700-230, AND CONNECTIONS. INSTALL PER MFGS REQ'S.	208/1/60	14.0	GC	----	----			
CU-2 ACU-2	WINE ROOM	DAIKIN INDOOR UNIT PL-A12B4A OUTDOOR UNIT PU-Y-A12NH4A	1.0 TON COOLING ONLY SPLIT SYSTEM, 4-WAY IN CEILING CASSETTE, R410A SYSTEM WITH ROOF MOUNTED OUTDOOR UNIT AND CEILING MOUNTED INDOOR UNIT. LOW AMBIENT KIT INCLUDED. OPERATES DOWN TO 0°F DEG F. PROVIDE ALL WIRING, CONDENSATE DRAIN, CONDENSATE PUMP MODEL SP700-230, AND CONNECTIONS. INSTALL PER MFGS REQ'S.	208/1/60	9.5	GC	----	----			

1) SPLIT SYSTEM USES PURON (R-410A) REFRIGERANT.  
2) SPLIT SYSTEM C/W CONDENSATE PUMP PROVIDED BY KROGER AND INSTALLED BY GC/MC.

NEW EXHAUST FAN/ HOOD SCHEDULE																D361	
Mk	HOOD MANUF. & MODEL No.	HOOD K-NUMBER	EXHAUST FAN MANUF. & MODEL No.	AREA SERVED	FOR UNIT	FAN K-NUMBER	CFM	SP WC	MOTOR VOLT	CONTROL	LOCATION	DRIVE	CURB	CURB P-NET # 060-000-	REMARKS	SUPPLIED BY	
EF-1	CAPTIVE AIRE 6024ND	0002301	CAPTIVE AIRE NCA10FA	DELI PREP	----	0002374	1,400	0.34	.5	208V/3ø/1.8	AUTO	ROOF	BELT	ARC3/VE	BY GC	NEW EXHAUST FAN	KROGER
EF-2	CAPTIVE AIRE 6024ND	0002309	CAPTIVE AIRE NCA14FA	DELI PREP	----	0002379	2,100	0.4	.5	208V/3ø/1.8	AUTO	ROOF	BELT	ARC3/VE	BY GC	NEW EXHAUST FAN	KROGER
EF-3			CAPTIVE AIRE NCA14HFA	RACK OVEN	B1090	0002386	690	1.2	.5	115V/1ø/8.0	AUTO	ROOF	BELT	ARC3/VE	BY GC	NEW EXHAUST FAN	KROGER
EF-4			CAPTIVE AIRE NCA12HFA	PUBLIC/EMPLOYEE RESTROOM		0002356	400	.12	.18	115V/1ø/2.0	TIMER	ROOF	DIRECT	ARC3/CA	BY GC	NEW EXHAUST FAN	KROGER
EF-5			CAPTIVE AIRE DR12HFA	SEAFOOD		0002356	600	.12	.18	115V/1ø/2.0	SWITCH	ROOF	DIRECT	ARC3/CA	BY GC	NEW EXHAUST FAN	KROGER
EF-6			CAPTIVE AIRE DR30HFA	BOTTLE RETURN/JC		0002355	950	.12	.25	115V/1ø/4.0	TIMER	ROOF	DIRECT	ARC3/CA	BY GC	NEW EXHAUST FAN	KROGER
EF-7	CAPTIVE AIRE 6024ND	0002345	CAPTIVE AIRE NCA18HFFA	CHAR-BROIL GRILLE	----	0016928	2,000	1.0	.75	208V/3ø/2.7	AUTO	ROOF	BELT	ARC3/VE	BY GC	NEW EXHAUST FAN	KROGER

1) MAKE-UP AIR FOR BALANCE OF EXHAUST AIR REQUIRED FROM EXISTING RTU'S.  
2) GC TO PROVIDE HEAT SWITCH FOR ALL TYPE 1 HOOD FANS.  
3) INTERLOCK EF-6 WITH RTU-8 S.A. FAN

AIR BALANCE SCHEDULE							D361
UNIT TAG	DESCRIPTION	SUPPLY AIR CFM	OUTSIDE AIR CFM	RETURN AIR CFM	EXHAUST AIR CFM	BUDO PRESSURE CFM	% OUTSIDE AIR
RTU-1	SALES 20 TON	8,000	2,000	6,000		+ 2,000	25 %
RTU-2	SALES 20 TON	8,000	2,000	6,000		+ 2,000	25 %
RTU-3	SALES 20 TON	8,000	2,000	6,000		+ 2,000	25 %
RTU-4	SALES 20 TON	8,000	2,000	6,000		+ 2,000	25 %
RTU-5	VEST 5 TON	2,000	200	1,800		+ 200	10 %
RTU-6	OFFICE 3 TON	1,200	300	900		+ 300	25 %
RTU-8	RECYCLING 3 TON	1,200	100	1,100		+ 100	8 %
EF-1	DELI KITCHEN HOOD (H-1)				1,400	-1,400	
EF-2	DELI KITCHEN HOOD (H-2)				2,100	-2,100	
EF-3	RACK OVEN				690	-690	
EF-4	EMPL/PUBLIC RESTROOMS				625	-625	
EF-5	SEAFOOD				600	-600	
EF-6	BOTTLE RET. EXHAUST				900	-900	
EF-7	CHAR-BROIL GRILLE (H-3)				2,000	-2,000	
TOTALS		36,400	6,600	27,800	8,315	+ 285	

NEW SA/RA GRILLE SCHEDULE										D361
Mk	AIR TYPE	MFG BY	DESCRIPTION	LOCATION	FACE SIZE	NECK SIZE	AIR FLOW design			
S.A.-1	SUPPLY	PRICE	SERIES SCD DIFFUSER SIZED 24 x 24 – WHITE POWDER COAT, STEEL CONSTRUCTION, 3 CONCENTRIC CONES	VEST	24 x 24	14	1000-	1200	.09	
S.A.-2	SUPPLY	PRICE	SERIES SCD DIFFUSER SIZED 24 x 24 – WHITE POWDER COAT, STEEL CONSTRUCTION, 3 CONCENTRIC CONES	SALES	24 x 24	8	180-	300	.05	
S.A.-3	SUPPLY	PRICE	SERIES SCD DIFFUSER SIZED 12 x 12 – WHITE POWDER COAT, STEEL CONSTRUCTION, 3 CONCENTRIC CONES	TLT	12 x 12	6	50-	150	.07	
S.A.-4	SUPPLY	PRICE	SERIES SDO SPIRAL DUCT GRILLE SIZED 10 x 6 – WHITE POWDER COAT, STEEL CONSTRUCTION	MEZZ	10 x 6	10 x 6	250-	350	.05	
S.A.-5	SUPPLY	PRICE	SERIES POC PERFORATED DIFFUSER SIZED 24 x 24 – WHITE POWDER COAT, STEEL CONSTRUCTION	DELI PREP	24 x 24	10	300-	500	.06	
S.A.-6	SUPPLY	PRICE	ACQUATHERM THERMA-FUSER, MODEL TF-HC, VAV DIFFUSER W/THERMOSTAT, ACTUATOR AND DAMPER	PHARMACY COUNSELLING	24 x 24	6	50-	150	.06	
R.A.-1	RETURN	PRICE	SERIES PDOR GRILLE SIZED 24 x 24 – PERFORATED GRILLE, SQUARE	PHARMACY	24 x 24	22 x 22	500-	2000	.04	
R.A.-2	RETURN	PRICE	SERIES PDOR GRILLE SIZED 12 x 12 – PERFORATED GRILLE, SQUARE	SEAFOOD RESTROOM	12 x 12	8ø	50-	200	.03	
R.A.-3	RETURN	PRICE	SERIES 530 LOUVERED FACE GRILLE SIZED 12 x 8	MEZZANINE	12 x 8	12 x 8	300		.09	
S.A./R.A.-1	SUPPLY RETURN	RUSKIN	SERIES CDS-60 CONCENTRIC DIFFUSER SIZED 59 x 59 – SOE DISCHARGE	SALES	59 x 59	(2)48 x 24	7000-	9000	.08	

1) GC/HVAC CONTRACTOR TO SUPPLY ALL NEW DIFFUSERS. VERIFY TYPES, INSTALL  
MODE, COLOR, ACCESSORIES, ETC PRIOR TO ORDER.

MECHANICAL SHEET INDEX			
SHEET No	DESCRIPTION		
MD1.1	HVAC DEMO PLAN		
M1.1	HVAC BUILDING PLAN		
M5.1	KROGER STANDARD MECHANICAL DETAILS		
M6.1	MECHANICAL NOTES AND SCHEDULES		

BULLETIN NO. 2

ADDENDUM NO. 1

BIDS & PERMITS

80% OWNER REVIEW

08-17-2016

07-10-2016

08-26-2016

08-22-2016

issued for:

PROPOSED INTERIOR REMODEL FOR:

Kroger

STORE NO. D-361

425 N. CENTER STREET  
NORTHVILLE, MI 48167

THE KROGER CO. OF MICHIGAN

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project no.

15100

sheet no.

M6.1

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