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Store No.: R543 KMA: MID ATLANTIC
DESIGN AMBIENT: 95 VOLTAGE: 460V / 3PH
BY: E. RUWE DATE 9/4/18 F1 DATE 8/30/18

Unit A

UNIT	CKT	L	W	H	CASE/COIL MODEL	DESCRIPTION	DEPT	STAT	ePRO ITEM	EVAP TEMP	LOAD (MBH)	EEV CONTROL	DEFROST #/DAY	DEFROST TYPE	REFRIG	TOTAL LOAD
A															R407A	
	1A	56'-5"	19	10	MLT4330S(EEV)	1/4 FREEZER W/ (19) DOORS	GROC.	NEW	K-0060907	-20	23.0	AKV 10-6		EL/TEMP		
	1B				MLT4330S(EEV)	1/4 FREEZER W/ (19) DOORS	GROC.	NEW		-20	23.0	AKV 10-6		EL/TEMP		
	1C				MLT4330S(EEV)	1/4 FREEZER W/ (19) DOORS	GROC.	NEW		-20	23.0	AKV 10-6		EL/TEMP		
	1D				MLT4330S(EEV)	1/4 FREEZER W/ (19) DOORS	GROC.	NEW		-20	23.0	AKV 10-6		EL/TEMP		
	2	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	3	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	4	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	5A	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	5B	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	5C	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	6	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	7	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	8	1	QTY		RLN(IC-E-LED2)-2	2 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	2.1	AKV 10-1	1	EL/TEMP		
	9A	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	9B	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	9C	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	GROC.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
																138.6

DISTRIBUTED UNIT INFORMATION

NEW DISTRIBUTED UNIT Without Sound Attenuation Kit
Configuration: Vertical
Reclaim: Air, See RISD-12A
Controller: Danfoss AK-SM 880, Serving Unit A & Unit B Circuits 2-5 & 7-9
Compressor Voltage: 460V

All case & cooling coil electric to be case controlled and fed from building electric panels.
Condenser to be fed from distributed unit

Unit MOPD: *90A
*Overcurrent protection sizing is preliminary
Final sizing to be obtained from OEM's application sheets

Suction Temperature: -23° Midpoint, -18.5° Dewpoint (9.2 PSIG Setpoint)
Condensing Temperature: 105° Midpoint

COMPRESSOR	HP	SUCT TEMP	CAPACITY	THR	PERCENT LOADED
ZFD25KVE Digital, Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
			181.1	265.1	75.5%

HEAT RECLAIM COIL DESIGN DATA
Mass Flow: 2358 lb's/hr
Derated THR: 142.5 Mbh
See R543R1.2 drawing for connection sizing

NEW 460V Air Cooled Condenser with Receiver & Valve Package
HUSSMANN LAVF-22310, 29.28 mbh/deg td capacity, 68 circuits
10 Degree Set Point / Operating TD

NEMA 1 VFD: Danfoss 178U1692 (K-0060166)

Prefabricated Pipe Box - (AES Industries 42492)
Condenser Equipment Support - Quantity (2) - (AES Industries 42447)

Unit B

UNIT	CKT	L	W	H	CASE/COIL MODEL	DESCRIPTION	DEPT	STAT	ePRO ITEM	EVAP TEMP	LOAD (MBH)	EEV CONTROL	DEFROST #/DAY	DEFROST TYPE	REFRIG	TOTAL LOAD
B															R407A	
	1A	1318	SQ FT	10	LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW	K-0060909	26	15.4	AKV 10-5		OT/TIME		
	1B				LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW		26	15.4	AKV 10-5		OT/TIME		
	1C				LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW		26	15.4	AKV 10-5		OT/TIME		
	1D				LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW		26	15.4	AKV 10-5		OT/TIME		
	1E				LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW		26	15.4	AKV 10-5		OT/TIME		
	1F				LCA6135S(EEV)	1/6 COOLER W/ (28) DOORS	DAIRY	NEW		26	15.4	AKV 10-5		OT/TIME		
	2A	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	2B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	2C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	3A	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	3B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	3C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	3D	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	DAIRY	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	4A	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	DAIRY	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	4B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	4C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	4D	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	5A	1	QTY		DD5NX-L-6	6' FIVE DECK LOW FRONT WITH DOORS	BEV	NEW		32	1.6	(2) AKV 10-1	1	OT/TIME		
	5B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	5C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	5D	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	5E	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	5F	1	QTY		DD5NX-L-6	6' FIVE DECK LOW FRONT WITH DOORS	BEV.	NEW		32	1.6	(2) AKV 10-1	1	OT/TIME		
	6A	1	QTY		D5XLEP-12	12' FIVE DECK, LOW FRONT	PROD.	NEW		26	15.2	(3) AKV 10-3	3	OT/TIME		
	6B	1	QTY		D5XLEP-12	12' FIVE DECK, LOW FRONT	PROD.	NEW		26	15.2	(3) AKV 10-3	3	OT/TIME		
	6C	1	QTY		D5XLEP-12	12' FIVE DECK, LOW FRONT	PROD.	NEW		26	15.2	(3) AKV 10-3	3	OT/TIME		
	6D	1	QTY		D5XLEP-12	12' FIVE DECK, LOW FRONT	PROD.	NEW		26	15.2	(3) AKV 10-3	3	OT/TIME		
	7	1	QTY		DD5XLP-6	6' FIVE DECK WITH DOORS	DELI	NEW		32	1.6	(2) AKV 10-1	1	OT/TIME		
	8A	1	QTY		DD5XLP-6	6' FIVE DECK WITH DOORS	PROD.	NEW		32	1.6	(2) AKV 10-1	1	OT/TIME		
	8B	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	PROD.	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	8C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	PROD.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	8D	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	PROD.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	8E	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	PROD.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	8F	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	PROD.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	9A	1	QTY		DD5NX-L-6	6' FIVE DECK LOW FRONT WITH DOORS	SS BEV.	NEW		32	1.6	(2) AKV 10-1	1	OT/TIME		
	9B	1	QTY		DD5NX-L-12	12' FIVE DECK LOW FRONT WITH DOORS	SS BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	9C	1	QTY		DD5NX-L-12	12' FIVE DECK LOW FRONT WITH DOORS	SS BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	9D	1	QTY		DD5NX-L-12	12' FIVE DECK LOW FRONT WITH DOORS	SS BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	9E	1	QTY		DD5NX-L-12	12' FIVE DECK LOW FRONT WITH DOORS	SS BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	9F	1	QTY		DD5NX-L-8	8' FIVE DECK LOW FRONT WITH DOORS	SS BEV	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	10A	1	QTY		IM-04-IN6-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV	NEW		26	6.6	(2) AKV 10-2	6	OT/TIME		
	10B	1	QTY		IM-04-IN10-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV.	NEW		28	8.3	(2) AKV 10-2	6	OT/TIME		
	10C	1	QTY		IM-04-IN10-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV	NEW		26	8.3	(2) AKV 10-2	6	OT/TIME		
	11A	1	QTY		IM-04-IN8-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV.	NEW		28	6.6	(2) AKV 10-2	6	OT/TIME		
	11B	1	QTY		IM-04-IN6-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV	NEW		26	5.7	(2) AKV 10-2	6	OT/TIME		
	11C	1	QTY		IM-04-IN6-R(BEV)	NARROW MULTI-DECK SELF SERVICE END	BEV.	NEW		28	5.7	(2) AKV 10-2	6	OT/TIME		
	12A	1	QTY		FL5NX-LEP-12	12' MULTI DECK, LOW FRONT, NARROW	FLOR.	NEW		26	15.8	(3) AKV 10-3	3	OT/TIME		
	12B	1	QTY		FL5NX-LEP-12	12' MULTI DECK, LOW FRONT, NARROW	FLOR.	NEW		28	15.9	(3) AKV 10-3	3	OT/TIME		
	13	11'-11"	8'-6"	9	ACM080S(EEV)	COOLER	FLOR.	NEW	K-0060919	29	8.6	AKV 10-4		OT/TIME		
	14A	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	14B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	14C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	14D	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	DAIRY	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	15A	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	BEV	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	15B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	15C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	15D	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV.	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	15E	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	BEV	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	16	300	SQ FT		LFA120S	PREP	MEAT	NEW	K-0060912	30	18.0	AKV 10-6		OT/TIME		
	17A	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	MEAT	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	17B	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	MEAT	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	17C	1	QTY		DD5XLP-12	12' FIVE DECK WITH DOORS	MEAT	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	17D	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	MEAT	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	17E	1	QTY		DD5XLP-8	8' FIVE DECK WITH DOORS	MEAT	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	18A	47'-4"	19'-7"	10	LFA230S	1/2 COOLER	PROD.	NEW	K-0060917	26	24.7	AKV 10-6		OT/TIME		
	18B				LFA230S	1/2 COOLER	PROD.	NEW		26	24.7	AKV 10-6		OT/TIME		
																428.2

NEW DISTRIBUTED UNIT Without Sound Attenuation Kit
Configuration: Vertical
Reclaim: Air, See RISD-12A
Controller: Danfoss AK-SM 880, Serving Unit B Circuits 1, 6 & 10-18
Compressor Voltage: 460V

All case & cooling coil electric to be case controlled and fed from building electric panels.
Condenser to be fed from distributed unit

Unit MOPD: *125A
*Overcurrent protection sizing is preliminary
Final sizing to be obtained from OEM's application sheets

Suction Temperature: 24° Midpoint, 29.5° Dewpoint (53 PSIG Setpoint)
Condensing Temperature: 110° Midpoint

COMPRESSOR	HP	SUCT TEMP	CAPACITY	THR	PERCENT LOADED
ZFD25KVE Digital, Economized Max*			83.3	109.2	
ZF25KVE Economized Max*			83.3	109.2	
ZF25KVE Economized Max*			83.3	109.2	
ZF25KVE Economized Max*			83.3	109.2	
ZF25KVE Economized Max*			83.3	109.2	
ZF25KVE Economized Max*			83.3	109.2	
			499.8	665.3	85.7%

HEAT RECLAIM COIL DESIGN DATA
Mass Flow: 7350 lb's/hr
Derated THR: 327.6 Mbh
See R543R1.2 drawing for connection sizing

NEW 460V Air Cooled Condenser with Receiver & Valve Package
HUSSMANN LAVF-23310, 43.92 mbh/deg td capacity, 66 circuits
15 Degree Set Point / Operating TD

NEMA 1 VFD: Danfoss 178U2582 (K-0060166)

Prefabricated Pipe Box - (AES Industries 42492)
Condenser Equipment Support - Quantity (2) - (AES Industries 42448)

Unit C

UNIT	CKT	L	W	H	CASE/COIL MODEL	DESCRIPTION	DEPT	STAT	ePRO ITEM	EVAP TEMP	LOAD (MBH)	EEV CONTROL	DEFROST #/DAY	DEFROST TYPE	REFRIG	TOTAL LOAD
C															R407A	
	1A	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	1B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	1C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	1D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	1E	1	QTY		RLN(LT-E-LED2)-3	3 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	2.9	AKV 10-2	1	EL/TEMP		
	2A	1	QTY		RLN(LT-E-LED2)-3	3 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	2.9	AKV 10-2	1	EL/TEMP		
	2B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2E	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	GROC.	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	3A	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	3B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	3C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	3D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	3E	1	QTY		RLN(LT-E-LED2)-3	3 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	2.6	AKV 10-2	1	EL/TEMP		
	4A	1	QTY		RLN(LT-E-LED2)-3	3 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	2.6	AKV 10-2	1	EL/TEMP		
	4B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	4C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	4D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	4E	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	5A	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	AKV 10-2	1	EL/TEMP		
	5B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	4.3	[illegible]	[illegible]	[illegible]		
	5C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	[illegible]	[illegible]	1	EL/TEMP		
	5D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		[illegible]	[illegible]	[illegible]	1	EL/TEMP		
	6A	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		[illegible]	4.3	[illegible]	1	EL/TEMP		
	6B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		[illegible]	4.3	[illegible]	1	EL/TEMP		
	6C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	[illegible]	AKV 10-2	1	EL/TEMP		
	6D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW, BACK-TO-BACK	GROC.	NEW		-11	[illegible]	AKV 10-2	1	EL/TEMP		
																116.3

NEW DISTRIBUTED UNIT Without Sound Attenuation Kit
Configuration: Vertical
Reclaim: Water, See RISD-12B
Controller: Danfoss AK-SM 880, Serving Unit C
Compressor Voltage: 460V

All case & cooling coil electric to be case controlled and fed from building electric panels.
Condenser to be fed from distributed unit

Unit MOPD: [illegible]A
*Overcurrent protection sizing is preliminary
Final sizing to be obtained from OEM's application sheets

Suction Temperature: -14° Midpoint, -9.7° Dewpoint ([illegible]5.1 PSIG Setpoint)
Condensing Temperature: 105° Midpoint

COMPRESSOR	HP	SUCT TEMP	CAPACITY	THR	PERCENT LOADED
ZFD25KVE Digital, Economized 50°			38.0	56.3	
ZF25KVE Economized 50°			38.0	56.3	
ZF25KVE Economized 50°			38.0	56.3	
ZF25KVE Economized 50°			38.0	56.3	
			152.0	225.1	77.8%

NEW 460V Air Cooled Condenser with Receiver & Valve Package
HUSSMANN LAVF-22310, 29.28 mbh/deg td capacity, 68 circuits
10 Degree Set Point / Operating TD

NEMA 1 VFD: Danfoss 178U1692 (K-0060166)

Prefabricated Pipe Box - (AES Industries 42492)
Condenser Equipment Support - Quantity (2) - (AES Industries 42447)

Unit D

UNIT	CKT	L	W	H	CASE/COIL MODEL	DESCRIPTION	DEPT	STAT	ePRO ITEM	EVAP TEMP	LOAD (MBH)	EEV CONTROL	DEFROST #/DAY	DEFROST TYPE	REFRIG	TOTAL LOAD
D															R407A	
	1A	1	QTY		FWE(DT-E)	WIDE ISLAND END , DUAL TEMP	MEAT	NEW		-20	2.1	AKV 10-1	1	EL/TEMP		
	1B	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	1C	1	QTY		FWE(DT-E)	WIDE ISLAND END , DUAL TEMP	MEAT	NEW		-20	2.1	AKV 10-1	1	EL/TEMP		
	1D	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	2A	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	MEAT	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2B	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	MEAT	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2C	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	MEAT	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	2D	1	QTY		RLN(LT-E-LED2)-5	5 DOOR G.D., LOW TEMP, NARROW	MEAT	NEW		-11	4.8	AKV 10-3	1	EL/TEMP		
	3A	1	QTY		FWE(DT-E)	WIDE ISLAND END , DUAL TEMP	MEAT	NEW		-20	2.1	AKV 10-1	1	EL/TEMP		
	3B	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	3C	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	3D	1	QTY		FWE(DT-E)	WIDE ISLAND END , DUAL TEMP	MEAT	NEW		-20	2.1	AKV 10-1	1	EL/TEMP		
	3E	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	3F	1	QTY		FW(DT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, DUAL TEMP	MEAT	NEW		-20	3.1	AKV 10-2	1	EL/TEMP		
	4	1	QTY		FN-L(FF-E)-12	12' NARROW ISLAND DISPLAY W/UDS	SEAF.	NEW		-12	2.3	AKV 10-1	1	EL/TEMP		
	5	1	QTY		RLN(IC-E-LED2)-5	5 DOOR G.D., ICE CREAM TEMP, NARROW	BAK.	NEW		-19	5.3	AKV 10-3	1	EL/TEMP		
	6	19'-10"	12	9	MLT4220S(EEV)	FREEZER	BAK.	NEW	K-0060898	-20	19.3	AKV 10-6		EL/TEMP		
	7	10'-2"	10'-2"	9	MLT4165S(EEV)	FREEZER	DELI	NEW	K-0060902	-20	10.5	AKV 10-4		EL/TEMP		
																83.9

NEW DISTRIBUTED UNIT Without Sound Attenuation Kit
Configuration: Vertical
Reclaim: Air, See RISD-12A
Controller: Danfoss AK-SM 880, Serving Units D & E
Compressor Voltage: 460V

All case & cooling coil electric to be case controlled and fed from building electric panels
Condenser to be fed from distributed unit

Unit MOPD: *70A
*Overcurrent protection sizing is preliminary
Final sizing to be obtained from OEM's application sheets

Suction Temperature: -23° Midpoint, -18.8° Dewpoint (9.2 PSIG Setpoint)
Condensing Temperature: 105° Midpoint

COMPRESSOR	HP	SUCT TEMP	CAPACITY	THR	PERCENT LOADED
ZFD25KVE Digital, Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
ZF25KVE Economized 50°			30.2	47.5	
			120.7	190.0	69.5%

HEAT RECLAIM COIL DESIGN DATA
Mass Flow: 1572 lb's/hr
Derated THR: 95.0 Mbh
See R543R1.2 drawing for connection sizing

NEW 460V Air Cooled Condenser with Receiver & Valve Pack[illegible]
HUSSMANN LAVF-22210, 20.71 mbh/deg td capacity, 68 cir[illegible]
10 Degree Set Point / Operating TD

NEMA [illegible]: Danfoss 178U1692 (K-0[illegible]166)

Prefabricated Pipe Box - (AES [illegible]s 42492)
Condenser Equipment Suppo[illegible] (2) - (AES In[illegible] 42447)

Unit E

UNIT	CKT	L	W	H	CASE/COIL MODEL	DESCRIPTION	DEPT	STAT	ePRO ITEM	EVAP TEMP	LOAD (MBH)	EEV CONTROL	DEFROST #/DAY	DEFROST TYPE	REFRIG	TOTAL LOAD
E															R407A	
	1A	731	SQ FT	10	LFAE190S(EEV)	1/2 COOLER	MEAT	NEW	K-0060910	20	17.0	AKV 10-6		EL/TEMP		
	1B				LFAE270S(EEV)	1/2 COOLER	MEAT	NEW		20	25.5	AKV 10-6		EL/TEMP		
	2A	1	QTY		FWE(MT-E)	WIDE ISLAND END , MED TEMP	DAIRY	NEW		19	1.3	AKV 10-1	1	EL/TEMP		
	2B	1	QTY		FW(MT-E)-8(1/2)	(1/2) - 8' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	1.8	AKV 10-1	1	EL/TEMP		
	2C	1	QTY		FW(MT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	2.4	AKV 10-1	1	EL/TEMP		
	2D	1	QTY		FWE(MT-E)	WIDE ISLAND END , MED TEMP	DAIRY	NEW		19	1.3	AKV 10-1	1	EL/TEMP		
	2E	1	QTY		FW(MT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	2.4	AKV [illegible]	1	EL/TEMP		
	2F	1	QTY		FW(MT-E)-8(1/2)	(1/2) - 8' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	1.8	AKV 10-1	1	EL/TEMP		
	3A	1	QTY		FWE(MT-E)	WIDE ISLAND END , MED TEMP	DAIRY	NEW		19	1.3	AKV 10-1	1	EL/TEMP		
	3B	1	QTY		FW(MT-E)-8(1/2)	(1/2) - 8' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	1.8	AKV 10-1	1	EL/TEMP		
	3C	1	QTY		FW(MT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	[illegible]	AKV 10-1	1	EL/TEMP		
	3D	1	QTY		FWE(MT-E)	WIDE ISLAND END , MED TEMP	DAIRY	NEW		[illegible]	[illegible]	[illegible]	1	[illegible]		
	3E	1	QTY		FW(MT-E)-12(1/2)	(1/2) - 12' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	2.4	[illegible]	1	[illegible]		
	3F	1	QTY		FW(MT-E)-8(1/2)	(1/2) - 8' WIDE ISLAND, MED TEMP	DAIRY	NEW		19	1.8	[illegible]	1	[illegible]		
	4A	1	QTY		Q3-SS-12	SELF SERVICE MULTI-DECK	DELI	NEW		20	10.2	[illegible]	4	OT/TIME		
	4B	1	QTY		Q3-SS-6	SELF SERVICE MULTI-DECK	DELI	NEW		20	5.1	AKV [illegible]	4	OT/TIME		
	5	1	QTY		Q2-SS-12	SELF SERVICE MULTI-DECK	DELI	NEW		22	7.7	AKV [illegible]	4	OT/TIME		
	6	11'-8"	10'-1"	10	ECM130S(EEV)	COOLER	MEAT	NEW	[illegible]	20	10.1	AKV [illegible]		EL/TEMP		
	7A	1	QTY		M5XEP(LED)-8	8' FIVE DECK	SEAF	NEW		28	10.9	(2) AKV [illegible]	4	OT/TIME		
	7B	1	QTY		M5XEP(LED)-8	8' FIVE DECK	SEAF.	NEW		26	10.9	(2) AKV [illegible]	4	OT/TIME		
	8	1	QTY		DSFM-12	12' SERVICE	SEAF	NEW		24	5.6	AKV [illegible]	3	OT/TIME		
	9A	1	QTY		Q3-MS-12 (GRAV)	SERVICE SINGLE-DECK GRAVITY COIL (NO SHELF)	MEAT	NEW		[illegible]	1.2	AKV [illegible]	1	OT/TIME		
	9B	1	QTY		Q3-MS-12 (SERP)	SERVICE SINGLE-DECK SERPENTINE COIL (NO SHELF)	MEAT	NEW		[illegible]	1.8	AKV [illegible]	1	OT/TIME		
	10A	1	QTY		M5XEP(LED)-12	12' FIVE DECK	MEAT	NEW		[illegible]	16.4	(3) AK[illegible]	4	OT/TIME		
	10B	1	QTY		M5XEP(LED)-8	8' FIVE DECK	MEAT	NEW		[illegible]	10.9	(2) AKV 10-3	4	OT/TIME		
	11A	958	SQ FT		LFA120S(EEV)	1/2 PREP	PROD.	NEW	K-0060918	[illegible]	[illegible]	AKV 10-6		OT/TIME		
	11B				LFA120S(EEV)	1/2 PREP	PROD.	NEW		35	[illegible]	AKV 10-6		OT/TIME		
	12	7'-10"	7'-10"	10	ACM076S(EEV)	RETARDER	BAK.	NEW	K-00[illegible]901	26	[illegible]	AKV 10-4		OT/TIME		
	13	1	QTY		DD5NX-L-8	8' FIVE DECK LOW FRONT W[illegible]OORS	DELI	NEW		32	2.2	(2) AKV 10-1	1	OT/TIME		
	14A	1	QTY		Q3-SS-8	SELF SERVICE MULTI-DECK	DELI.	NEW		20	6.6	AKV 10-4	4	OT/TIME		
	14B	1	QTY		Q3-SS-8	SELF SERVICE MULTI-DECK	DELI	NEW		20	6.8	AKV 10-4	4	OT/TIME		
	14C	1	QTY		Q3-SS-6	SELF SERVICE MULTI-DECK	DELI	NEW		20	5.1	AKV 10-3	4	OT/TIME		
	15A	1	QTY		IM-04-C12-R(DELI) 1/2	(1/2) 12' UNI[illegible]ED MULTI-DECK IS[illegible]ND	[illegible]	NEW		26	6.3	(3) AKV 10-2	6	OT/TIME		
	15B	1	QTY		IM-04-C12-R(DELI) 1/2	(1/2) 12[illegible]ED MULTI-DECK IS[illegible]ND	[illegible]	[illegible]		26	6.3	(3) AKV 10-2	6	OT/TIME		
	16A	1	QTY		DD5XLP-12	12' FIVE [illegible] WITH DOORS	[illegible]	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	16B	1	QTY		DD5XLP-12	12' FIVE [illegible]H DOORS	DELI	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	16C	1	QTY		DD5XLP-12	12' FIVE DE[illegible]OORS	DELI	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	16D	1	QTY		DD5XLP-[illegible]	12' FIVE DECK [illegible]RS	DELI	NEW		32	3.3	(3) AKV 10-1	1	OT/TIME		
	17	23'-8"	10'-6"	10	LFA1[illegible]	COOLER	DELI	NEW	K-0060904	26	18.5	AKV 10-6	1	OT/TIME		
	18	23'-7"	11'-5"	10	LCA185S(E[illegible]	COOLER	DELI	NEW	K-0060504	28	19.2	AKV 10-6		OT/TIME		
	19A	1	QTY		BLF-59SR	[illegible] SERVICE	BAK.	NEW		20	5.7	AKV 10-3	4	OT/TIME		
	19B	1	QTY		BLF-59SR	[illegible]ERVICE	BAK.	NEW		20	5.7	AKV 10-3	4	OT/TIME		
	19C	1	QTY		BLF-59SR	SE[illegible]ICE	BAK.	NEW		20	5.7	AKV 10-3	4	OT/TIME		
	19D	1	QTY		BLF-59SR	SELF [illegible]	BAK.	NEW		20	5.7	AKV 10-3	4	OT/TIME		
	20	1	QTY		RBB-6	6' UPRIG[illegible] W/LED & REFRIG STORAGE	DELI.	NEW		26	10.1	AKV 10-4	4	OT/TIME		
	21A	1	QTY		[illegible]LPC-12R	12' SELF SE[illegible]	DELI.	NEW		26	7.8	AKV 10-4	6	OT/TEMP		
	21B	1	QTY		[illegible]LPC-6R	6' SELF SERVI[illegible]	DELI.	NEW		26	5.1	AKV 10-3	6	OT/TEMP		
	22	1	[illegible]		[illegible]BR-51-35	6' MULTI-DECK, 51	DELI.	NEW		22	4.4	AKV 10-3	4	OT/TIME		
	23	1	[illegible]		IM[illegible]-R-6 (MT)	6 FT. MULTI-DECK ISLAND	DELI.	NEW		25	6.4	AKV 10-4	6	OT/TIME		
	24	1	[illegible]		E[illegible]DS-12	12' SERVICE	DELI.	NEW		20	4.3	AKV 10-2	2	OT/TEMP		
	25A	1	[illegible]		AA0[illegible]-29(1/4)	16' SALAD BAR WITH SOUP	DELI.	NEW		25	3.2	AKV 10-2	8	OT/TIME		
	25B	1	QTY		AA0[illegible]-29(1/4)	16' SALAD BAR WITH SOUP	DELI	NEW		25	3.2	AKV 10-2	8	OT/TIME		
	[illegible]C	1	Q[illegible]		[illegible]29(1/4)	16' SALAD BAR WITH SOUP	DELI.	NEW		25	3.2	AKV 10-2	8	OT/TIME		
	[illegible]	1	Q[illegible]		[illegible]29(1/4)	16' SALAD BAR WITH SOUP	DELI.	NEW		25	3.2	AKV 10-2	8	OT/TIME		
	[illegible]	1	Q[illegible]		[illegible]29-E	16' SALAD BAR WITH SOUP END	DELI.	NEW		25	2.0	AKV 10-1	8	OT/TIME		
	2[illegible]	[illegible]	QTY		PT[illegible]RS	10' SELF SERVICE W/R.R. STOR. (SUSHI)	SUSHI	NEW		24	6.9	AKV 10-4	4	OT/TIME		
	27	[illegible]	[illegible]	10	ECM090[illegible]EEV)	RAW COOLER	DELI.	NEW	K-0060903	20	9.2	AKV 10-4		EL/TEMP		
	28	1	[illegible]		IM-04-R-6 (MT)	6 FT. MULTI-DECK ISLAND	DELI.	NEW		25	4.5	AKV 10-3	6	OT/TIME		
																379.3

NEW DISTR[illegible]IT Without So[illegible]ttenuation Kit
Configuration: Verti[illegible]
Reclaim: Air, See R[illegible]
Controller: See Unit D
Compressor Voltage: 46[illegible]

All case & cooling coil electr[illegible]e controlled and fed from building electric pan[illegible]
Condenser to be[illegible] from distributed unit

Unit MOPD: *[illegible]
*Overcurre[illegible]tection sizing is preliminary
Fin[illegible] to be obtained from OEM's application sheets

[illegible]ction Temperature: 17° Midpoint, 21.5° Dewpoint (44.1 PSIG Setpoint)
Condensing Temperature: 110° Midpoint

COMPRESSOR	HP	SUCT TEMP	CAPACITY	THR	PERCENT LOADED
ZFD25KVE Digital, Economized Max*			73.4	98.5	
ZF25KVE Economized Max*			73.4	98.5	
ZF25KVE Economized Max*			73.4	98.5	
ZF25KVE Economized Max*			73.4	98.5	
ZF25KVE Economized Max*			73.4	98.5	
ZF25KVE Economized Max*			73.4	98.5	
			440.2	590.8	88.2%

HEAT RECLAIM COIL DESIGN DATA
Mass Flow: 6290 lb's/hr
Derated THR: 295.4 Mbh
See R543R1.2 drawing for connection sizing

NEW 460V Air Cooled Condenser with Receiver & Valve Package
HUSSMANN LAVF-23310, 43.92 mbh/deg td capacity, 66 circuits
15 Degree Set Point / Operating TD

NEMA 1 VFD: Danfoss 178U2582 (K-0060166)

Prefabricated Pipe Box - (AES Industries 42492)
Condenser Equipment Support - Quantity (2) - (AES Industries 42448)

GENERAL NOTES :

EQUIPMENT IS TO BE CONSIDERED (NEW) UNLESS NOTED OTHERWISE. THE FULL EXTENT OF EXISTING, NEW, AND/OR RELOCATED EQUIPMENT SHALL BE CONSIDERED THE COMPLETE RESPONSIBILITY OF THE KROGER ENGINEER.

INFORMATION FOR THIS PLAN WAS TAKEN FROM ARCHITECTURAL PLANS DATED AND KROGER PLANS DATED . ALL WORK MUST BE FIELD VERIFIED FOR ACTUAL CONDITIONS. CONTACT THE KROGER ENGINEER IF ANY DISCREPANCIES ARE FOUND.

THIS DRAWING IS [illegible] ONLY TO SHOW THE REQUIREMENTS OF THE KROGER CO. THE DESIGN [illegible]DING TO CONFORM TO ALL APPLICABLE LAWS, CODES, REGULATIONS, [illegible]ES AND APPROVAL OF THE INSPECTION AUTHORITIES HAVING JURISDICTION [illegible] THE RE[illegible]BILITY OF THE ARCHITECT EMPLOYED BY THE OWNER.

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NEW STORE
R-543
MERCURY BLVD.
HAMPTON,VA

CURRENT PLAN DATE: 9/4/2018
ORIGINAL PLAN DATE: 9/4/2018
DRAWN: E. RUWE
CHECKED:
REVISIONS:

STANDARD PLOTTED SCALE: 1/16"=1'-0"

BUILDING STATS:	
TOTAL SHELVING	3,303 LF
SALES AREA % OF GROSS BUILDING	73,890 SF 71 %
BASE STORE	95,423 SF
MEZZANINE	
DOCK / UTILITY	5,242 SF

GROSS BUILDING
104,824 SF

REFRIGERATION SCHEDULE

STEEL PACKAGE ID: Not Applicable

R-543

SHEET: R6.1

CAD FILE: R543R6.1.DWG