

# Order Plans @

Store: Harris Teeter # 289 Raleigh, NC		Modified Rack A		Ref: HFC-404a		Nameplate 208V MCA: 344 Amps		Nameplate 208V MOPD: 400 Amps		208/3													
Date: 6/20/2019						Calc'd 208V MCA: 343.0 Amps		Calc'd 208V MOPD: 400 Amps		208/3													
DESIGNATION				DEFROST				ELECTRICAL				EMIS				COMMENTS							
SYS #	SIZE	MODEL	TYPE	EVAP LOAD MBH	EVP TMP	DEF	CDS / EPR VALVE SIZE	FAN AMP	V/PH	LIGHT AMPS	ASH AMP	DEF AMP	V/PH	PQ (t/e)									
A1	15 DOORS	RL/Innovator I	ICE CREAM	20.55	-19	KG	SportII - 11/11								3/3	Existing To Remain							
A2	7 DOORS	RL/Innovator I	ICE CREAM	9.59	-19	KG	SportII - 09/09								2/2	Existing To Remain							
A3	7 DOORS	RL/Innovator I	ICE CREAM	9.59	-19	KG	SportII - 07/09								2/2	Existing To Remain							
A4	17 DOORS	RL/Innovator I	ICE CREAM	23.29	-19	KG	SportII - 11/11								4/4	Existing To Remain							
A5	7 DOORS	RL/Innovator I	ICE CREAM	9.59	-19	KG	SportII - 09/09								2/2	Existing To Remain							
A6	15 DOORS	RL/Innovator I	ICE CREAM	20.55	-19	KG	SportII - 11/11								3/3	Existing To Remain							
A7	7 DOORS	RL/Innovator I	ICE CREAM	9.59	-19	KG	SportII - 07/09								2/2	Existing To Remain							
A8	17 DOORS	RL/Innovator I	ICE CREAM	23.29	-19	KG	SportII - 11/11								4/4	Existing To Remain							
A9	7 DOORS	RL/Innovator II	BAKERY / ICT	7.34	-17	KG	SportII - 07/11	7.13	120/1	2.18	-	-	-	2/0	Existing 12" NF6 removed / New fixtures with HE Fans & LED Ltg								
A10	3 DOORS	RL/Innovator II	MEAT/SFD / ICT	3.15	-17	KG	SportII - 03/11	2.44	120/1	0.73	-	-	-	1/0	Existing 12" F6L removed / New fixture with HE Fans & LED Ltg								
A11	9' x 11' x 10'	(1e) HGT-1600F	DELVBAKE FRZR	11.38	-16	KG	SportII - 09/09								1/1	Existing To Remain							
A12	13' x 19' x 10'	(1e) HGT-2000A	MAIN FREEZER	17.90	-24	KG	SportII - 11/11								1/1	Existing To Remain							
A13	2+2 DOORS	RL/Innovator II	ICE CREAM	4.20	-17	KG	SportII - 05/07	3.38	120/1	0.96	-	-	-	2/0	Was spare / New fixtures with HE Fans & LED Ltg								
<b>Total A (-24) est =</b>				<b>170.00</b>																			
A14	6'	Q4-BV	SS BAKERY	2.40	22	OT	SportII - 03/09	2.44	120/1	0.69	-	-	-	1/0	Existing 8" PTD removed / New fixture / Fan Load Indicates Total Fans and Lights								
A15	8'	Q4-SS	SERV/ICE DELI	8.80	20	OT	SportII - 05/11	0.48	120/1	1.41	-	-	-	1/0	Existing 16" PTD removed / Existing 8" Q4-SS relocated								
A16	16'	CR3D	SERV DELI	16.32	20	OT	SportII - 07/07	7.96	120/1	1.76	-	-	-	2/0	Was spare / New fixtures with ASH on Fan Circuit								
A17	12'	Q3-SP	PREP FOODS	13.92	20	OT	SportII - 07/09	6.88	120/1	1.18	-	-	-	2/0	Existing 12" PTRRS removed / New fixtures with ASH on Fan Ckt								
A18	16'	TV4-6X-16I	CHEESE ISLAND	32.16	20	OT	SportII - 11/09	5.33	120/1	2.04	-	-	-	2/0	Existing 12" RIC removed / New Fixture with ASH on Fan Ckt								
A19	8'	CR3M	SERVICE MEAT	9.56	20	OT	SportII - 05/09	3.98	120/1	0.67	-	-	-	1/0	Existing 8" PTD removed / New Fixture with ASH on Fan Ckt / Rated Higher Than Current Mgr's Data per HT								
A20	12'	CR3M	SERVICE SFD	14.34	20	OT	SportII - 07/09	5.97	120/1	1.00	-	-	-	1/0	Existing 12" PTD removed / New Fixture with ASH on Fan Ckt / Rated Higher Than Current Mgr's Data per HT								
A21	36'	MSE	MD MEAT	52.74	21	OT	SportII - 13/13								3/3	Existing To Remain							
A22	15' x 21' x 10'	(1e) LOG-1690	MEAT COOLER	20.85	18	KG	SportII - 09/09								1/1	Existing To Remain							
A23	4'	FR4	FLORAL	7.65	20	OT	SportII - 05/09	0.78	120/1	0.41	-	-	-	1/0	Existing 12" NF6 removed / New fixture with ASH on Fan Ckt								
<b>Total A (+16) est =</b>				<b>178.74</b>																			

Compressor Data @ -24 F / +16 F SST and 115 F SCT / 100 F Ambient / HFC-404a Refrigerant				Condenser and General Systems Information			
#	Model	Unloader	Capacity-MBH	HP	FLA	Cap-Sub-Cooled	
A1	3DF3A090L	-	37.500	9	39.0	48.500	
A2	3DSDF46KE	Digital Discus	43.000	7	41.4	55.500	
A3	4DL3A150L	-	59.000	15	52.6	76.500	
A4	4DT3A220L	-	69.500	22	66.0	89.500	
<b>Rack A (-24) Total =</b>			<b>209.000</b>	<b>-24</b>		<b>270.000</b>	
A (-24) Load to Capacity % =			0.81			0.63	
A (-24) Spare Capacity =			39.00			75 Deg Ltg	
SA1	2DD3-050L	-	40.500	5	22.3	-	1
SA2	3DA3A075L	-	68.500	7.5	41.0	-	2
SA3	3DF3A120L	Digital Discus	101.000	12	48.2	-	3
<b>Rack A (+16) Total =</b>			<b>210.000</b>	<b>+16</b>			
A (+16) Load to Capacity % =			0.85				4
A (+16) Spare Capacity =			31.26				

Compressor Data @ +23 F / +15 F SST and 115 F SCT / 100 F Ambient / HFC-404a Refrigerant				Condenser and General Systems Information			
#	Model	Unloader	Capacity-MBH	HP	FLA	Cap-Sub-Cooled	
B1	3DA3A075L	-	68.500	7.5	41.0	81.000	
B2	3DF3A120L	-	112.000	12	48.2	128.000	
B3	3DS3R17ME	Digital Discus	128.000	16	59.5	160.000	
B4	4DA3A220L	-	141.000	28	66.0	180.000	
<b>Rack B (+23) Total =</b>			<b>350.000</b>	<b>+23</b>			
B (+23) Load to Capacity % =			0.79				
B (+23) Spare Capacity =			66.27				
SB1	2DK3-075L	-	78.500	7.5	31.6	-	1
SB2	2DA3-075L	-	167.500	7.5	32.0	-	2
<b>Rack B (+35) Total =</b>			<b>163.500</b>	<b>+35</b>			
B (+35) Load to Capacity % =			0.55				3
B (+35) Spare Capacity =			8.35				4

1. All new liquid line solenoid valves, suction EPR valves, and suction EPR valve cartridges listed are to be supplied and field installed by the Refrigeration Installation Contractor.

2. Replace existing suction EPR capacity cartridge with size shown.

3. Furnish and install new suction EPR valve and Kool-gas solenoid valve.

Revised Meat Cooler (A22) evaporator information, revised 36" Dairy (B5) for relocated 12" case from circuit B1, updated heat reclaim information, and modified miscellaneous notes.

Revised 6" Bakery case from Wescho to Hussmann and modified miscellaneous notes.

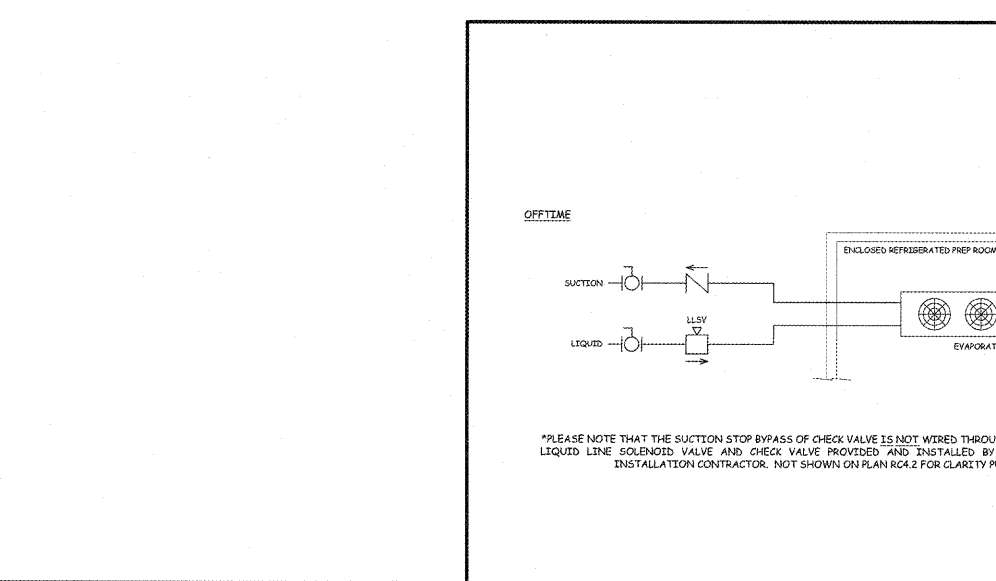
Adjusted Rack A and Rack B MCA information, finalized EPR valve selections & connection sizes; finalized loop piping connection sizes, and modified miscellaneous notes.

Finalized valving selections and modified miscellaneous notes.

Store: Harris Teeter # 289 Raleigh, NC		Modified Rack B		Ref: HFC-439a		Nameplate 208V MCA: 307 Amps		Nameplate 208V MOPD: 350 Amps		208/3													
Date: 6/20/2019						Calc'd 208V MCA: 306.8 Amps		Calc'd 208V MOPD: 350 Amps		208/3													
DESIGNATION				DEFROST				ELECTRICAL				EMIS				COMMENTS							
SYS #	SIZE	MODEL	TYPE	EVAP LOAD MBH	EVP TMP	DEF	CDS / EPR VALVE SIZE	FAN AMP	V/PH	LIGHT AMPS	ASH AMP	DEF AMP	V/PH	PQ (t/e)									
B1	20'	DDX-LP	BEER	5.90	34	OT	SportII - 03/09	1.90	120/1	2.73	-	-	-	2/0	Ex: 8" DSLE removed / Ex: 12" DSLE relocated to B5 / New Fixtures with HE Fans, LED Lighting, and Ecovision Doors								
B2	32'	DDX-LP	BEER	9.44	34	OT	SportII - 05/11	3.00	120/1	4.38	-	-	-	3/0	Existing case relocated w/ No ASH Doors and LED Ltg								
B3	6'	DSLE (w/Doors)	MODEL	3.42	28	OT	SportII - 03/09	1.90	120/1	1.10	-	-	-	1/1	Ex: 24" DSLE removed / New Fixtures with High Efficiency Fans, LED Lighting, and Ecovision Doors								
B4	36'	DSLE (w/Doors)	DAIRY	15.39	28	OT	SportII - 07/11	6.90	120/1	4.89	-	-	-	3/3	Ex: 24" DSLE remains / Ex: 12" DSLE moved from B1								
B5	36'	DSLE (w/Doors)	DAIRY	15.39	28	OT	SportII - 07/11	6.90	120/1	4.89	-	-	-	3/3	Ex: 12" of 36" DSLE moved to B4 / 12" DSLE relocated from B1								
B6	24'	DSLE (w/Doors)	DAIRY	10.26	28	OT	SportII - 05/11	4.80	120/1	3.26	-	-	-	2/2	Existing case relocated w/ No ASH Doors and LED Ltg								
B7	Loop Feed (Circuits B15, B16, B17, B18)																						
B8	28'	PDX-EP	PRODUCE	34.41	30	OT	SportII - 11/11	4.80	120/1	2.56	-	-	-	3/0	Existing 28" DSLE removed / New fixtures with High Efficiency Fans and LED Lighting								
B9	24'	PDX-EP	PRODUCE	29.50	30	OT	SportII - 11/11	4.00	120/1	2.20	-	-	-	2/0	Existing 24" DSLE removed / New fixtures with High Efficiency Fans and LED Lighting								
B10	4'	DDX-LP	FLORAL	1.08	32	OT	SportII - 03/07	0.50	120/1	0.57	-	-	-	1/1	Existing 4" NF7 removed / New fixture with High Efficiency Fans, LED Lighting, and Ecovision Doors								
B11	7' x 11' x 10'	(1e) ADT-5500F	DELVBAKE CLR	6.33	25	OT	SportII - 05/09								1/1	Existing To Remain							
B12	11' x 19' x 10'	(1e) ADT-3200B	DAIRY COOLER	14.03	28	OT	SportII - 05/09								1/1	Existing To Remain							
B13	220 SF x 10'	(1e) LO-185A	PRODUCE CLR	13.85	28	OT	SportII - 05/09								1/1	Existing To Remain							
B14	SPARE																						
B15	36'	DSLE (w/Doors)	LUNCH MEAT	16.69	28	OT	SportII - 07/09	1.20	120/1	4.89	-	-	-	2/0	Existing 36" DSLE moved from original circuit B7 / Existing cases relocated w/ No ASH Doors and LED Lighting								
B16	12'	DDX-LP	MD DELI	4.26	32	OT	SportII - 03/07	1.20	120/1	1.63	-	-	-	1/0	New circuit / New fixture with HE Fans, Max Ltg, and Eco Fans								
B17	24'	DDX-LP	MD PRODUCE	7.08	34	OT	SportII - 07/09	2.20	120/1	3.26	-	-	-	2/0	New circuit / New fixture with High Efficiency Fans, LED Lighting, and Ecovision Doors								
B18	24'	DDX-LP	MD PRODUCE	7.08	34	OT	SportII - 07/09	2.20	120/1	3.26	-	-	-	2/0	New circuit / New fixture with High Efficiency Fans, LED Lighting, and Ecovision Doors								
B19	(2) 8" x (2) End	RM-05-C + RM-05-E	PROD ISLAND	30.25	25	OT	SportII - 11/11	1.80	120/1	4.86	-	-	-	4/0	New circuit / New fixtures								
B20	(2) 8" x (2) End	RM-05-C + RM-05-E	PROD ISLAND	30.25	25	OT	SportII - 11/11	1.80	120/1	3.86	-	-	-	4/0	New circuit / New fixtures								
<b>Total B (+23) est =</b>				<b>254.74</b>																			
B21	422 SF	(1e) LO-1180C	SLICE PREP	37.16	30	OT	SportII - 11/11								1/1	(B15)							
B22	570 SF	(1e) LO-1850B	SLICE PREP	57.00	30	OT	SportII - 11/11								1/1	(B16)							
B23	SPARE																						
B24	SPARE																						
<b>Total B (+35) est =</b>				<b>158.74</b>																			

- General and Keyed Notes
- All new liquid line solenoid valves, suction EPR valves, and suction EPR valve cartridges listed are to be supplied and field installed by the Refrigeration Installation Contractor.
  - Existing circuit designations have been modified. The original sub designation appears in the COMMENTS column in parentheses ( ).
  - Modified existing loop connection sizes (Loop #1 - original circuit B7); Liquid 7/8"; Suction 1-5/8"
  - New loop connection sizes (Loop #2): Liquid 7/8"; Suction 2-1/8"
  - Valve off existing compressor and disable control circuitry
  - Remove existing liquid line solenoid valve and suction EPR valve
  - Replace existing suction EPR capacity cartridge with size shown.
  - Furnish and install new liquid line solenoid valve and suction EPR valve
  - Furnish and install new liquid line solenoid valve and suction EPR valve in new loop piping configuration.

Compressor Data @ +23 F / +15 F SST and 115 F SCT / 100 F Ambient / HFC-404a Refrigerant				Condenser and General Systems Information			
#	Model	Unloader	Capacity-MBH	HP	FLA	Cap-Sub-Cooled	
B1	3DA3A075L	-	68.500	7.5	41.0	81.000	
B2	3DF3A120L	-	112.000	12	48.2	128.000	
B3	3DS3R17ME	Digital Discus	128.000	16	59.5	160.000	
B4	4DA3A220L	-	141.000	28	66.0	180.000	
<b>Rack B (+23) Total =</b>			<b>350.000</b>	<b>+23</b>			
B (+23) Load to Capacity % =			0.79				
B (+23) Spare Capacity =			66.27				
SB1	2DK3-075L	-	78.500	7.5	31.6	-	1
SB2	2DA3-075L	-	167.500	7.5	32.0	-	2
<b>Rack B (+35) Total =</b>			<b>163.500</b>	<b>+35</b>			
B (+35) Load to Capacity % =			0.55				3
B (+35) Spare Capacity =			8.35				4



These plans were prepared by Harris Teeter Associates, Inc. (HTA) for the use of the following equipment and materials. HTA is not responsible for the use of any equipment or materials not listed herein. HTA is not responsible for the use of any equipment or materials not listed herein. HTA is not responsible for the use of any equipment or materials not listed herein.

Date: SEPTEMBER 10, 2019 Job No. 1922

Revised: \_\_\_\_\_

HTA PROJECT MANAGER



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Neighborhood Food & Pharmacy

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REFRIGERATION LEGENDS AND NOTES

Project Title: RC3.1

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