

A EXISTING PANEL											
ROOM KITCHEN AREA			VOLTS 208Y/120V 3P 4W			AIC 65K/10K(SERIES RATED)					
MOUNTING SURFACE			BUS AMPS 600			MAIN MLO					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE NEMA-1											
CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD		
#	BKR		A	B	C	#	BKR		A	B	C
1	-/1	SHUNT	0			2	90/3	SPARE	0	0	0
3	50/3	(E)RTU-1	4.54			4					
5			4.54	4.54		6					
7						8	-/1	SPACE	0	0.36	0.408
9	40/2	EXISTING EXTERIOR LIGHTS	0.75			10	20/1	NEW X11 - FLAT SCREEN T.V.			
11						12	20/1	NEW E16 - SODA DISPENSER	2.59	2.59	
13	20/2	EXISTING EXTERIOR LIGHTS	0.75			14	30/3	NEW RTU-2			
15			0.75	0.75		16					
17	20/1	EXISTING MENUBOARDS/SPEAKERS		1.5		18					
19	20/1	EXISTING DIRECTIONAL SIGN	1.2			20	20/1	NEW KEF-1	0.48	0.54	
21	20/1	EXISTING FLOOD SIGN		1.2		22	20/1	NEW DINING RECEPTACLE			
23	20/1	EXISTING SIGN RECEPTACLE		1.08		24	20/1	NEW G4 - OPEN SIGN			
25	100/3	NEW PANEL D	8.69			26	20/1	NEW DUCT DETECTOR	0.05	0.75	0.75
27				11.1		28	20/2	EXISTING REAR OUTDOOR LIGHTS			
29				11.5		30					
31	20/2	SPARE	0			32	-/1	BUS SPACE	0	0	0
33			0	0		34	-/1	BUS SPACE			
35	20/1	NEW BUILDING SIGNAGE			1.2	36	-/1	BUS SPACE			0
37	200/3	RELOCATED PANEL B	13.2			38	150/3	EXISTING CONTROL PANEL C	14.4	14.4	
39				12.4		40					
41				14.8		42					
TOTAL CONNECTED KVA BY PHASE									45.9	49.4	54.2
TOTAL CONNECTED AMPS BY PHASE									383	411	453
			CONN. KVA	CALC. KVA		CONN. KVA	CALC. KVA				
LIGHTING			13.4	16.7 (125%)		CONTINUOUS			46.8	58.5 (125%)	
LARGEST MOTOR			13.6	17 (125%)		HEATING			0	0 (100%)	
OTHER MOTORS			14.2	14.2 (100%)		NONCONTINUOUS			0.41	0.41 (100%)	
RECEPTACLES			14.8	12.4 (50%>10)		KITCHEN EQUIP			46.2	30.1 (65%)	
						NONCOIN/DIVERSE			0	0 (N/A)	
						TOTAL KVA			149	149	
EXISTING PANEL BALANCED THREE PHASE AMPS 415											

B RELOCATED PANEL											
ROOM RESTROOM HALLWAY			VOLTS 208Y/120V 3P 4W			AIC 42,000 (FULLY RATED)					
MOUNTING FLUSH			BUS AMPS 200			MAIN MLO					
FED FROM A			NEUTRAL 100%			LUGS STANDARD					
NOTE NEMA-1											
CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD		
#	BKR		A	B	C	#	BKR		A	B	C
1	50/3	SPARE	0			2	40/2	NEW E8 - CONVEYOR OVEN	2.81	2.81	
3			0	0		4					
5						6	30/1	NEW E3 - ICE MACHINE			3
7	20/1	NEW E35 - BACK OFFICE POS SERVER	0.4			8	20/1	NEW E17 - TEA DISPENSER	1.78		
9	20/1	NEW E34 - BACK OFFICE PRINTER/SCAN/FAX		0.42		10	20/1	NEW E16 - SODA DISPENSER		0.408	
11	20/1	NEW E33 - PHONE (CORDLESS)			0.252	12	20/1	NEW RECIRC. PUMP, W/H CONTROL			0.36
13	20/1	NEW E32 - SOUND SYSTEM AMP.	0.168			14	40/2	NEW E8 - CONVEYOR OVEN	2.81	2.81	
15	20/1	NEW T.M.B. RECEPTACLE		0.36		16					
17	20/1	NEW E11 - BLENDER		1.8		18	20/1	NEW E19 - SODA CARBONATOR			1
19	20/1	NEW E54 - COFFEE BREWER	1.37			20	20/1	NEW E18 - BAG IN THE BOX	0.6		
21	20/2	NEW E2 - WALK-IN FREEZER		1.54		22	20/1	NEW S3-MENU BOARD		1.2	
23				1.54		24	20/1	NEW G2 - PICK UP HERE SIGN			0.78
25	20/1	NEW E10 - WALK-IN COOLER LTG	0.6			26	20/1	NEW E5b - REFRIG. SANDW PREP. TABLE	1.24	0.6	
27	20/1	NEW E13 - SLICER		0.672		28	20/1	NEW E20 - WALK-IN FREEZER LTG			
29	30/1	NEW E9 - MICROWAVE OVEN		2.4		30	20/1	NEW E5a - REFRIG. SANDW PREP. TABLE			0.936
31	20/1	NEW E7 - EXHAUST HOOD	0.516			32	20/1	NEW E37 - POS TERMINAL	0.444		
33	20/1	NEW E36 - POS TERMINAL PRINTER		0.396		34	20/1	NEW E36 - POS THERMAL PRINTER		0.396	
35	20/1	NEW E37 - POS TERMINAL		0.444		36	20/1	NEW E36 - POS TERMINAL PRINTER		0.444	0.396
37	-/1	SPACE	0			38	20/1	NEW E37 - POS TERMINAL			
39	-/1	SPACE		0		40	20/1	NEW G1 - PAY HERE SIGN		0.78	
41	-/1	SPACE		0		42	25/1	NEW E6 - REFRIGERATOR MERCHANDISER			1.87
TOTAL CONNECTED KVA BY PHASE									13.2	12.4	14.8
TOTAL CONNECTED AMPS BY PHASE									111	105	123
			CONN. KVA	CALC. KVA		CONN. KVA	CALC. KVA				
LIGHTING			2.76	3.45 (125%)		CONTINUOUS			0	0 (125%)	
LARGEST MOTOR			3.08	3.85 (125%)		HEATING			0	0 (100%)	
OTHER MOTORS			0	0 (100%)		NONCONTINUOUS			0.36	0.36 (100%)	
RECEPTACLES			5.32	5.32 (50%>10)		KITCHEN EQUIP			28.8	16 (63%)	
						NONCOIN/DIVERSE			0	0 (N/A)	
						TOTAL KVA			40.3	31.7	
RELOCATED PANEL BALANCED THREE PHASE AMPS 88											

D NEW PANEL											
ROOM RESTROOM HALLWAY			VOLTS 208Y/120V 3P 4W			AIC 42,000 (FULLY RATED)					
MOUNTING FLUSH			BUS AMPS 100			MAIN MLO					
FED FROM A			NEUTRAL 100%			LUGS STANDARD					
NOTE NEMA-1											
CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT #	CIRCUIT DESCRIPTION	KVA LOAD		
#	BKR		A	B	C	#	BKR		A	B	C
1	20/1	NEW X3-HAND DRYER	1.46			2	20/1	NEW KITCHEN LIGHTING	0.95	0.906	
3	20/1	NEW X3-HAND DRYER		1.46		4	20/1	NEW DINING AREA/RESTROOM LIGHTING, EF-1/2			
5	90/1	E1a- WALK-IN COOLER LTG			0.6	6	20/1	NEW GENERAL/ SHOW WINDOW LIGHTING			0.78
7	20/2	E1 - WALK-IN COOLER	0.67			8	20/1	NEW SHOW WINDOW LTG.	1.2		
9			0.67	0.67		10	20/1	NEW G5 - MEDALLION SIGN		0.78	
11	20/2	E1 - WALK-IN COOLER			0.67	12	20/1	NEW MAINTENANCE RECEPTACLE		0.54	
13					0.67	14	20/1	G3 - WWDYW		0.78	
15	30/2	E53 - ESPRESSO MACHINE	2.5			16	20/1	E52-MENU BOARD		1.2	
17				2.5		18	30/2	E51-DIPPING CABINET		1.46	1.46
19	20/1	NEW E12 - DROP-IN ICE CREAM FREEZER	0.6			20					
21	20/1	NEW E49 - UNDER COUNTER REF.		0.468		22	40/2	E56-COFFEE GRINDER		3.12	
23	20/1	NEW E11 - BLENDER		1.8		24					
25	-/1	SPACE	0			26	20/1	OFFICE RECEPTACLE	0.9		
27	-/1	SPACE		0		28	-/1	SPACE		0	0
29	-/1	SPACE		0		30	-/1	SPACE		0	0
31	-/1	SPACE		0		32	-/1	SPACE		0	0
33	-/1	SPACE		0		34	-/1	SPACE		0	0
35	-/1	SPACE		0		36	-/1	SPACE		0	0
37	-/1	SPACE		0		38	-/1	SPACE		0	0
39	-/1	SPACE		0		40	-/1	SPACE		0	0
41	-/1	SPACE		0		42	-/1	SPACE		0	0
TOTAL CONNECTED KVA BY PHASE									8.69	11.1	11.5
TOTAL CONNECTED AMPS BY PHASE									72.7	95.5	95.5
			CONN. KVA	CALC. KVA		CONN. KVA	CALC. KVA				
LIGHTING			3.86	4.82 (125%)		CONTINUOUS			0	0 (125%)	
LARGEST MOTOR			1.34	1.67 (125%)		HEATING			0	0 (100%)	
OTHER MOTORS			1.5	1.5 (100%)		NONCONTINUOUS			0	0 (100%)	
RECEPTACLES			7.55	7.55 (50%>10)		KITCHEN EQUIP			17	17.2 (MAX 2)	
						NONCOIN/DIVERSE			0	0 (N/A)	
						TOTAL KVA			31.3	31.3	
NEW PANEL BALANCED THREE PHASE AMPS 74.3											

- PANEL SCHEDULES GENERAL NOTES**
- A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES.
  - ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.
  - THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK ON LABELS NOT ACCEPTABLE)
  - PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.

- PANELBOARD SYMBOLS**
- EXISTING BREAKER W/ NEW LOAD
  - NEW BREAKER TO MATCH EXISTING TYPE & SERIES RATING
  - NEW CIRCUIT BREAKER (SEE RATINGS NOTES)
  - ▲ CIRCUIT BREAKER WITH "LOCK ON" DEVICE
  - PREVIOUS BREAKER WITH "LOCK ON" DEVICE
  - △ PREVIOUS BREAKER WITH "LOCK ON/OFF" DEVICE
  - CIRCUIT WITH TIMECLOCK

RUN RUN DESIGN

PROJECT NAME AND LOCATION :



STORE #785  
975 W. POPLAR AVENUE  
COLLIERVILLE, TN 38017

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**DRAWING REVISIONS:**

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B	SUBMITTAL DATE	--
no.	revision	date
1	--	--
2	--	--
3	--	--

SHEET NAME:  
**PANEL SCHEDULES**

project no: 17-085  
dwg no: **E3.1**

**PRELIMINARY NOT FOR CONSTRUCTION**

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Order Plans