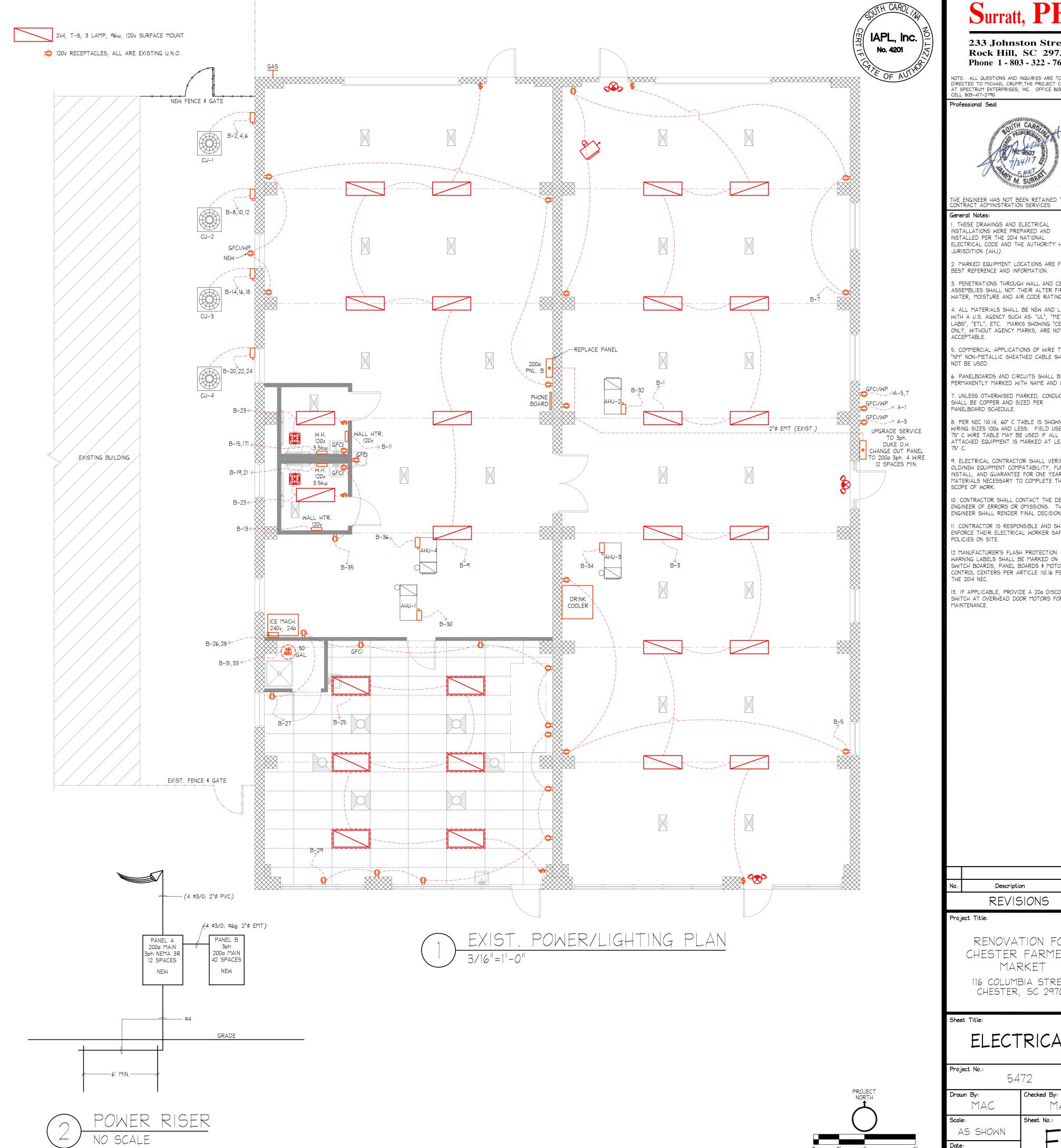


Ratings see Note #8.		Cł	nester Fa	arm	er's			Fed From Service				
			Pa	anel	Α							
			208/120	V 3	-Ph	4-V	٧					
	200A Main											
			10KA Bı	reakers Mir			n.	AFC = 3614 Amps, w/ 75KVA XMR				
	ļ					_		 	100			
Service	Wire	Load	Bkr			<u> </u>	Bkr	Load	Wire	Service		
	Size	KVA	Size				Size	KVA	Size			
120v Receptacle	#12	0.2	1P-20	1	X	2	3P-200	17.9	#3/0	200A Panel B		
120v Receptacle	#12	0.2	1P-20	3	у	6	"	18.8	=	II .		
1-Phase Receptacle	#10	0.1	2P-30	5	z		"	15.1	"	"		
II .	"	0.1	"	7	х	8						
				9	У	10						
				11	z	12						
Panel Load/Phase	X	18.1	KVA		1/	 51	Amps					
Connected As Shown	Y	19.0	KVA		151 158		Amps					
	Z	15.2	KVA		127		Amps					
Total		52	KVA									
Revisions	Rev 0	7/24/17										

Service Chester I	Load Sui				
Service: 208 200	/120V, 3-P Amps	n, 4 W			
	41 4-	Connecte			
Connected	VA				
Internal Lights	5	2501			
External Light	s	0			
Water Heating	11000				
HVAC, RTU's	25698				
AHU's	5194				
Other (Motors	601				
Food Service E	5881				
Receptacles		4328			
Other Loads		0			
Future Loads		0			
Total Connect	ted KVA:	55			
Total Connect	ted Amps:	153			

atings see Note #8.		Cł	nester Fa	arme	er's	Ma	rket			Fed From Panel A
			Pa	anel	В					
			208/120	V 3-	-Ph	4-V	٧			
			200	A N	lain	1				
			10KA Bı	reak	ers	Mi	า.	AFC = 3	207 Amp	os
Service	Wire	Load	Bkr				Bkr	Load	Wire	Service
	Size	KVA	Size				Size	KVA	Size	
Lights/Fans Main Room	#12	0.8	1P-20	1	Х	2	3P-25	1.8	#10	CU-1, 3-Ton
Lights/Fans Main Room	#12	0.8	1P-20	3	у	4	•	1.8	=	II .
Recept. Main Room	#12	0.7	1P-20	5	z	6	"	1.8	=	· ·
Recept. Main Room	#12	0.7	1P-20	7	х	8	3P-25	1.8	#10	CU-2, 3-Ton
Lights Back	#12	0.6	1P-20	9	у	10	"	1.8	"	"
Wall Heater Rest Rm.	#12	1.2	1P-20	11	Z	12	"	1.8	=	"
Wall Heater Rest Rm.	#12	1.2	1P-20	13	Х	14	3P-25	1.8	#10	CU-3, 3-Ton
Sink W.Htr	#12	1.8	2P-20	15	У	16	"	1.8	"	"
П	"	1.8	"	17	z	18	"	1.8	"	"
Sink W.Htr	#12	1.8	2P-20	19	х	20	3P-30	2.4	#10	CU-4, 4-Ton
11	"	1.8	"	21	у	22	"	2.4	"	"
Rest Rm Lights/Fans	#12	0.4	1P-20	23	z	24	"	2.4	"	"
Kitchen Lights	#12	0.6	1P-20	25	х	26	2P-40	2.6	#8	Ice Machine
Kitchen G.P. Recept	#12	1.1	1P-20	27	У	28	"	2.6	=	"
Kitchen G.P. Recept	#12	1.1	1P-20	29	z	30	1P-15	0.4	#12	AHU-1
Water Heater	#10	2.0	2P-30	31	х	32	1P-15	0.4	#12	AHU-2
11	"	2.0	"	33	У	34	1P-15	0.4	#12	AHU-3
Recept. Back	#12	1.3	1P-20	35	z	36	1P-20	0.6	#12	AHU-4
				37	х	38				
				39	у	40				
				41	z	42				
Panel Load/Phase	X	17.9	KVA		1	49	Amps			
Connected As Shown	Y	18.8	KVA		1	57	Amps			
	Z	15.1	KVA		1:	26	Amps			
Tatal		F0	10.74							
Total Revisions	Rev 0	52 7/24/17	KVA	\vdash						

	Electrical E					neat	ile.												
			220 Calc				Rev 0	7/24/17											
	4		Farmer'																
	Note: All equipment currents resolved to service voltage. Service Voltage 20						400			-									
			Voltage	2		208	120	Col	4	2									
		Phases Poles		3															
		Ph,Poles		3,3															
		,		-,-															
Service Panel	Connected Equipment Loads	Qty	Resolved Voltage ¹	Ph, Poles For Item	Phase Amps Ea. (208v)	НР	HP Amp	Per Line MCA (Total)	Duty	Final Per Phase MCA*	V	V	7	Calc Protectio n Needed	MOCP Required	Wire Size	Load Total Running VA Less *	МОСР	Info Source
В	Lighting Inside	26	120	1,1	0.800			21	1.00	20.8	7	7 7	7 7	20		#10	2501	1P-20	Cut Sheet
В	Outside lighting	0	120	1,1	0.00			0.0	1.00	0.0	0	0	0	20		#10	0	1P-20	Cut Sheet
В	Receptacles	24	120	1,1	1.50			36	1.00	36.0	12	12	12	20		#12	4328	1P-20	Cut Sheet
В	Sink W.Htr	1	208	1,2	16.83			16.8	1.00	16.8	16.8	16.8		20		#12	3500	2P-20	Cut Sheet
В	Sink W.Htr	1	208	1,2	16.83			16.8	1.00	16.8		16.8	16.8	20		#12	3500	2P-20	Cut Sheet
В	Wall Heater Rest Rm.	1	120	1,1	9.60			9.6	1.00	9.6			9.6	20		#12	1154	1P-20	
В	Wall Heater Rest Rm.	1	120	1,1	9.60			9.6	1.00	9.6	9.6			20		#12	1154	1P-20	Cut Sheet
В	Ice Machine	1	208	1,2	25.38			25.4	1.00	25.4	25.4		25.4	30	40	#8	5280	2P-40	Cut Sheet
В	Drink Cooler	1	120	1,1	5.00			5.0	1.00	5.0		5.0		20		#12	601	1P-20	Cut Sheet
В	CU-1, 3-Ton	1	208	3,3	15.00			15.0	1.00	15.0	15.0	15.0	15.0	20	25	#10	5398	3P-25	Cut Sheet
В	CU-2, 3-Ton	1	208	3,3	15.00			15.0	1.00	15.0	15.0	15.0	15.0	20	25	#10	5398	3P-25	Cut Sheet
В	CU-3, 3-Ton	1	208	3,3	15.00			15.0	1.00	15.0	15.0	15.0	15.0	20	25	#10	5398	3P-25	Cut Sheet
В	CU-4, 4-Ton	1	208	3,3	20.00			20.0	1.00	20.0	20.0	20.0	20.0	20	30	#10	7197	3P-30	Cut Sheet
В	AHU-1	1	120	1,1		0.50	9.8	9.8	1.00	9.8	9.8			20	15	#12	1178	1P-15	Cut Sheet
В	AHU-2	1	120	1,1		0.50	9.8	9.8	1.00	9.8		9.8		20	15	#12	1178	1P-15	Cut Sheet
В	AHU-3	1	120	1,1		0.50	9.8	9.8	1.00	9.8			9.8	20	15	#12	1178	1P-15	Cut Sheet
В	AHU-4	1	120	1,1		0.8	13.8	13.8	1.00	13.8		13.8		20		#12	1659	1P-20	Cut Sheet
В	Fans	4	120	1,1	1.25			5.0	1.00	5.0	5.0	5.0		20		#12	601	1P-20	Cut Sheet
В	Water Heater	1	208	1,2	19.23			19.2	1.00	19.2		19.2	19.2	20	30	#10	4000	2P-30	Cut Sheet
	Fi	Connec	nnected Load Entrance Current					161.9	150.5	170.4	164.8	Amps*			55203.5	VA*			
	Panel Frame S Qty and Wire S						Size 2	208/120v		200	Amps						153	Amps*	
										CU	#3/0					167800	cm		
	Tbl 250.66 Electrode Ground							onductor		#4				Cu					





233 Johnston Street Rock Hill, SC 29730 Phone 1 - 803 - 322 - 7630

NOTE: ALL QUESTIONS AND INQUIRIES ARE TO BE DIRECTED TO MICHAEL CRUMP, THE PROJECT COORDINATOR, AT SPECTRUM ENTERPRISES, INC. OFFICE 803-328-1118, CELL 803-417-2790.

Professional Seal



1. THESE DRAWINGS AND ELECTRICAL
INSTALLATIONS WERE PREPARED AND
INSTALLED PER THE 2014 NATIONAL
ELECTRICAL CODE AND THE AUTHORITY HAVING JURISDITION (AHJ).

2. MARKED EQUIPMENT LOCATIONS ARE FOR BEST REFERENCE AND INFORMATION. 3. PENETRATIONS THROUGH WALL AND CEILING ASSEMBLIES SHALL NOT THEIR ALTER FIRE, WATER, MOISTURE AND AIR CODE RATINGS.

4. ALL MATERIALS SHALL BE NEW AND LISTED WITH A U.S. AGENCY SUCH AS: "UL", "MET LABS", "ETL", ETC. MARKS SHOWING "CE" ONLY, WITHOUT AGENCY MARKS, ARE NOT ACCEPTABLE.

5. COMMERCIAL APPLICATIONS OF WIRE TYPE "NM" NON-METALLIC SHEATHED CABLE SHALL

6. PANELBOARDS AND CIRCUITS SHALL BE PERMANENTLY MARKED WITH NAME AND USE. 7. UNLESS OTHERWISED MARKED, CONDUCTORS SHALL BE COPPER AND SIZED PER PANELBOARD SCHEDULE.

B. PER NEC 110.14, 60° C TABLE IS SHOWN FOR WIRING SIZES 1000 AND LESS. FIELD USE OF 75°C WIRE TABLE MAY BE USED IF ALL ATTACHED EQUIPMENT IS MARKED AT LEAST

9. ELECTRICAL CONTRACTOR SHALL VERIFY OLD/NEW EQUIPMENT COMPATABILITY, FURNISH, INSTALL, AND GUARANTEE FOR ONE YEAR ALL MATERIALS NECESSARY TO COMPLETE THIS

10. CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER OF ERRORS OR OMISSIONS. THE ENGINEER SHALL RENDER FINAL DECISIONS. 11. CONTRACTOR IS RESPONSIBLE AND SHALL ENFORCE THEIR ELECTRICAL WORKER SAFETY POLICIES ON SITE.

WARNING LABELS SHALL BE MARKED ON SWITCH BOARDS, PANEL BOARDS & MOTOR CONTROL CENTERS PER ARTICLE 110.16 PER THE 2014 NEC.

13. IF APPLICABLE, PROVIDE A 20a DISCONNECT SWITCH AT OVERHEAD DOOR MOTORS FOR MAINTENANCE.

Descripti*o*n REVISIONS

Project Title:

RENOVATION FOR CHESTER FARMER'S MARKET

116 COLUMBIA STREET CHESTER, SC 29706

ELECTRICAL

Project No.: 5472 Drawn By: Checked By:

Sheet No.:

AS SHOWN 7-25-2017