

**Branch Panel: MA-13**

Location: Supply From: Mounting: Enclosure: NEMA 1  
 Volts: 120/240 Single Phases: 1 Wires: 3  
 A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	25 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range - 3.5 kW to 8.75 kW	2	
3									4	
5	AHU	45 A	2	4500 VA 0 VA	4500 VA 0 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2800 VA 750 VA	2800 VA 750 VA	1	20 A	Washer	10	
11	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Garbage Disposal	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 1200 VA	360 VA 1200 VA	1	20 A	Refrigerator	16	
17	Dinning Receptacles	20 A	1	340 VA 615 VA	340 VA 615 VA	1	20 A	Refrigerator	18	
19	Lighting	20 A	1	291 VA 729 VA	291 VA 729 VA	1	20 A	Water Proof Receptacles	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 1 Receptacles	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 2 Receptacles	24	
25	Bedroom 1 Receptacles	20 A	1	900 VA 0 VA	900 VA 0 VA	1	20 A	Spare	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				<b>Total Load:</b>	1885 VA	1970 VA				
				<b>Total Amps:</b>	157 A	164 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	<b>Total Conn. Load:</b> 32614 VA
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	<b>Total Est. Demand:</b> 31290 VA
HVAC	3360 VA	100.00%	3360 VA	<b>Total Conn.:</b> 161 A
Heating	9000 VA	100.00%	9000 VA	<b>Total Est. Demand:</b> 151 A
Lighting - Dwelling Unit	80 VA	100.00%	80 VA	
Other	566 VA	100.00%	566 VA	
Receptacle	4880 VA	100.00%	4880 VA	
Power	5000 VA	100.00%	5000 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Bathroom	180 VA	100.00%	180 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

**Branch Panel: MA-14**

Location: Supply From: Mounting: Enclosure: NEMA 1  
 Volts: 120/240 Single Phases: 1 Wires: 3  
 A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	25 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 0 VA	4500 VA 0 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2800 VA 750 VA	2800 VA 750 VA	1	20 A	Washer	10	
11	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Garbage Disposal	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 1200 VA	360 VA 1200 VA	1	20 A	Microwave	16	
17	Dinning Receptacles	20 A	1	340 VA 615 VA	340 VA 615 VA	1	20 A	Refrigerator	18	
19	Lighting	20 A	1	291 VA 729 VA	291 VA 729 VA	1	20 A	Water Proof Receptacles	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 1 Receptacles	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 2 Receptacles	24	
25	Bedroom 1 Receptacles	20 A	1	900 VA 0 VA	900 VA 0 VA	1	20 A	Spare	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31									32	
33									34	
35									36	
				<b>Total Load:</b>	16385 VA	17230 VA				
				<b>Total Amps:</b>	137 A	144 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	<b>Total Conn. Load:</b> 32614 VA
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	<b>Total Est. Demand:</b> 31290 VA
HVAC	3360 VA	100.00%	3360 VA	<b>Total Conn.:</b> 140 A
Heating	9000 VA	100.00%	9000 VA	<b>Total Est. Demand:</b> 130 A
Lighting - Dwelling Unit	80 VA	100.00%	80 VA	
Other	566 VA	100.00%	566 VA	
Receptacle	4880 VA	100.00%	4880 VA	
Power	5000 VA	100.00%	5000 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Bathroom	180 VA	100.00%	180 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

**Branch Panel: MA-15**

Location: Supply From: Mounting: Enclosure: NEMA 1  
 Volts: 120/240 Single Phases: 1 Wires: 3  
 A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	25 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 0 VA	4500 VA 0 VA	2	20 A	Power	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2800 VA 750 VA	2800 VA 750 VA	1	20 A	Washer	10	
11	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Garbage Disposal	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 1200 VA	360 VA 1200 VA	1	20 A	Microwave	16	
17	Dinning Receptacles	20 A	1	340 VA 615 VA	340 VA 615 VA	1	20 A	Refrigerator	18	
19	Lighting	20 A	1	291 VA 729 VA	291 VA 729 VA	1	20 A	Water Proof Receptacles	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 1 Receptacles	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 2 Receptacles	24	
25	Bedroom 1 Receptacles	20 A	1	900 VA 0 VA	900 VA 0 VA	1	20 A	Spare	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	32	
33	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	34	
35	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	36	
				<b>Total Load:</b>	16385 VA	17230 VA				
				<b>Total Amps:</b>	137 A	144 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	<b>Total Conn. Load:</b> 32614 VA
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	<b>Total Est. Demand:</b> 31290 VA
HVAC	3360 VA	100.00%	3360 VA	<b>Total Conn.:</b> 140 A
Heating	9000 VA	100.00%	9000 VA	<b>Total Est. Demand:</b> 130 A
Lighting - Dwelling Unit	80 VA	100.00%	80 VA	
Other	566 VA	100.00%	566 VA	
Receptacle	4880 VA	100.00%	4880 VA	
Power	5000 VA	100.00%	5000 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Bathroom	180 VA	100.00%	180 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

**Branch Panel: MA-16**

Location: Supply From: Mounting: Enclosure: NEMA 1  
 Volts: 120/240 Single Phases: 1 Wires: 3  
 A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 150 A MCB Rating: 150 A

Notes: ALL BREAKERS AFI TYPE

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT	
1	CU	25 A	2	1680 VA 3250 VA	1680 VA 3250 VA	2	50 A	Electric Range	2	
3									4	
5	AHU	45 A	2	4500 VA 0 VA	4500 VA 0 VA	2	30 A	Water Heater	6	
7									8	
9	Electric Clothes Dryer	30 A	2	2800 VA 750 VA	2800 VA 750 VA	1	20 A	Washer	10	
11	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Dishwasher	12	
13	Kitchen Countertop Receptacles	20 A	1	360 VA 750 VA	360 VA 750 VA	1	20 A	Garbage Disposal	14	
15	Kitchen Countertop Receptacles	20 A	1	360 VA 1200 VA	360 VA 1200 VA	1	20 A	Microwave	16	
17	Dinning Receptacles	20 A	1	340 VA 615 VA	340 VA 615 VA	1	20 A	Refrigerator	18	
19	Lighting	20 A	1	291 VA 729 VA	291 VA 729 VA	1	20 A	Water Proof Receptacles	20	
21	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 1 Receptacles	22	
23	Living Receptacles	20 A	1	360 VA 180 VA	360 VA 180 VA	1	20 A	Bedroom 2 Receptacles	24	
25	Bedroom 1 Receptacles	20 A	1	900 VA 0 VA	900 VA 0 VA	1	20 A	Spare	26	
27	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	28	
29	Spare	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A	Spare	30	
31									32	
33									34	
35									36	
				<b>Total Load:</b>	17915 VA	19300 VA				
				<b>Total Amps:</b>	149 A	161 A				

Legend:

Load Classification	Connected Load (VA)	Demand Factor	Estimated Demand	Panel Totals
Cooling	100 VA	100.00%	100 VA	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	<b>Total Conn. Load:</b> 32614 VA
Electric Range - 3.5 kW to 8.75 kW	6500 VA	80.00%	5200 VA	<b>Total Est. Demand:</b> 34898 VA
HVAC	3360 VA	100.00%	3360 VA	<b>Total Conn.:</b> 155 A
Heating	9000 VA	100.00%	9000 VA	<b>Total Est. Demand:</b> 145 A
Lighting - Dwelling Unit	80 VA	100.00%	80 VA	
Other	566 VA	100.00%	566 VA	
Receptacle	3960 VA	100.00%	3960 VA	
Power	4500 VA	100.00%	4500 VA	
Lighting	115 VA	100.00%	115 VA	
Garbage Disposal	750 VA	75.00%	563 VA	
Refrigerator	615 VA	75.00%	461 VA	
Bathroom	180 VA	100.00%	180 VA	
Washer	750 VA	75.00%	563 VA	
Dishwasher	750 VA	75.00%	563 VA	
Microwave	1200 VA	75.00%	900 VA	

Notes:

DRAWING NOTES

- A. PLEASE REFER TO SHEET E000 FOR PROJECT NOTES, LEGEND, AND ABBREVIATIONS.
- B. PANEL SCHEDULES ARE REPRESENTATIVE OF THE TYPE OF UNIT. INDIVIDUAL UNITS MAY VARY SLIGHTLY.
- C. PANEL DOORS SHALL BE FACTORY FINISH WHITE WITH FACTORY FINISH WHITE SCREWS AND WHITE PLASTIC LATCH.
- D. PANEL DIRECTORY SHALL BE NEATLY PRINTED OR TYPED ON EACH PANEL DOOR.
- E. THE "HOUSE" PANELS COVER UP TO THREE BUILDINGS AND MAY CONTAIN THE CIRCUITS FOR THE FOLLOWING: GFCI RECEPTACLES AT ALL HEAT PUMPS, FRONT PORCH AND BREEZEWAY LIGHTS, POWER FOR SECURITY CAMERAS, POWER FOR AUTO GATE OPENER, POWER FOR MAIN GATE AND ACCESS CONTROL, SPRINKLER ROOM VALVES, SPRINKLER ROOM WALL HEATER, SPRINKLER ROOM LIGHT AND RECEPTACLES, SPRINKLER ROOM ACCESS CONTROL, IRRIGATION CONTROLLER, SIGN/MONUMENT LIGHT, ETC.
- F. REFER TO SHEET E006 FOR UNIT PANEL CALCULATIONS.



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Issues and Revisions

Date	Issued / Revised
1 03/16/2020	50% CONSTRUCTION DOCUMENTS
2 05/18/2020	80% CONSTRUCTION DOCUMENTS
3 07/13/2020	PERMIT

- BUILDING ADDRESSES
- TYPE E.B. 442, 444, 446, 448 BATHURST LANE
  - TYPE E.A. 324, 226, 228, 230 SHAWNEE PLACE
  - TYPE H.A. 374, 400 WANGS AVE
  - TYPE I.A. 315, 364 FOOTE LANE
  - TYPE L.A. 363 S DANNY THOMAS BLVD
  - TYPE M.A. 365, 431 WANGS AVE
  - TYPE N.A. 315 BRIMWELL PLACE
  - TYPE O.A. 327 SHAWNEE PLACE
  - TYPE P.A. 420, 355 FOOTE LANE
  - TYPE Q.A. 345 S DANNY THOMAS BLVD
  - TYPE R.A. 402, 428 FOOTE LANE

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LRK Project Number: 01.15100.02

Project Name:  
**South City CNI Phase 4**  
 Memphis TN

Drawing Name:  
**ELECTRICAL PANEL SCHEDULES - BUILDING**