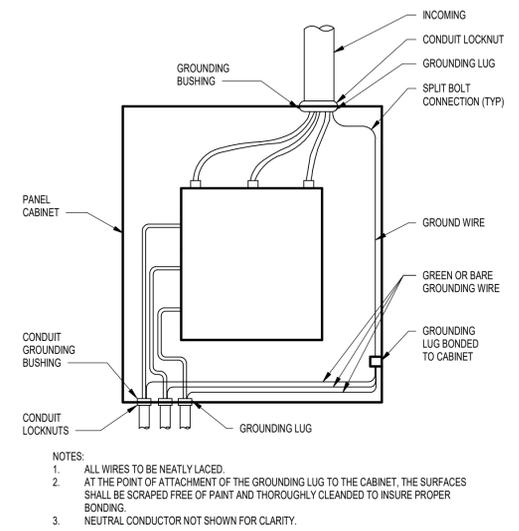
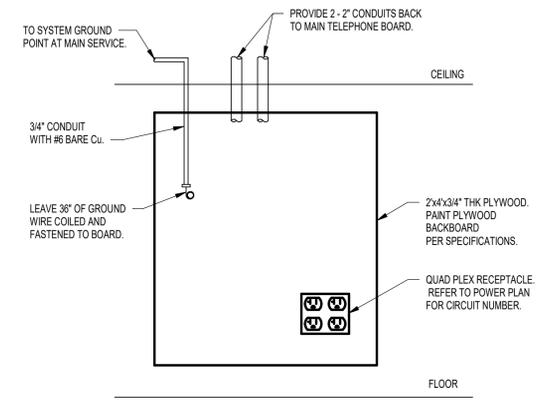


**1 ELECTRICAL RISER DIAGRAM**  
SCALE: 3/16" = 1'-0"



**4 PANEL GROUNDING DETAIL**  
SCALE: 3/16" = 1'-0"



**3 TELEPHONE BOARD DETAIL**  
SCALE: 3/16" = 1'-0"

**Branch Panel: F**  
Location: STORAGE 107  
Supply From: Surface  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 208V / 3Ø  
Phases: 3  
Wires: 4

A.I.C. Rating: 22,000  
Mains Type: MCB  
Mains Rating: 400 A  
MCB Rating: 400 A

CKT	Load Classification: Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Classification: Load Name	CKT	
1				3002...	1747...			2	35 A	HVAC: SV-2	2
3	HVAC: SV-1	50 A	3		3002... 1747...	3002... 1248...		2	25 A	HVAC: SV-4	6
5											8
7	HVAC: SV-3	30 A	2	1498... 1248...	1498... 1997...			2	40 A	HVAC: SV-6	10
9											12
11	HVAC: SV-5	50 A	2	2746... 1498...		2746... 1997...		2	30 A	HVAC: SV-8	14
13											16
15	HVAC: SV-7	60 A	2	2746... 1498...	2995... 1498...			2	30 A	HVAC: SV-10	18
17											20
19	HVAC: SV-9	50 A	2	2496... 1498...	2496... 1997...	2995... 1498...		2	30 A	HVAC: SV-12	22
21											24
23						7325... 1997...		2	40 A	HVAC: SV-11	26
25	HVAC: RTU-5	100 A	3	7325... 2746...				2	50 A	HVAC: SV-12	28
27					7325... 2746...						30
29						6446... 6110...		3	100 A	Spare; PWR; LTG; RCP; HVAC: PANEL G2	32
31	Spare; PWR; LTG; RCP; HVAC: PANEL G1	100 A	3	6860... 7000...	7140... 5135...						34
33											36
35											38
37	: SPARE	20 A	1	0 VA	0 VA			1	20 A	: SPARE	40
39	: SPARE	20 A	1			0 VA	0 VA	1	20 A	: SPARE	42
41	: SPARE	20 A	1			0 VA	0 VA	1	20 A	: SPARE	
<b>Total Load:</b>				39663 VA	39575 VA	35352 VA					
<b>Total Amps:</b>				336 A	335 A	295 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	21976 VA	125.00%	27470 VA	
RCP	25920 VA	69.29%	17960 VA	Total Conn. Load: 114589 VA
PWR	6000 VA	100.00%	6000 VA	Total Est. Demand: 112123 VA
HVAC	54115 VA	100.00%	54115 VA	Total Conn.: 318 A
LTG	6590 VA	100.00%	6590 VA	Total Est. Demand: 311 A

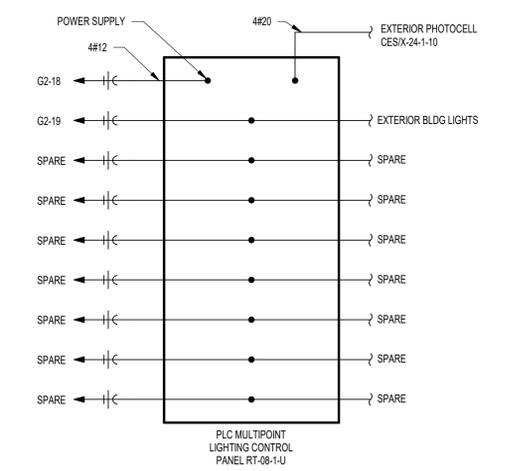
**Branch Panel: G1**  
Location: CHECK IN/OUT 106  
Supply From: F  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 208V / 3Ø  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type: MLO  
Mains Rating: 100 A  
MCB Rating: 100 A

CKT	Load Classification: Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Classification: Load Name	CKT	
1	LTG: LIGHTS @ 101 (WAITING)	20 A	1	843 VA	600 VA			1	20 A	RCP: RECEPTACLES @ 109 (EXAM)	2
3	RCP: RECEPTACLES & TV @ 101 (WAITING)	20 A	1		1260... 600 VA			1	20 A	RCP: RECEPTACLES @ 110 (EXAM)	4
5	RCP: RECEPTACLES & TV @ 101 (WAITING)	20 A	1			1060... 600 VA		1	20 A	RCP: RECEPTACLES @ 111 (EXAM)	6
7	LTG: HVAC: LIGHTS @ 102,103,104,105	20 A	1	403 VA	600 VA			1	20 A	RCP: RECEPTACLES @ 112 (EXAM)	8
9	RCP: RECEPTACLES @ 102 (TOILET)	20 A	1		200 VA	600 VA		1	20 A	RCP: RECEPTACLES @ 113 (EXAM)	10
11	RCP: COUNTERTOPS @ 103 (LAB)	20 A	1			400 VA	600 VA	1	20 A	LTG: LIGHTS @ 114,115,116,117,118,119	12
13	PWR: REFRIGERATOR @ 103 (LAB)	20 A	1	1200... 600 VA				1	20 A	RCP: RECEPTACLES @ 115 (EXAM)	14
15	PWR: REFRIGERATOR @ 103 (LAB)	20 A	1		1200... 600 VA			1	20 A	RCP: RECEPTACLES @ 116 (EXAM)	16
17	PWR: FREEZER @ 103 (LAB)	20 A	1			1200... 600 VA		1	20 A	RCP: RECEPTACLES @ 117 (EXAM)	18
19	RCP: RECEPTACLES @ 104 (TOILET)	20 A	1	200 VA	600 VA			1	20 A	RCP: RECEPTACLES @ 118 (EXAM)	20
21	RCP: RECEPTACLES @ 105 (VISION/HEARING)	20 A	1		600 VA	400 VA		1	20 A	RCP: WALL RECEPT @ 119 (PHONE NURSE)	22
23	LTG: LIGHTS @ 106,107,108	20 A	1			680 VA	800 VA	1	20 A	RCP: DESK RECEPT @ 119 (PHONE NURSE)	24
25	RCP: DESK RECEPT @ 106 (CHECK-IN/OUT)	20 A	1	800 VA							26
27	RCP: DESK RECEPT @ 106 (CHECK-IN/OUT)	20 A	1		800 VA						28
29	RCP: PRINTER @ 106 (CHECK-IN/OUT)	20 A	1			1200...					30
31	RCP: RECEPTACLES @ 108 (EXAM)	20 A	1	600 VA							32
33	LTG: LIGHTS @ 109,110,111,112,113	20 A	1		600 VA						34
35											36
37	: SPARE	20 A	1	0 VA	0 VA			1	20 A	: SPARE	38
39	: SPARE	20 A	1		0 VA	0 VA		1	20 A	: SPARE	40
41	: SPARE	20 A	1			0 VA	0 VA	1	20 A	: SPARE	42
<b>Total Load:</b>				6446 VA	6860 VA	7140 VA					
<b>Total Amps:</b>				54 A	58 A	60 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RCP	13720 VA	86.44%	11860 VA	Total Conn. Load: 20446 VA
PWR	3600 VA	100.00%	3600 VA	Total Est. Demand: 18586 VA
HVAC	103 VA	100.00%	103 VA	Total Conn.: 57 A
LTG	3023 VA	100.00%	3023 VA	Total Est. Demand: 52 A



**2 LIGHTING RELAY PANEL RP2**  
SCALE: 3/16" = 1'-0"

**Branch Panel: G2**  
Location: CHECK IN/OUT 106  
Supply From: F  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 208V / 3Ø  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type: MLO  
Mains Rating: 100 A  
MCB Rating: 100 A

CKT	Load Classification: Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Classification: Load Name	CKT	
1	LTG: HVAC: LIGHTS @ 120,121,122,123	20 A	1	737 VA	1385...			1	20 A	LTG: LIGHTS @ 124,125,126,127	2
3	RCP: RECEPTACLES @ 120 (PROVIDER'S)	20 A	1		800 VA	600 VA		1	20 A	RCP: RECEPTACLES @ 126 (EXAM)	4
5	RCP: RECEPTACLES @ 121 (BACK HALL)	20 A	1			600 VA	600 VA	1	20 A	RCP: RECEPTACLES @ 125 (EXAM)	6
7	RCP: SINK RECEPT @ 122 (TOILET)	20 A	1	200 VA	600 VA			1	20 A	RCP: RECEPTACLES @ 124 (EXAM)	8
9	RCP: DESK RECEPT @ 123 (MANAGER OFFICE)	20 A	1		1000... 800 VA			1	20 A	RCP: DESK RECEPT @ 127 (NURSE)	10
11	RCP: DESK RECEPT @ 123 (MGR OFFICE)	20 A	1			1000... 800 VA		1	20 A	RCP: DESK RECEPT @ 127 (NURSE)	12
13	RCP: DESK RECEPT @ 127 (NURSE)	20 A	1	800 VA	600 VA			1	20 A	RCP: COUNTERTOPS @ 127 (NURSE)	14
15	PWR: REFRIGERATOR @ 127 (NURSE)	20 A	1		1200... 1200...			1	20 A	PWR: REFRIGERATOR @ 127 (NURSE)	16
17	LTG: LIGHTS @ 128 (HALL)	20 A	1			1335...		1	--	CT-2 @ 107 (STORAGE)	18
19	RCP: RECEPTACLES @ 128 (HALL)	20 A	1	800 VA	437 VA			1	20 A	LTG: LIGHTS @ EXTERIOR OF BUILDING	20
21	RCP: RECEPTACLES @ 128 (HALL) & 114	20 A	1		1000... 400 VA			1	20 A	RCP: TELEPHONE BOARD @ 107 (STORAGE)	22
23	RCP: SCALES & RECEPT @ 128 (HALL) & 107	20 A	1			800 VA					24
25	RCP: SCALES & RECEPT @ 128 (HALL)	20 A	1	800 VA							26
27											28
29											30
31											32
33											34
35											36
37	: SPARE	20 A	1	0 VA	0 VA			1	20 A	: SPARE	38
39	: SPARE	20 A	1		0 VA	0 VA		1	20 A	: SPARE	40
41	: SPARE	20 A	1			0 VA	0 VA	1	20 A	: SPARE	42
<b>Total Load:</b>				6110 VA	7000 VA	5135 VA					
<b>Total Amps:</b>				52 A	60 A	43 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RCP	12200 VA	90.98%	11100 VA	Total Conn. Load: 18236 VA
PWR	2400 VA	100.00%	2400 VA	Total Est. Demand: 17137 VA
HVAC	77 VA	100.00%	77 VA	Total Conn.: 51 A
LTG	3577 VA	100.00%	3577 VA	Total Est. Demand: 48 A

Revision Schedule	Description
Rev. #	Date

NWA PEDIATRICS ADDITION  
3730 S PINNACLE HILLS PKWY #3  
ROGERS, AR 72758

MANA  
3383 N MANA CT, SUITE 201  
FAYETTEVILLE, AR 72703

DATE	DRAWN BY
Issue Date	Designer
PROJECT #	CHECKED BY
2438	Checker