

Name: B1

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C. : 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2
1	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5	---	6
7	---		4.0	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8
1	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10
1	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12
1	RECEPT - LIVING	1.2		20	1	2	30	2.4	WH-B	14
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHJ-B	18
19	SPARE			20	1	-	-	3.6	---	20
2	HPJ-B	1.8		20	2	1	20	0.8	LTG. RCPT - DINING	22
23	---		1.8	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	24
1	REFRIGERATOR	1.2		20	1	1	20	0.2	BATHROOM RECEPT.	26
27	SPARE			20	1	1	20	0.4	LTG. EXHAUST FAN - BTHRM	28
29	SPARE			20	1	1	20	-	SPARE	30
		11.1	8.9					11.4	12.7	

- NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

PANEL B1 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 1107 S.F.

CIRCUIT	V.A/S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	4.4
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	3.5
HEATING	-	5.0
TOTAL KVA		36.93
CALCULATED KVA		24.13
TOTAL DEMAND AMPS		100.52

PANEL B2 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 1224 S.F.

CIRCUIT	V.A/S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	4.9
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	3.5
HEATING	-	5.0
TOTAL KVA		37.40
CALCULATED KVA		24.31
TOTAL DEMAND AMPS		101.30

Name: B2

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C. : 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2
1	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5	---	6
7	---		4.0	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8
1	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10
1	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12
1	RECEPT - LIVING	1.2		20	1	2	30	2.4	WH-B	14
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	3.6	AHJ-B	18
19	BATHROOM RECEPT.			20	1	-	-	3.6	---	20
2	HPJ-B	1.8		20	2	1	20	0.8	LTG. RCPT - DINING	22
23	---		1.8	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	24
1	REFRIGERATOR	1.2		20	1	1	20	0.2	BATHROOM RECEPT.	26
27	SPARE			20	1	1	20	0.4	LTG. EXHAUST FAN - BTHRM	28
29	SPARE			20	1	1	20	-	SPARE	30
		11.1	8.9					11.4	12.7	

- NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

Name: C1

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 125 AMPS
 A.I.C. : 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: X

1 PHASE
 3 WIRE
 208Y/120V
 480Y/277V
 X 240/120V

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)		CIRCUIT BREAKER			LOAD/PHASE (KVA)		IDENTIFICATION	C K T N O
		A	B	TRIP	POLES	POLES	TRIP	A		
1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5	WASHER	2
1	SMALL APPLIANCE - KITCHEN		1.5	20	1	2	30	2.5	DRYER	4
5	RANGE	4.0		50	2	-	-	2.5	---	6
7	---		4.0	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	8
1	LTG. RECEPT. - ENTRY, KITCH.	1.0		20	1	1	20	0.4	LTG. RECEPT - EXTERIOR	10
1	DISHWASHER/DISPOSAL		1.5	20	1	1	20	1.0	MICROWAVE/HOOD	12
1	RECEPT - LIVING	1.2		20	1	2	30	2.4	WH-B	14
15	BATHROOM RECEPT.		0.2	20	1	-	-	2.4	---	16
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	30	5.1	AHJ-C	18
19	BATHROOM RECEPT.		0.2	20	1	-	-	5.1	---	20
2	HPJ-C	2.1		20	2	1	20	0.8	LTG. RCPT - DINING	22
23	---		1.8	-	-	1	20	1.4	BEDROOM LTG. AND RECEPT.	24
1	REFRIGERATOR	1.2		20	1	1	20	0.2	BATHROOM RECEPT.	26
27	SPARE			20	1	1	20	0.4	LTG. EXHAUST FAN - BTHRM	28
29	SPARE			20	1	1	20	1.4	BEDROOM LTG. AND RECEPT.	30
		11.5	9.5					14.3	14.2	

- NOTES:
 1. PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER.
 2. CONFIRM MAXIMUM OVERCURRENT DEVICE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

PANEL C1 CALCULATION
 PER NEC 2014, ART. 220.82 OPTIONAL CALCULATION - DWELLING UNIT
 1356 S.F.

CIRCUIT	V.A/S.F.	LOAD (KVA)
SMALL APPLIANCE #1	-	1.5
SMALL APPLIANCE #2	-	1.5
LAUNDRY CIRCUIT	-	1.5
GENERAL LTG. RECEPTACLES	4	5.4
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	5.0
WATER HEATER	-	4.5
COOLING	-	4.3
HEATING	-	8.0
TOTAL KVA		41.70
CALCULATED KVA		27.24
TOTAL DEMAND AMPS		113.51



ENGLISH & ASSOCIATES
 ARCHITECTS, INC.
 3084 MERCER UNIVERSITY DRIVE, SUITE 100
 ATLANTA, GEORGIA 30341
 DENGGLISH@ENGLISHASSOCIATESINC.COM

JOB PROGRESS:
 ITEM: DATE:

REVISIONS:
 TAG: DATE:

This drawing, as an instrument of service, is and shall remain the property of the Architect or Record and shall not be published, reproduced or used in any way without the written permission of the Architect or Record. DO NOT scale this drawing. All questions to be submitted as a formal request for information to the Architect or Record.

ALEXANDRIA
 AN APARTMENT COMMUNITY
 FOR
 Bobo Family Group
 HUNTSVILLE, ALABAMA

JOB NUMBER:
 DRAWN BY:
 CHECKED BY:
 PANELBOARDS

SHEET NO.
 E-15.7