

Name: B2

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

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

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			C K T N O	IDENTIFICATION	
		A	B	TRIP	POLES	POLES	TRIP	A	B	TRIP			
1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5			2	1	WASHER
3	SMALL APPLIANCE - KITCHEN	1.5	1.5	20	1	2	30		2.5		4		DRYER
5	RANGE	4.0		50	2			2.5			6		
7	---		4.0		1	20			1.4		8	1	BEDROOM LTG. AND RECEPT.
9	LTG. RECEPT. - ENTRY, KITCH.	1.1		20	1	1	20	0.6			10	1	EXTERIOR LTG. AND RECEPT.
11	DISHWASHER/DISPOSAL	1.5	1.5	20	1	1	20		1.0		12	1	MICROWAVEHOOD
13	RECEPT. - LIVING	1.4		20	1	2	30	2.3			14	2	WH-B
15	BATHROOM RECEPT.	0.2	0.2	20	1				2.3		16		---
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	25	2.4			18	2	AHU-B
19	BATHROOM RECEPT.	0.2	0.2	20	1				2.4		20		---
21	BEDROOM LTG. AND RECEPT.	1.0		20	1	1	20	1.0			22	1	REFRIGERATOR
23	LTG. EXHAUST FAN - BTHRM	0.6	0.6	20	1	1			0.8		24		LTG. RECEPT. - DINING
25	BATHROOM RECEPT.	0.2		20	1	1	20				26	1	SPARE
27	HPU-B	1.8	1.8	30	2	1	20				28		SPARE
29	---	1.8				1					30		SPACE ONLY
		11.4	9.8					10.2	10.3				

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

PANEL B2 CALCULATION
 PER NEC 2002, ART. 220.30 OPTIONAL CALCULATION - DWELLING UNIT
 1179 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	6	7.1
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	4.0
WATER HEATER	-	4.5
COOLING	-	4.8
HEATING	-	3.6
TOTAL KVA		38.50
CALCULATED KVA		22.31
TOTAL DEMAND AMPS		107.26

PANEL C1 CALCULATION
 PER NEC 2002, ART. 220.30 OPTIONAL CALCULATION - DWELLING UNIT
 1389 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	8	11.1
RANGE	-	8.0
EXHAUST HOOD	-	0.5
DISHWASHER	-	0.8
DISPOSAL	-	0.7
DRYER	-	4.0
WATER HEATER	-	4.5
COOLING	-	7.1
HEATING	-	3.9
TOTAL KVA		45.07
CALCULATED KVA		25.00
TOTAL DEMAND AMPS		120.20

- NOTES:
 1. PROVIDE SHUNT TRIP FOR ELEVATOR SHUT DOWN.

Name: C1

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

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

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			C K T N O	IDENTIFICATION	
		A	B	TRIP	POLES	POLES	TRIP	A	B	TRIP			
1	SMALL APPLIANCE - KITCHEN	1.5		20	1	1	20	1.5			2	1	WASHER
3	SMALL APPLIANCE - KITCHEN	1.5	1.5	20	1	2	30		2.5		4		DRYER
5	RANGE	4.0		50	2			2.5			6		
7	---		4.0		1	20			1.4		8	1	BEDROOM LTG. AND RECEPT.
9	LTG. RECEPT. - KITCH, ENTRY, DIN.	1.1		20	1	1	20	0.6			10	1	EXTERIOR LTG. AND RECEPT.
11	DISHWASHER/DISPOSAL	1.5	1.5	20	1	1	20		1.0		12	1	MICROWAVEHOOD
13	RECEPT. - LIVING	1.4		20	1	2	30	2.3			14	2	WH-B
15	BATHROOM RECEPT.	0.2	0.2	20	1				2.3		16		---
17	LTG. EXHAUST FAN - BTHRM	0.4		20	1	2	35	3.5			18	2	AHU-B
19	BEDROOM LTG. AND RECEPT.	1.0	1.0	20	1				3.5		20		---
21	BEDROOM LTG. AND RECEPT.	1.0		20	1	1	20	1.0			22	1	LTG. RECEPT. - DINING
23	LTG. EXHAUST FAN - BTHRM	0.6	0.6	20	1	1			1.0		24	1	REFRIGERATOR
25	BATHROOM RECEPT.	0.2		20	1	1	20				26	1	BATHROOM RECEPT.
27	HPU-C	1.9	1.9	30	2	1	20				28		SPARE
29	---	1.9				1					30		SPARE
		11.5	10.7					11.4					

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

Name: HP1

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 300 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: X
 FLUSH MTD: _____

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

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			C K T N O	IDENTIFICATION	
		A	B	C	TRIP	POLES	POLES	TRIP	A	B			C
1	CORRIDOR LTG - TERRACE/GROUND	0.8			20	1	1	20				2	SPARE
3	CORRIDOR LTG - 2ND,3RD,4TH		1.1		20	1	1	20		0.2		4	ELEVATOR PIT LIGHTING RECEPT.
5	LIGHTING - STAIRS			0.3	20	1	1	20			0.9	6	ELEVATOR PIT SUMP
7	RECEPTACLES - TERRACE	1.2			20	1	3	100	6.0			8	ELEVATOR
9	RECEPTACLES - GROUND		1.0		20	1				6.0		10	---
11	RECEPTACLES - GROUND			0.8	20	1				6.0		12	---
13	RECEPTACLES - 2ND	1.0			20	1						14	---
15	RECEPTACLES - 2ND		0.8		20	1	1	20		0.5		16	ELEVATOR CAB LIGHTING
17	RECEPTACLES - 3RD			1.0	20	1	1	20				18	HEAT TRACE
19	RECEPTACLES - 3RD	0.8			20	1	1	20	0.5			20	HEAT TRACE
21	RECEPTACLES - 4TH		0.8		20	1	1	20				22	SPARE
23	RECEPTACLES - EXTERIOR			0.2	20	1	1	20				24	SPARE
25	RECEPTACLES - ROOF	0.2			20	1	1	20				26	SPARE
27	RECEPTACLES - ROOF		0.4		20	1	1	20				28	SPARE
29	SPARE				20	1	1	20				30	SPARE
31	SPARE				20	1	1	20				32	SPARE
33	SPARE				20	1	1	20				34	SPARE
35	SPARE				20	1	1	20				36	SPARE
37	SPARE				20	1	1	20				38	SPARE
39	SPARE				20	1	1	20				40	SPARE
41	SPARE				20	1	1	20				42	SPARE
		4.0		2.3					6.6	6.7	7.4		

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	1.25	1.00	11.4
RECEPTACLES (R)	1.25	1.00	10.8
LARGEST MOTOR (M)	1.00	1.00	22.5
ALL OTHER MOTORS	1.00	1.00	10.3
HEATING (H)	1.00	1.00	21.0
COOLING (C)	1.00	1.00	0.0
OTHER (O)	1.00	1.00	9.9
KITCHEN (K)	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 79.9 KVA
 TOTAL DEMAND LOAD: 85.9 KVA
 DEMAND AMPS: 238.8 AMPS

PERCENT IMBALANCE: 11 %

- NOTES:
 1. PROVIDE SHUNT TRIP FOR ELEVATOR SHUT DOWN.

Name: HP2

MAIN BREAKER: _____ AMPS
 MAIN LUGS: 300 AMPS
 A.I.C.: 42,000 AMPS
 SURFACE MTD: _____
 FLUSH MTD: _____

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

C K T N O	IDENTIFICATION	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			C K T N O	IDENTIFICATION	
		A	B	C	TRIP	POLES	POLES	TRIP	A	B			C
1	CORRIDOR LTG - GROUND	1.1			20	1	1	20	0.5			2	HEAT TRACE
3	CORRIDOR LTG - 2ND		1.2		20	1	1	20		0.5		4	HEAT TRACE
5	CORRIDOR LTG - 3RD			1.2	20	1	1	20				6	SPARE
7	CORRIDOR LTG - 4TH	1.2			20	1	2	60	4.0			8	PANEL G
9	LIGHTING - STAIRS		0.1		20	1				5.4		10	---
11	RECEPTACLES - GROUND			1.2	20	1	1	20				12	SPARE
13	RECEPTACLES - GROUND	0.8			20	1	2	60	4.0			14	PANEL G
15	RECEPTACLES - GROUND		0.8		20	1				5.4		16	---
17	RECEPTACLES - 2ND			1.2	20	1	1	20				18	SPARE
19	RECEPTACLES - 2ND	0.8			20	1	1	20				20	SPARE
21	RECEPTACLES - 2ND		0.8		20	1	1	20				22	SPARE
23	RECEPTACLES - 3RD			1.2	20	1	1	20				24	SPARE
25	RECEPTACLES - 3RD	0.8			20	1	1	20				26	SPARE
27	RECEPTACLES - 3RD		0.8		20	1	1	20				28	SPARE
29	RECEPTACLES - 4TH			1.2	20	1	1	20				30	SPARE
31	RECEPTACLES - 4TH	0.8			20	1	1	20				32	SPARE
33	RECEPTACLES - 4TH		0.8		20	1	1	20				34	SPARE
35	RECEPTACLES - ROOF			1.2	20	1	1	20				36	SPARE
37	SPARE				20	1	1	20				38	SPARE
39	SPARE				20	1	1	20				40	SPARE
41	SPARE				20	1	1	20				42	SPARE
		5.5	4.5	7.2					8.5	11.3	0.0		

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	1.25	1.00	13.9
RECEPTACLES (R)	1.25	1.00	12.9
LARGEST MOTOR (M)	1.00	1.00	9.4
ALL OTHER MOTORS	1.00	1.00	9.4
HEATING (H)	1.00	1.00	21.0
COOLING (C)	1.00	1.00	0.0
OTHER (O)	1.00	1.00	28.7
KITCHEN (K)	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 86.0 KVA
 TOTAL DEMAND LOAD: 85.8 KVA
 DEMAND AMPS: 238.6 AMPS

PERCENT IMBALANCE: 55 %

- NOTES:
 1. PROVIDE SHUNT TRIP FOR ELEVATOR SHUT DOWN.



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JOB No: 1701
 DRAWN BY:
 CHECK BY:
 JOB PROGRESS:
 ITEM DATE
 PRICING SET 07-14-2017
 PERMIT SET 02-28-2018

REVISIONS:
 DATE NO

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