PANEL H1 (SECTION 1)

LOCATION: BUILDING TYPE I | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE-D | MAINS: 300A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER #1B | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	2
3	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	4
5	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	C	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	6
7	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	8
9	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	10
11	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.18	C	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	12
13	RECEPS – TTB		12	12	12	1/2"	20/1	0.36	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	14
15	RECEPS – TTB		12	12	12	1/2"	20/1	0.36	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	16
17	FACP		12	12	12	1/2"	20/1	0.50	C	1.00	20/1	12	12	12	1/2"		ELEVATOR PIT LIGHTS/RECEPTACLES	18
19	LIGHTING – EXTERIOR		10	10	10	1/2"	20/1	0.16	A	1.00	20/1	12	12	12	1/2"		SUMP PUMP	20
21	LIGHTING – GARAGES		10	10	10	1/2"	20/1	0.20	B	4.80	60/3	4	4	10	1.25"		ELEVATOR CONTROLLER	22
23	LIGHTING – STAIRS		10	10	10	1/2"	20/1	0.42	C	4.80	–	4	–	–	–		–	24
25	LIGHTING – STAIRS		10	10	10	1/2"	20/1	0.42	A	4.80	–	4	–	–	–		–	26
27	LIGHTING – FIRST FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.80	B	1.00	20/1	12	12	12	1/2"		ELEVATOR CAB LIGHTS	28
29	LIGHTING – SECOND FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.39	C	–	20/1	–	–	–	–		SPARE	30
31	LIGHTING – THIRD FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.39	A	–	20/1	–	–	–	–		SPARE	32
33	LIGHTING – FOURTH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.39	B	–	20/1	–	–	–	–		SPARE	34
35	RECEPS – ROOF TOP		10	10	10	1/2"	20/1	0.72	C	–	20/1	–	–	–	–		SPARE	36
37	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	38
39	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	40
41	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
LIGHTING	3.17 KVA		125%	3.96 KVA
RECEPTACLES – GENERAL	5.22 KVA		100%	5.22 KVA
EQUIPMENT	25.90 KVA		100%	25.90 KVA
SECOND SECTION	33.06 KVA		100%	33.06 KVA

NOTES:

TOTAL DEMAND LOAD: 68.14 KVA
TOTAL DEMAND AMPS: 189.28 AMPS

PANEL H1 (SECTION 2)

LOCATION: BUILDING TYPE I | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE-D | MAINS: 300A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER #1B | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
43	AHU 1.1		10	10	10	1/2"	30/2	2.25	A	1.16	20/2	10	10	10	1/2"		MCU–1	44
45	–		10	–	–	–	–	2.25	B	1.16	–	10	–	–	–		–	46
47	AHU 1.2		10	10	10	1/2"	30/2	2.25	C	1.16	20/2	10	10	10	1/2"		MCU–1	48
49	–		10	–	–	–	–	2.25	A	1.16	–	10	–	–	–		–	50
51	AHU 1.3		10	10	10	1/2"	30/2	2.25	B	1.42	25/2	10	10	10	1/2"		CU–1.1	52
53	–		10	–	–	–	–	2.25	C	1.42	–	10	–	–	–		–	54
55	AHU 1.4		10	10	10	1/2"	30/2	2.25	A	1.18	25/2	10	10	10	1/2"		CU 1.2	56
57	–		10	–	–	–	–	2.25	B	1.18	–	10	–	–	–		–	58
59	FIRE SMOKE DAMPERS		10	10	10	1/2"	20/1	0.50	C	1.18	25/2	10	10	10	1/2"		CU 1.3	60
61	SPACE ONLY		–	–	–	–	–	–	A	1.18	–	10	–	–	–		–	62
63	SPACE ONLY		–	–	–	–	–	–	B	1.18	25/2	10	10	10	1/2"		CU 1.4	64
65	SPACE ONLY		–	–	–	–	–	–	C	1.18	–	10	–	–	–		–	66
67	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	68
69	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	70
71	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	72
73	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	74
75	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	76
77	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	78
79	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	80
81	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	82
83	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	84

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
EQUIPMENT	33.06 KVA		100%	33.06 KVA

NOTES:

TOTAL DEMAND LOAD: 33.06 KVA
LOAD CARRIED OVER TO FIRST SECTION

PANEL H2 (SECTION 1)

LOCATION: BUILDING TYPE II | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE-D | MAINS: 300A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER #2B | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
1	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	2
3	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	4
5	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	C	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	6
7	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	8
9	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.72	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	10
11	RECEPS – CORRIDOR		10	10	10	1/2"	20/1	0.18	C	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	12
13	RECEPS – TTB		12	12	12	1/2"	20/1	0.36	A	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	14
15	RECEPS – TTB		12	12	12	1/2"	20/1	0.36	B	1.00	20/1	12	12	12	1/2"		GARAGE RECEPTACLES	16
17	FACP		12	12	12	1/2"	20/1	0.50	C	1.00	20/1	12	12	12	1/2"		ELEVATOR PIT LIGHTS/RECEPTACLES	18
19	LIGHTING – EXTERIOR		10	10	10	1/2"	20/1	0.16	A	1.00	20/1	12	12	12	1/2"		SUMP PUMP	20
21	LIGHTING – GARAGES		10	10	10	1/2"	20/1	0.20	B	4.80	60/3	4	4	10	1.25"		ELEVATOR CONTROLLER	22
23	LIGHTING – STAIRS		10	10	10	1/2"	20/1	0.42	C	4.80	–	4	–	–	–		–	24
25	LIGHTING – STAIRS		10	10	10	1/2"	20/1	0.42	A	4.80	–	4	–	–	–		–	26
27	LIGHTING – FIRST FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.68	B	1.00	20/1	12	12	12	1/2"		ELEVATOR CAB LIGHTS	28
29	LIGHTING – SECOND FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	C	–	20/1	–	–	–	–		SPARE	30
31	LIGHTING – THIRD FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	A	–	20/1	–	–	–	–		SPARE	32
33	LIGHTING – FOURTH FLOOR CORRIDOR		10	10	10	1/2"	20/1	0.30	B	–	20/1	–	–	–	–		SPARE	34
35	RECEPS – ROOF TOP		10	10	10	1/2"	20/1	0.72	C	–	20/1	–	–	–	–		SPARE	36
37	SPARE		–	–	–	–	20/1	–	A	–	20/1	–	–	–	–		SPARE	38
39	SPARE		–	–	–	–	20/1	–	B	–	20/1	–	–	–	–		SPARE	40
41	SPARE		–	–	–	–	20/1	–	C	–	20/1	–	–	–	–		SPARE	42

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
LIGHTING	2.78 KVA		125%	3.48 KVA
RECEPTACLES – GENERAL	5.22 KVA		100%	5.22 KVA
EQUIPMENT	25.90 KVA		100%	25.90 KVA
SECOND SECTION	35.96 KVA		100%	35.96 KVA

NOTES:

TOTAL DEMAND LOAD: 70.56 KVA
TOTAL DEMAND AMPS: 196.00 AMPS

PANEL H2 (SECTION 2)

LOCATION: BUILDING TYPE II | VOLTAGE: 208Y/120V 3ø 4W | MIN. AIC RATING: 22K AIC
TYPE: SQUARE-D | MAINS: 300A ☒ MLO ☐ MCB | MOUNTING: SURFACE
FED FROM: METER CENTER #2B | LUGS: ☐ SUB-FEED ☐ FEED-THRU | ENCLOSURE: NEMA 1

NOTES: PROVIDE TYPED WRITTEN DIRECTORY PROVIDE GROUND & NEUTRAL BUS

CKT	CIRCUIT DESCRIPTION	NOTES	BRANCH CIRCUIT ø	NEUT	GND	COND	BKR	LOAD KVA	PHASE ø	LOAD KVA	BKR	BRANCH CIRCUIT ø	NEUT	GND	COND	NOTES	CIRCUIT DESCRIPTION	CKT
43	AHU 2.1		10	10	10	1/2"	30/2	2.25	A	1.16	20/2	10	10	10	1/2"		MCU–1	44
45	–		10	–	–	–	–	2.25	B	1.16	–	10	–	–	–		–	46
47	AHU 2.2		10	10	10	1/2"	30/2	2.25	C	1.16	20/2	10	10	10	1/2"		MCU–1	48
49	–		10	–	–	–	–	2.25	A	1.16	–	10	–	–	–		–	50
51	AHU 2.3		10	10	10	1/2"	30/2	2.25	B	1.42	25/2	10	10	10	1/2"		CU–2.1	52
53	–		10	–	–	–	–	2.25	C	1.42	–	10	–	–	–		–	54
55	AHU 2.4		10	10	10	1/2"	30/2	2.25	A	1.18	25/2	10	10	10	1/2"		CU 2.2	56
57	–		10	–	–	–	–	2.25	B	1.18	–	10	–	–	–		–	58
59	FIRE SMOKE DAMPERS		10	10	10	1/2"	20/1	0.50	C	1.18	25/2	10	10	10	1/2"		CU 2.3	60
61	SITE GATE MOTOR	1	10	10	10	3/4"	20/1	1.20	A	1.18	–	10	–	–	–		–	62
63	SITE GATE MOTOR	1	10	10	10	3/4"	20/1	1.20	B	1.18	25/2	10	10	10	1/2"		CU 2.4	64
65	SITE GATE SENSOR	1	10	10	10	3/4"	20/1	0.50	C	1.18	–	10	–	–	–		–	66
67	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	68
69	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	70
71	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	72
73	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	74
75	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	76
77	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	78
79	SPACE ONLY		–	–	–	–	–	–	A	–	–	–	–	–	–		SPACE ONLY	80
81	SPACE ONLY		–	–	–	–	–	–	B	–	–	–	–	–	–		SPACE ONLY	82
83	SPACE ONLY		–	–	–	–	–	–	C	–	–	–	–	–	–		SPACE ONLY	84

EQUIPMENT SERVED	CONN. LOAD	L.F.	D.F.	DEMAND LOAD
EQUIPMENT	35.96 KVA		100%	35.96 KVA

NOTES:
1) CIRCUIT APPLIES TO BUILDING #1 ONLY

TOTAL DEMAND LOAD: 35.96 KVA
LOAD CARRIED OVER TO FIRST SECTION

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP MODEL	FIXTURE WATTS
BA	SURFACE MOUNTED LED LOCATED AT MAIN CORRIDORS.	TBD	TBD	120	1	17	LED	17
BB	DECORATIVE EXTERIOR WALL SCONCE LOCATED AT BUILDING ENTRANCES. UL WET LABEL RATED.	TBD	TBD	120	1	15	LED	15
BC	SURFACE MOUNTED LED LOCATED AT STORAGE CLOSESTS.	TBD	TBD	120	1	17	LED	17
BD	WELL MOUNTED LED STAIRWELL WITH INTEGRATED MOTION SENSOR AND BI–LEVEL BALLAST	PHILIPS	SF–4–C–38A–40–U–DZT–US–EMLED	120	1	53	LED	53
BF	4' SURFACE MOUNTED HIGH OUTPUT LED WRAP WITH EMERGENCY BATTERY BACKUP.	PRUDENTIAL LIGHTING	S1–LED35–HO–4–WA–YGW–UNV–SUR–ND–EMH	120	1	44	LED	44
BG	4' LED WRAPAROUND FIXTURE LOCATED AT GARAGES, MECHANICAL ROOMS, AND ELECTRICAL ROOMS.	COLUMBIA	LAW–4–30–LW–E–U	120	1	25	LED	25
EM	WALL MOUNTED EMERGENCY LIGHT WITH THERMOPLASTIC HOUSING, TWIN HEADS AND BATTERY BACKUP	DUAL LITE	EV4–02L	120	2	2	LED	4
EM2	WALL MOUNTED EMERGENCY LIGHT WITH THERMOPLASTIC HOUSING, TWIN HEADS AND BATTERY BACKUP, WET LOCATION.	DUAL LITE	EV4–02L	120	2	2	LED	4
X1	SINGLE FACE EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, RED LETTERS AND BATTERY BACKUP	DUAL LITE	EVE–U–R–W–E	120	–	–	LED	–
X2	DOUBLE FACE EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, RED LETTERS AND BATTERY BACKUP	DUAL LITE	EVE–U–R–W–E	120	–	–	LED	–

BLAKE L. SUDDETH LICENSE No. 69060 STATE OF FLORIDA PROFESSIONAL ENGINEER

Blake Suddeth
Jan 17 2018 2:49 PM

PERMIT REVIEW STAMP

ISSUE HISTORY

No.	Date	Description
1	1/18/2018	ISSUE FOR PERMIT

REVISION HISTORY

No.	Date	Description

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SUMMER BAY APTS. II
LAKE COUNTY, FL

Drawn:	MJR/KCM
Checked:	BLS/AJB
Approval:	BLS/AJB
Date:	11/10/2017
Project #:	5389

SCHEDULES - ELECTRICAL

E6.03

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