Name: G

MAIN BREAKER: 60 AMPS
MAIN LUGS: AMPS
A.I.C. : AMPS
SURFACE MTD:
FLUSH MTD: X

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

NOTES	CKT NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	CIRCUIT BREAKER TRIP	POLES	POLES	CIRCUIT BREAKER TRIP	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	CODE	IDENTIFICATION	CKT NO	NOTES
	1	LIGHTING	L	0.7		20	1	1	20	0.6		R	RECEPTACLES	2	
	3	SPARE				20	1	1	20		0.6	R	RECEPTACLES	4	
	5	LIGHTING - EXTERIOR	L	0.1		20	1	1	20	0.2		R	RECEPTACLES - EXTERIOR	6	
	7	GARAGE DOOR OPENER	E		1.2	20	1	1	20		1.2	E	GARAGE DOOR OPENER	8	
	9	GARAGE DOOR OPENER	E	1.2		20	1	1	20	1.2		E	GARAGE DOOR OPENER	10	
	11	GARAGE DOOR OPENER	E		1.2	20	1	1	20		1.2	E	GARAGE DOOR OPENER	12	
				2.0	2.4					2.0	3.0				

	CONNECTED	D.F.	DEMAND
LIGHTING (L)	0.8	1.25	1.0
RECEPTACLES (R)	1.4	NEC	1.4
MOTORS (M)	0.0	1.0	0.0
HVAC (H)	0.0	1.0	0.0
EQUIPMENT (E)	7.2	1.0	7.2

TOTAL CONNECTED: 9.4 KVA
TOTAL DEMAND: 9.6 KVA
TOTAL AMPS: 40.1 AMPS

NOTES:
1. PROVIDE NEMA 3R ENCLOSURE.

Name: HCM

MAIN BREAKER: AMPS
MAIN LUGS: 200 AMPS
A.I.C. : 10,000 AMPS
SURFACE MTD: X
FLUSH MTD:

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

NOTES	CKT NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	LOAD/PHASE (KVA) C	CIRCUIT BREAKER TRIP	POLES	POLES	CIRCUIT BREAKER TRIP	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	LOAD/PHASE (KVA) C	CODE	IDENTIFICATION	CKT NO	NOTES
	1	LIGHTING	L	0.6			20	1	3	30	2.1			M	BOOSTER PUMP	2	
	3	POOL PUMP	M		1.4		20	2	-	--		2.1		M	---	4	
	5	---	M			1.4	--	-	-	--			2.1	M	---	6	
	7	POOL PUMP	M	1.4			20	2	3	30	2.1			M	BOOSTER PUMP	8	
	9	---	M		1.4		--	-	-	--		2.1		M	---	10	
	11	POOL PUMP	M			1.4	20	2	-	--			2.1	M	---	12	
	13	---	M	1.4			--	-	2	20	2.0			H	TWHP-B	14	
	15	RECEPTACLES	R		0.4		20	1	-	--		2.0		H	---	16	
	17	RECEPTACLES	R			0.4	20	1	2	30			2.5		EUH-A	18	
	19	RECEPTACLES	R	0.8			20	1	-	--	2.5				---	20	
	21	RECEPTACLES	R		0.6		20	1	1	20					SPARE	22	
2	23	SPARE					20	1	1	20					SPARE	24	
2	25	SPARE					30	2	1	20					SPARE	26	
	27	SPARE					--	-	1	20					SPARE	28	
2	29	SPARE					20	1	1	20					SPARE	30	
2	31	SPARE					20	2	1	20					SPARE	32	
	33	SPARE					--	-	1	20					SPARE	34	
2	35	SPARE					20	1	1	20					SPARE	36	
2	37	SPARE					30	2	1	20					SPARE	38	
	39	SPARE					--	-	1	20					SPARE	40	
	41	SPARE					20	1	1	20					SPARE	42	
				4.2	3.8	3.2					8.7	6.2					

	CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	0.6	1.25	1.00	0.8
RECEPTACLES (R)	2.2	---	NEC	2.2
LARGEST MOTOR (M)	6.3	1.25	1.00	7.9
ALL OTHER MOTORS (M)	14.7	1.00	1.00	14.7
HEATING (H)	4.1	1.00	1.00	4.1
COOLING (C)	0.0	1.00	1.00	0.0
OTHER (O)	0.0	1.00	1.00	0.0
KITCHEN (K)	0.0	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 23.9 KVA
TOTAL DEMAND LOAD: 27.6 KVA
TOTAL DEMAND AMPS: 82.2 AMPS

PERCENT IMBALANCE: 23 %

NOTES:

Name: HC

MAIN BREAKER: AMPS
MAIN LUGS: 400 AMPS
A.I.C. : 10,000 AMPS
SURFACE MTD: X
FLUSH MTD:

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

NOTES	CKT NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	LOAD/PHASE (KVA) C	CIRCUIT BREAKER TRIP	POLES	POLES	CIRCUIT BREAKER TRIP	LOAD/PHASE (KVA) A	LOAD/PHASE (KVA) B	LOAD/PHASE (KVA) C	CODE	IDENTIFICATION	CKT NO	NOTES
	1	LIGHTING - EXTERIOR	L	0.1			20	1	1	20	1.0			R	RECEPTACLES	2	
	3	LIGHTING - GROUND	L		0.6		20	1	1	20		0.4		R	RECEPTACLES	4	
	5	LIGHTING - GROUND	L			1.3	20	1	1	20			0.2	R	RECEPTACLES	6	
	7	LIGHTING - 2ND FLOOR	L	0.5			20	1	1	20	0.6			R	RECEPTACLES	8	
	9	RECEPTACLES	R		1.2		20	1	1	20		1.2		R	REFRIGERATOR	10	
	11	RECEPTACLES	R			1.2	20	1	1	20			0.4	R	RECEPTACLES	12	
	13	RECEPTACLES	R	1.2			20	1	1	20	0.2			R	RECEPTACLES	14	
	15	RECEPTACLES	R		1.2		20	1	1	20		1.4		R	DISHWASHER/DISPOSAL	16	
	17	RECEPTACLES	R			1.2	20	1	1	20			0.6	R	RECEPTACLES	18	
	19	RECEPTACLES	R	0.6			20	1	1	20	1.2			R	RECEPTACLES	20	
	21	RECEPTACLES	R		1.2		20	1	1	20		1.2		R	RECEPTACLES	22	
	23	RECEPTACLES	R			0.8	20	1	1	20			1.2	R	RECEPTACLES	24	
	25	RECEPTACLES	R	0.6			20	1	1	20	0.6			R	RECEPTACLES	26	
	27	EWC	R		1.2		20	1	1	20		1.0		R	RECEPTACLES	28	
	29	RECEPTACLES	R			0.6	20	1	1	20			0.4	R	RECEPTACLES	30	
	31	RECEPTACLES	R	0.4			20	1	1	20	0.4			R	RECEPTACLES	32	
	33	RECEPTACLES	R		0.4		20	1	1	20		0.4		R	RECEPTACLES	34	
	35	RECEPTACLES	R			0.4	20	1	2	30			2.3	H	---	36	
2	37	AHU-1	H	8.0			80	2	-	--	2.3			H	---	38	
	39	---	H		8.0		--	-	2	50		3.1		C	HPU-1	40	2
2	41	AHU-2	H			6.9	70	2	-	--			3.1	C	---	42	
	43	---	H	6.9			--	-	2	40	2.5			C	HPU-2	44	2
2	45	AHU-3	H		8.9		70	2	-	--		2.5		C	---	46	
	47	---	H			6.9			2	30			1.9	C	HPU-3	48	2
2	49	AHU-4	H	5.2			50	2	-	--	1.9			C	---	50	
	51	---	H		5.2		--	-	2	25		1.8		C	HPU-4	52	2
	53	SPARE					20	1	-	--			1.8	C	---	54	
	55	SPARE					20	1	-	200	2.9			O	PANEL HCM	56	
	57	SPARE					20		-	--		10.0		O	---	58	
	59	SPARE					20		-	--			9.9	O	---	60	
				23.5	25.9	19.2					23.0	21.9					

	CONN LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	2.6	1.25	1.00	3.3
RECEPTACLES (R)	9.8	---	NEC	12.3
LARGEST MOTOR (M)	0.0	1.25	1.00	0.0
ALL OTHER MOTORS (M)	0.0	1.00	1.00	0.0
HEATING (H)	58.4	1.00	1.00	58.4
COOLING (C)	18.6	1.00	1.00	18.6
OTHER (O)	32.8	1.00	1.00	32.8
KITCHEN (K)	0.0	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 137.1 KVA
TOTAL DEMAND LOAD: 130.3 KVA
DEMAND AMPS: 362.2 AMPS

PERCENT IMBALANCE: 16 %

NOTES:
1. CONNECT VIA PHOTOCELL.
2. CONFIRM REQUIREMENTS OF HVAC EQUIPMENT WITH ACTUAL EQUIPMENT TO BE INSTALLED.

MECHANICAL EQUIPMENT SCHEDULE

TAG	EQUIPMENT	LOAD (KVA)	VOLTS	PH.	BRANCH CIRCUIT CONDUCTORS	DISCONNECT	NOTES
AHU A	AIR HANDLING UNIT	4.784	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
AHU B	AIR HANDLING UNIT	4.784	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
AHU C	AIR HANDLING UNIT	7.072	208	1	(2) #8, (1) #10 G CU, 3/4" C	30A/NF	
HPU A	HEAT PUMP UNIT	2.454	208	1	(2) #12, (1) #12 G CU, 3/4" C	30A/NF	
HPU B	HEAT PUMP UNIT	3.64	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
HPU C	HEAT PUMP UNIT	3.889	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
AHU 1	AIR HANDLING UNIT	16.016	208	1	(2) #3, (1) #8 G CU, 1-1/4" C	100A/NF	
AHU 2	AIR HANDLING UNIT	11.088	208	1	(2) #4, (1) #8 G CU, 1-1/4" C	100A/NF	
AHU 3	AIR HANDLING UNIT	13.72	208	1	(2) #4, (1) #8 G CU, 1-1/4" C	100A/NF	
AHU 4	AIR HANDLING UNIT	7.04	208	1	(2) #6, (1) #10 G CU, 1" C	60A/NF	
HPU	HEAT PUMP UNIT	6.115	208	1	(2) #6, (1) #10 G CU, 1" C	60A/NF	
HPU 2	HEAT PUMP UNIT	5.033	208	1	(2) #8, (1) #10 G CU, 1" C	60A/NF	
HPU 3	HEAT PUMP UNIT	3.889	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
HPU 4	HEAT PUMP UNIT	3.556	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
WH A	WATER HEATER	4.5	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
WH B	WATER HEATER	4.5	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
WH C	WATER HEATER	6.24	208	1	(2) #8, (1) #10 G CU, 1" C	60A/NF	
WH D	WATER HEATER	4.5	208	1	(2) #10, (1) #10 G CU, 3/4" C	30A/NF	
TWHP A	THRU WALL HEAT PUMP	4.056	208	1	(2) #12, (1) #12 G CU, 3/4" C	30A/NF	
TWHP B	THRU WALL HEAT PUMP	4.056	208	1	(2) #12, (1) #12 G CU, 3/4" C	30A/NF	

GENERAL NOTES (FOR ALL SCHEDULED EQUIPMENT):
A. FIELD-VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED OVERCURRENT

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ALABAMA LICENSED No. 28364 PROFESSIONAL ENGINEER DAVID C. ENGLISH, JR. 03-02-18

JOB No: 1701
DRAWN BY:
CHECK BY:

JOB PROGRESS:
ITEM DATE
PRICING SET 07-14-2017
PERMIT SET 02-26-2018

REVISIONS:
DATE NO.

Legacy at Jones Farm Phase 2
HUNTSVILLE, ALABAMA
AN APARTMENT COMMUNITY FOR
RBJ BAILEY, LLC

ELECTRICAL
PANELBOARD SCHEDULES

SHEET NO.
E-14.3