

PANEL			MCP		CIRCUITS		32		MAIN BREAKER: NA AMP		MANUAL: 600 AMP		1 PHASE		3 WIRE		K.A.I.C.: 42 AMP		SURFACE		X		240V/200		FEED THRU	
TYP E	C K T N O	IDENTIFICATION	WIRE	GND.	COND	CIRCUIT BREAKER	LOAD/PHASE (VA)						BREAKER		WIRE	GND.	COND	IDENTIFICATION	TYP E	C K T N O						
							TRIP		POLES		B		C								POLES		TRIP			
1	PANEL A	3/0	6	2"	200	2	23.4	A			23.2		1	20				SPACE	2	18						
6	PANEL B	3/0	6	2"	200	2	16.3	0.6					1	20	12	12	3/4"	LANDSCAPE/LTS	6	78						
7	PANEL B	3/0	6	2"	200	2	28.4	0.6			18.0	0.6	1	20	12	12	3/4"	LANDSCAPE/LTS	8	78						
11	PANEL C	3/0	6	2"	200	2					27.3	0.6	1	20	12	12	3/4"	LANDSCAPE/LTS	10	78						
13	PANEL AC1	3/0	6	2"	200	2	18.5	0.2					1	20	12	12	1/2"	CASCADE WATER FEATURE	12	10						
15	PANEL AC2	3/0	6	2"	200	2					17.9							TIMBER	14	15						
19	PANEL C	3/0	6	2"	200	2	17.9				17.9							SPACE	16	18						
21	PANEL G	1	6	1-10"	125	2	7.8											SPACE	20	22						
23	SPACE																	SPACE	22	24						
25	SPACE						1.0						1	20	12	12	1/2"	SPACE	26	28						
27	SPACE										1.0		1	20	12	12	1/2"	GENERATOR HEATER	28	GF						
29	SPACE												2	30	10	10	1/2"	GENERATOR BATTERY	30	GF						
31	SPACE																	TVS8	32	32						
TOTAL CONNECTED LOAD PER PHASE							111.3	2.2			111.8	11.3														
TOTAL CONNECTED LOAD PANEL A										227.3																
TOTAL CONNECTED LOAD PANEL B										847.1																
TOTAL DEMAND										666.7																

AF - ARC FAULT PROTECTED CIRCUIT BREAKER
GF - GFI GROUND FAULT PROTECTED C.B.
NC - NO CONCURRENT LOAD
TS - VIA TIME SWITCH

(1) CONTRACTOR SHALL FIELD VERIFY EQUIPMENT NAME PLATE PROV. TO C.B. ORDERING AND INSTALLATION MATCH MANUFACTURE. RECOMMENDED CDPG

		PANEL: A		CIRCUITS 42		MAIN BREAKER: 20A AMPS		MAIN BREAKER: 200 AMPS		1 PHASE									
		NEBA 1				K.A.I.C.: 22 AMPS		K.A.I.C.: 22 AMPS		2 WIRE									
						MOUNTED FLUSH		X SURFACE		X 240V/250									
										FED THRU									
C R I T I C A L I T Y	T Y P E	N O	IDENTIFICATION	WIRE	GND	CIRCUIT	BREAKER	LOAD/PHASE (V/A)		BREAKER	WIRE	GND	CIRCUIT	IDENTIFICATION	C R I T I C A L I T Y	T Y P E	N O		
								TRIP	POLES									A	B
	AF	1	COPIER MAKER	12	12	12"	20	1	1.8	0.5	1	20	12	12"	12"	MA'S TBR BEDROOM RCPTS	2	AF	
	AF	2	3A FIRE PLACE	12	12	12"	20	1		0.2	0.5	1	20	12	12"	12"	MA'S TBR BEDROOM RCPTS	3	AF
	AF	6	SPACE	12	12	12"	20	1	1.6		1	20	12	12"	12"	LAUNDRY RCPTS	6	AF	
	AF	7	TOLLETTA TUBE POWER ROOM	12	12	12"	20	1		1.3	0.5	1	20	12	12"	12"	LAUNDRY/SHOWER/BATH/LLS T5	8	AF
	AF	9	SPACE	12	12	12"	20	1	0.5		1	20	12	12"	12"	MA'S TBR BEDROOM / SH THN 181C T5	10	AF	
	AF	11	SMALL APPLIANCES	12	12	12"	20	1		1.5	0.5	1	20	12	12"	12"	DR TENDR L5	12	TS
	AF	13	PANTRY TROOP RCPTS	12	12	12"	20	1	0.5	1.5	1	20	12	12"	12"	SMALL APPLIANCES	14	AF	
	AF	17	MICROCOMB OVEN	12	12	12"	20	2	1.5	0.5	1	20	12	12"	12"	SMALL APPLIANCES	16	AF	
	AF	19	9A'S BRNAGE	12	12	12"	20	1		0.2	1.0	1	20	12	12"	12"	DINING ROOM (SMALL APP)	20	AF
	AF	21	12A TROOP / TROOPEN	12	12	12"	20	1	0.4	0.5	1	20	12	12"	12"	SHOWER/SHR (SMALL APP)	22	AF	
	AF	23	SHOWER/SHR	12	12	12"	20	1		1.2	0.5	1	20	12	12"	12"	5 TUFF ROOM RCPTS	24	AF
	AF	33	REFIGERATOR	12	12	12"	20	1	1.4	0.5	1	20	12	12"	12"	BATH RCPTS	28	AF	
	AF	37	REFIGERATOR	12	12	12"	20	1		1.4	0.5	1	20	12	12"	12"	PANTRY ROOM RCPTS	30	AF
	AF	39	SHOWER/SHR	12	12	12"	20	1	1.2	0.5	1	20	12	12"	12"	CLUB ROOM RCPTS	32	AF	
	AF	41	SHOWER/SHR	12	12	12"	20	1		0.5	0.5	1	20	12	12"	12"	DISPOSAL	34	AF
	AF	43	UC REEF	12	12	12"	20	1	0.8	0.5	1	20	12	12"	12"	BAR/INE VENT/SHOWER RCPTS	36	AF	
	AF	45	UC REEF	12	12	12"	20	1		0.5	0.5	1	20	12	12"	12"	SHALL RCPTS	38	AF
	AF	47	UC REEF	12	12	12"	20	1	0.6	1.3	1	20	12	12"	12"	TOLLETTA TUBE/MA'S TBR	40	AF	
	AF	49	UC REEF	12	12	12"	20	1	0.4	1.3	1	20	12	12"	12"	TOLLETTA TUBE/MA'S TBR	42	AF	
	AF	51	SPACE	12	12	12"	20	1	0.6	1.3	1	20	12	12"	12"	TOLLETTA TUBE/MA'S TBR	44	AF	
	AF	53	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	46	TS	
	AF	55	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	48	TS	
	AF	57	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	50	TS	
	AF	59	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	52	TS	
	AF	61	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	54	TS	
	AF	63	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	56	TS	
	AF	65	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	58	TS	
	AF	67	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	60	TS	
	AF	69	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	62	TS	
	AF	71	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	64	TS	
	AF	73	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	66	TS	
	AF	75	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	68	TS	
	AF	77	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	70	TS	
	AF	79	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	72	TS	
	AF	81	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	74	TS	
	AF	83	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	76	TS	
	AF	85	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	78	TS	
	AF	87	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	80	TS	
	AF	89	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	82	TS	
	AF	91	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	84	TS	
	AF	93	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	86	TS	
	AF	95	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	88	TS	
	AF	97	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	90	TS	
	AF	99	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	92	TS	
	AF	101	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	94	TS	
	AF	103	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	96	TS	
	AF	105	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	98	TS	
	AF	107	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	100	TS	
	AF	109	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	102	TS	
	AF	111	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	104	TS	
	AF	113	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	106	TS	
	AF	115	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	108	TS	
	AF	117	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	110	TS	
	AF	119	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	112	TS	
	AF	121	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	114	TS	
	AF	123	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	116	TS	
	AF	125	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	118	TS	
	AF	127	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	120	TS	
	AF	129	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	122	TS	
	AF	131	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	124	TS	
	AF	133	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	126	TS	
	AF	135	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	128	TS	
	AF	137	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	130	TS	
	AF	139	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	132	TS	
	AF	141	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	134	TS	
	AF	143	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	136	TS	
	AF	145	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	138	TS	
	AF	147	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	140	TS	
	AF	149	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	142	TS	
	AF	151	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	144	TS	
	AF	153	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	146	TS	
	AF	155	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	148	TS	
	AF	157	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	150	TS	
	AF	159	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	152	TS	
	AF	161	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	154	TS	
	AF	163	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	156	TS	
	AF	165	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	158	TS	
	AF	167	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	160	TS	
	AF	169	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	162	TS	
	AF	171	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	164	TS	
	AF	173	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	166	TS	
	AF	175	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	168	TS	
	AF	177	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	170	TS	
	AF	179	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	172	TS	
	AF	181	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	174	TS	
	AF	183	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	176	TS	
	AF	185	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	178	TS	
	AF	187	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	180	TS	
	AF	189	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	182	TS	
	AF	191	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	184	TS	
	AF	193	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	186	TS	
	AF	195	SPACE	12	12	12"	20	1				20	12	12"	12"	SHALL RCPTS	188	TS	
	AF	197	SPACE</																

[illegible]

TOTAL CONNECTED LOAD/PANEL A										15.3		33.3		18.6		RVA AMP									
TOTAL CONNECTED										15.3		33.3		18.6											
TOTAL CONNECTED										15.3		33.3		18.6											
AF - ARC FAULT PROTECTED CIRCUIT BREAKER GF - GFCI BRANCH FULT PROTECTED C.B. ND - NO CONCURRENT LOAD MC - MC CHILE IN - INCH																									
PANEL: C																									
CIRCUITS 42																									
MAIN BREAKER: 200 AMP																									
MAIN LUGS: 200 AMP																									
K.A.I.C.: 22 AMP																									
MOUNTED FLUSH																									
SURFACE X																									
1 PHASE																									
3 WIRE																									
X 240/120V																									
FUSED PERU																									
CIRCUIT BREAKER																									
LOAD/PHASE (RVA)																									
BREAKER																									
WIRE QND COND IDENTIFICATION																									
C N O																									
T Y P E																									
TRIP POLES A B C POLES TRIP																									
1	3	4M2 BRANCH BOX FOR AC BVS17	12	12	12"	20	2	1.0	5.4		2	1.0	5.4		20	6	10	1"	QUL7		2	1			
	5	QWHA1	12	12	12"	20	1	0.5	0.0		1	0.5	0.0		2	60	6	10	1"	SAUNA	6	QFI1			
	7	1 SPACE	12	12	12"	20	1	0.5	0.0		1	0.5	0.0		2	60	6	10	1"	SAUNA	6	QFI1			
AF	9	10M1 RCP13	12	12	12"	20	1	0.5	1.0		1	20	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	10	GF			
AF	11	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	12	GF	
AF	13	10M1 EQUIPMENT	12	12	12"	20	1	0.5	0.2		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	14	GF	
AF	15	COVERED TERRACE 1 RCP13	12	12	12"	20	1	0.5	0.3		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	16	GF	
AF	17	4M21 FUSE RCP13	12	12	12"	20	1	0.5	0.3		1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	18	GF		
TS	19	12 FLOOR LIGHT	12	12	12"	20	1	0.5	0.0		0.5	1.3	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	20	GF
	21	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	22	GF	
	23	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	24	GF	
	25	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	TOILET FUSE TRUSS 10M1 G.C.	26	AF	
	27	EXTIOR RCP13	12	12	12"	20	1	0.5	0.1		0.5	0.2	1	20	12	12	12	12"	12	12	12	12"	STEAM UNIT	30	AF
AF	29	10M1 LIGHTS 12 FLOOR RDM	12	12	12"	20	1	0.5	0.4		0.5	0.2	2	40	8	10	3/4"	12	12	12	12"	STEAM UNIT	32	AF	
AF	31	10M1 LIGHTS 12 FLOOR REQUEST	12	12	12"	20	1	0.5	0.4		0.5	0.2	2	40	8	10	3/4"	12	12	12	12"	STEAM UNIT	34	GF	
TS	33	EXTIOR LITS	12	12	12"	20	1	0.5	0.5		0.5	1.0	1	20	12	12	12	12"	12	12	12	12"	POOL PUMP	36	QFI1
TS	35	EXTIOR LITS	12	12	12"	20	1	0.5	1.0		0.5	1.0	2	20	12	12	12	12"	12	12	12	12"	POOL PUMP	38	AF
	37	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	POOL PUMP	40	QFI1	
	39	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	POOL PUMP	42	QFI1	
	41	SPACE	12	12	12"	20	1	0.5	0.0		0.5	1	20	12	12	12	12"	12	12	12	12"	POOL PUMP	44	QFI1	
TOTAL CONNECTED LOAD/PANEL A										4.1		24.3		3.5		22.8		RVA AMP							
TOTAL CONNECTED LOAD/PANEL A										28.4		27.3													
TOTAL CONNECTED										56.7		225.1		127.8											
TOTAL CESSNA										137.8		137.8		AMP											

CF - CFC GROUND FAULT PROTECTED C.B. HC - NO CONCURRENT LOAD MC - MC CABLE R - ROMEX RL - RELOCATE FROM EX. PANEL	1 - CONTRACTOR SHALL COORDINATE EQUIPMENT GND PRIOR TO ORDERING AND INSTALLATION
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PANEL										CIRCUITS		MAIN BREAKER		MINI CIRC		1 PHASE									
NEW SR												25 AMP		125 AMP		3 WIRE									
												25 AMP		240/120V		X									
												SURFACE		MOUNTED FLUSH		FEED THRU									
TYP E	C N O	IDENTIFICATION	WIRE	GND	COND	CIRCUIT BREAKER						BREAKER		WIRE	GND	COND	IDENTIFICATION	C N O	TYP E						
						TRIP		POLES		A		B								C		POLES		TRIP	
1		SPACE												1	20	12	12"	GARAGE DOOR	2	GF					
3		SPACE												1	20	12	12"	GARAGE DOOR	4	GF					
5		SPACE												1	20	12	12"	GARAGE RCPTS	6						
7		SPACE												1	20	12	12"	TO TENSER RCPTS	8						
9		SPACE												1	20	12	12"	GARAGE LITS	10						
GF	6	CUR CROWER	6	10	1"	00	2	4.8	0.5					1	20	12	12"	TO TENSER RCPTS	12	TS					
GF	13	WATER FEATURE PUMPS	12	12	12"	20	1	1.0	0.2					1	20	12	12"	TUBER	14	AF					
		REFUSE FLIESER JOIST TENSER				20	1	1.0	0.2					1	20	12	12"	TO TRANS MOTOR	16	GF					
		17												1	20	12	12"	SPACE	18						
		18												1	20	12	12"	SPACE	20						
		21												1	20	12	12"	SPACE	22						
		23												1	20	12	12"	SPACE	24						
		25												1	20	12	12"	SPACE	26						
		27												1	20	12	12"	SPACE	28						
		29												1	20	12	12"	SPACE	30						
		31												1	20	12	12"	SPACE	32						
							0.8	2.0			6.3	2.2													
TOTAL CONNECTED LOAD PER PHASE							7.8				15.3		N/A												
TOTAL CONNECTED LOAD PER PHASE											6.3		AMP												
TOTAL CONNECTED																									

AF- ARC FAULT PROTECTED CIRCUIT BREAKER
GF- GFCI GROUND FAULT PROTECTED C.B.
NC- NO CONCURRENT LOAD
MC- MC CABLE
R- ROMEX

		PANEL: ACT				CIRCUITS 32				MAIN BREAKER 200 AMPS MAIN LOGS 200 AMPS KALC 25 AMPS MOUNTED FLUSH SURFACE				1 PHASE 3 WIRE X 240/120V FEED THRU				
TYP	CN	IDENTIFICATION		WIRE	QND	COND	CIRCUIT BREAKER	LOAD PHASE (V/A)		BREAKER	WIRE	QND	COND	IDENTIFICATION		CN	TYP	
							TRIP	POLES										
1	3	AMB-1	6	10	1"		50	2	5.4		2	20	12	12	10"	CU-1	2	MCN
1	5	AMB-2	6	10	1"		50	2	5.4		2	20	12	12	10"	CU-2	4	MCN
1	7	AMB-2	6	10	1"		50	2	5.4		2	20	12	12	10"	CU-2	8	MCN
1	11	WIRE CELLAR BUS	4	8	1-1/4"	60	2	5.8			2	30	10	10	CU-4	10	MCN	
1	12	WIRE CELLAR BUS	12	12	12"	20	1	0.1	1.0		2	20	12	12	10"	DX TENDER ROP TS	14	1
1	13	WIRE REGULATOR PUMP	12	12	12"	20	1	0.3	0.5		1	20	12	12	10"	SPACE	18	
1	14	WIRE REGULATOR PUMP	12	12	12"	20	1	0.3	0.5		1	20	12	12	10"	SPACE	20	
1	15	SPACE														SPACE	22	
1	21	SPACE														SPACE	24	
1	23	SPACE														SPACE	26	
1	25	SPACE														SPACE	28	
1	27	SPACE														SPACE	30	
1	29	SPACE														SPACE	32	
1	31	SPACE														SPACE	33	
TOTAL CONNECTED LOAD PER PHASE									17.0	1.0								
TOTAL CONNECTED LOAD PER PHASE									16.5									
TOTAL CONNECTED LOAD PANEL A									34.4									
TOTAL CONNECTED LOAD PANEL B									151.7									
									VVA AMP									

AF: APC RAIL PROTECTED CIRCUIT BREAKER
UF: APC RAIL PROTECTED CIRCUIT BREAKER
NC: NO CONCURRENT LOAD

1- CONTRACTOR SHALL FIELD
COORDINATE COPS WITH FINAL EQUIPMENT SELECTION
PRIOR TO ORDERING AND INSTALLATION

PANEL: <u>ACD</u>										CIRCUITS <u>22</u>		MAIN BREAKER: <u>200 AMP</u>		PWS# <u>1</u>					
NEMA <u>1R</u>										MAIN LUGS: <u>200 AMP</u>		WIRE <u>3</u>							
										K.A.I.C.: <u>22 AMP</u>		X <u>240/120V</u>							
										MOUNTED <u>CLUSH</u>		SURFACE <u>X</u>							
T Y P E	C K T N O	IDENTIFICATION	WIRE	QND.	COND.	CIRCUIT BREAKER	LOAD PANE (KVA)					BREAKER	WIRE	QND.	COND.	IDENTIFICATION	C K T N O	T Y P E	
							SWP	POLES	A	B	C								POLES
1		AREA3	6	10	1"	80	2	5.6		5.6		2	30	6	10	1"	CU-3	2	NC
2								5.6		5.6								4	
3		AREA5	4	8	1-1/8"	60	2	5.6		5.6		2	30	6	10	1/2"	CU-5	6	NC
5								5.6		5.6								8	NC
7		AREA6	6	10	1"	60	2	5.6		5.6		2	50	6	10	1"	CU4	10	
11		OUTWPS	12	12	1/2"	20	1	0.3	0.3			1	20	12	12	1/2"	EX TERROR ROPTS	12	NC
12		QWHP1	12	12	1/2"	20	1			0.3	0.5	1	20	12	12	1/2"	SEPTIC TANK PUMP	16	OP
TS	17	LANESCAPE LITS	12	12	1/2"	20	1	0.5									SPACE	22	
TS	18	LANESCAPE LITS	12	12	1/2"	20	1				0.5						SPACE	24	
TS	21	SPACE				20	1										SPACE	26	
TS	23	SPACE				20	1										SPACE	28	
	25	SPACE															SPACE	30	
	27	SPACE															SPACE	32	
	29	SPACE															SPACE	34	
	31	SPACE															SPACE	36	
TOTAL CONNECTED LOAD PER PWS#								17.4	0.5		17.4	0.5							
TOTAL CONNECTED LOAD PANE A								17.9			35.8		KVA						
TOTAL CONNECTED											146.2		AMP						
AF- ARC FAULT PROTECTED CIRCUIT BREAKER																			
OP- GPO GROUND FAULT PROTECTED C.B.																			
NC- NO CONCERNENT LOAD																			
MC- MC CABLE																			
R- ROSSER																			

LOAD SHEDDING
 PROVIDE 'KOHLER ATS LOAD SHEDDING
 FEATURE FOR LOAD':
 - AC-1
 - AC-2
 - AC-3
 - AC-4
 - AC-5
 - AC-6
 - AC-7

1" CONDUIT WITH PULL STRING FROM
 A JUNCTION BOX ADJACENT TO
 ELECTRICAL METER TO ROOF FOR
 FUTURE PHOTOVOLTAIC SYSTEM TO BE
 INSTALLED FACING WEST WITH A
 MINIMUM OF FOUR HOURS OF DIRECT
 SUNLIGHT. THE CONDUIT SHALL NOT
 BE LOCATED ON OR IN THE DIRECTION
 OF A NORTH FACING ROOF.

2 SETS
 (3) #350MCM,
 IN 3°C. EACH.

(3) #250MCM,
 (1) #4GND,
 IN 2-1/2" C.

2/250A
 C.B.

60KW GENERATOR
 120/240V LP GAS
 1Ø, 3W

#2G.

ROD1

NEW U/G SERVICE
 TO FPL
 2 SETS (3) #350MCM
 IN 3°C. EACH.

6'-0" MIN.

ROD

ROD

2 SETS OF
 (3) #350MCM,
 (1) #1G. IN 3°C.
 EACH

ATS 600A
 SERVICE
 RATED
 NEMA3R
 42KAIC
 1Ø
 120/240V

NEMA3R
 1Ø
 120/240V

PNL
 MDP
 600A
 MLO
 NEMA3R
 42KAIC
 1Ø
 120/240V

TS

TVSS

CWP/GAS

FOUNDATION
 STEEL

PANEL
 G
 125A
 MLO
 22KAIC
 NEMA3R
 1Ø
 120/240V

TS

SEE MDP FOR WIRE
 SIZES.

EXTERIOR OF GARAGE
 STRUCTURE

EXTERIOR OF MAIN HOUSE

A MAIN DISC.
 200A
 200A
 22KAIC
 NEMA3R
 1Ø
 120/240V

#4G.

ROD

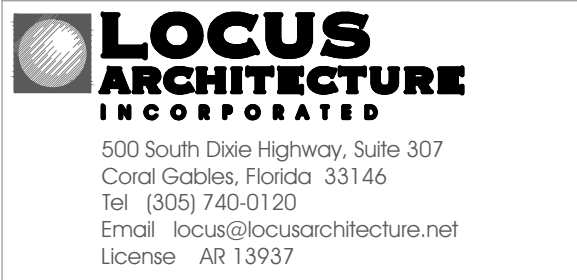
GROUND RODS
 5/8" BY 10FT.
 TYPICAL OF TWO

ELECTRICAL RISER DIAGRAM
 N.T.S.

HOUSE DEMAND LOAD CALCULATION SERVICE						TOTAL	TOTAL
SP	9264 SQFT	QTY	UNIT	VA	CONNECTED	DEMAND	DEMAND
9264/9247 1 PHASE							
SHALL I/RECEPT (NEC 220.12 220.14(J))	9264 SQFT	3				27.8	
SMALL APPLIANCES (NEC 220.52(A))	6 CKTS	1	1000		9.0		
LANDSCAPE LTS	6 EA	500			2.5		
LANDSCAPE RCPTS	2 EA	1500			3.0		
TOTAL						42.3	
BA THROOM RECEPTABLES							
DEMAND LBS/1000 22.42 (FIRST 30A AT 100% DEMANDS AT 25%)							18.8 VA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.53							
GAS WATER HEATER	5 EA	300					
WASHER	2 EA	1000				3.0	
DISPOSAL	1 EA	600				1.5	
CORFEE MAKER	1 EA	1600				1.8	
HOOD	3 EA	400				1.2	
DISHWASHER	2 EA	1400				2.9	
REFRIGERATOR	1 EA	1400				1.4	
DEGRADER	1 EA	1400				1.4	
UC RFR	3 EA	600				1.8	
WINE RFR	1 EA	600				1.2	
ICE MAKER	2 EA	600				1.6	
WINE CELLAR COND.	1 EA	1000				1.0	
GAS RFR PLACE	1 EA	200				0.2	
GAS EQUIPMENT	2 EA	600				1.8	
STEAM UNIT	1 EA	9000				9.0	
WALK	1 EA	1000				1.0	
ELEVATOR	1 EA	6000				6.0	
CAR CHARGER	1 EA	9600				9.6	
WATER SOFTENER	1 EA	600				0.5	
WATER RFR UNIT	1 EA	700				0.7	
WARRANT CARD	2 EA	600				1.2	
GATED DOOR	1 EA	400				0.4	
POOL PUMP	1 EA	2000				2.0	
DEMAND LOAD 75% 220.53							44.8 VA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.55							
COOKING APPLIANCES TABLE							
GAS RANGE	1 EA	200				0.2	
UC MICROWAVE	1 EA	1800				1.8	
ELECTRIC COOKTOP	1 EA	10000				10.0	
MICROWAVE/ICEBOX OVEN	1 EA	3100				3.1	
DEMAND LOAD 75% 220.55							8.6 VA
EQUIPMENT AT 100% DEMAND FACTOR							
POOL HEATER	1 EA	10000				10.0	
CLOTHES DRYER	2 EA	200				0.4	
COOLING LOAD (240V, 1 PHASE)							
COOLING LOAD (240V, 1 PHASE)	1900 AMP					46.8	
TO TAL CONNECTED LOAD							64.4 VA
TO TAL DEMAND LOAD							134.6 VA
134.6 KVA @240V, 1Ø	=	660.7	AMPS				
NON CONCURRENT LOAD							

DEMAND LOAD PANEL C						
SF	1000 SQFT		QTY.	UNIT	VA	TOTAL DEMAND KVA
GRN LTR.RECPRT (NEC 220.12 220.14(I))	1000 SF		3		3.0	
SMALL APPLIANCES (NEC 220.52(A))	2 CY(8)		1		3.0	
LANDSCAPE LTR'S	EA	1000			0.0	
LAUNDRY RCP'TS	EA	1500			0.0	
TOTAL						6.0
BA THROOM RECEPTACLES						
DEMAND LOSTING LTR 220.42 FIRST JOURNA AT 10% REMAINING AT 35%					---	4.1 KVA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.55						
OWH/PH	1 EA	300			0.3	
GRW EQUIPMENT	1 EA	800			0.8	
DRAWER/SINK	1 EA	1200			1.2	
SAUNA	1 EA	10000			10.0	
HOOD	2 EA	1 EA			0.0	
UC BEV.	1 EA	600			0.6	
UC RDY.	1 EA	600			0.6	
STEAM UNIT	1 EA	9000			9.0	
POOL EQUIPMENT	1 EA	2500			2.5	
DEMAND LOAD 75% 220.55						19.2 KVA
EQUIPMENT LOAD SUMMARY DEMAND SECTION 220.55						
COOKING/APPLANCES TABLE						
GAS BRD	1 EA	300			0.3	
MICROWAVE	EA	1500			0.0	
WALL OVEN	EA	6000			0.0	
DEMAND LOAD 65% 220.55						0.2 KVA
EQUIPMENT AT 100% NON-DEMAND FACTOR						
GAS CLOTHES DRYER	0 EA	200			0.0	
HEAT PSEATER					10.0	
HEATING LOAD (24V, 1-PHASE)					11.6	
Cooling Load (24V, 1-PHASE)					6.6	
TOTAL CONNECTED LOAD			27.3 AMPS			21.6 KVA
TOTAL DEMAND LOAD						45.0 KVA
45.0 KVA @240V, 1Ø =		197.8 AMPS				
NON-COMMERCIAL LOAD						

HOUSE DEMAND LOAD CALCULATION GENERATOR						
#F	9264 50FT	QTY.	UNIT	VA	TOTAL VA	
1	1200V4W 1 PHASE					-
2	BATH TUB RECEPT (NEC 220.12 220.14J)	9264 50FT		3	278	=
3	GAS RTRN RECIPITLES	5	CNTS	1500	750	
4	SMALL APPLANCES (NEC 220.52)(a)	1		1000	100	
5	GAS WATER HEATER	1	EA	300	15	
6	WASHER	2	EA	1500	300	
7	DISHWASHER	1	EA	800	160	
8	COFFEE MAKER	1	EA	1600	160	
9	HOOD	4	EA	400	160	
10	DISHWASHER	2	EA	1440	288	
11	REFRIGERATOR	2	EA	1400	280	
12	FREEZER	1	EA	1400	140	
13	UC REF	3	EA	600	180	
14	WINE REF	1	EA	600	60	
15	ICE MAKER	2	EA	600	120	
16	WINE CELLAR COND.	1	EA	1000	100	
17	GAS FIRE PLACE	1	EA	200	20	
18	DYI EQUIPMENT	2	EA	800	160	
19	STEAM UNIT	1	EA	8000	800	
20	SALINA	1	EA	10000	1000	
21	ELEVATOR	1	EA	9000	900	
22	CHARGE CHARGER	1	EA	9600	960	
23	WATER SOUTHER	1	EA	500	50	
24	WATER FEATURE	1	EA	700	70	
25	GARAGE DOOR	2	EA	800	160	
26	GATE DOOR	1	EA	400	40	
27	PUMP POOL	1	EA	2000	200	
28	GAS RANGE	1	EA	200	20	
29	UC MICRO WAVE	1	EA	1500	150	
30	ELECTRIC COOKTOP	1	EA	10800	1080	
31	MICROWAVE OVEN OVERH	1	EA	2100	210	
32	CLOTHES GAS DRYER	2	EA	200	20	
33	LAMP PENCILTS	6	EA	200	24	
34	LAUNDRY RCPTS	2	EA	1500	300	
TOTAL CONNECTED GENERAL LOADS (PER NEC 220.8)(B)					118.1 kVA	
FIRST 100kVA @ 100%					100 kVA	
REMAINDER @ 40%					43.2 kVA	
TOTAL DEMAND GENERAL LOADS (PER NEC 220.8)(B)					143.2 kVA	
POOL HEATER 100%					100 kVA	
** HEATING LOAD (240V , 1-PHASE)				LS	0.0 kVA	
** COOLING LOAD (240V , 1-PHASE)				0 AMPS	LS	0.0 kVA
TOTAL HVAC LOAD (PER NEC 220.8)(C)					0.0 kVA	
HEATING LOAD (240V , 1-PHASE) 100%				0.0 kVA		
TOTAL CONNECTED LOAD	118.1 +	10.0 =			128.1 kVA	
TOTAL DEMAND LOAD	63.2 +	0.0 =			63.2 kVA	
(NEC 220.82)						
53.2 kVA @ 240V, 1Ø	=	22.8 AMPS				
L.L.A. VOLT HSED RELAY	AIRCUIT #1, #2, #3, #4, #5 & #7					
** NON-CONCURRENT LOAD						

[illegible]

PROJECT	
New 2-Story Residence: 6100 W Suburban Dr. Pinecrest, FL 33156	
DRAWING	
Electrical Schedules & Riser	
SEAL	SCALE As Shown
	DRAWN
	REVIEWED
	PROJ. NO. 351
Nelson de Leon AR 13937	

This item has been digitally signed and sealed by Amarilis Rodriguez, PE, on _____. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. JOB# 24-0407

		Amarilis Rodriguez, P.E. License Number 60236 C.A. 26359
2020 Ponce de Leon Blvd., Suite 1002 Coral Gables, Florida 33134 Phone > 305 444 9809 Fax > 305 444 9827		Signature _____ Date _____
Engineering Design: > Mechanical > Electrical > Plumbing > Fire Protection www.arpe-eng.com		

ELECTRICAL SCHEDULES & RISER

SCALE: NTS

E-04.1