

Filename: \\11238\\Clay Electric Lake City Office\\Construct\\ELEC11238-LEGEND - Plot Date: 7 February 2012 - Plotted By: Beth Hulman

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK	EQUIPMENT DESCRIPTION	VOLTAGE/Ø	MCA	LOAD	MEANS OF DISCONNECT*	C/B TRIP (AMPS)	Ø	CIRCUIT GROUND	CONDUIT	SERVING PANEL	NOTES
EW1	ELECTRIC WATER HEATER	208/1	21.6	4.5W	N1 SS 30/3	30	3#10	#10	1/2" C	2P1A	
EW2	ELECTRIC WATER COOLER (2)	120/1	5	4.0A	RECEPTACLE	20	2#12	#12	1/2" C	2P1A	
DF2	DRINKING FOUNTAIN W/REMOTE CHILLER	120/1	5	4.0A	N1 SS 20/1	20	2#12	#12	1/2" C	2P1A	
HP-1	HEAT PUMP #1	208/1	19.4	15.5A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-2	HEAT PUMP #2	208/1	17	13.6A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-3	HEAT PUMP #3	208/1	17	13.6A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-4	HEAT PUMP #4	208/1	19.4	15.5A	C/B	30	2#10	#10	1/2" C	2P1G	
HP-5	HEAT PUMP #5	208/1	29	23.2A	C/B	50	2#8	#10	1" C	2P1G	
HP-6	HEAT PUMP #6	208/1	11.9	9.5A	C/B	20	2#12	#12	1/2" C	2P1G	
HP-7	HEAT PUMP #7	208/1	10.8	8.2A	C/B	15	2#12	#12	1/2" C	2P1G	
CU-OA1	OA CONDENSING UNIT #1	208/3	4.0	3.0A	C/B	15	3#12	#12	1/2" C	2P1G	
AHU-OA1	OA AIR HANDLING UNIT #1	208/3	68.4	54.7A	C/B	70	3#12	#8	1 1/4" C	2P1B	2
AHU-1	AIR HANDLING UNIT #1	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-2	AIR HANDLING UNIT #2	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-3	AIR HANDLING UNIT #3	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-4	AIR HANDLING UNIT #4	208/1	28	22.4A	C/B	30	2#10	#10	1/2" C	2P1B	2
AHU-5	AIR HANDLING UNIT #5	208/1	37	29.6A	C/B	40	2#8	#10	3/4" C	2P1B	2
AHU-6	AIR HANDLING UNIT #6	208/1	16	12.8A	C/B	20	2#12	#12	1/2" C	2P1B	2
AHU-7	AIR HANDLING UNIT #7	208/1	0.7	0.6A	N1 SS 30/2	15	2#12	#12	1/2" C	2P1B	2
TC	HVAC TIME CLOCK	120/1	0.1	.1A	C/B	20	#12	#12	1/2" C	2P1B	
EF-1	EXHAUST FAN #	120/1	5.5	1/6HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1
EF-2	EXHAUST FAN #	120/1	2.8	1/12HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1
EF-3	EXHAUST FAN #	120/1	2.8	1/12HP	NOTE 1	20	2#12	#12	1/2" C	2P1B	1

NOTES
*N1=NEMA 1, N3R=NEMA 3R, SS=SAFETY SWITCH, FSS=FUSED SAFETY SWITCH, C/B=SERVING C/B, TS=MOTOR RATED MANUAL TOGGLE SWITCH, SPST=MANUAL SPST ON/OFF SWITCH
FOR FUSED SAFETY SWITCHES THE 1ST # IS FUSE SIZE, THE 2ND # IS FRAME SIZE (EXAMPLE: 90/100/3 N1,FSS INDICATES A 3 POLE 100A FUSED SAFETY SWITCH WITH 90A FUSES)
1. DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 15.
2. PROVIDE MOTOR RATED POWER RELAY IN NEMA 1 ENCLOSURE FOR CONTROL OF EQUIPMENT.

PANELBOARD SCHEDULE

MARK:	2D1A	BREAKER	PHASE (kVA)	PHASE (kVA)	BREAKER	LOAD	Ø
Ø	TRIP	A	B	C	A	B	C
1			11.8		3.1		
3			12.2		2.4		
5			14.3		2.5		
7			19.0		4.9		
9			17.2		5.2		
11			18.2		3.5		
13			2.7		4.1		
15			3.2		3.9		
17			3.1		3.6		
19				14.2			
21				13.1			
23				13.7			
25							
27							
29							
31							
33							
35							
37							
39							
41							

TOTAL (kVA) ØA 59.8 ØB 57.2 ØC 58.9 HIGH PHASE (AMPS) 498.3
TOTAL CONNECTED LOAD (kVA) 175.9 TOTAL LOAD (AMPS) 488.2

CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

PANELBOARD SCHEDULE

MARK:	2P1A	BREAKER	PHASE (kVA)	PHASE (kVA)	BREAKER	LOAD	Ø
Ø	TRIP	A	B	C	A	B	C
1			0.7		0.5		
3			0.4		0.5		
5			0.4		0.5		
7			0.2		0.5		
9			0.2		0.5		
11			0.5		1.0		
13			0.7		0.3		
15			0.7		0.5		
17			0.9		0.7		
19			0.7		0.7		
21			0.7		0.2		
23			0.7		0.2		
25			0.7		0.2		
27			0.9		0.2		
29			0.7		1.2		
31			0.7		0.9		
33			0.7		0.7		
35			0.7		0.7		
37			0.7		0.7		
39			0.7		0.5		
41			0.9		0.7		
43			0.7		0.2		
45			0.4		0.5		
47			0.9		0.2		
49			0.7		0.8		
51			0.7		—		
53			0.7		—		
55			0.5		—		
57			0.7		—		
59			0.2		—		
61			0.7		—		
63			0.2		2.3		
65			0.2		2.3		
67			—		—		
69			—		—		
71			—		—		
73			—		—		
75			—		—		
77			—		—		
79			—		—		
81			—		—		
83			—		—		

TOTAL (kVA) ØA 111.8 ØB 12.2 ØC 14.3 HIGH PHASE (AMPS) 119.2
TOTAL CONNECTED LOAD (kVA) 38.3 TOTAL LOAD (AMPS) 106.3

CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.
① PAINT CIRCUIT BREAKER RED.

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER AND CATALOG NUMBER	LAMPS	TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
		TYPE	#			
F1A	DAY-BRITE 1SPG232-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W	120	RECESSED GRID
F1AF	DAY-BRITE 1SPF232-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W	120	RECESSED FLANGE
F3A	DAY-BRITE 2SPG332-FS19-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	3-LAMP 32W	85W	120	RECESSED GRID
F1LA	DAY-BRITE 1P3AGS132-18-SL-VOLT-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	1-LAMP 32W	32W	120	RECESSED GRID
F2L	DAY-BRITE 2P3GS232-28SL-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W	120	RECESSED GRID
F2W	DAY-BRITE CAN232 COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W	120	SURFACE
F3L	DAY-BRITE 2P3GS332-38SL-PAF COLUMBIA, WILLIAMS METALUX	F32T8 41K	3-LAMP 32W	85W	120	RECESSED GRID
F1	DAY-BRITE N132-VOLT COLUMBIA, WILLIAMS METALUX	F32T8 41K	1-LAMP 32W	32W	120	
FD3H	OMEGA OM61H32PLT-CS-FB PORTFOLIO PD6 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	1-LAMP 32W	32W	120	RECESSED GRID OR FLANGED
FD3D	OMEGA OM632PLT-CS-FB-DM PORTFOLIO PD6 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	1-LAMP 32W	32W	120	RECESSED GRID OR FLANGED
FD3	OMEGA OM82H32PLT-CS-FB PORTFOLIO PD8 SERIES INFINITY, PRESCOLITE	CFM32W G24q/41K	2-LAMP 32W	64W	120	RECESSED GRID OR FLANGED
FV	DAY-BRITE DWAE-232 COLUMBIA, WILLIAMS METALUX	F32T8 41K	2-LAMP 32W	61W	120	OR STEM MOUNT
FCD	CAPRI # FRD101C INFINITY, LIGHTOLIER	CFQ 13W/G240	2-LAMP 13W	26W	120	SURFACE
SL	ELLIPTIPAR # F164-D2-D28-H-99-120-V00	F28T5	1-LAMP 28	28	120	GROUND MOUNT
EXB	BEGHELLI LC1-SA-LR-1/2-B-AL-AT PRESCOLITE PATHWAY	LED	7.1W 9.0W	7.1W 9.0W	120	WALL OR CEILING INDICATED

NOTES
SEE SPECIFICATIONS FOR APPROVED BALLAST MANUFACTURERS.
FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH A BATTERY JACK. SEE PLANS FOR QUANTITY.
APPROVAL SUBMITTALS FOR MANUFACTURERS NOT LISTED MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW. MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM.

Brame
Architects

606 N.E. First Street
Gainesville, Florida 32601
352 / 372-0425
FAX 352 / 372-0427

Clay Electric Cooperative, Inc.



NEW DISTRICT OFFICE

1659 SW State Road 47 Lake City, Florida



MARK R. AKIN
PE - 0059242

ELECTRICAL
SCHEDULES

DRAWN BNH
CHECKED MTR
DATE 02/07/12
CAD 3702060/CD

REVISIONS

FILE NO. 3702.060
S H E E T

E3.0

Bid Documents



M&A Project No. 11238
Moses & Associates, Inc. Consulting Engineers
2209 NW 40th Terrace, Ste A Gainesville, FL 32605
352-372-1911
f 352-372-0186
FL License EB-0003097
moses-eng.com