

Order Plans @

UNIT A-1A	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	675 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	2,025 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	75 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	29,350 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	9,360 W
NET COMPUTED OTHER LOAD	17,720 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	3827 W
TOTAL HEATING LOAD	3,827 W
TOTAL CALCULATED LOAD	21,547 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	104 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	125 A

UNIT A-2	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,015 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	3,045 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	75 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	30,495 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	9,375 W
NET COMPUTED OTHER LOAD	18,197 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	3827 W
TOTAL HEATING LOAD	3,827 W
TOTAL CALCULATED LOAD	22,024 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	106 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	125 A

UNIT B-1	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,079 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	3,237 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	150 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	30,637 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	8,753 W
NET COMPUTED OTHER LOAD	18,259 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	6323 W
TOTAL HEATING LOAD	6,323 W
TOTAL CALCULATED LOAD	24,582 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	118 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	150 A

UNIT B-2	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,291 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	3,873 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	150 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	31,223 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	8,509 W
NET COMPUTED OTHER LOAD	18,729 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	6323 W
TOTAL HEATING LOAD	6,323 W
TOTAL CALCULATED LOAD	24,812 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	119 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	150 A

UNIT B-3	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,209 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	3,627 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	150 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	31,600 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	9,860 W
NET COMPUTED OTHER LOAD	18,400 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	6323 W
TOTAL HEATING LOAD	6,323 W
TOTAL CALCULATED LOAD	24,723 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	119 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	150 A

UNIT B-4-S-1A	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,114 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	3,342 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	150 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	31,322 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	9,860 W
NET COMPUTED OTHER LOAD	18,537 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	6323 W
TOTAL HEATING LOAD	6,323 W
TOTAL CALCULATED LOAD	24,860 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	120 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	150 A

UNIT C-F-1A	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	1,450 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	4,350 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	150 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	33,190 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	9,276 W
NET COMPUTED OTHER LOAD	19,770 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	6323 W
TOTAL HEATING LOAD	6,323 W
TOTAL CALCULATED LOAD	25,599 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	123 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	150 A

UNIT C-F-1	
UNIT CALCULATIONS PER N.E.C. 220.89, OPTIONAL CALCULATIONS	
MAXIMUM AREA OF UNIT (Square Feet)	595 SQ. FT.
LIGHTING LOAD (Sq. Ft. X 3 Watts/Sq. Ft.)	1,785 W
SMALL APPLIANCE LOAD (1500W X 2 Circuits)	3,000 W
LAUNDRY RECEPTACLE	1,500 W
DRYER RECEPTACLE	5,000 W
RANGE HOOD	250 W
REFRIGERATOR	800 W
MICROWAVE	1,500 W
COOKTOP/OVEN	8,000 W
EXHAUST FANS	75 W
DISPOSAL	1,200 W
DISHWASHER	1,500 W
WATER HEATER	4,500 W
SUB-TOTAL OTHER LOAD	29,116 W
LESS FIRST 10 KW	10,000 W
REMAINDER @ 40%	9.40
FIRST 10KW @ 100%	7,644 W
NET COMPUTED OTHER LOAD	17,644 W
HEATING LOAD PER N.E.C. 220.82 (KW X 100%)	3827 W
TOTAL HEATING LOAD	3,827 W
TOTAL CALCULATED LOAD	21,471 W
TOTAL CALCULATED AMPERES (Load/208V/1 phase)	103 A
MINIMUM ELECTRICAL SERVICE ENTRANCE RATING	125 A

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PROJECT NO. 0540150010
DATE 20/01/10
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Revision Schedule
No. Description Date

PROJECT NAME
ROCKLEDGE MULTI-FAMILY
220 Baron Boulevard
Rockledge, FL 32955

CLIENT NAME

SHEET TITLE
ELECTRICAL CALCULATIONS

NOV 03, 2015

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