

**HERNDON HOMES - BLOCK 3**

SENIOR BUILDING  
CAMERON MADISON ALEXANDER  
BLVD & NEW STREET  
ATLANTA, GA, 30318

OWNER / DEVELOPER  
HUNT COMPANIES  
404.921.2555

STRUCTURAL ENGINEER  
MMSA  
404.997.6799

MEP ENGINEER  
NEWCOMB + BOYD  
404.730.8400  
MIKE NORMAN  
404.730.8400

CIVIL ENGINEER  
THOMPSON EHLH COMPANY  
404.266.1400

LANDSCAPE ENGINEER  
LORD A&C SARGENT  
877.929.1400

INTERIOR DESIGNER  
SHAPE  
404.845.6468

**GENERAL NOTES:**

- LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10" FROM A FIXED COOKING APPLIANCE, WHERE WALL MOUNTED. TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
- SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL DEVICES WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
- REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
- ALL 120V, 15- AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
- OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED FOR USE WITH CEILING FANS.
- REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
- PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
  - COORDINATE EXACT REQUIREMENTS OF EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
  - COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL INTERIORS DESIGNER.
- SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFFIXED TO GFCI-PROTECTED CIRCUITS. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.

**2 UNIT PLAN 1J - ELECTRICAL**  
SCALE: 1/4" = 1'-0"

LOAD CENTER SCHEDULE - 1J									
MAIN: 110A MLO		VOLTAGE: 208/120		PHASE:		WIRE: 3 RECESSED		AIC: 10,000	
OKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE	DESCRIPTION	BKR TYPE	TRIP / POLES	OKT #	
1	50/2		RANGE	A	KITCHEN RECEPTACLES	AFCI	20/1	2	
3				B	KITCHEN RECEPTACLES	AFCI	20/1	4	
5	30/2		DRYER		DISHWASHER	AFCI/GFCI	20/1	6	
7					SPACE			8	
9	20/1	AFCI	MICROWAVE OVEN		WASHER	AFCI/GFCI	20/1	10	
11	30/2	LOCKOFF	WATER HEATER		BATHROOM CIRCUIT		20/1	12	
13					LIGHTS & RECEPTACLES	AFCI	15/1	14	
15	30/2		FCU-A1		LIGHTS & RECEPTACLES	AFCI	15/1	16	
17					LIGHTS & RECEPTACLES	AFCI	15/1	18	
19	20/2		HP-A		SPACE			20	
21					SPACE			22	

NOTES:  
1. BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.  
2. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.

UNIT "1J"		
SQUARE FOOTAGE	674 SF X 3 VAS/F	2.0 KVA
KITCHEN/LAUNDRY	4500 VA	4.5 KVA
RANGES	8000 VA	8.0 KVA
DRYERS	5000 VA	5.0 KVA
DISPOSALS	0 VA	0.0 KVA
DISHWASHERS	1200 VA	1.2 KVA
MICROWAVE/HOOD	1500 VA	1.5 KVA
WATER HEATERS	4500 VA	4.5 KVA
SUBTOTAL		26.7 KVA
DEMAND FACTOR	10.0 KVA X 100 %	10.0 KVA
REMAINDER	16.7 KVA X 40 %	6.7 KVA
HVAC (HEAT PUMP)	2.1 KVA X 100 %	2.1 KVA
HVAC (COOLING)	N/A KVA X 100 %	KVA
HVAC (HEATING)	4.6 KVA X 65 %	3.0 KVA
N.E.C. 220-82		
TOTAL		21.8 KVA
	VOLTAGE: 208/120 PHASE: 1	104.7 AMPS

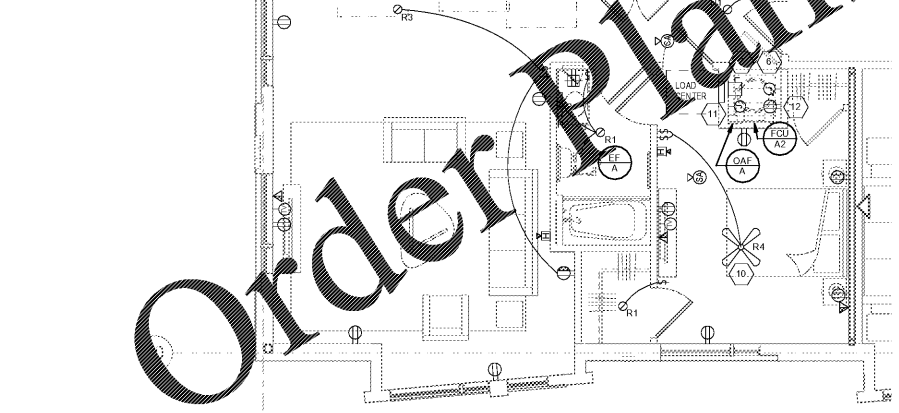
**3 UNIT PLAN 1H - ELECTRICAL**  
SCALE: 1/4" = 1'-0"

LOAD CENTER SCHEDULE - 1H									
MAIN: 110A MLO		VOLTAGE: 208/120		PHASE:		WIRE: 3 RECESSED		AIC: 10,000	
OKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE	DESCRIPTION	BKR TYPE	TRIP / POLES	OKT #	
1	50/2		RANGE	A	KITCHEN RECEPTACLES	AFCI	20/1	2	
3				B	KITCHEN RECEPTACLES	AFCI	20/1	4	
5	30/2		DRYER		DISHWASHER	AFCI	20/1	6	
7					SPACE			8	
9	20/1	AFCI	MICROWAVE OVEN		WASHER	AFCI/GFCI	20/1	10	
11	30/2	LOCKOFF	WATER HEATER		BATHROOM CIRCUIT		20/1	12	
13					LIGHTS & RECEPTACLES	AFCI	15/1	14	
15	30/2		FCU-A1		LIGHTS & RECEPTACLES	AFCI	15/1	16	
17					LIGHTS & RECEPTACLES	AFCI	15/1	18	
19	20/2		HP-A		SPACE			20	
21					SPACE			22	

NOTES:  
1. BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.  
2. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.

UNIT "1H"		
SQUARE FOOTAGE	129 SF X 3 VAS/F	2.2 KVA
KITCHEN/LAUNDRY	4500 VA	4.5 KVA
RANGES	8000 VA	8.0 KVA
DRYERS	5000 VA	5.0 KVA
DISPOSALS	0 VA	0.0 KVA
DISHWASHERS	1200 VA	1.2 KVA
MICROWAVE/HOOD	1500 VA	1.5 KVA
WATER HEATERS	4500 VA	4.5 KVA
SUBTOTAL		26.9 KVA
DEMAND FACTOR	10.0 KVA X 100 %	10.0 KVA
REMAINDER	16.9 KVA X 40 %	6.8 KVA
HVAC (HEAT PUMP)	2.1 KVA X 100 %	2.1 KVA
HVAC (COOLING)	N/A KVA X 100 %	KVA
HVAC (HEATING)	4.6 KVA X 65 %	3.0 KVA
N.E.C. 220-82		
TOTAL		21.8 KVA
	VOLTAGE: 208/120 PHASE: 1	105.0 AMPS

**1 UNIT PLAN 1H.1 - ELECTRICAL**  
SCALE: 1/4" = 1'-0"



LOAD CENTER SCHEDULE - 1H.1									
MAIN: 125A MLO		VOLTAGE: 208/120		PHASE:		WIRE: 3 RECESSED		AIC: 10,000	
OKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE	DESCRIPTION	BKR TYPE	TRIP / POLES	OKT #	
1	50/2		RANGE	A	KITCHEN RECEPTACLES	AFCI	20/1	2	
3				B	KITCHEN RECEPTACLES	AFCI	20/1	4	
5	30/2		DRYER		DISHWASHER	AFCI/GFCI	20/1	6	
7					SPACE			8	
9	20/1	AFCI	MICROWAVE OVEN		WASHER	AFCI/GFCI	20/1	10	
11	30/2	LOCKOFF	WATER HEATER		BATHROOM CIRCUIT		20/1	12	
13					LIGHTS & RECEPTACLES	AFCI	15/1	14	
15	40/2		FCU-A2		LIGHTS & RECEPTACLES	AFCI	15/1	16	
17					LIGHTS & RECEPTACLES	AFCI	15/1	18	
19	20/2		HP-A		SPACE			20	
21					SPACE			22	

NOTES:  
1. BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.  
2. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.

UNIT "1H.1"		
SQUARE FOOTAGE	769 SF X 3 VAS/F	2.3 KVA
KITCHEN/LAUNDRY	4500 VA	4.5 KVA
RANGES	8000 VA	8.0 KVA
DRYERS	5000 VA	5.0 KVA
DISPOSALS	0 VA	0.0 KVA
DISHWASHERS	1200 VA	1.2 KVA
MICROWAVE/HOOD	1500 VA	1.5 KVA
WATER HEATERS	4500 VA	4.5 KVA
SUBTOTAL		27.0 KVA
DEMAND FACTOR	10.0 KVA X 100 %	10.0 KVA
REMAINDER	17.0 KVA X 40 %	6.8 KVA
HVAC (HEAT PUMP)	2.1 KVA X 100 %	2.1 KVA
HVAC (COOLING)	N/A KVA X 100 %	KVA
HVAC (HEATING)	4.6 KVA X 65 %	3.0 KVA
N.E.C. 220-82		
TOTAL		23.3 KVA
	VOLTAGE: 208/120 PHASE: 1	112.1 AMPS

- WHERE APPLICABLE, KITCHEN RECEPTACLE CIRCUIT SHALL POWER GAS WATER HEATER.
- NEMA 5-20R FOR CLOTHES WASHER. CIRCUIT SHALL BE 2#12, #12G.
- NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT SHALL BE 3#10, #10G.
- NEMA 14-50R FOR RANGE/OVEN. CIRCUIT SHALL BE 3#6, #10G.
- NEMA 5-20R FOR MICROWAVE/EXHAUST HOOD. CIRCUIT SHALL BE 2#12, #12G. LOCATE RECEPTACLE IN CABINETS ABOVE.
- FOR DISHWASHER CONNECTION, INSTALL SPLIT-WIRED NEMA 5-20R DUPLEX WITHIN BASE CABINET. RECEPTACLE SHALL BE ACCESSIBLE AND LOCATED IN CABINET ADJACENT TO DISHWASHER. DISHWASHER CORD LENGTH SHALL NOT EXCEED 6'-6".
- DISCONNECT SWITCH FOR AIR-HANDLING UNIT.
- JUNCTION BOX FOR CONNECTION TO WATER HEATER. CIRCUIT SHALL BE 2#10, #10G.
- INSTALL RECEPTACLE NO MORE THAN 12" BELOW COUNTERTOP, PROVIDED THAT THE COUNTERTOP EXTENDS NO MORE THAN 6" BEYOND ITS SUPPORT BASE.
- CONTRACTOR SHALL FURNISH AND INSTALL A STRUCTURED MEDIA BOX FOR TERMINATION OF COMMUNICATION CABLES. PROVIDE RECEPTACLES FOR TELCO, METERING SECURITY, AND ALL OTHER SYSTEMS AS REQUIRED. COORDINATE WITH ALL TRADES AND SUPPLIERS FOR REQUIREMENTS PRIOR TO ROUGH-IN.
- CEILING FAN RATED JUNCTION BOX
- PROVIDE JUNCTION BOX IN MECHANICAL CLOSET TO FOR AHU RELAY SHUTDOWN. JUNCTION BOX SHALL BE CONNECTED TO THE DWELLING UNIT SMOKE DETECTOR IN THE LIVING AREA. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH MECHANICAL EQUIPMENT PROVIDER.
- PROVIDE DUPLEX RECEPTACLE FOR MECHANICAL OUTSIDE AIR FAN. RECEPTACLE SHALL BE INSTALLED AT ACCESSIBLE LOCATION IN THE MECHANICAL CLOSET. COORDINATE EXACT LOCATION WITH MECHANICAL EQUIPMENT PROVIDER. CONNECT RECEPTACLE TO THE NEAREST LIGHTING AND RECEPTACLES CIRCUIT.

**Key Plan**

**Issue**

NO. DATE

**Revisions**

NO. DATE

**UNIT PLANS - ELECTRICAL**

PRINCIPAL IN CHARGE  
RSW, BEO  
PROJECT ARCHITECT  
RSW  
DRAWN  
CA, ES  
DATE  
03/29/2019  
SCALE:  
1/4" = 1'-0"  
APPROVED  
RSW  
JOB NO.  
15297.02  
DRAWING NO.  
**E303**