

PANEL: B										
VOLTAGE: 240/120V AMPS: 125 - MLO										
1 PHASE 3 WIRE FLUSH MOUNTED NEMA 1										
- DESCRIPTION -	VOL	WIRE SIZE	LOAD PER PHASE				CCT #	WIRE SIZE	VOL	- DESCRIPTION -
			A	B	C	D				
AFI REFRIGERATOR	1	12	20	1	0.7/4.0	2	50	6	2	RANGE
AFI DISHWASHER	1	14	15	3	1.1/4.0	4	30	10	2	DRYER
AFI MICROWAVE	1	12	20	5	1.5/2.5	6	30	10	2	DRYER
AFI KITCHEN APPLIANCES	1	12	20	7	1.5/2.5	8	30	10	2	DRYER
AFI KITCHEN APPLIANCES	1	12	20	9	1.5/4.7	10	50	6	2	AH-2
AFI LTS/RECEPTACLES	1	12	20	11	1.4/4.4	12	50	6	2	AH-2
AFI LTS/RECEPTACLES	1	12	20	13	1.5/3.0	14	40	8	2	WH-2
AFI LTS/RECEPTACLES	1	12	20	15	1.5/3.0	16	30	10	2	HP-2
AFI BATHROOM RECEPTACLES	1	12	20	17	0.5/2.1	18	30	10	2	HP-2
AFI WASHER	1	12	20	19	1.5/2.0	20	30	10	2	HP-2
SPACE	1	-	-	21	-/-	22	-	-	1	SPACE
SPACE	1	-	-	23	-/-	24	-	-	1	SPACE
SPACE	1	-	-	25	-/-	26	-	-	1	SPACE
SPACE	1	-	-	27	-/-	28	-	-	1	SPACE
SPACE	1	-	-	29	-/-	30	-	-	1	SPACE
TOTAL CONNECTED KVA			22.0	23.1	DEMAND KVA: 28.8					
PANEL RMS SYM. AMPS: SEE RISER			DEMAND AMPS: 120							

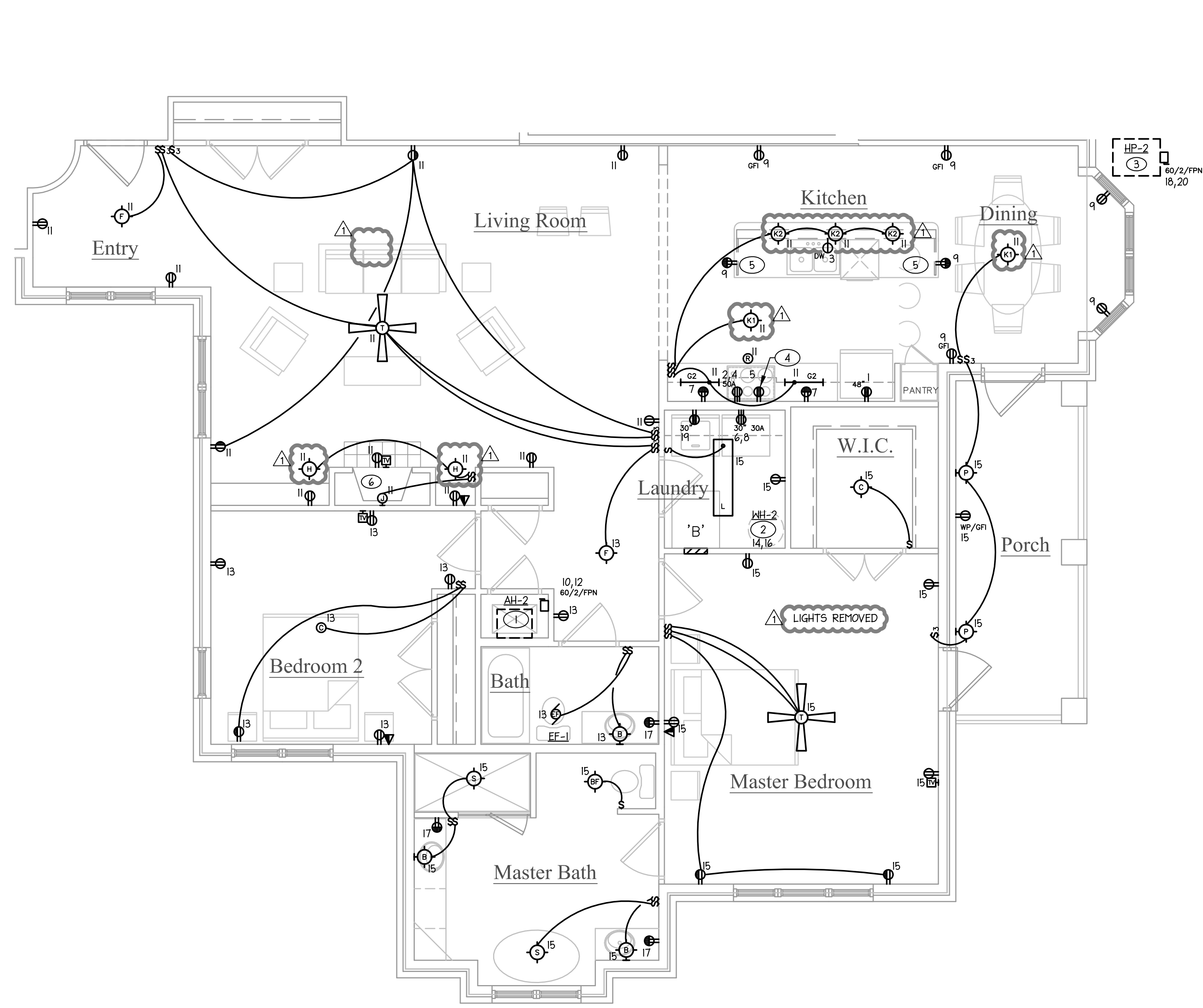
LOAD DEMAND CALCULATION - RESIDENTIAL NEC SECTION 220-82	
UNIT TYPE: 101, 105, 201, 205, 301, 305 SYSTEM VOLTAGE: 240/120V, 1Ø, 3Ø SERVICE SIZE: 125 AMPS SQUARE FEET: 1645	
LOAD DESCRIPTION	KVA
LIGHTING & RECEPTACLES (SQUARE FEET X 3 VA)	4.9
SMALL APPLIANCES (2 CIRCUITS X 1.5 KVA/CIRCUIT)	3.0
ELEC. CLOTHES DRYER	5.0
WASHER	1.5
RANGE	8.0
DISHWASHER	1.1
WATER HEATER	6.0
REFRIGERATOR	0.7
MICROWAVE	1.5
TOTAL	32.0
FIRST 10 KVA AT 100%	10.0
REMAINDER AT 40%	8.8
HEAT PUMP	4.1
AIR HANDLER	0.7
STRIP HEAT AT 65%	5.2
HEATING AT 100%	10.0
TOTAL RESIDENTIAL KVA	28.8

- GENERAL NOTES: (UNIT PLANS)
- ALL CIRCUIT NUMBERS SHOWN TO RESPECTIVE UNIT PANEL, UNLESS OTHERWISE NOTED.
- TAGGED NOTES: (UNIT PLANS)
- PROVIDE A FUSE DISCONNECT SWITCH FOR EACH UNIT'S AIR HANDLER. SEE UNIT PANEL SCHEDULE FOR ACTUAL WIRE AND BREAKER SIZE. DISCONNECT SHALL BE INSTALLED TO PERMIT REQUIRED WORKING CLEARANCE.
 - CIRCUIT FOR EACH UNIT'S WATER HEATER. SEE UNIT PANEL SCHEDULE FOR ACTUAL WIRE AND BREAKER SIZE. DISCONNECT SHALL BE BREAKER WITH LOCK-OFF DEVICE.
 - SEE BUILDING PLANS FOR HEAT PUMP UNIT LOCATIONS.
 - PROVIDE RECEPTACLE IN CABINET SPACE ABOVE RANGE FOR FUTURE MICROWAVE. COORDINATE LOCATION WITH MILLWORK.
 - MOUNT RECEPTACLES HORIZONTAL 6" BELOW COUNTER.
 - E.C. SHALL COORDINATE EXACT FIREPLACE REQUIREMENTS WITH FIREPLACE MANUFACTURER. MOUNT RECEPTACLE AND CATV OUTLET ABOVE MANTLE.

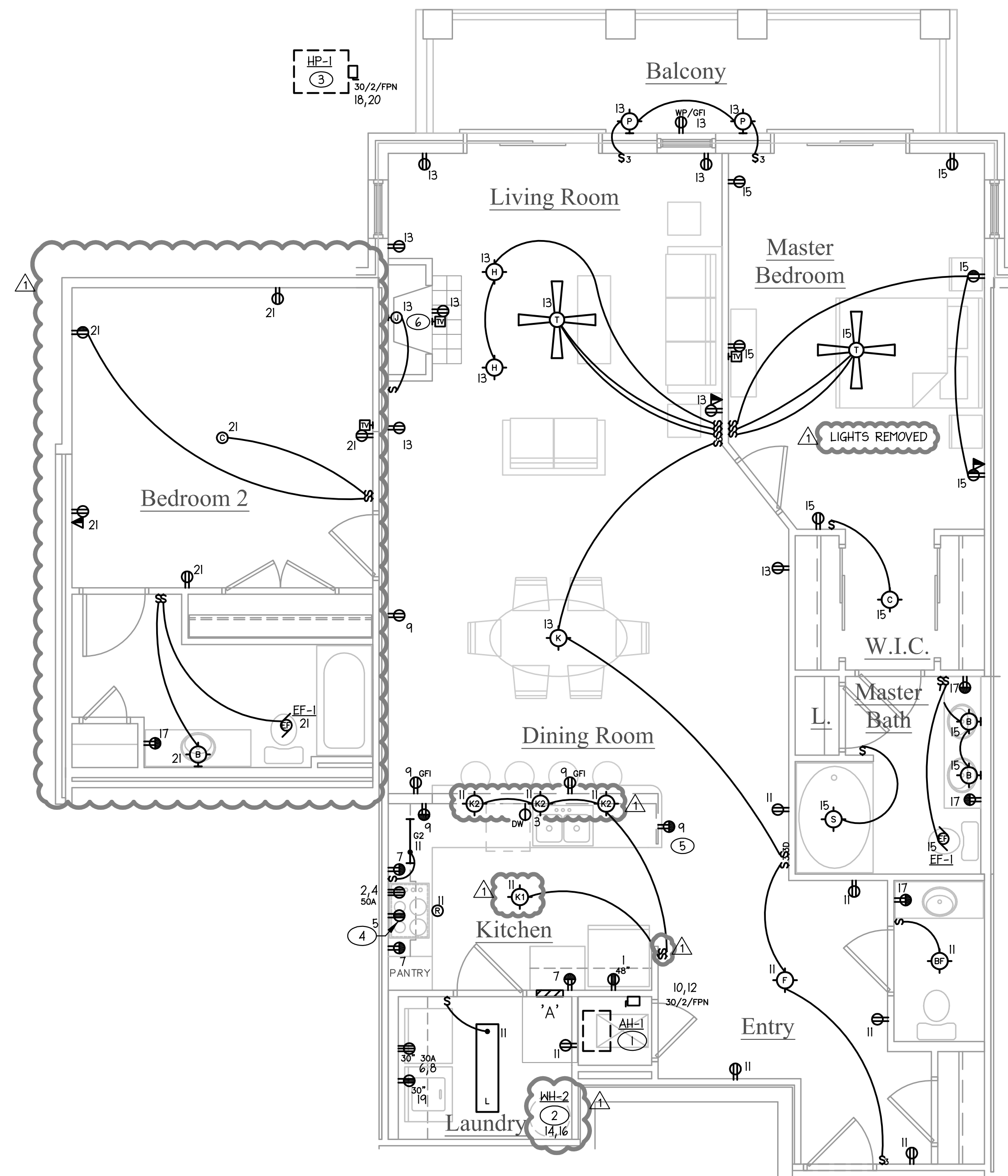
PANEL: A										
VOLTAGE: 240/120V AMPS: 125 - MLO										
1 PHASE 3 WIRE FLUSH MOUNTED NEMA 1										
- DESCRIPTION -	VOL	WIRE SIZE	LOAD PER PHASE				CCT #	WIRE SIZE	VOL	- DESCRIPTION -
			A	B	C	D				
AFI REFRIGERATOR	1	12	20	1	0.7/4.0	2	50	6	2	RANGE
AFI DISHWASHER	1	14	15	3	1.1/4.0	4	30	10	2	DRYER
AFI MICROWAVE	1	12	20	5	1.5/2.5	6	30	10	2	DRYER
AFI KITCHEN APPLIANCES	1	12	20	7	1.5/2.5	8	30	10	2	DRYER
AFI KITCHEN APPLIANCES	1	12	20	9	1.5/2.7	10	30	10	2	AH-1
AFI LTS/RECEPTACLES	1	14	15	11	1.0/2.8	12	40	8	2	WH-2
AFI LTS/RECEPTACLES	1	14	15	13	1.0/3.0	14	40	8	2	WH-2
AFI LTS/RECEPTACLES	1	14	15	15	1.0/3.0	16	30	10	2	HP-1
AFI BATHROOM RECEPTACLES	1	12	20	17	0.5/1.4	18	25	10	2	HP-1
AFI WASHER	1	12	20	19	1.5/1.4	20	30	10	2	HP-1
AFI LTS/RECEPTACLES	1	14	15	21	1.0/-	22	-	-	1	SPACE
SPACE	1	-	-	23	-/-	24	-	-	1	SPACE
SPACE	1	-	-	25	-/-	26	-	-	1	SPACE
SPACE	1	-	-	27	-/-	28	-	-	1	SPACE
SPACE	1	-	-	29	-/-	30	-	-	1	SPACE
TOTAL CONNECTED KVA			19.8	19.8	DEMAND KVA: 25.1					
PANEL RMS SYM. AMPS: SEE RISER			DEMAND AMPS: 105							

LOAD DEMAND CALCULATION - RESIDENTIAL NEC SECTION 220-82	
UNIT TYPE: 103 SYSTEM VOLTAGE: 240/120V, 1Ø, 3Ø SERVICE SIZE: 125 AMPS SQUARE FEET: 1515	
LOAD DESCRIPTION	KVA
LIGHTING & RECEPTACLES (SQUARE FEET X 3 VA)	4.5
SMALL APPLIANCES (2 CIRCUITS X 1.5 KVA/CIRCUIT)	3.0
ELEC. CLOTHES DRYER	5.0
WASHER	1.5
RANGE	8.0
DISHWASHER	1.1
WATER HEATER	6.0
REFRIGERATOR	0.7
MICROWAVE	1.5
TOTAL	31.3
FIRST 10 KVA AT 100%	10.0
REMAINDER AT 40%	8.5
HEAT PUMP	2.8
AIR HANDLER	0.5
STRIP HEAT AT 65%	3.3
HEATING AT 100%	6.6
TOTAL RESIDENTIAL KVA	25.1

- PANEL SHALL BE EQUAL TO SQUARE D GO LOAD CENTER SERIES.
- PROVIDE HACR BREAKERS FOR HVAC EQUIPMENT.
- PROVIDE SMD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.
- AFI - PROVIDE ARC FAULT CIRCUIT INTERRUPT BREAKER.
- L - INDICATES LOCK-ON ATTACHMENT REQUIRED.

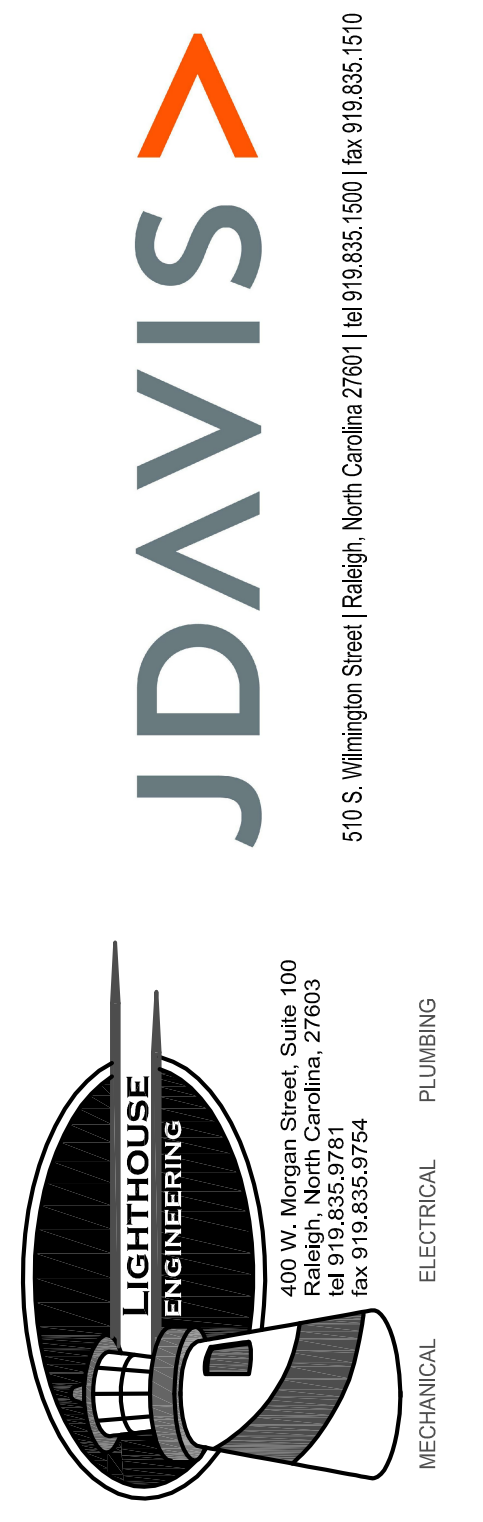


2 UNIT 2
1/4" = 1'-0"

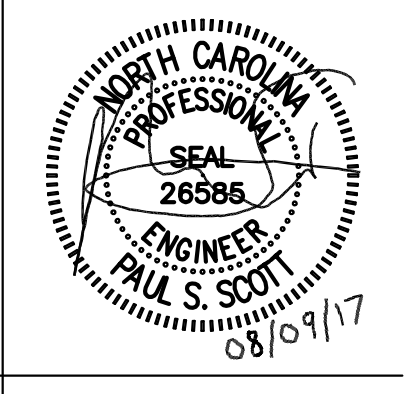


1 UNIT 1
1/4" = 1'-0"

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Concordia Building Company
Nantucket Condominiums
700 Waterford Lake Drive Cary, NC



PROJECT:	WOP-05115	DATE	06.16.2017
REVISIONS:			
1 CITY COMMENTS		08.07.17	
DRAWN BY:	PSS		
CHECKED BY:	PSS		
CONTENT:	ELECTRICAL		
	UNIT PLAN		

E4.01