

BLDG. 1 SERVICE 1A CALCULATION

208/120V 3 PHASE 4 WIRE

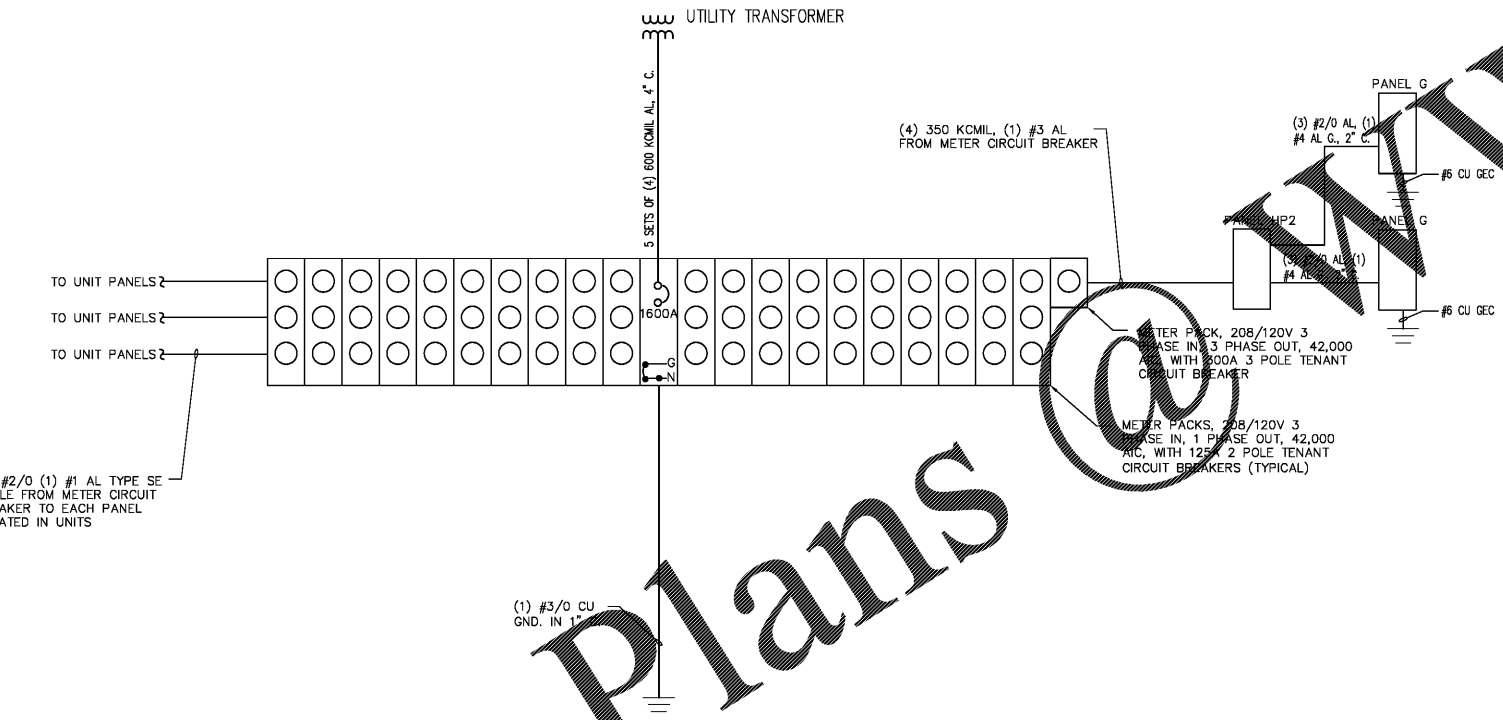
PER NEC 2002, ART. 220.32 - MULTIFAMILY DWELLING

22924 TOTAL S.F. 22 DWELLING UNITS

CIRCUIT	V.A/S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	66.0	1.0	66.0
LAUNDRY CIRCUITS	-	33.0	1.0	33.0
DRYERS	-	110.0	1.0	110.0
GENERAL LTG. RECEPTACLES	3	68.8	1.0	68.8
RANGES	-	176.0	1.0	176.0
MICROWAVES/EXHAUST HOODS	-	22.0	1.0	22.0
DISPOSALS	-	17.6	1.0	17.6
DISHWASHERS	-	15.4	1.0	15.4
REFRIGERATORS	-	17.6	1.0	17.6
WATER HEATERS	-	99.0	1.0	99.0
HEATING	-	57.5	0.0	0.0
COOLING	-	93.4	1.0	93.4
TOTAL KVA (DWELLING UNITS)	-	-	-	718.7
DEMAND KVA (DWELLING UNITS)	-	-	0.36	258.7
HOUSE LTG.	-	9.1	1.0	9.1
HOUSE RECEPT.	-	11.6	NEC	10.8
LARGEST MOTOR	-	18.0	1.25	22.5
OTHER MOTORS	-	10.3	1.0	10.3
HOUSE HEATING	-	21.0	1.0	21.0
HOUSE COOLING	-	0.0	1.0	0.0
HOUSE OTHER	-	9.9	1.0	9.9
TOTAL CALCULATED KVA	-	-	-	342.4
TOTAL CALCULATED AMPS	-	-	-	950.3
TOTAL METERS REQUIRED	-	-	-	23
MIN. MAIN DISCONNECT SIZE (AMPS)	-	-	-	1200

1 ELECTRICAL RISER DIAGRAM - BLDG. 1A

E-13 NOT TO SCALE



BLDG. 1 SERVICE 1B CALCULATION

208/120V 3 PHASE 4 WIRE

PER NEC 2002, ART. 220.32 - MULTIFAMILY DWELLING

50618 TOTAL S.F. 60 DWELLING UNITS

CIRCUIT	V.A/S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	180.0	1.0	180.0
LAUNDRY CIRCUITS	-	90.0	1.0	90.0
DRYERS	-	300.0	1.0	300.0
GENERAL LTG. RECEPTACLES	3	151.9	1.0	151.9
RANGES	-	480.0	1.0	480.0
MICROWAVES/EXHAUST HOODS	-	60.0	1.0	60.0
DISPOSALS	-	48.0	1.0	48.0
DISHWASHERS	-	42.0	1.0	42.0
REFRIGERATORS	-	48.0	1.0	48.0
WATER HEATERS	-	270.0	1.0	270.0
HEATING	-	138.3	0.0	0.0
COOLING	-	235.1	1.0	235.1
TOTAL KVA (DWELLING UNITS)	-	-	-	1905.0
DEMAND KVA (DWELLING UNITS)	-	-	0.24	457.2
HOUSE LTG.	-	11.1	1.0	11.1
HOUSE RECEPT.	-	15.8	NEC	12.9
LARGEST MOTOR	-	0.0	1.25	0.0
OTHER MOTORS	-	9.4	1.0	9.4
HOUSE HEATING	-	21.0	1.0	21.0
HOUSE COOLING	-	0.0	1.0	0.0
HOUSE OTHER	-	9.9	1.0	9.9
TOTAL CALCULATED KVA	-	-	-	521.5
TOTAL CALCULATED AMPS	-	-	-	1447.5
TOTAL METERS REQUIRED	-	-	-	61
MIN. MAIN DISCONNECT SIZE (AMPS)	-	-	-	1600

2 ELECTRICAL RISER DIAGRAM - BLDG. 1B

E-13 NOT TO SCALE

Order Plans



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HUNTSVILLE, ALABAMA
AN APARTMENT COMMUNITY FOR
RBJ BAILEY, LLC

ELECTRICAL
RISER DIAGRAMS
SHEET NO.