



ENGLISH & ASSOCIATES ARCHITECTS, INC.
 3084 MERCER UNIVERSITY DRIVE, SUITE 100
 ATLANTA, GEORGIA 30341
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JOB PROGRESS:
 ITEM: DATE:

REVISIONS:
 TAG: DATE:

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ALEXANDRIA
 AN APARTMENT COMMUNITY
 FOR
Bobo Family Group
 HUNTSVILLE, ALABAMA

JOB NUMBER:

DRAWN BY:

CHECKED BY:

ELECTRICAL RISER DIAGRAMS

SHEET NO.

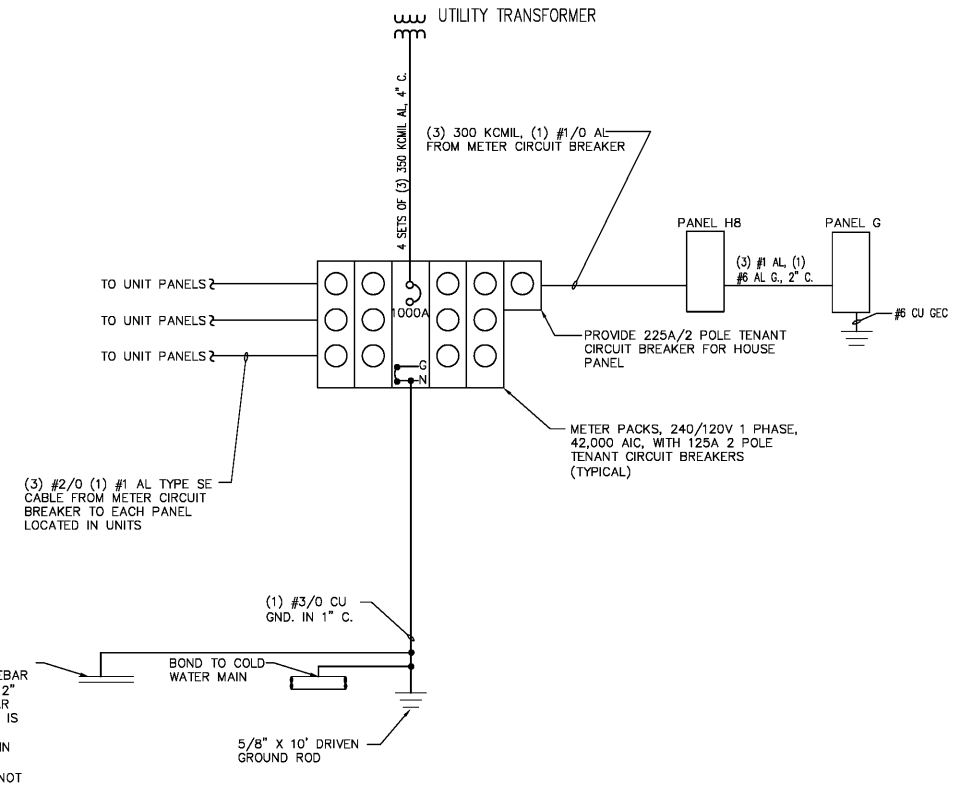
E-16.7

BLDG. 8 SERVICE A CALCULATION
 240/120V 1 PHASE 3 WIRE
 PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
 12876 TOTAL S.F.

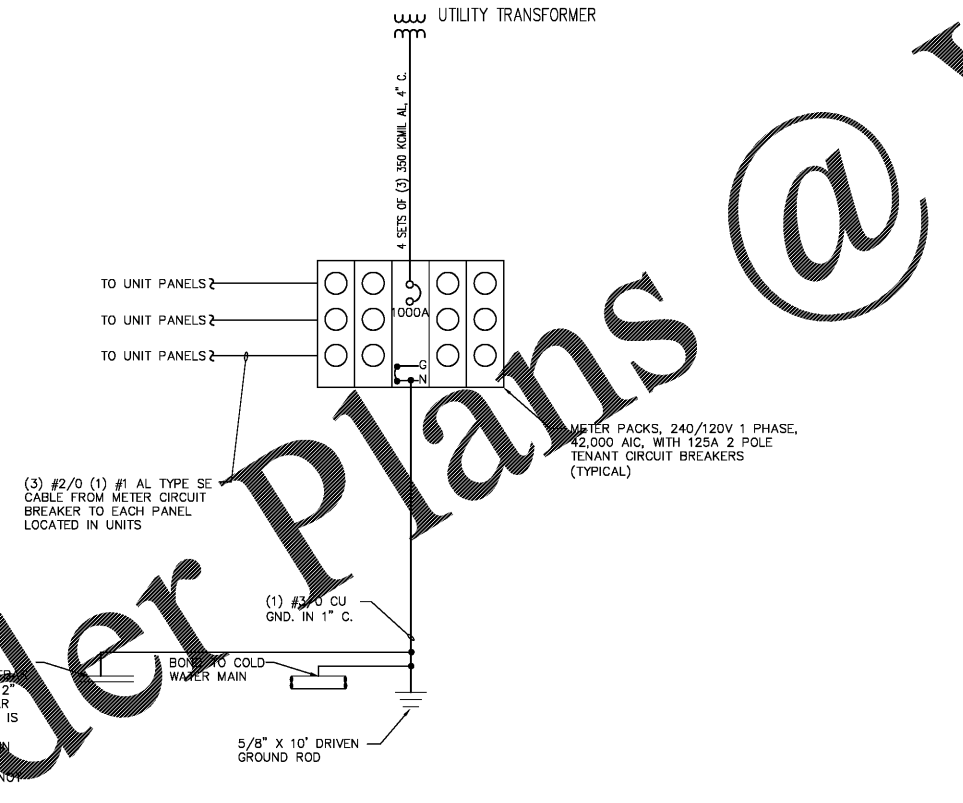
CIRCUIT	V.A.S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	36.0	1.0	36.0
LAUNDRY CIRCUITS	-	18.0	1.0	18.0
DRYERS	-	60.0	1.0	60.0
GENERAL LTG. RECEPTACLES	3	38.6	1.0	38.6
RANGES	-	96.0	1.0	96.0
MICROWAVES/EXHAUST HOODS	-	12.0	1.0	12.0
DISPOSALS	-	9.6	1.0	9.6
DISHWASHERS	-	8.4	1.0	8.4
REFRIGERATORS	-	9.6	1.0	9.6
WATER HEATERS	-	54.0	1.0	54.0
HEAT PUMP COMPRESSORS	-	43.2	1.0	43.2
SUPPLEMENTAL HEAT	-	78	0.65	50.7
TOTAL KVA (DWELLING UNITS)	-	-	-	436.1
DEMAND KVA (DWELLING UNITS)	-	-	0.41	178.8
HOUSE LTG.	-	3.3	1.0	3.3
HOUSE RECEPT.	-	0.8	NEC	0.8
HOUSE MOTORS	-	0.0	1.0	0.0
HOUSE HVAC	-	0.5	1.0	0.5
HOUSE EQUIPMENT	-	9.9	1.0	9.9
TOTAL CALCULATED KVA	-	-	-	193.3
TOTAL CALCULATED AMPS	-	-	-	805.4
TOTAL METERS REQUIRED	-	-	-	13
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000

BLDG. 8 SERVICE B CALCULATION
 240/120V 1 PHASE 3 WIRE
 PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
 12084 TOTAL S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	36.0	1.0	36.0
LAUNDRY CIRCUITS	-	18.0	1.0	18.0
DRYERS	-	60.0	1.0	60.0
GENERAL LTG. RECEPTACLES	3	36.3	1.0	36.3
RANGES	-	96.0	1.0	96.0
MICROWAVES/EXHAUST HOODS	-	12.0	1.0	12.0
DISPOSALS	-	9.6	1.0	9.6
DISHWASHERS	-	8.4	1.0	8.4
REFRIGERATORS	-	9.6	1.0	9.6
WATER HEATERS	-	54.0	1.0	54.0
HEAT PUMP COMPRESSORS	-	38.6	1.0	38.6
SUPPLEMENTAL HEAT	-	60	0.65	39.0
TOTAL KVA (DWELLING UNITS)	-	-	-	417.4
DEMAND KVA (DWELLING UNITS)	-	-	0.41	171.2
TOTAL CALCULATED KVA	-	-	-	171.2
TOTAL CALCULATED AMPS	-	-	-	713.1
TOTAL METERS REQUIRED	-	-	-	12
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000



1 ELECTRICAL RISER DIAGRAM - BLDG. 8A
 E-16.7 NOT TO SCALE



2 ELECTRICAL RISER DIAGRAM - BLDG. 8B
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