



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.

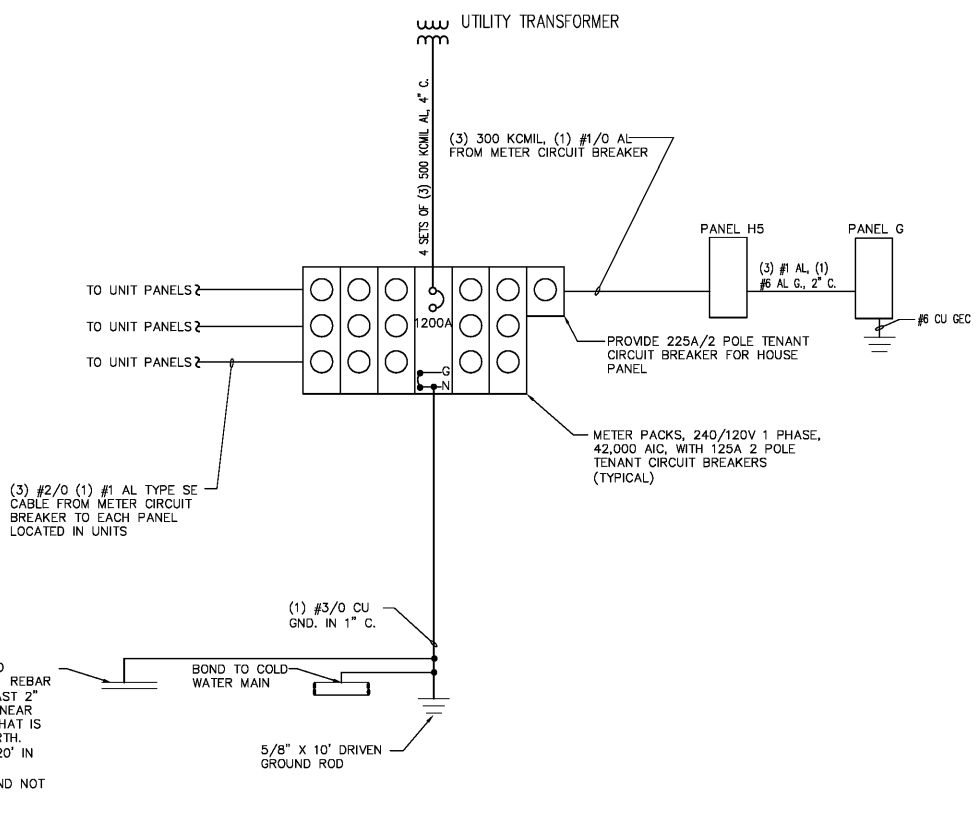
E-16.5

BLDG. 5 SERVICE A CALCULATION
 240/120V 1 PHASE 3 WIRE
 PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
 13652 TOTAL S.F.

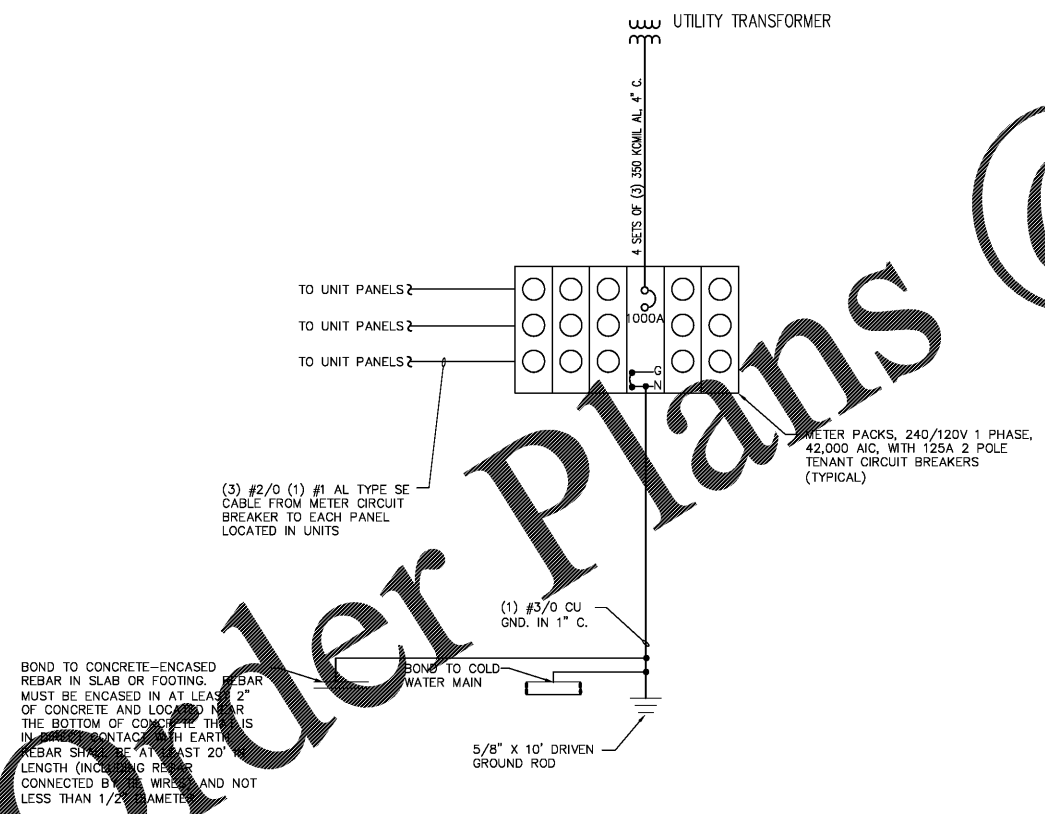
CIRCUIT	V.A.S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	45.0	1.0	45.0
LAUNDRY CIRCUITS	-	22.5	1.0	22.5
DRYERS	-	75.0	1.0	75.0
GENERAL LTG. RECEPTACLES	3	41.0	1.0	41.0
RANGES	-	120.0	1.0	120.0
MICROWAVES/EXHAUST HOODS	-	15.0	1.0	15.0
DISPOSALS	-	12.0	1.0	12.0
DISHWASHERS	-	10.5	1.0	10.5
REFRIGERATORS	-	12.0	1.0	12.0
WATER HEATERS	-	67.5	1.0	67.5
HEAT PUMP COMPRESSORS	-	47.4	1.0	47.4
SUPPLEMENTAL HEAT	-	75	0.65	48.8
TOTAL KVA (DWELLING UNITS)	-	-	-	516.6
DEMAND KVA (DWELLING UNITS)	-	-	0.4	206.6
HOUSE LTG.	-	3.1	1.0	3.1
HOUSE RECEPT.	-	1.2	NEC	1.2
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	-	-	-	221.3
TOTAL CALCULATED AMPS	-	-	-	922.2
TOTAL METERS REQUIRED	-	-	-	16
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1200

BLDG. 5 SERVICE B CALCULATION
 240/120V 1 PHASE 3 WIRE
 PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
 13662 TOTAL S.F.

CIRCUIT	V.A.S.F.	LOAD (KVA)	DF	TOTAL LOAD (KVA)
SMALL APPLIANCE CIRCUITS	-	45.0	1.0	45.0
LAUNDRY CIRCUITS	-	22.5	1.0	22.5
DRYERS	-	75.0	1.0	75.0
GENERAL LTG. RECEPTACLES	3	41.0	1.0	41.0
RANGES	-	120.0	1.0	120.0
MICROWAVES/EXHAUST HOODS	-	15.0	1.0	15.0
DISPOSALS	-	12.0	1.0	12.0
DISHWASHERS	-	10.5	1.0	10.5
REFRIGERATORS	-	12.0	1.0	12.0
WATER HEATERS	-	67.5	1.0	67.5
HEAT PUMP COMPRESSORS	-	47.4	1.0	47.4
SUPPLEMENTAL HEAT	-	75	0.65	48.8
TOTAL KVA (DWELLING UNITS)	-	-	-	516.6
DEMAND KVA (DWELLING UNITS)	-	-	0.4	206.6
TOTAL CALCULATED KVA	-	-	-	206.6
TOTAL CALCULATED AMPS	-	-	-	861.0
TOTAL METERS REQUIRED	-	-	-	15
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000



1 ELECTRICAL RISER DIAGRAM - BLDG. 5A
 E-16.5 NOT TO SCALE



2 ELECTRICAL RISER DIAGRAM - BLDG. 5B
 E-16.5 NOT TO SCALE

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