



1 ELECTRICAL RISER DIAGRAM - BLDG. 12A  
E-16.10 NOT TO SCALE

BLDG. 12 SERVICE A CALCULATION  
240/120V 1 PHASE 3 WIRE  
PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING  
13662 TOTAL S.F.

CIRCUIT	VA/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.	-	2.8	1.0	2.8
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	-	1.0	1.0	1.0
TOTAL CALCULATED KVA	-	-	-	212.2
TOTAL CALCULATED AMPS	-	-	-	141
TOTAL METERS REQUIRED	-	-	-	15
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000

BLDG. 12 SERVICE B CALCULATION  
240/120V 1 PHASE 3 WIRE  
PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING  
13662 TOTAL S.F.

CIRCUIT	VA/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

2 ELECTRICAL RISER DIAGRAM - BLDG. 12B  
E-16.10 NOT TO SCALE



**ENGLISH & ASSOCIATES**  
ARCHITECTS, INC.

3084 MERCER UNIVERSITY DRIVE, SUITE 100  
ATLANTA, GEORGIA 30341  
DENGGLISH@ENGLISHASSOCIATESINC.COM

JOB PROGRESS:  
ITEM: DATE:

REVISIONS:  
TAG: DATE:

This drawing, as an instrument of service, is and shall remain the property of the Architect. It shall not be published, reproduced or used in any way without the written permission of the Architect. All questions to be submitted as a formal request for information to the Architect of record.

**ALEXANDRIA**  
AN APARTMENT COMMUNITY  
FOR  
**Bobo Family Group**  
HUNTSVILLE, ALABAMA

JOB NUMBER:

DRAWN BY:

CHECKED BY:

ELECTRICAL RISER DIAGRAMS

SHEET NO.

E-16.10