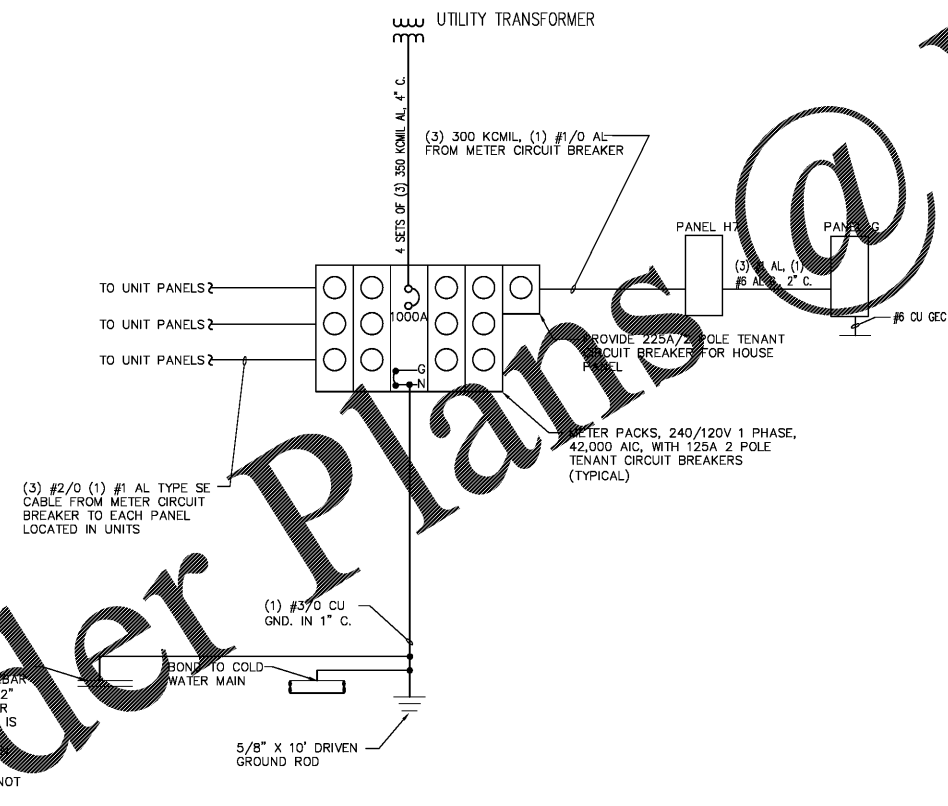


1 ELECTRICAL RISER DIAGRAM - BLDG. 4
E-16.4 NOT TO SCALE

BLDG 4 SERVICE CALCULATION
240/120V 1 PHASE 3 WIRE
PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
13284 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	39.9	1.0	39.9
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	-	42.0	1.0	42.0
SUPPLEMENTAL HEAT	-	60	0.65	39.0
TOTAL KVA (DWELLING UNITS)	-	-	-	424.5
DEMAND KVA (DWELLING UNITS)	-	-	0.41	174.0
HOUSE LTG.	-	2.5	1.0	2.5
HOUSE RECEPT	-	0.4	NEC	0.4
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	-	-	-	178.4
TOTAL CALCULATED AMPS	-	-	-	743.5
TOTAL METERS REQUIRED	-	-	-	13
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000



2 ELECTRICAL RISER DIAGRAM - BLDG. 7
E-16.4 NOT TO SCALE

BLDG 7 SERVICE CALCULATION
240/120V 1 PHASE 3 WIRE
PER NEC 2014, ART. 220.84 - MULTIFAMILY DWELLING
13284 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	39.9	1.0	39.9
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	-	42.0	1.0	42.0
SUPPLEMENTAL HEAT	-	60	0.65	39.0
TOTAL KVA (DWELLING UNITS)	-	-	-	424.5
DEMAND KVA (DWELLING UNITS)	-	-	0.41	174.0
HOUSE LTG.	-	2.1	1.0	2.1
HOUSE RECEPT.	-	0.4	NEC	0.4
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	-	-	-	178.0
TOTAL CALCULATED AMPS	-	-	-	741.8
TOTAL METERS REQUIRED	-	-	-	13
MAIN DISCONNECT SIZE (AMPS)	-	-	-	1000



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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-16.4