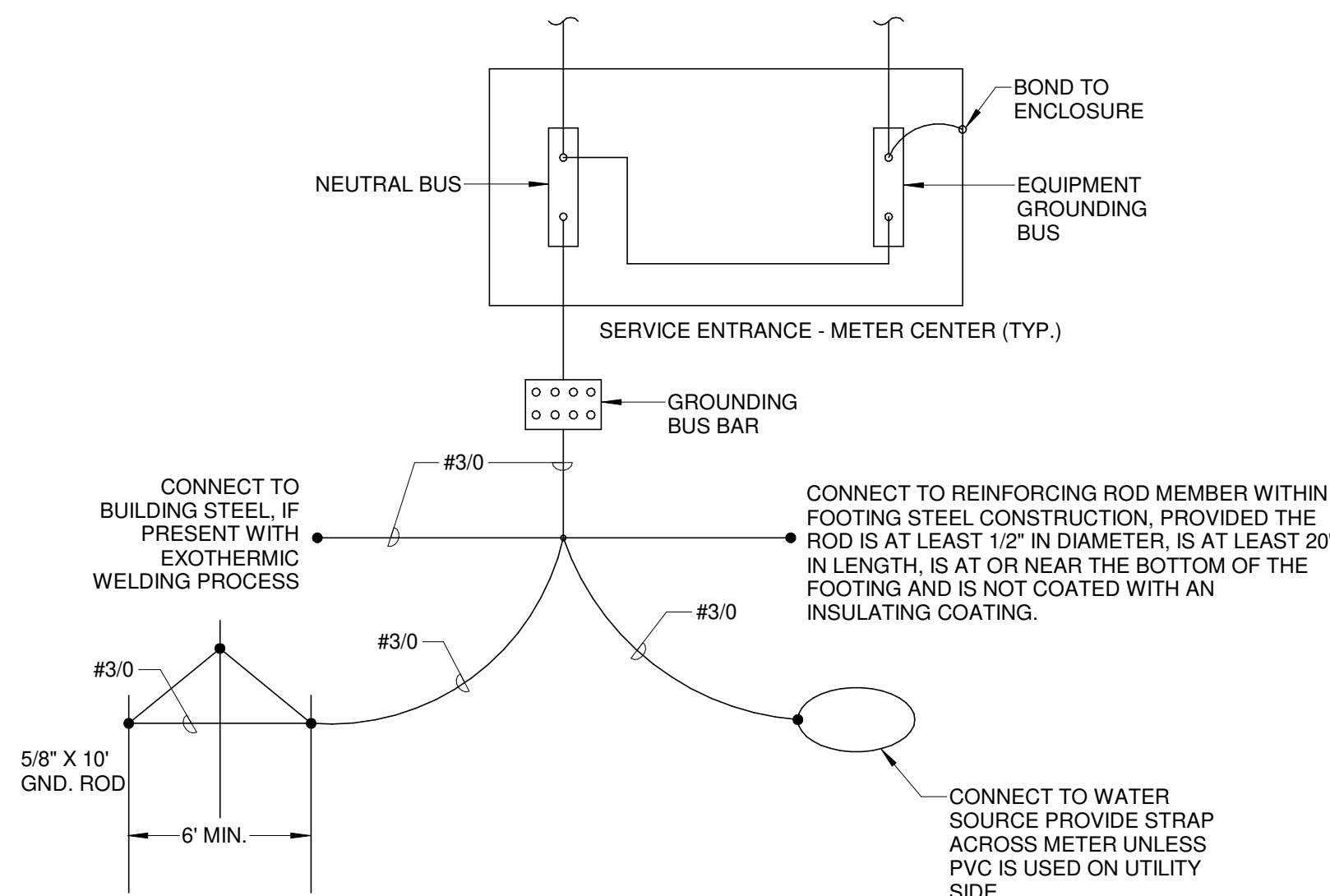


1. LOCAL UTILITY COMPANY PRIMARY RISER POLE. COORDINATE EXACT LOCATION WITH LOCAL UTILITY COMPANY.
2. EXTEND 2 - 3" PRIMARY CONDUITS UP RISER POLE AS DIRECTED BY LOCAL UTILITY COMPANY.
3. PAD MOUNTED 1 PHASE TRANSFORMER PROVIDED BY LOCAL UTILITY COMPANY.
4. CONCRETE TRANSFORMER PAD PER LOCAL UTILITY COMPANY DETAILS. CONFORM TO ALL UTILITY COMPANY STANDARDS FOR TRANSFORMER PAD. INCLUDE AL UTILITY COMPANY AD TO CONSTRUCTION COST IN BID.
5. PRIMARY CONDUITS ONLY. MINIMUM 48" BELOW GRADE. COORDINATE WITH LOCAL UTILITY COMPANY FOR CONDUCTOR SIZING.
6. 4 - 4" CONDUITS WITH 3 - 500KC ALUM. CABLES IN EACH CONDUIT AND 1 - 4" SPARE CONDUIT
7. 1200A, 1PH, MAIN CIRCUIT BREAKER WITH LOCKING FEATURE. SQUARE "D" CATALOG NUMBER EZM11200CB, 65,000 AIC.
8. 5 - 125A, 1PH, SOCKETS WITH 125A BREAKER IN EACH POSITION. SQUARE "D" CATALOG NUMBER EZM115125. COORDINATE EXACT METERING REQUIREMENTS WITH LOCAL UTILITY COMPANY. SUCH FEATURES WOULD INCLUDE HORN BY-PASS, SOCKET TYPE, ETC.
9. #1/0 ALUMINUM SER CABLE
10. PROVIDE 1 - 3/4" CONDUIT TO EACH UNIT FROM CATV CABINET, TERMINATE EACH CONDUIT AT CATV BOX WITH TYPICAL DWELLING UNIT. SEE COMMUNICATION PLANS FOR CATV BOX TYPICAL LOCATIONS.
11. EXTEND 1 - 2" CONDUIT TO CATV SERVICE POINT AS DIRECTED BY LOCAL CATV COMPANY. PROVIDE 1 - 2" SPARE CONDUIT.
12. PROVIDE 1 - 3/4" CONDUIT TO EACH UNIT FROM TELEPHONE CABINET, TERMINATE EACH CONDUIT AT TELEPHONE BOX WITHIN TYPICAL DWELLING UNIT. SEE COMMUNICATION PLANS FOR TELEPHONE BOX TYPICAL LOCATIONS.
13. EXTEND 1 - 2" CONDUIT TO TELEPHONE SERVICE POINT AS DIRECTED BY LOCAL TELEPHONE COMPANY. PROVIDE 1 - 2" SPARE CONDUIT.
14. SEE SERVICE ENTRANCE GROUNDING DETAIL 2/E401 FOR ADDITIONAL INFORMATION.
15. 2 - 4" SCHEDULE 40 PVC CONDUITS, MINIMUM 48" GRADE.

1-BR UNIT LOAD TABULATION PER NEC ARTICLE 220 PART IV: APPROXIMATE 1-BR UNIT 73 SQ. FEET		
LIGHTING RECEPTACLES 3W/SQ.FT.		2169 VA
HOT WATER HEATER		4500 VA
WASHER		1500 VA
DRYER		5760 VA
RANGE		9600 VA
REFRIGERATOR		1000 VA
DISHWASHER		1200 VA
GARBAGE DISPOSAL		1000 VA
KITCHEN APPLIANCE CIRCUIT (1200 X 2)		2400 VA
EF-1, EF-2 AND EH-1		400 VA
NEC ARTICLE 220.82 SECTION (B) SUB TOTAL:		29529 VA
10,000 VA (X 1.0) + 19220 VA (X 0.41) SECTION (B) LOAD		18007 VA
NEC ARTICLE 220.82 (C) LOAD: (AH-1 HEAT ONLY)		6480 VA
1-BR UNIT DEMAND LOAD PER NEC ARTICLE 220.82 (B) + (C)		24487 VA
1-BR UNIT DEMAND AMPS @240V 1 Ø TOTAL:		102 AMPS
2-BR UNIT LOAD TABULATION PER NEC ARTICLE 220 PART IV: APPROXIMATE 2-BR UNIT 1175 SQ. FEET		
LIGHTING RECEPTACLES 3W/SQ.FT.		3525 VA
HOT WATER HEATER		4500 VA
WASHER		1500 VA
DRYER		5760 VA
RANGE		9600 VA
REFRIGERATOR		1000 VA
DISHWASHER		1200 VA
GARBAGE DISPOSAL		1000 VA
KITCHEN APPLIANCE CIRCUIT (1500 X 2)		3000 VA
EF-1, EF-2 AND EH-1		400 VA
NEC ARTICLE 220.82 SECTION (B) SUB TOTAL:		30885 VA
10,000 VA (X 1.0) + 20165 VA (X 0.41) SECTION (B) LOAD		18583 VA
NEC ARTICLE 220.82 (C) LOAD: (AH-1 HEAT ONLY)		6480 VA
2-BR UNIT DEMAND LOAD PER NEC ARTICLE 220.82 (B) + (C)		VA
2-BR UNIT DEMAND AMPS @240V 1 Ø TOTAL:		104 AMPS
COMBINED TOTALS:		
TYPICAL 1-BR DWELLING UNIT LOAD 36009 VA X 8 UNITS		288072 VA
TYPICAL 2-BR DWELLING UNIT LOAD 37365 VA X 4 UNITS		149460 VA
TYPICAL 3-BR DWELLING UNIT LOAD 38472 VA X 4 UNITS		153888 VA
TOTAL BLDG TYPE 1 SERVICE DWELLING UNIT CALCULATED LOAD (16 UNITS)		591420 VA
MULTI-DWELLING DIVERSITY PER NEC ARTICLE 220.84		0.39
TOTAL BLDG TYPE 1 SERVICE DWELLING UNIT DEMAND VA (16 UNITS)		230654 VA
DEMAND VA FOR PANEL "HP1" ESTIMATED FULL USAGE		9356 VA
TOTAL BLDG TYPE 1 SERVICE DEMAND VA		240010 VA
TOTAL BLDG TYPE 1 SERVICE DEMAND AMPS @240V (1 Ø)		1000 AMPS
USE 1200 AMP 1 Ø SERVICE EQUIPMENT FOR BLDG TYPE 1 SERVICE		

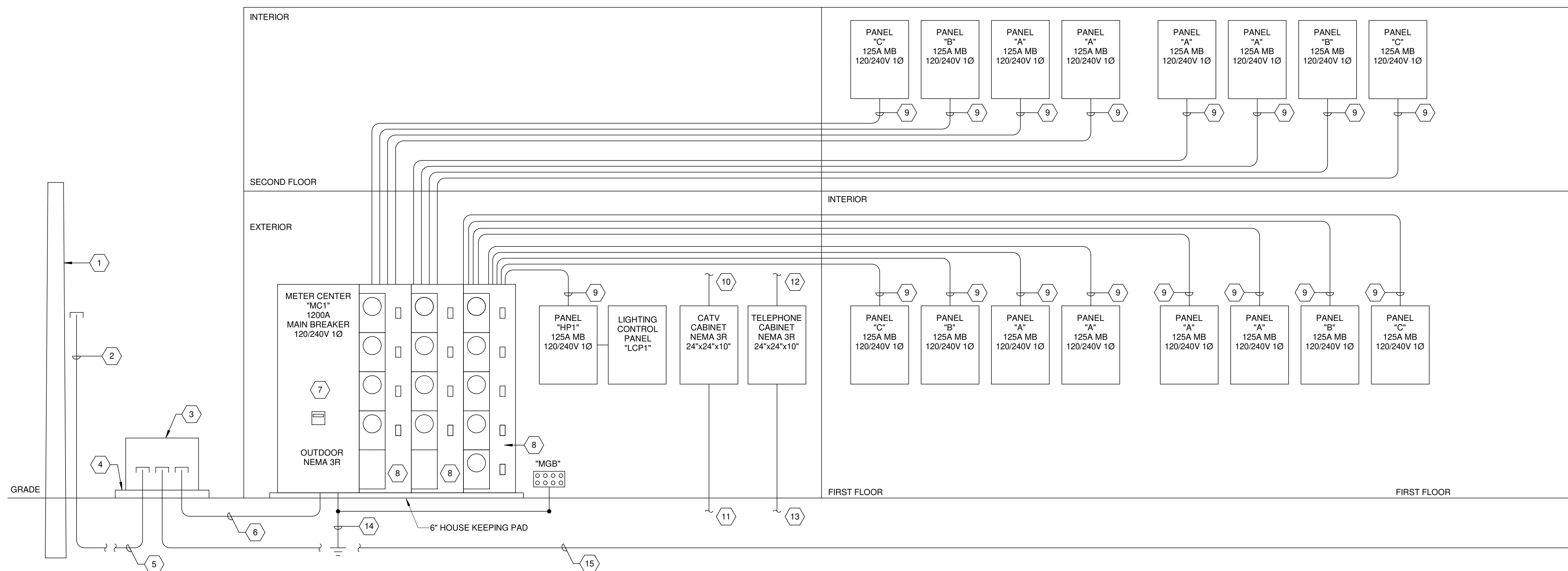
3-BR UNIT LOAD TABULATION PER NEC ARTICLE 220 PART IV: APPROXIMATE 3-BR UNIT 1344 SQ. FEET	
LIGHTING RECEPTACLES 3W/SQ.FT.	4032 VA
HOT WATER HEATER	4500 VA
WASHER	1500 VA
DRYER	5760 VA
RANGE	9600 VA
REFRIGERATOR	1000 VA
DISHWASHER	1200 VA
GARBAGE DISPOSAL	1000 VA
KITCHEN APPLIANCE CIRCUIT (1500 X 2)	3000 VA
EF-1, EF-2 AND EH-1	400 VA
NEC ARTICLE 220.82 SECTION (B) SUB TOTAL:	31992 VA
10,000 VA (X 1.0) + 20165 VA (X 0.41) SECTION (B) LOAD	19017 VA
NEC ARTICLE 220.82 (C) LOAD: (AH-1 HEAT ONLY)	6480 VA
3-BR UNIT DEMAND LOAD PER NEC ARTICLE 220.82 (B) + (C)	25497 VA
3-BR UNIT DEMAND AMPS @240V 1Ø TOTAL:	106 AMPS



1. GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NEC.
2. ENCLOSE GROUNDING WIRE IN CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE.
3. SPLICES IN THE GROUNDING ELECTRODE ARE PERMITTED ONLY BY MEANS OF IRREVERSIBLE COMPRESSION, OR CAN CONNECTION LISTED FOR THE PURPOSE. OF THE EXOTHERMIC WELDING PROCESS. CONNECTION TO GROUND RODS, BLDG STEEL OR FOOTING STEEL (REBAR) SHALL BE BY EXOTHERMIC WELDING PROCESS.
4. GROUND BUS RESISTANCE TO EARTH TO BE 10 OHM OR LESS. ADD GROUND RODS AS REQUIRED.
5. BOND TO SPRINKLER SYSTEM PIPING, IF PRESENT.

2

SCALE: 1/8" = 1'-0"



SCALE: 12" = 1'-0"

1