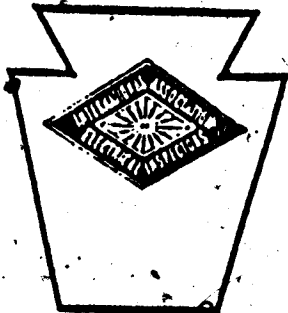


6809 W. O'Bannon

Uplanda 3500D 7/26/89



Southwestern Section
ELECTRICAL DEPT.
CITY OF LAS VEGAS
MAY 12 1989



MICK AMERIS CONST.
BUILDING ADDRESS 10 SANNON ST.
PREPARED BY SPH DATE 3/25/89

NATIONAL ELECTRICAL CODE R SECTION.
Standard Calculation for Determining Size of Service & Feeders for Single Family Dwelling Unit, as per 1984 NATIONAL ELECTRICAL CODE R Article 220 Part 8/Chapter 9 B. Examples

Table 220-2b	LIVING AREA Square Feet 2200 X 3 Volt-Amp per sq. ft. = 6600 VA
220-16a	Two Small Appliance Circuits 2 @ 1500 VA ea. (required) = 3000 VA
220-16a	Laundry Circuits 1 @ 1500 VA ea. (required) = 1500 VA
220-16a	Additional Small Appliance Circuit(s) X 1500 VA = 0 VA
	LIGHTING LOAD SUBTOTAL = 11100 VA

Table 220-11	First 3000 Volt-Amperes of Lighting Load at 100% = 3000 VA
	From 3001 to 120,000 VA @ 35% = 2835 VA
	Remainder over 120,000 VA @ 25% = 0 VA
	LIGHTING LOAD TOTAL 5835 Volt-Amperes ()

Table 220-19	HOUSEHOLD COOKING APPLIANCES
	Cooking Units - Number of Appliances = 6 AS VA
	(Use Table 220-19)
	COOKING UNITS TOTAL Volt-Amperes ()

Table 220-17	APPLIANCE LOADS
	NAMEPLATE
	Microwave 1500 VA X 1 = 1500 VA
	Compactor 1200 VA X 1 = 1200 VA
	Dishwasher 1200 VA X 1 = 1200 VA
	Disposal 600 VA X 1 = 600 VA
	Central Vacuum 1800 VA X 1 = 1800 VA
	Food Center 600 VA X 1 = 600 VA
	Water Heater 4500 VA X 1 = 4500 VA
	VA X = 0 VA
	APPLIANCE SUBTOTAL = 3300 VA
220-17	APPLIANCE TOTAL
	Appliance Subtotal 3300 X 100% = 3300 Volt-Amperes ()
	Less than 4 units 100%
	4 or more units 75%

Table 220-18	Dryer 5000 VA or Nameplate = 5000 Volt-Amperes ()
	(Whichever is greater)

220-1	TOTAL VOLT-AMPERES 14135 + 240 VOLTS = 58.9 Amps
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Table 220-10b	Largest Cooler or Air Conditionery
220-15	1921 KVA + 240 Volts = 42 Amps X 125% = 53.3 Amps
220-21	OR Heating Load KVA + Volts = Amps (Whichever is greater)
430-24	Heat Pump
220-15	Largest Condensing Unit KVA + Volts = Amps X 125%
220-21	Supplementary Heat KVA + Volts = Amps
430-24	Additional
	Condensing Unit or A/Cs KVA + Volts = Amps X 100%
	Largest Motor Amps X 125%
	Total Additional Motors 2.2 Amps X 100%
	TOTAL SERVICE = 114.4

Feeder Size BY N.E.C.O.
Grounding Electrode Conductor 4 CU.
NOTE: KVA = KW (OR) VA = WATTS
USE 200 AMP SERVICE