



BFBP-0011  
Rev. 4/15/08

**City of Henderson**  
**Dept. of Building and Fire Safety**  
 240 Water Street  
 Henderson, NV 89015  
 Phone (702) 267-3600 Fax (702) 267-3601

**RESIDENTIAL ELECTRICAL LOAD CALCULATIONS**

Owner: \_\_\_\_\_ Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Prepared by: \_\_\_\_\_

General Lighting Load Sq.Ft. \_\_\_\_\_ X 3 Volt Amps = \_\_\_\_\_ VA  
 Small Appliance Circuits @ 1500 VA each X \_\_\_\_\_ (min. of two) = \_\_\_\_\_ VA  
 Laundry (Washing Machine) Circuit 1500 VA X \_\_\_\_\_ (min. of one) = \_\_\_\_\_ VA  
**Sub Total** = \_\_\_\_\_ VA

First 3,000 VA of General Lighting Load @ 100% = 3000 VA  
 From 3,001 to 120,000 VA @ 35% ST \_\_\_\_\_ X .35 = \_\_\_\_\_ VA  
 Over 120,00 VA use 25% ST \_\_\_\_\_ X .25 = \_\_\_\_\_ VA

Electrical Cooking Appliances, Use NEC Table 220.19

Number of Appliances _____	Column A	=	_____	VA
Number of Appliances _____	Column B	=	_____	VA
Number of Appliances _____	Column C	=	_____	VA

Dryer Load NEC Table 220.18 = \_\_\_\_\_ VA  
**(1) Sub Total** = \_\_\_\_\_ VA

Heating/Air Conditioning - List type and VA @ 100%  
 (H) Heat Pump (G) Gas + Cool (S) Heat Strip (A) Cir Fans

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
<b>(2) Sub Total</b> =				_____ VA

Fixed Appliances - If fewer than four units use 100%. If four or more use 75% of the nameplate rating

Microwave 1500 VA x _____	Food Center 600 VA x _____	
Compactor 1200 VA x _____	Water Heater 4500 VA x _____	
Dishwasher 1200 VA x _____	Jacuzzi Tub 1850 VA x _____	
Disposal 600 VA x _____	_____ VA x _____	
Cent Vacuum 1500 VA x _____	_____ VA x _____	
Appliance Subtotal: _____ x (100%) or (75%)		<b>(3) Sub Total</b> = _____ VA

Add 25% of the largest motor, usually the A/C compressor  
 \_\_\_\_\_ x 25% LM \_\_\_\_\_ **(4) Sub Total** = \_\_\_\_\_ VA  
 Spare 20 Amps x 240 Volts **(5) Sub Total** = 4800 VA

**GRAND TOTAL (Add Subtotals (1), (2), (3), (4), and (5))** = \_\_\_\_\_ VA

Total Volt Amps \_\_\_\_\_ Divide by 240 Volts = \_\_\_\_\_ Amps  
 Service Size \_\_\_\_\_ Grounding Electrode Conductor \_\_\_\_\_