## CITY OF AVON LAKE BUILDING DEPARTMENT

750 Avon Belden Road, Avon Lake, OH 44012 (440)930-4102 (440)930-4111 FAX

## ELECTRIC LOAD CALCULATIONS - SINGLE & MULTI FAMILY DWELLINGS & ADDITIONS

Electrical Contractor/Owner	Date:
Contractor/Owner Phone Number (	)Approved By:
Job Address and/or Sub Lot	Approved Date:
Existing Home Existing Servi	ce Size Ampacity of New LoadNew Service Required
	Panel change, adding lighting or receptacles
· .	
(1) General Lighting Load (Table	$220-12) _{\text{constant}} \text{ Square foot x 3 va} = _{\text{constant}} \text{ va}$
1/1 Small Appliance Load Lighte	//II. (6) ('irozzita zr. 1 600
(3) Laululy Load (1able 220-10)	Circuits x 1,500 va= va  Circuits x 1,500 va= va  g, Small Appliance and Laundry Room Loads = va
(5) Add Blife 1,2,5 Eighting	First 3,000 va x $35\% = $ va
(6) Subtract 3,000 from Lir	$ne 4 = \underbrace{Remaining \ va \times 35\% = \underbrace{Va}}_{va}$
(7) Add Lines 5 & 6 Total 1	Lighting, Appliance and Laundry Loads =
<ul> <li>(13) Electric Heating Unit (Article 2)</li> <li>(14) Air Conditioning Unit (Article 2)</li> <li>(15) Heat Pump</li> <li>(16) Gas Furnace Motor</li> <li>(17) Other Large Appliances</li> <li>(18) Other Large Appliances</li> <li>(19) Sump Pump</li> <li>(20) Add Lines 8-19 Total La</li> </ul>	X
Convert TOTAL VA to Ampers: TO (22)	
(23) Subtract 200 AMPS from (24) FIRST 200 AMPS	00 Amps from (Line 20) X 100% = 200 Amps Line 20 = X 70% = S PLUS LINE 21 = TOTAL AMPS NEUTRAL CONDUCTOR SIZE SERVICE SIZE
(SIGN)	DATE