RESIDENTIAL CIRCUIT CARD AND LOAD SUMMARY

THIS CARD MUST BE FILLED OUT AND AVAILABLE AT THE SERVICE EQUIPMENT FOR ROUGH INSPECTION.

SUB-PANELS MUST HAVE A SEPARATE COMPLETED CARD.

	Ow	ner Name:							Perm	it No).:					_		
	Pro	pperty Address:	APN No.:								_							
	Со	ntactor:	Area in Sq. Feet:															
	<u>Se</u>	rvice Information	Service Ground / Bond															
	Cor	nduit Size (Above Ground	l / Un	derg	roun	d):			Type of Conductor: CU / AL							_		
	Fee	eder Conductor Size:							Sizes:									
	Тур	e of Conductor:			CL	J /	AL		⇒ UFFER									
	Old	Service Ampacity Size:				10	00	·				-						
	Nev	w Service Ampacity Size:						ı	⇒ Water Pipe Bond							-		
	Am	pere Interrupting Capacit	y (Al	C):				⇒ Gas Pipe Bond										
	Mai	in Lug Only (MLO):			YES	5 /	NO	-										
Contractor Signature: Date:																		
I certify that all terminations have been torque in accordance with manufacturer's instructions and that the work shown on this circuit card represents the full extent of the work performed under this permit.																		
				, UANTI		SIZE	•		SIZE	Ql	JANTI	TY			_			
	⊨	Circuit Descriptions				(ER RES		in volt-amperes atts)	ER RES				Circu	it Descriptions	⊨			
7	CIRCUIT	CEC 408.4	LTG	REC	MISC	BREAKER AMPERES	Phase	Phase	BREAKER AMPERES	MISC	REC	LTG		CEC 408.4	CIRCUIT	بر		
LCL	Ö		그	8	Σ	A A	Α	В	BF	Σ	R	LT			Ö	LCL		
	1														2	<u> </u>		
	3														4			
	5														6			
	7														8			
	9														10			
	11														12			
	13														14			
	15														16			
	17														18			
	19														20			
	21														22	_		
	23														24			
	25														26			
	27														28			
	29														30			
	31														32			
	33														34	<u> </u>		
	35														36			
	37														38			
	39														40			
	41														42			
SUB-TOTAL (Phase A and Phase B): =								Wat	tts									

SINGLE FAMILY DWELLING ELECTRICAL SERVICE LOAD CALCULATION

Minimum Number of Branch Circuits Required. [210.11(A)]

1)	General Lighting Loads						
		Χ	3VA	\Rightarrow	= .		VA
	Minimum 2 Small Appliance 20A Circuits [CEC 220.11(C)(1)]	X	Circuits	\Rightarrow	=		VA
	Laundry Load \Rightarrow 1,500VA Minimum [CEC 220-1(C)(2)]	Χ	Circuits	\Rightarrow	= .		VA
	Net Calcu	lated Lo	ads (General Ligh	ting)	=		VA
	First 3000VA X 100%				=	3,000	VA
	3,001 VA thru 120,000 VA X 35%				=		VA
	Greater then 120,000 VA X 25%				=		
	Net Calculated Load(s): Sub-Tot	al + Firs	t 3000 VA + 35% +	25%	=		
2)	Cooking Equipment Loads (Nameplate Values)						
	Range (CEC Table 220.19) \Rightarrow			\Rightarrow	=		VA
	Cooktop(s) >			· ⇒	=		VA
	Oven(s) \Rightarrow			· ⇒	=		VA
	Net Calculate	ed Loads	s (Cooking Equipn	nent)	=		VA
3)	Electric Dryer (Nameplate value or 5000VA whichever is the greatest.)) [CEC 2:	20.18]				
	Dryer Load (CEC Table 220.54) ⇒			· ⇒	=		VA
	Not Calculated I	l oads: I	ine 1 + Line 2 + Li	no 2	=		VA
4)			ille i + Lille 2 + Li	ile 3	_=_		
4)	Fixed in Place Appliance Loads (Nameplate Value) [CEC 230.30(B3)]						١/٨
	Dishwasher \Rightarrow				= .		VA
	Disposal ⇒				= .		VA
	Compactor \Rightarrow			\rightarrow	= .		VA
	Water Heater ⇒ ·				= .		VA
	Hydro massage Bathtub ⇒			\rightarrow	= _		VA
	Microwave Oven \Rightarrow			\rightarrow	= .		VA
	Built-in Vacuum \Rightarrow			\rightarrow	= .		VA
	Refrigerator, Frostless \Rightarrow			\rightarrow	= .		VA
	<i>⇒</i>			\rightarrow	= .		VA
	<i>></i>			\rightarrow	= .		VA
	<u> </u>			\rightarrow	=		VA
	Net Calc	culated L	oad (Fixed Applia	nce)	=		VA
5)	Net Cal	lculated	Loads: Line 3 + L	ine 4	=		VA
C)	Applying Demand Factors (Line F. Abeyrs) [Table 220, 20]						
0)	Applying Demand Factors (Line 5 Above) [Table 220.30] First 10 000 VA X 100%					40.000	١/٨
	7 10070 =			• ⇒	= .	10,000	VA
	Tromaining Balanoo X 1070 =			· ⇒ .	=		=\ ^{VA}
	Net Calculated Lo		plied Demand Fac	tors)	= .		VA
7)	Heating or AC Unit Loads (Apply the larger of the two.) [CEC Table 22				=		→ VA
			ad (Heating or AC	-	=		VA
8)	Swimming Pool and Fountain Pump Loads ⇒				=		→ VA
	Grand Total (Net Calculated L	•			=		VA
	Actual Ampacity Cal	culated	(Grand Total VA ÷	240)	= [i		AMP
9)	$\label{eq:minimum Service Size [CEC 230.79(C)]} \qquad \Rightarrow \qquad \cdots \cdots$			\Rightarrow	=		AMP

SAMPLE FORM ----- SAMPLE FORM

SINGLE FAMILY DWELLING ELECTRICAL SERVICE LOAD CALCULATION

Minimum Number of Branch Circuits Required. [210.11(A)]

1)	General Lighting Loads											
	Dwelling ⇒ 2,500	sq. ft.	X	3VA_	\Rightarrow	=	7,500	VA				
	Minimum 2 Small Appliance 20A	Circuits [CEC 220.11(C)	(1)] X	2 Circuits	\Rightarrow	=	3,000	VA				
	Laundry Load ⇒ 1,500VA Minimu	ım [CEC 220-1(C)(2)]	X	1_ Circuits	\Rightarrow	=	1,500	VA				
			Net Calculated Lo	oads (General Lig	hting)	=	12,000	VA				
	First 3000VA	X 100	0%			=	3,000	VA				
	3,001 VA thru 120,000 VA	X 35	%			=	3,150	VA				
	Greater then 120,000 VA	X 25	%			=	NA	—				
		Net Calculated Load	s): Sub-Total + Fire	st 3000 VA + 35%	+ 25%	=	6,150					
2)	Cooking Equipment Loads (Name											
	Range (CEC Table 220.19)	⇒			 ⇒	=	8,000	VA				
	Cooktop(s) \Rightarrow				 · ⇒	=	1,700	VA				
	Oven(s) ⇒				··· ⇒	=	1,500	■ ^{VA}				
		N	et Calculated Load	s (Cooking Equip	ment)	=	11,200	VA				
3)	Electric Dryer (Nameplate value or 5000VA whichever is the greatest.) [CEC 220.18]											
	Dryer Load (CEC Table 220.54)	⇒ ·			⇒	=	5,500	VA				
		Net (Calculated Loads:	Line 1 + Line 2 + l	ine 3	=	22,850	VA				
4)	Fixed in Place Appliance Loads (I	Nameplate Value) [CEC	230.30(B3)]									
	Dishwasher ⇒				 · ⇒	=	600	VA				
	Disposal ⇒ ·				 · ⇒	=	800	VA				
	Compactor \Rightarrow				 · ⇒	=	500	VA				
	Water Heater ⇒				 · ⇒	=	3,000	VA				
	Hydro massage Bathtub \Rightarrow				· ⇒	=	80	VA				
	Microwave Oven \Rightarrow				⇒	=	1,200	VA				
	Built-in Vacuum ⇒				· ⇒	=	1,200	VA				
	Refrigerator, Frostless \Rightarrow				 ⇒	=	1,200	VA				
	⇒ ·				⇒	=		VA				
	⇒ ·				⇒	=		VA				
	→				⇒	=		VA				
			Net Calculated	Load (Fixed Appl	iance)	=	8,580	VA				
5)			Net Calculated	Loads: Line 3 +	Line 4	=	31,430	VA				
6)	Applying Demand Factors (Line 5	Above) [Table 220.30]										
-,	First 10,000 VA X 100				⇒	=	10,000	VA				
	Remaining Balance X 40%				⇒	=	8,572	VA				
	·	Net Ca	lculated Load (App	oplied Demand Fa	ctors)	=	18,572	= VA				
7)	Heating or AC Unit Loads (Apply				•	=	6,000	VA				
	· · · · · ·	, ,	Net Calculated Lo	ad (Heating or AC	C Unit)	=	24,572	VA				
8)	Swimming Pool and Fountain Pur	mp Loads \Rightarrow			⇒	=	102	VA				
		Grand Total (Net 0	Calculated Loads):	Line 7 + Line 8 +	Line 9	=	24,674	VA				
		Actual A	mpacity Calculated	(Grand Total VA	÷ 240)	=	103	AMF				
9)	Minimum Service Size [CEC 230.	79(C)] ⇒			 ⇒	=	125	AMF				

Panel Sizes