Building and Safety
1685 Main Street
PO Box 2200
Santa Monica, California 90407-2200

City of
Santa Monica

ELECTRICAL PLAN CHECK

Plan review guidelines for electrical services 400 amp or larger and all Multi Meter electrical services regardless of size for new construction and existing change outs

1. Provide single line diagram – show main electrical service, transformers, sub panels, service entrance riser location or specify underground feed

2. City of Santa Monica requires underground utilities for new construction or remodels exceeding 50 %

3. Show all conduit and conductor types and sizes

4. Provide ground electrode detail—show ground electrode conductor size per 2004 C.E.C. table 250-66 also specify electrode type uffergound , ground rod , building steel. Show connection to cold water piping system and bonding of gas piping system.

5. Electrical systems extending to a separate detached structure will require additional ground electrode and connection to cold water piping system at that location

6. Provide electrical load calculation worksheet – see attatched sheet

7. Show main and sub main over current protection device sizes

8. Show A.I.C. bracing for electrical service equipment, when series combination over current devices are used provide manufacture listing

9. Obtain meter location approval, available fault current and for new installations SCE -'B' drawing or letter of preliminary design approval from SCE service planner [310] 315-3215

10. Provide plot plan—show all structures and location of main electrical service panel, subpanels, and subfeeds

11. Main electric service to be located on exterior of the building or nearest the point of entrance into the building, Article 230-70a. Unfused service entrance conductors / conduits extending into the building are not approved unless encased in minimum 2 inches of concrete

12. Comply with all the requirements of the 2004 California Electric Code

tel: 310 458-8355

New Residence, Optional Calculation Method

New Residence, _____ Square Feet

General Lighting Load Section 220-3(b)	_____ Sq Ft x 3 Watts/Sq Foot	=	_____ Watts
Small Appliance Br Ckts Section 220-16(c)	_____ Circuits x 1500 Watts	=	_____ Watts
Laundry Circuit Section 220-16(b)	_____ Circuits x 1500 Watts	=	_____ Watts

Appliance Load

Electric Range	=	_____ Watts
Dryer	=	_____ Watts
Garbage Disposal	=	_____ Watts
Dishwasher	=	_____ Watts
Trash Compactor	=	_____ Watts
Range Hood	=	_____ Watts
Microwave	=	_____ Watts
Water Heater	=	_____ Watts
Bathroom Fans	=	_____ Watts
Forced Air Units	=	_____ Watts
Other Loads	=	_____ Watts

Total Load	=	_____ Watts
First 10,000 Watts @ 100% Section 220-30(b)	=	10,000 Watts
Remainder @ 40%		
Total Load _____ Watts - 10,000 Watts = _____ Watts x 40%	=	_____ Watts
Largest of Air Conditioning Unit or Heating Unit	=	_____ Watts
TOTAL	=	_____ Watts
@120/240V, 1φ, 3W Total Watts _____ ÷ 240V	=	_____ Amperes

- Main Disconnect Rating = _____ Amps
- Panel Ampere Rating = _____ Amps
- Service Entrance Conductor Size = _____ Amps

Number of 15A. General Lighting Circuits:

Number of 20A. General Lighting Circuits:

City of
Santa Monica®

BUILDING AND SAFETY DIVISION
1685 MAIN STREET
SANTA MONICA, CA 90401
310-458-8355

SITE PLAN

Please provide a site plan below, showing location
and scope of proposed work with respect to property lines.
The site plan shall indicate all easements and existing and proposed structures
Submission of a Site Plan is required prior to issuance of a permit.

Job Address:	Unit Number:	Zip Code:	Permit #:

For Building Safety Staff Approval	
Signature of Plan Check Engineer:	Date Approved

THANK YOU FOR HELPING US CREATE A BETTER COMMUNITY