

**Plan for Lighting and Receptacle Outlets.** Layout and wiring for general lighting and receptacle outlets on floor plans drawn shall show:

- a. Location, type and rating of lighting fixtures, indicating illumination in lux in each room or area. In residences, hotels, apartment houses, and churches, the illumination level in each room or area shall not be shown nor computed;
- b. Location of switches for each fixture or group of fixtures;
- c. Location of receptacle outlets and appliances to be served and ratings;
- d. Complete circuits of the lighting and receptacle outlets;
- e. Complete wiring of emergency lighting system, if any;
- f. A separate drawing showing layout of receptacle outlets may be made at the discretion of the design engineer.

**Plan for Fire Alarm Circuits.** Layout and wiring plans of fire alarm, fire alarm bell, fire alarm control panel, and other shall be drawn to scale and show:

Location of outlets, equipment and/or apparatus and controls, Complete circuit showing no. and size of raceway and wire;

**Schedule of Loads.** Schedule of load in tabulated form shall

**Motor Loads;**

Motors as numbered or identified in power layout

Type of motor

Horsepower/kilowatt/kilovolt ampere rating

Voltage rating

Full-load current rating

Frequency rating other than 60 hertz

Number of phases

Type and size of wiring

Protective device rating

**Lighting and Receptacle Loads;**

Panel as numbered in the feeder diagram

Circuit designation number

- c. Number of lighting outlets in each circuit
- d. Number of switches in each circuit
- e. Number of receptacle outlets (convenience outlets)
- f. Voltage of circuit
- g. Type and size of wiring,
- h. Protective device rating,

**(3) Other Loads.**

- a. Designation number of plan
- b. Description of load
- c. Classification of service duty, if required
- d. Rating of kilovolt-ampere or kilowatt
- e. Phase loading indicating full load line current
- f. Voltage rating
- g. Type and size of wiring
- h. Protective device rating

Design analysis shall be included on the drawings or shall be submitted on separate sheets of standard size, and shall show:

(1) Branch circuits, sub-feeders, feeders, busways, and service entrance;

(2) Types, ratings, and trip settings of overload protective devices;

(3) [REDACTED] for determining the [REDACTED] of [REDACTED]

(4) [REDACTED] of voltage drop

(g) One Line Diagram. One line diagram shall indicate:

**(1) Lighting and Receptacle Outlet Loads;**

- a. Single line or schematic diagram of lighting and receptacles panelboards showing mains and branch circuit rating,
- b. Size of conductors for feeders