

## Electrical Plan Check Requirements

### Minimum Plan Check Requirements

Project Location: \_\_\_\_\_ Date: \_\_\_\_\_

Permit #: \_\_\_\_\_ Application Type: \_\_\_\_\_

1. Provide two (2) complete sets of Electrical Plans (include scale)
2. Provide Single Line Drawings
3. Provide Load Calculations
4. Provide Title 24 Energy Documents

#### **Electrical Plans** shall include:

- Electrical site plan and Photometric plan
- Light Fixture Schedule, include description type and fixture loads
- Lighting layout, switching and circuitry identification
- Receptacle equipment layout and circuitry
- Equipment schedule
- HVAC equipment location, supply voltage and demand, their disconnects and circuitry
- Misc. Electrical equipment and circuitry
- Location of SMUD transformer, service equipment, panels, controllers, etc.

#### **Single Line Drawing Plans** shall include:

- Main service size
- Size of service entrance conduit and conductors (include type)
- Size of any wireways or busways
- Size and type of all overcurrent protective devices
- Feeders, include size and type of conduit and conductors
- AIC ratings (service, panel boards, etc).
- All ground conductor sizes: UFER ground, supplemental ground, water and gas bonding
- Transformers, their size & type: transformer grounds

#### **Load Calculations:**

- Complete NEC calculations based on sq. ft. and with actual loads, include 125% for continuous loads and add 25% of largest motor
- Complete Panel Schedules:
  1. Voltage & ampere ratings
  2. Phase and wire no. (3 or 4 wire)
  3. Breaker or fuse sizes
  4. Main Circuit Breaker (M.C.B.) or Main Lugs Only (M.L.O.)
  5. AIC rating (service, panel boards, etc.)
  6. Loads of each circuit
  7. Panel total load

Provide Title 24 Energy Documents

**Note: All new services require a commitment letter from SMUD or upgraded**