

PIKES PEAK REGIONAL BUILDING DEPARTMENT

ELECTRICAL PLAN REVIEW REQUIREMENTS

ALL PLANS REQUIRE:

- Compliance with currently adopted NEC and IECC
- Colorado professional engineer stamp and signature per RBC 106.1.3
- Scale and format per RBC106.1.1 (1/8" = 1'-0" minimum scale/ 1/8" minimum lettering)
- Grid lines and column lines coinciding with architectural pages
- Accessibility requirements must be met
- IECC calculations
- Complete one-line diagram (see below)
- Complete panel schedules (see below)
- Complete floor plan (see below)

ONE-LINE DIAGRAM

- Conduit/wire size, type and quantity beginning at the utility transformer to include all conductors in the chain of supply for the electrical equipment in the scope of work
- Clearly noted new and existing meters, disconnects and panels
- Fault current calculations for all new service equipment and sub panels to include re-fed existing gear
- Over current protection showing compliance with NEC 215.10, 230.95 and 517.17
- Method of compliance with NEC 240.87
- Calculated load of service (service load summary)
- Multi-meter services must include addressing on the meters

PANEL SCHEDULES

- All information must be supplied and verified by engineer at time of plan submittal
- Disconnect and panel size
- Volt amps on all branch circuits and calculated load of panel
- Panelboard AIC rating and SCA available (for new, relocated and re-fed panels)
- Series rating information (AIC of the lowest rated OCPD must be specified) see 240.86(C) NEC

FLOOR PLANS

- Footprint (site plan) showing all electrical service equipment and disconnects serving the structure
- Location of all electrical equipment
- Panel and circuit number on all electrical equipment (new and relocated)
- Elevator pit and machine room details showing all required circuits and disconnects (devices required to be 3R and installed above 30")
- Patient care areas must show compliance with 517.13 NEC
- Light fixture schedule including fixture type and lamp wattage
- Accessible units must be clearly identified.