Plan Submittal Checklist for Residential Photovoltaic

- **Plans required for submittal:** Submit a minimum of 2 sets of signed plans for Residential, and 5 sets of signed plans for commercial installs.

- **Signed contract between Contractor and owner required at submittal.** (Digital/Electronic signature is not acceptable.)

- **Site Plan:** A site plan to a scale showing the property, location of dwelling, side yards, north arrow, location of the panels on the roof or within the yard, total number of panels, location of electrical service, junctions boxes, system disconnect and inverter, type and size of roof framing members (wood rafters or trusses) and roofing material (composition, shake, shingle or tile).

- **Single Line Electrical Diagram:** The single line diagram shall include the following:
  - Array configuration
  - Array wiring
  - Combiner junction box
  - Conductor sizes
  - Conduit sizes
  - Grounding conductor and equipment grounding specifications
  - Inverter type and model number specified
  - Location of equipment disconnect identified
  - Size of electrical panel and or sub-panels
  - Point of connection attachment method identified

- **PV Module, Inverter Specifications:** Specifications specifying the type of panels, weight, total voltage output, bonding requirements and recommended conductor and grounding sizes. Specifications for the type and size of inverter, and equipment disconnect.

- **Equipment Mounting Specifications:** Equipment specifications showing the various mounting details for both the panels and inverter with the specific mounting arrangement identified which is based upon the type of roof framing and roof covering. The mounting diagram shall specify that the panel shall provide sufficient space to allow for the removal of debris and allow for water drainage.

- **Signage Requirements:** All PV equipment shall be properly signed in accordance with the installation instructions and applicable 2019 CEC requirements. Provide details of the various safety signage specified by the manufacturer and 2019 CEC.

- **Designer Signatures:** All PV plan review submittals for a building permit shall bear the signature of the design electrical engineer or electrical contractor for the design of the PV system; include verification from a California licensed engineer, architect or general contractor that the existing roof framing is structurally adequate to carry the intended additional loading.