



CITY OF LAS CRUCES

## Expedited Permitting for Residential Photovoltaic Systems

Photovoltaic permits will be issued **over the counter** for systems **10Kw or less** as long as **All** the following requirements are addressed, and necessary information submitted at time of permit application.

### PLEASE COMPLETE THE FOLLOWING CHECKLIST

All PV components:

1. Listed (Modules, Rails, Combiners, Inverters & Grounding parts) Include Specification Sheets & Instructions

Roof Mount Systems

1. Meet 115 MPH wind design Criteria.
2. Attachment locations for rail to roof and rails to panel.
3. Structural analysis must be performed by a professional engineer licensed in New Mexico to determine if the roof structure can support the added loads of a solar PV electric system when any of the following occur.
  - (a) The total added dead load of the array is greater than five pounds per square foot on the roof.
  - (b) The total added point load of the array is greater than 45 pounds on the roof.
  - (c) The total added dead load exceeds 200 pounds on a single truss, rafter or roof joist.
  - (d) The mounting of the system is of a unique roof mounted design.
  - (e) The roof structure contains over-spanned trusses, rafters, or roof joists.
  - (f) The Structure(s) where support is questionable.

Ground Mount System

1. Meets 115 MPH Wind Design Criteria.
2. Engineer Stamped Plan Using Listed Parts.

Site Plan

1. Diagram Showing Location of All Elements of the System and Relation to Lot Lines & Structures.
2. located in a Historic or Overlay Zone (Requires Zoning Review by Planning Staff).

Electrical

1. Load Calculation Showing Existing Service is Safe & Sufficient (Separate Permit is Required for Service Upgrade).
2. Designed to Las Cruces Temperatures (High 100 F & Low 10 F.
3. Utility Interactive
4. No Storage Capacity or Batteries in the System.
5. System is Load Side Connected
6. One-line Diagram Showing:
  - A. Maximum Kw Rating of the System.
  - B. Maximum System & String Voltage & Amperage.
  - C. Number of PV Panels in Parallel & in Series.
  - D. Type (AC or DC), Voltage, Amperage & Location of all Overcurrent Protection Devices & Disconnects.
  - E. All Wire Sizes Including Equipment Grounding and Grounding Electrode Conductors.

Plan submittal shall consist of the following information and labeled as such:

Site plan,

Load calculation,

One-line diagram,

Mounting system, Ballast report if applicable,

Submittals for panels, inverters, rack system, combiner, grounding/bonding components, other components based on design of system.

Energy Storage Systems are not part of the permit but must be shown if being installed on the one-line and requires a separate permit.

Residential PV systems that meet all the above criteria will be issued over the counter. Other PV permits will require plan review (that will be completed in a time frame consistent with normal plan review policy).

**ALL COMMERCIAL PV SYSTEM SUBMITTALS WILL REQUIRE PLAN REVIEW – NOTIFY PERMIT TECHNICIANS WHEN SUBMITTING APPLICATION.**

Revised 4-12-2023.

Contractor Signature \_\_\_\_\_ Date \_\_\_\_\_