



RESIDENTIAL SOLAR ENERGY SYSTEMS ePLANS CHECKLIST Version 2023-09-01

PROJECT NAME \_\_\_\_\_

Staff Use Only BLD \_\_\_\_\_ - \_\_\_\_\_

Lead Designer Certification

All members of the Design Team have reviewed the Quality Control Checklist, and I have accurately completed the Checklist on behalf of the Design Team to the best of my knowledge.

Name/Signature: \_\_\_\_\_ Date: \_\_\_\_\_

By checking this box, I agree to digitally signing this form.

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Other Contacts: To ensure the customer's project team (i.e., contractor; homeowner) receives automated email notices, please complete and submit the Contact Information Form.

This Checklist provides the minimum essential building code information required on plans prior to submission of the Building Permit Application. Providing all the information listed will support positive communication between the designers and plan reviewers, which will expedite the overall review process.

Please see Policy: Solar Energy Systems and the Solar Energy Systems Plan Submission and Inspections Guidelines for additional information.

GENERAL REQUIREMENTS

- Provide the full name and complete address of the proposed project.
Completed Building Permit Application
Pay the Filing Fee at the time of submission of the Building Permit Application. Refer to the approved Building Development Fee Schedule for the Building Permit Fee Calculation.
Submit electronic plans for Building Development Review. Please see below requirements and the Customer ePlans Guide
For ground mounted systems a Certificate of Zoning Approval shall accompany the application.

SUBMISSION REQUIREMENTS:

- File names meet the File Naming Convention found in the Customer ePlans Guide
Plans and other required documents meet the credentialing requirements in the Customer ePlans Guide
Plan set including all trades is in a single PDF file.
Files are not locked or password protected.
PDF files do not contain layers or comments.
Plan sheets are bookmarked which include the sheet number and page title.
Plan set is landscape and pages are aligned.
An open 3-inch by 3-inch space for the County Reviewed stamp is provided in the same location on each sheet.
Plans are monochrome, not in color.



**RESIDENTIAL & STRUCTURAL**

Sheet. #	Requirement
	1. For rooftop mounted systems submit structural calculations or the <a href="#">Solar Energy Systems - Roof Mounted Solar Panels Structural</a> form to show the roof is adequate for the loads from the system.
	2. For rooftop mounted systems submit structural calculations and/or a research report by a nationally recognized testing laboratory (NRTL) for the mounting system.
	3. The design uses a ground snow load of 30 psf per <a href="#">Policy: Climatic and Geographic Design Criteria</a> and ultimate wind speed of 105 mph.
	4. Access pathways are provided <ul style="list-style-type: none"> <li>• Two 36-inch pathways shall be provided on separate roof planes from the eave to the ridge.</li> <li>• One 36-inch pathway shall be located on the street or driveway side of the roof.</li> <li>• One 36-inch pathway shall be located on each roof plane with a photovoltaic array or an adjacent roof plane.</li> <li>• A 36-inch wide pathway shall be provided to emergency escape and rescue openings.</li> </ul>
	5. For rooftop mounted systems submit a roof plan showing location of panels with details for mounting system including connections to roof framing.
	6. Setbacks are provided. Not less than an 18-inch (457 mm) clear setback is required on both sides of a horizontal ridge
	7. Manufacturer documentation showing photovoltaic panels and modules are listed in accordance with UL 1703 and inverters are listed in accordance with UL 1741.
	8. Manufacturer documentation showing panels and modules have fire classification in accordance with UL 1703, UL 2703, UL 61730-1, and or UL 61730-2
	9. For ground mounted systems submit structural calculations and/or a research report by a nationally recognized testing laboratory for the mounting system and foundation.
	10. For ground mounted systems submit structural calculations and/or a research report by a nationally recognized testing laboratory for the foundation.
	11. For ground mounted systems submit plan showing location of panels, details for mounting system, connection to foundation, and foundation plans and details.



**ELECTRICAL**

Sheet #	Requirement
	1. Choose the County Electrical Typical Plan if applicable. Keep in mind it must accurately represent the Solar System installation. <ul style="list-style-type: none"> <li>- <a href="#">Solar Energy Systems – Small, Single Inverter System Plans Supply Side</a></li> <li>- <a href="#">Solar Energy Systems – Small, Micro Inverter/AC System Plans Supply Side</a></li> <li>- <a href="#">Solar Energy Systems – Small, Single Inverter System Plans Load Side</a></li> <li>- <a href="#">Solar Energy Systems – Small, Micro Inverter/AC System Plans Load Side</a></li> </ul>
	2. If typical does not apply, provide Electrical drawings as a part of the whole Solar submission in accordance with the ePlan guide, see link: <a href="#">Customer ePlans Guide</a>
	3. Electrical Plan should be sized per the <a href="#">Customer ePlans Guide</a> .
	4. Electrical One line and calculation pages sealed by an RDP or signed by a Master Tradesman with all necessary Licensing information included. See page 2, <a href="#">Policy: Solar Energy Systems</a>
	5. Plan must detail all components of the system, including manufacturers specifications.
	6. Drawing should accurately label components, conductor sizes, wiring methods, OCPD, required disconnects.
	7. Accurately provide details for the final connection to a back-fed breaker or Supply side service tap, with properly sized conductors, in accordance with the latest edition of NFPA 70 (NEC) Chapter 690 and as applicable Chapter 705.
	8. If an Energy Storage Systems (ESS) is installed as a component of the part of the Solar system, ensure compliance with Article 706
	9. If additional Energy storage systems or an existing system is modified or merged with the Solar system, all must be accurately represented on the Solar drawing submission.
	10. Detailed calculations for the DC and AC KW must be provided on the plan per Article 690.
	11. A Reference drawing should show required signage per Article 690.