



PLAIN CITY CORPORATION
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PLAIN CITY, UTAH 84404
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Building Department

RESIDENTIAL SOLAR PHOTOVOLTAIC (PV) SYSTEM PLAN SUBMITTAL REQUIREMENTS

General Contractor/Owner: _____ Address: _____

Lot # _____ Subdivision: _____

SOLAR PLAN SUBMITTAL LIST - The following list of items is required for residential solar photovoltaic (PV) permit plan submittal. The Planning Department or the Plans Examiner may require additional information to complete their review. Building plans submitted without each item on this list are subject to longer review periods. **Please review each item and sign the bottom of the page indicating its completion.**

1. **BUILDING PERMIT APPLICATION:** Property address, lot number and subdivision name. Contractor name, phone number, address and Utah State contractor=s license number or Owner=s name if project to be contracted by owner. Owners name, phone number and address. Valuation of project (*cost of materials and labor*).
2. **SITE PLAN:** A detailed site plan showing the location of the home, electrical meter panel, any backfed sub-panelboards, and all PV system components on the property is required.
3. **MOUNTING SYSTEM:** Provide detailed information on the module mounting system and also the weight of all components on the roof. The support manufacture specs must also specify the required support spacing based on the local wind and snow loads. Note if the home roof rafters are engineered trusses or provide information on the type and size of the roof rafters. Also note the type of the roof covering (shingles, metal, or tile) and how many layers of the roof covering there are. If the racking system has integrated grounding/bonding, please also provide spec sheets showing such.
4. **ONE-LINE DIAGRAM:** A detailed one-line diagram is required and must show: the type of PV system being installed (a single inverter system with one or more strings of modules connected in series, a micro inverter system or an AC module system), the exact number and layout of modules and how they are connected together (in series or in parallel), all wire types, all wire sizes, conduit types and sizes, detailed info on the grounding wiring and connections, the locations of all circuits and system components on or in the house, and the ratings of all fuses or breakers.
5. **ELECTRICAL PANEL TO BE BACKFED:** Note which home electrical panel the PV system will backfeed and give the location and rating of that panel. Please provide pictures of the service panel with a picture of its interior label also. Please also provide photos of labels of any sub-panel that will be backfed.
6. **MODULE SPEC SHEETS:** Provide the PV module (solar panels) spec sheets showing the modules, STC rated watts (Pmp), volts (Vmp), amps (Imp), open circuit voltage (Voc), and short circuit current (Isc). Modules must be listed UL 1703.
7. **INVERTER SPEC SHEETS:** Provide the inverter manufacture spec sheets showing the amount of watts and volts the inverter can safely handle, and also noting what the inverter=s max rated AC output amps and voltage is. Utility tied inverters must be listed as Autility interactive@ meeting UL 1741, and have ground fault protection.
8. **TOTAL ARRAY POWER:** (This is not required for systems with micro inverters) Provide the total amount of watts, amps, volts, open circuit voltage (Voc at the coldest possible outside temperature - see NEC 690.7), and short circuit current that the array can produce.
9. **SYSTEM COMPONENTS:** Provide information on the different types of components that will be used in the system and how they are to be installed. Also show that all equipment is listed and rated for the type of voltage (AC or DC), amount of voltage, and the amount of current that it could be subjected to.

I hereby acknowledge that I have reviewed the above list and have included each required item with my plan submittal

Signature: _____
Company: _____

Printed Name: _____
Phone: _____

Date: _____