

Minimum content requirements for plan submittals are as follows:

Please include:

(PV array, combiner/junction boxes, disconnects, inverters, meter and service panel/tie in locations, show general foot print of structure and relation to property lines, show a roof plan with location and physical size of all PV panels, b-vents, attic vents, and plumbing vents.

Site Plan that locates all Equipment on Drawing

Manufacturer's specification sheets (cut sheets) with their UL listing information, for the PV panels, connection boxes, and the PV inverter(s)

Complete 3-line Electrical Diagram:

Electrical specifications shall indicate

- System Size (DC-STC "Nameplate" Rating)
- Module manufacturer and model number;
- Module specs (@STC) including VOC, VMP, ISC, and IMP;
- Array specs (@STC) show max VOC (w/temp corrections), VMP, ISC, and IMP;
- Number of strings;
- String fuse rating (if appropriate)
- Current carrying conductors show size and type (i.e. use-2);
- Grounding (equip grounding conductor) indicate size and type;
- Over current protection/disconnects with voltage rating, current rating, and indicate if "integrated" in inverter;
- Inverter, note manufacturer, model number, rated AC output (wattage), AC voltage, and max AC current:
- Grid interconnection location shall show AC load panel with back-feed breaker rating (voltage and amperage), panel rating (bus-bar rating and main breaker rating), and line / load side tap.

Mounting /Racking System details: shall include manufacturer's spec sheets with roof calcs to have 115mph wind speed, exposure category C, and 30 psf roof snow load per attachment details type, size and spacing of fasteners, and/or a racking system that load spans three or more trusses/rafters or an Arizona stamped engineer's verification letter: if a custom racking system fails to span three or more trusses/rafters, showing trusses/rafters ability to support additional loads, as required.

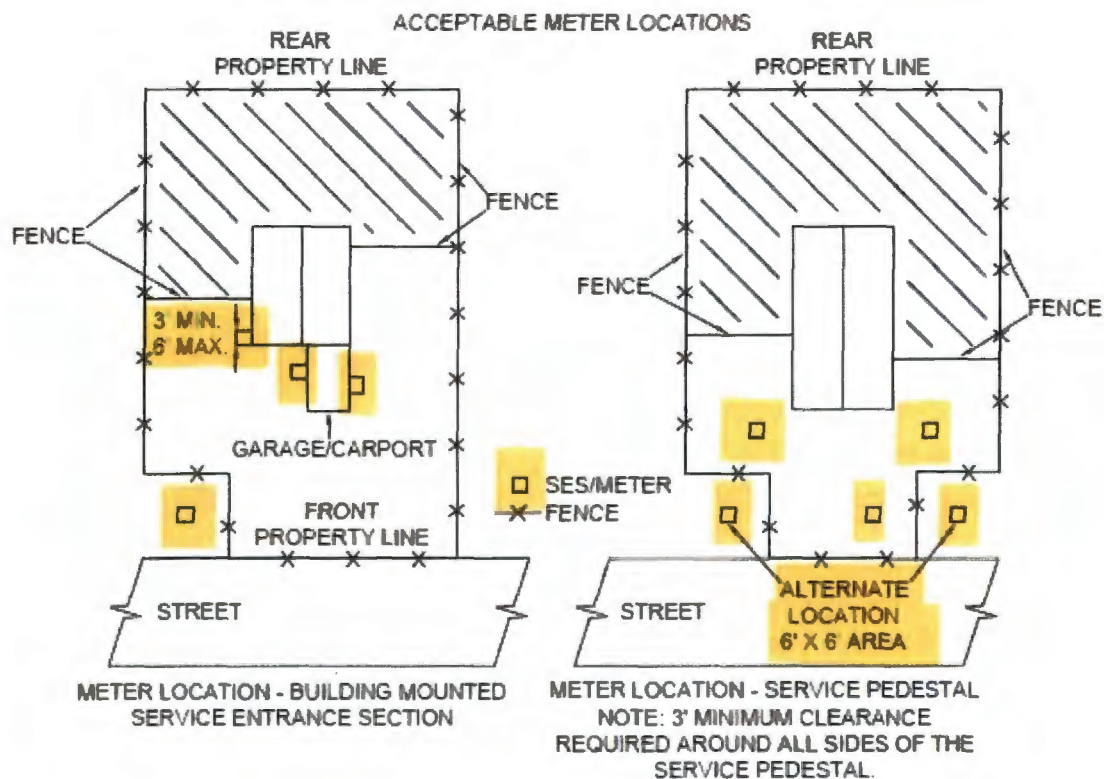
Structural Information: Size, type and spacing of roof framing members, type and thickness of roof sheathing, number of layers roofing materials, railing systems load bearing points, and indicate whether the array is flush or tilt mounted. Specify method of locating framing members. Additional information or engineering may be required for unique situations. 115mph wind speed, exposure category C, and 30 psf roof snow load per IRC R324.4.1/R324.4.1.1

Any photovoltaic system 12KwDC or larger must be stamped by an engineer.

301.3-2 RESIDENTIAL SERVICE - SINGLE DWELLING METER LOCATIONS

APS RESERVES THE RIGHT TO DETERMINE ALL METER AND SERVICE LOCATIONS.

1. THE METER AND MAIN SWITCH SHALL BE ACCESSIBLE FOR READING AND MAINTENANCE WITHOUT PASSING THROUGH RESTRICTED AREAS, GATES, OR FENCES.
2. ALL METER AND MAIN SWITCHES SHALL BE LOCATED THREE FEET MINIMUM TO SIX FEET MAXIMUM ON THE FRONT CORNER OF A RESIDENCE, NEAREST TO THE POINT OF AVAILABLE SERVICE, AS DETERMINED BY APS ON AN EXTERIOR WALL OR ALTERNATE LOCATION (SUBJECT TO LOCAL INSPECTION AUTHORITY), BUT NOT UNDER A CARPORT, BREEZEWAY, PATIO, PORCH, OR OTHER AREA THAT CAN BE ENCLOSED WITH BUILDING EXPANSION OR FENCE.
3. THE ELECTRIC METER AND MAIN SWITCH "MAY BE" INSTALLED AT AN ALTERNATE LOCATION NOT ATTACHED TO A DWELLING TO ENSURE ACCESSIBILITY. (SUBJECT TO LOCAL INSPECTION AUTHORITY APPROVAL)
4. IF OVERHEAD SERVICE IS AVAILABLE IN THE REAR OF THE PROPERTY (ALLEY OR EASEMENT) THE POINT OF ATTACHMENT MAY BE ON THE REAR OF THE RESIDENCE. THE METER & MAIN DISCONNECT SHALL BE LOCATED PER ITEMS #1 & #2 ABOVE. IT IS THE CUSTOMER'S RESPONSIBILITY TO INSTALL CONDUIT AND WIRING BETWEEN THE BUILDING IN ITS ENTIRETY.
5. WHEN REMODELING EXISTING RESIDENCES, CHECK WITH LOCAL APS OFFICE.
6. SERVICE ENTRANCE EQUIPMENT SHALL BE UTILIZED FOR ITS INTENDED PURPOSE.



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