

CITY OF ORLAND

BUILDING DEPARTMENT

815 Fourth Street
Orland, CA 95963
Telephone (530) 865-1606
Fax (530) 865-1632

orlandbuilding@cityoforland.com



Roof-mount Photo Voltaic Submittal Requirements for the City of Orland

1. Completed building permit application. Project description shall include size of the system in kilowatts.
2. Site plan showing number of solar modules. Site plan shall also show building roof layout, roof sections, and ridge and eave and valley fire setbacks. (See attached sample submittal)
3. Roof plan showing existing roof covering. (Example: comp shingle, flat tile, Spanish tile, metal, etc.)
4. Mounting, racking and flashing details for how the system will be mounted onto the roof. Include manufacturers installation instructions for all mounting, racking and flashing systems.
5. Wet stamped structural analysis report showing the roof mount PV system complies with wind loads.
6. Bonding details including manufacturers installation instructions and details for the type of bonding clamps to be used.
7. If the existing structural roof framing is rafters, the submitter shall provide size of members, species, span and on center spacing of all rafters which will be subject to the added dead load of the new roof mount PV system.
8. Provide a string diagram showing all arrays and how they are wired together. (See attached example of a string diagram)
9. Provide a line diagram of the proposed PV system which clearly shows:
 - Module type and model
 - Inverter type and model
 - Size of the system in kilowatts
 - Size of strings and numbers of arrays
 - Wiring size and method including ground wire AWG
 - Conduit type and size
 - Junction box locations
 - Subpanel ratings and locations
 - All overcurrent protection device ratings and locations
 - Locations and types of all disconnecting means
 - Location and type of system grounding electrode
 - Ampacity rating of the existing main electrical panel
 - Ampacity rating of the main service disconnect
10. Warning label sheet which shows exact verbiage and locations of all required warning label stickers.
11. Manufacturers technical data sheets for the PV modules and the inverter(s).