



# CITY OF KYLE

100 W. Center • Kyle, Texas 78640 • (512) 262-1010

## RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEMS

Permit Plan Submittal & Code Requirements

Please include this checklist with the documents attached to your permit application.

Applicable Building Codes:

**IRC 2021** International Residential Code / **IRC 2021** International Residential Code section 324 "Solar Energy Systems"

**NEC 2020** National Electrical Code Article 690 "Solar Photovoltaic Systems"

**ICC 600 2021** ICC Standard for Residential Construction in High-Wind Regions

**WFCM 2021** Wood Frame Construction Manual for One and Two Family Dwellings

\_\_\_ Electrical Plans with the following shall be included:

- a. \_\_\_ Location of main service or utility disconnect [NEC 80.21(Annex H)];
- b. \_\_\_ Total number of modules, number of modules per string and the total number of strings [NEC 80.21
- c. \_\_\_ Make and model of inverter(s) and/or combiner box if used [NEC 690.4(B)];
- d. \_\_\_ One-line diagram of system [NEC 215.5];
- e. \_\_\_ Specify grounding/bonding, conductor type and size, conduit type and size and number of conductors in each section of conduit [NEC 80.21 (Annex H)];
- f. \_\_\_ If batteries are to be installed include them in the diagram and show their locations and venting;
- g. \_\_\_ Equipment cut sheets including inverters, modules, AC and DC disconnects and combiners[NEC 80.21 (Annex H)];
- h. \_\_\_ Labeling of equipment as required by NEC Sections 690 and 705[NEC 110.3(B)];
- j. \_\_\_ Site diagram showing the arrangement of panels on the roof or ground, north arrow, lot dimensions, and the distance from property lines to adjacent buildings/structures (existing and proposed) NEC 80.21
- K. \_\_\_ system shall conform to 2020 NEC 690.56(B)