

RESIDENTIAL ELECTRICAL SERVICE

STANDARDS

Residential electrical service that exceed 600 amperes in capacity or provides greater than 240 volts to ground must be designed by a Florida registered engineer. (Florida Statute 471.003)

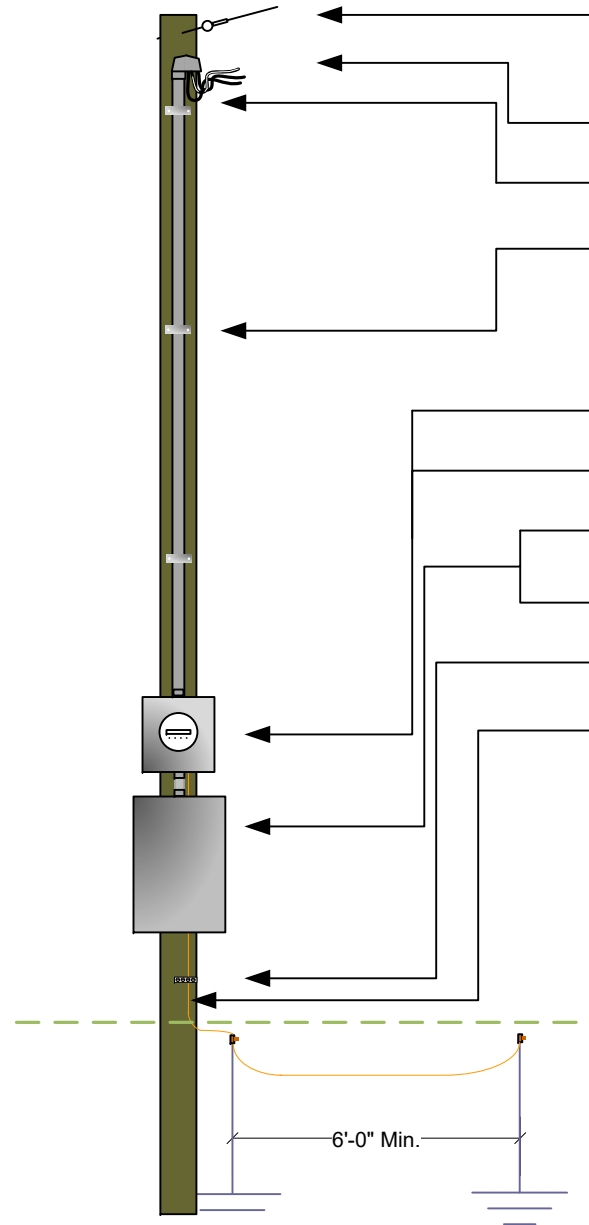
Interactive solar systems installed in conjunction with or added to residential electrical service must be designed by a Florida registered Engineer and must be installed by an Florida registered Solar or Electrical Contractor.

Conductor properties are based on current edition of the National Electrical Code Table 310.15(B)(16))
Conductors must be sized using 75 degree Celsius table.

Residential 120/240 volt single phase 100 ampere through 400 ampere service feeders may be installed using the allowed 83% reduction of the feeder rating.

All electric services developed in "AE" special flood hazard must be installed 1' above Base Flood Elevation or higher. Elevation certificate is required.

All electric services developed in "A" special flood hazard must be installed 3' above highest adjacent grade, or higher.



Service drop must meet power company requirements.
Clay Electric: 1-800-224-4917
F.P.L.: 1-800-226-6543

Weather Head (6 inches Min. from top of pole)

Drip Loop minimum 10 ft. from grade for pedestrian areas, see Florida Building Code, Residential section 3604.2.2 for specific details.

Service Riser must be secured in place. Straps must be placed within 3 ft. max. of the meter can and weather head. Straps must be evenly spaced not exceeding 4 ft.

Electrical Service must be constructed in compliance with National Electrical Code or Florida Building Code, Residential chapter 36.

Meter Cabinet placed 5 1/2 ft. – 6 ft. above adjacent grade.

Main Panel

Main Disconnect

Intersystem Bond

Grounding electrode conductors

Protective conduit required for grounding electrode conductors smaller than #4 AWG. Copper.

Service support (Pole) must be constructed to power company specifications.
Clay Electric: 1-800-224-4917
F.P.L.: 1-800-226-6543

Circuits buried on property must be installed 24" below grade or located in electrical rated conduit installed 18" below grade. In all cases where conductors pass under a driving surface, conductors must be installed a minimum of 24" deep from grade.

Grounding grid must comply with National Electrical Code and must contain 2 grounding electrodes spaced a minimum of 6 ft. apart where additional grounding electrode systems are not present.

Underground service lateral to be constructed to power company specifications.
Clay Electric: 1-800-224-4917
F.P.L.: 1-800-226-6543

Service drop may not be installed above roofs of existing buildings without special permission from both the Building Department and the serving utility.

Service arrangement depicted is diagrammatic only.

Last edited 11/2019

SCALE
1/4" = 1'