

Initial Application Date: 07/12/18

Application # ERES1807-0011

CU# _____

COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION

Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 ext:2 Fax: (910) 893-2793 www.harnett.org/permits

****A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) & SITE PLAN ARE REQUIRED WHEN SUBMITTING A LAND USE APPLICATION****

LANDOWNER: Erica Best Mailing Address: 16 Tilden Howington Drive
City: Lillington State: NC Zip: 27546 Contact No: 910-849-4289 Email: _____

APPLICANT*: Power Home Solar / Peter Denicola Mailing Address: 919 N Main Street
City: Mooreville State: NC Zip: 28115 Contact No: 704-209-9893 Email: mjarvis@powerhome.com

*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: Megan Jarvis Phone # 704-209-9893

PROPERTY LOCATION: Subdivision: _____ Lot #: _____ Lot Size: _____

State Road # 16 State Road Name: Tilden Howington Drive Map Book & Page: _____ / _____

Parcel: _____ PIN: _____

Zoning: R330 Flood Zone: _____ Watershed: _____ Deed Book & Page: _____ / _____ Power Company*: Duke Energy

*New structures with Progress Energy as service provider need to supply premise number _____ from Progress Energy.

PROPOSED USE:

SFD: (Size _____ x _____) # Bedrooms: _____ # Baths: _____ Basement(w/wo bath): _____ Garage: _____ Deck: _____ Crawl Space: _____ Slab: _____ Slab: _____
(Is the bonus room finished? () yes () no w/ a closet? () yes () no (if yes add in with # bedrooms)

Mod: (Size _____ x _____) # Bedrooms _____ # Baths _____ Basement (w/wo bath) _____ Garage: _____ Site Built Deck: _____ On Frame _____ Off Frame _____
(Is the second floor finished? () yes () no Any other site built additions? () yes () no

Manufactured Home: _____ SW _____ DW _____ TW (Size _____ x _____) # Bedrooms: _____ Garage: _____ (site built?) Deck: _____ (site built?)

Duplex: (Size _____ x _____) No. Buildings: _____ No. Bedrooms Per Unit: _____

Home Occupation: # Rooms: _____ Use: _____ Hours of Operation: _____ #Employees: _____

Addition/Accessory/Other: (Size _____ x _____) Use: Roof Mount Solar Closets in addition? () yes () no

Water Supply: _____ County _____ Existing Well _____ New Well (# of dwellings using well _____) *Must have operable water before final

Sewage Supply: _____ New Septic Tank (Complete Checklist) _____ Existing Septic Tank (Complete Checklist) _____ County Sewer

Does owner of this tract of land, own land that contains a manufactured home within five hundred feet (500') of tract listed above? () yes () no

Does the property contain any easements whether underground or overhead () yes () no

Structures (existing or proposed): Single family dwellings: _____ Manufactured Homes: _____ Other (specify): _____

Required Residential Property Line Setbacks:

Comments: _____

Front Minimum _____ Actual _____

Rear _____

Closest Side _____

Sidestreet/corner lot _____

Nearest Building on same lot _____

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: Head west on E Front St toward S 1st St

Continue onto US-421 N

Turn left onto Willie Cameron Rd

Turn right onto Old US Hwy 421

Turn left onto Tilden Howington Dr

Destination will be on the right

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

POB

Signature of Owner or Owner's Agent

07/12/18

Date

It is the owner/applicants responsibility to provide the county with any applicable information about the subject property, including but not limited to: boundary information, house location, underground or overhead easements, etc. The county or its employees are not responsible for any incorrect or missing information that is contained within these applications.

****This application expires 6 months from the initial date if permits have not been issued****

Application # _____

Harnett County Central Permitting

PO Box 65 Lillington, NC 27546 - Ph: 910-893-7525 - Fx: 910-893-2793 - www.harnett.org/permits
Certification of Work Performed By Owner/Contractor
(Individual Trade Application)

Owner (s) of Structure: Erica best Phone: 704-288-0128

Owner (s) Mailing Address: 16 TILDEN HOWINGTON DRIVE

Land Owner Name (s): ERICA BEST Phone: 704-288-0128

Construction or Site Address: 16 TILDEN HOWINGTONDRIVE

PIN # _____ Parcel # _____

Job Cost: 34,400 Description of Work to be done 23 ROOF MOUNTED SOLAR, GRID TIED, 6.79 KW

Mechanical: New Unit With Ductwork ___ New Unit Without Ductwork ___ Gas Piping ___ Other ___

Electrical*: 200 Amp ___ <200 Amp ___ Service Change ___ Service Reconnect ___ Other ___

* For Progress Energy customers we need the premise number

Plumbing: Water/Sewer Tap ___ Number of Baths ___ Water Heater ___

Specific Directions to Job from Lillington:

Head west on E Front St toward S 1st St Continue onto US-421 N 1 Turn left onto Willie Cameron Rd
Turn right onto Old US Hwy 421 Turn left onto Tilden Howington Dr

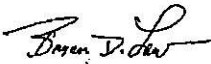
Subdivision: _____ Lot #: _____

I BRYAN LAW will provide the ELECTRICAL labor on this structure.
(Contractors Name) (Trade)

I am the building owner or my NC state license number is 26074-U, which entitles me to perform such work on the above structure legally. All work shall comply with the State Building Code and all other applicable State and local laws, ordinances and regulations.

POWER HOME
Contractor's Company Name
919 N MAIN STREET MOORESVILLE NC 28115
Address
26074-U
License #

704-288-0128
Telephone
KBIRMINGHAM@POWERHOME
Email Address

Structure Owner / Contractor Signature:  Date: 07/12/18

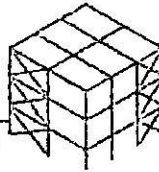
By signing this application you affirm that you have obtained permission from the above listed license holder to purchase permits on their behalf. If doing the work as owner you understand that you cannot rent, lease or sell the listed property for 12 months after completion of the listed work.

*Company name, address, & phone must match information on license

Structural Capacity, PC

STRUCTURAL CONSULTING GROUP

North Carolina Firm License Number – C3406



May 17, 2018

Mr. Sarah Brooks
Power Home Solar
919 N Main Street, Suite 200
Mooresville, NC 28115

Re: Best, Erica (SCPC Project No. – 2018.71.630)
16 Tilden Howington Drive
Lillington, NC 27546



Dear Ms. Brooks:

At the request of Power Home Solar (PHS), Structural Capacity, PC (SCPC) has evaluated the roof structure at the Best Residence located in Lillington, North Carolina to determine its adequacy to support the attachment of roof mounted solar arrays. It is the understanding of SCPC that PHS is proposing to install (23) Mission Solar Energy 295 watt photovoltaic (PV) modules on the roof structure.

The roof structure is composed of wood sheathing supported by pre-engineered wood trusses spaced at approximately 16 inches on center. The design roof live load is 20 psf. The ground snow load is 15 psf. The design wind speed for the location is 90 mph per ASCE 7-05.

Each panel will be supported by (2) mounting rails, (1) at each end. The mounting legs of the solar panel railing will be attached directly to the truss top chord with a 5/16 inch diameter lag screw. The installer shall use best practice construction methods to locate the lag screw in the center of each truss top chord. Per NDS Section 11.1.4, lead holes should be bored into the primary framing member to avoid splitting. All truss members supporting PV modules should consist of sound lumber without significant signs of deterioration.

The mounting legs of the solar panel racking system shall be located at 4'-0" o.c. maximum. The mounting legs should be staggered at the primary framing member spacing (1'-4") at adjacent solar panel rails. The maximum rail cantilever span should be limited to 1'-4".

The existing roof structure is adequate to support the solar panel loading, if installed in accordance with the above stated conditions. If any conditions are found in conflict with those stated above, SCPC should be made aware immediately for re-evaluation and report amendment, as applicable, before proceeding with solar panel installation.

Sincerely,

Structural Capacity, PC

Adrian S. Durham, PE, SE, LEED AP