

12/6/2022

PURE ENERGY GROUP, LLC, 400 DOMINION DRIVE STE 105, MORRISVILLE, NC 25760

Subject: Structural Certification for Installation of Residential Solar re job: KATHRYN AND JOSEPH GILL RESIDENCE, 325 SILVER MAPLE DR,, FUQUAY-VARINA, NC 27526

Attn.: To Whom It May Concern

A field observation was performed to document the existing framing of the above mentioned address. From the field observation, the existing roof structure was observed as:

**ROOF 1:** Shingle roofing supported by 2x4 Truss @ 24 in. OC spacing. The roof is sloped at approximately 27 degrees and has a max beam span of 12 ft between supports.

Design Criteria:

Code: 2018 NC Residential Code (ASCE 7-10)			
Ult Wind Speed:	115 mph	Ground Snow:	15 psf
Exposure Cat:	С	Min Roof Snow:	NA psf

After review of the field observation report and based on our structural capacity calculations in accordance with applicable building codes, the existing roof framing supporting the proposed solar panel layout has been determined to be:

**ROOF 1:** adequate to support the imposed loads. Therefore, no structural upgrades are required.

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