

PARKER AND WEST ENGINEERING, PLLC

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February 27, 2020

Venture Solar
67 West St. Suite 211
Brooklyn, NY 11222

Re: Structural Certification for Installation of Solar Panels
Client: Michelle Muriel
Address: 146-14 184th St Springfield Gardens, NY 11413

To Whom It May Concern:

A field observation of the condition of the existing framing system was performed by an audit team from Venture Solar. From the field observation of the property, the existing roof structure was observed as follows:

- Composite Shingles over roof plywood is supported by 2x10 @ 24" o.c. SPF #2 at Roofs A/B/C. The rafters are sloped at approximately 15 degrees and have a maximum projected horizontal span of 16 feet between load bearing supports.

Design Criteria:

- Applicable Codes = 2014 NYC Building Code, ASCE 7-05 & 7-10, NDS-05
- Ground Snow Load = 25 psf
- Basic Wind Speed = 98 mph, Exposure Category C.

As a result of the completed field observation and design checks:

- Roof A/B/C: Is adequate to support the loading imposed by the installation of solar panels and modules. Therefore, no structural upgrades are required.

I certify that the capacity of the structural roof framing that directly supports the additional loading due to the solar panel supports and modules had been reviewed and determined to meet or exceed the requirements without structural upgrade in accordance with the 2014 NYC Building Code.

Sincerely,



Walid Abdulla, P.E.

Manager

Parker and West Engineering, PLLC

