

PARKER AND WEST ENGINEERING, PLLC

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July 27, 2022

Sunrun Inc.

133 Technology Dr. Suite 100

Irvine, CA, 92618

Re: Structural Certification for Installation of Solar Panels

Sunrun Job Tracking Number: 216R-020ALA1

Client: MD SHAFI UL ALAM

Address: 111-20 147TH ST, QUEENS, NY, 11435

To Whom It May Concern:

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

- Composite Shingles over roof plywood is supported by 2x6 @ 16" o.c. SPF #2 at ARRAY 1/2. The rafters are sloped at approximately 39 degrees and have a maximum projected horizontal span of 8ft 6in. 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:

- ARRAY 1/2: The roof 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

