

PARKER AND WEST ENGINEERING, PLLC

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October 15, 2021

Sunrun Inc.
133 Technology Dr. Suite 100
Irvine, CA, 92618

Re: Structural Certification for Installation of Solar Panels
Sunrun Job Tracking Number: 201R-145CHEN
Client: SHING CHENG
Address: 145 LEVERETT AVE, STATEN ISLAND, NY, 10308

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 18 degrees and have a maximum projected horizontal span of 11ft 5in. between load bearing supports.

Design Criteria:

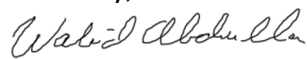
- Applicable Codes = 2014 NYC Building Code, ASCE 7-05 & 7-10, NDS-05
- Ground Snow Load = 25 psf
- Basic Wind Speed = 98 mph, Exposure Category C.

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

- ARRAY 1/2: It 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

