

PARKER AND WEST ENGINEERING, PLLC

1425 PARKER ST. BRONX NY 10462

Phone: (917) 251-0319 email: INFO@PARKERWESTENG.COM

Website: PARKERWESTENG.COM

March 12, 2020

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

Re: Structural Certification for Installation of Solar Panels
Sunrun Job Tracking Number: 212R-320SASE
Client: BALASAR SASENARINE
Address: 2320 TURNBULL AVE, THE BRONX, NY, 10473

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 2x8 @ 16" o.c. SPF #2 at ARRAY 1/2/4. The rafters are sloped at approximately 16 degrees and have a maximum projected horizontal span of 9ft 11in. between load bearing walls.
- Composite Shingles over roof plywood is supported by 2x8 @ 16" o.c. SPF #2 at ARRAY 3. The rafters are sloped at approximately 19 degrees and have a maximum projected horizontal span of 7ft 1in. between load bearing walls.

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 1/2/4: It is adequate to support the loading imposed by the installation of solar panels and modules. Therefore, no structural upgrades are required.
- ARRAY 3: 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

