

# ENGINEERINC

## Structural Engineering Letter

**Date:** 06/23/2025

**Project Name:** Mai Lee

**Project Address:** 335 GWENDOLYN WAY, Fuquay-Varina, NC , 27526

**Contractor :** Lifetime Energy

**Contractor Address :** -

**Attn :** To Whom It May Concern

A Field observation of the condition of the existing framing system was performed by an audit team from **Lifetime Energy**. From the Field observation of the property, the existing roof structure observed as follows:

- Existing roof is supported by **2 x 4 @ 24"** rafters at the solar array. The rafters are sloped at approximately **30 degree** and have maximum projected horizontal span of **7 feet** in between load bearing supports.

### Design Criteria

- Applicable codes: 2018 North Carolina State Building Code ASCE 7-16
- Ground Snow Load: 15 psf
- Roof Dead Load: 20 psf
- Wind speed: 120 mph
- Risk Category: II

I certify that the capacity of the structural roof framing that directly supports the additional gravity loading due to the solar panel supports and modules had been reviewed and determined to meet or exceed the requirements in accordance with the Design Criteria.

If you have any questions or concerns please contact us,

Engineerinc.io,  
303 N Glenoaks Blvd Suite 200  
Burbank, CA 91502  
(310) 928-0938  
[new@engineerinc.io](mailto:new@engineerinc.io)



Exp. Date: 12/31/2025  
Date Certified and  
Signed: 06/23/2025