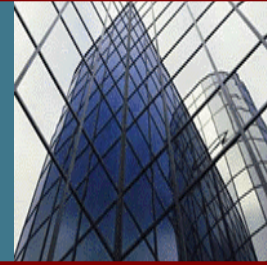




## Neal Smith Engineering, Inc.

139 Pinehurst Avenue - Suite C  
Southern Pines, NC 28387  
Phone: (910) 695-8825  
Fax: (910) 695-8832  
www.nseengineering.com  
License No. C-1425



June 19th, 2023

Jesus Lopez  
260 Azalea Dr.  
Spring Lake, NC 28390

Telephone: 609-313-1796  
Email: j13properties@gmail.com

Subject: **Structural Inspection**  
**260 Azalea Drive**  
**Spring Lake, North Carolina**  
**NSE Project #2300560**

Dear Mr. Lopez:

On June 17, 2023, Neal Smith Engineering, Inc. (**NSE**) performed a structural inspection at the above subject location. The purpose of the inspection was to evaluate repairs made to a truss.

This report summarizes the findings and recommendations based upon the site visit and subsequent engineering evaluation.

### **Scope of Investigation**

The scope of the investigation included the following:

- Observation of the property by a Professional Engineer
- Visual structural investigation with minimal destructive testing
- Determine the adequacy of the repair
- Preparation of report and findings

### **Description**

The property in question is a single-story wood framed house. A wall was removed, and a beam was added. The bottom chord of 8 trusses was attached to the beam.

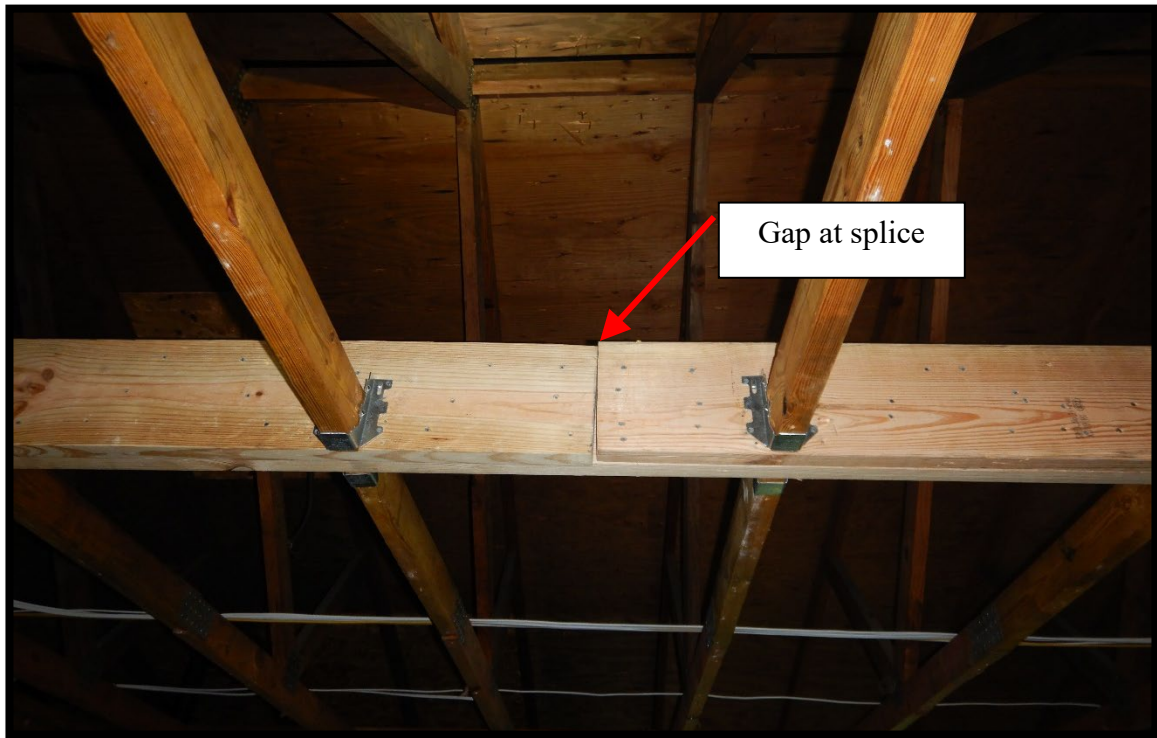
## **Observations and Findings**



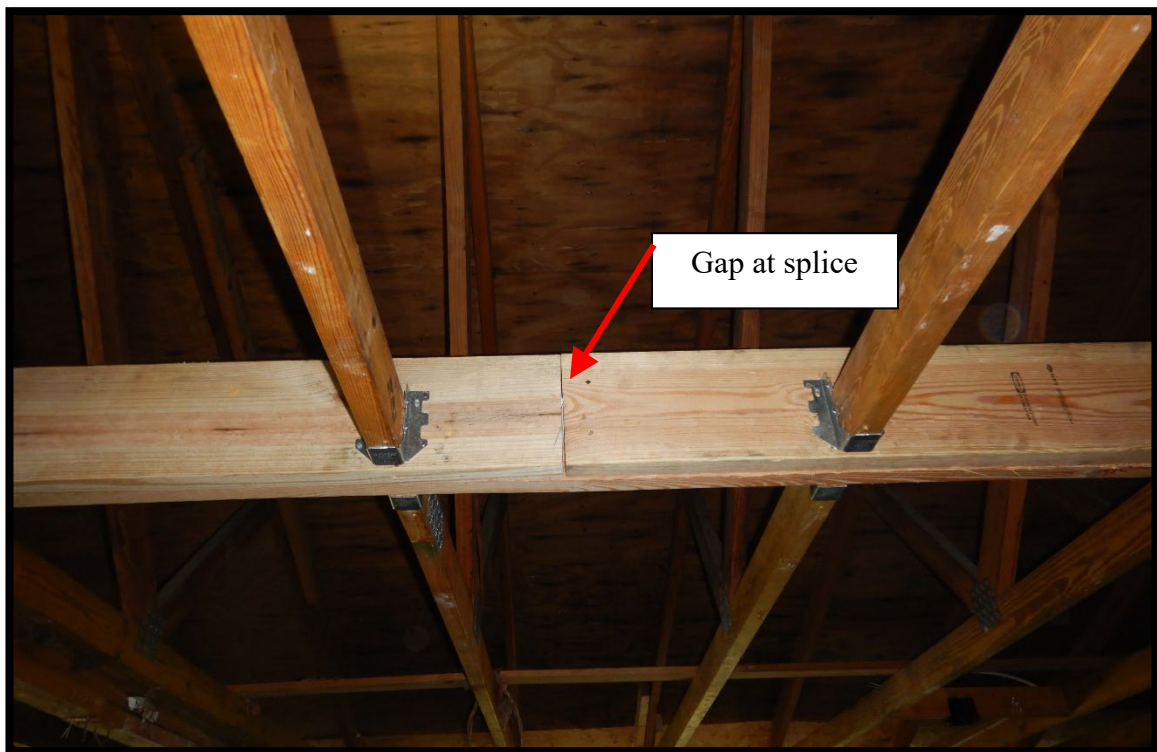
**Photo #1** - This is the front of 260 Azalea Dr.



**Photo #2** - This is a photo of the new beam that was added.



**Photo #3** – The beam had two splice points, one on each side.



**Photo #4** – This is the other splice point.

## **Conclusions and Recommendations**

The bottom chord of the truss is a tension member and requires a strap to transfer the tension load. All 8 trusses require a strap.

Where the splices are located, the beam is effectively a one ply member. Attach a connection plate at both locations shown.

See the attached sketch for repair details.

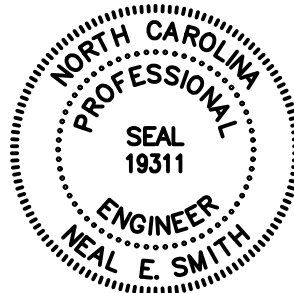
Neal Smith Engineering, Inc., uses the generally accepted practices and principles used within the profession, and expresses its opinion based on visual observation of the current condition of the structure relative to its condition as generally constructed. NSE does not assume any legal responsibilities of the original designers, developers, architects, engineers, or contractors for the property. If other conditions than those assumed by this report are discovered during repairs, recommendations contained in this report will not be considered valid unless the changes are reviewed, and conclusions modified or verified in writing.

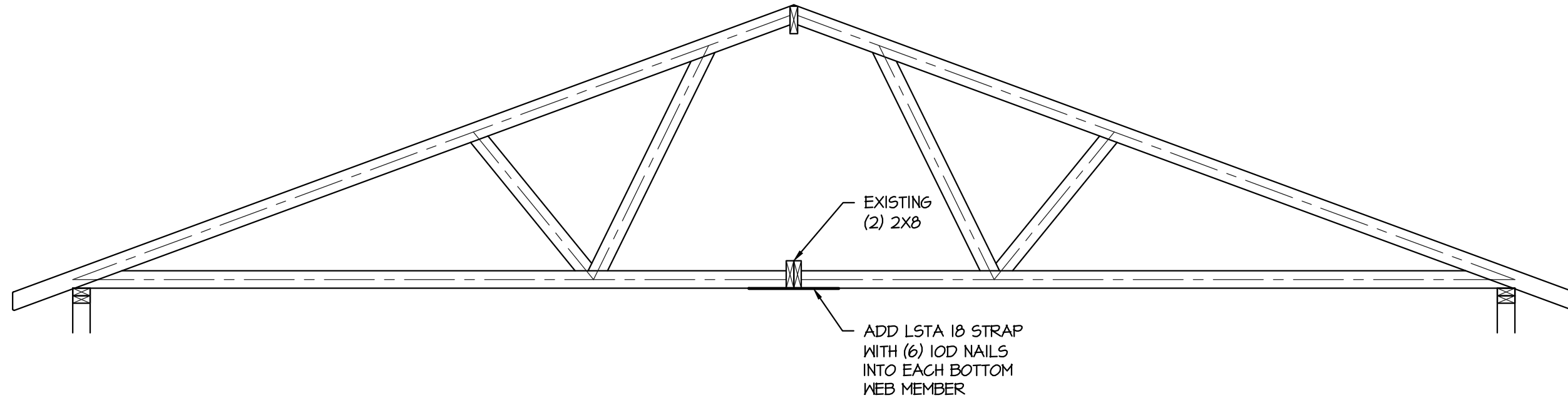
If you have any questions or if we can be of additional assistance, please contact us.

Sincerely,  
**NEAL SMITH ENGINEERING, INC.**

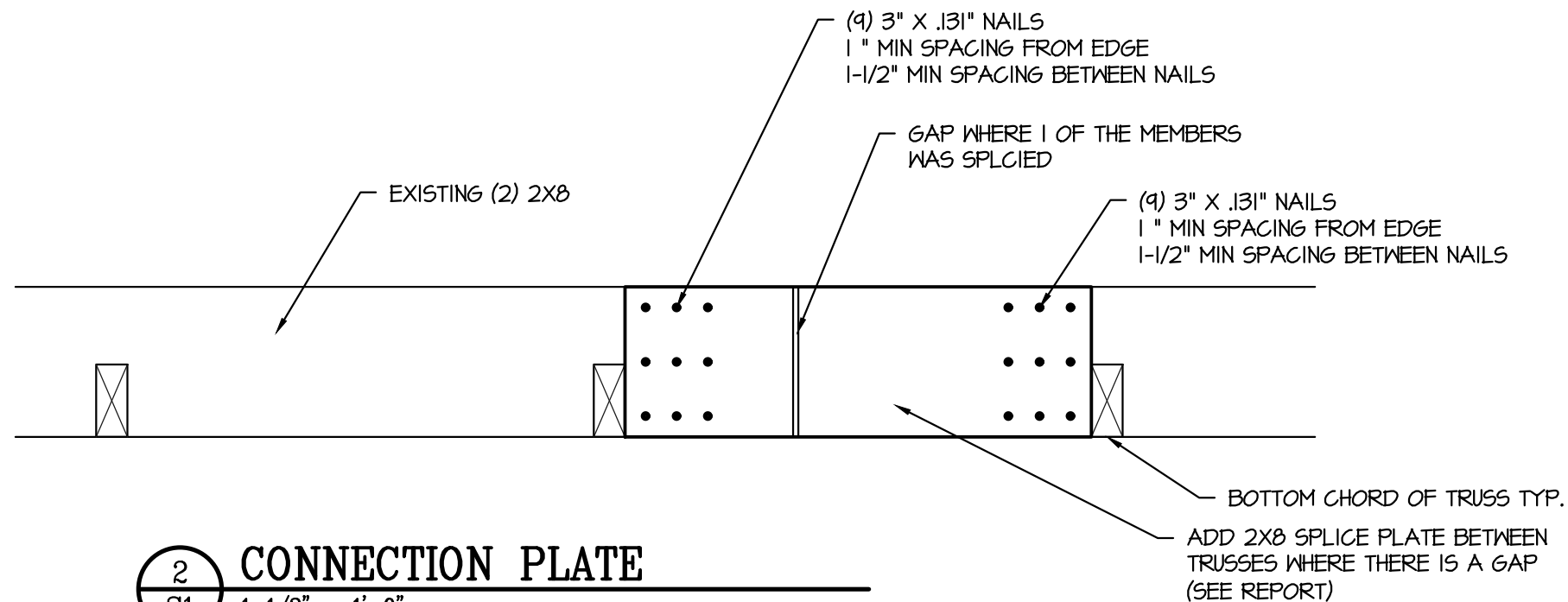
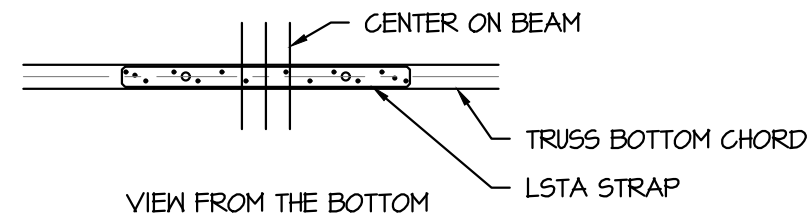


Neal Smith, PE  
President



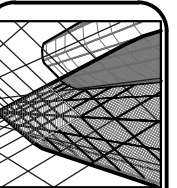


**1 Truss Profile**  
 S1 1/2" = 1'-0"



**2 CONNECTION PLATE**  
 S1 1-1/2" = 1'-0"

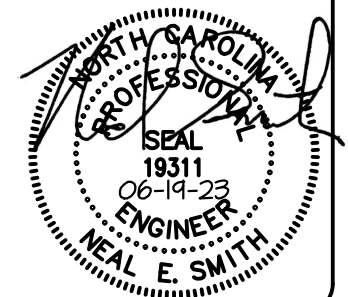
Jesus Lopez  
 260 Azalea Dr. Spring Lake, NC  
 Truss Modification



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 CONSTRUCTION



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 06-19-23  
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 S1 OF 1