



## Neal Smith Engineering, Inc.

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March 8, 2021

Marie Joiner  
582 Pinevalley Lane  
Sanford, NC 28374

Telephone: 910-723-1180  
Email: joineravon@gmail.com

Subject: **Structural Inspection**  
**582 Pinevalley Lane**  
**Sanford, North Carolina**  
**NSE Project #2100521**

Dear Ms. Joiner:

On March 6, 2021, Neal Smith Engineering, Inc. (NSE) performed a structural inspection at the above subject location. The purpose of the inspection was to evaluate a

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 if a deck was built to code
- Preparation of report and findings

### **Description**

The property in question is an existing deck. An original 12 ft x 12 ft deck was added on to making the total deck 652 ft<sup>2</sup>. The deck was built out of 2x8 joists 16" on center spanning approximately 11'-8" with (2) 2x10 girders spanning approximately 6 ft on center. 4x4 support posts were encased in concrete. The deck boards are 5/4 boards. The deck was built approximately 10 years ago.

## **Observations and Findings**



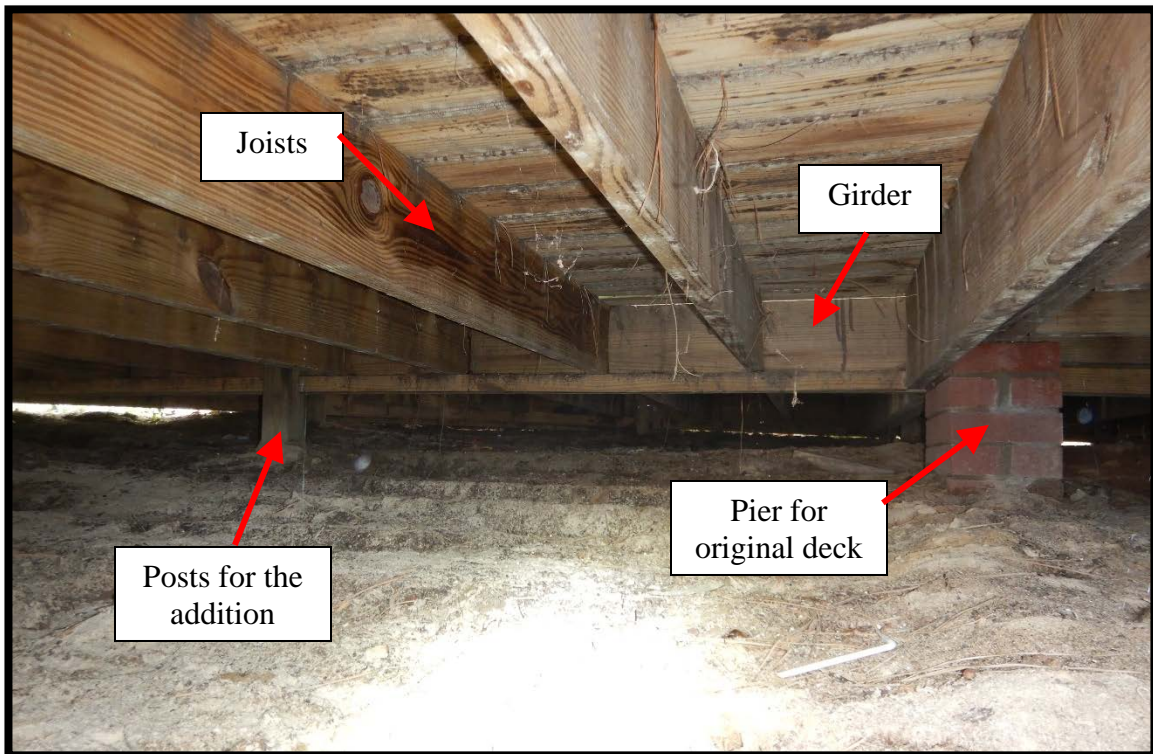
**Photo #1** - This is a photo of the deck. Addition.



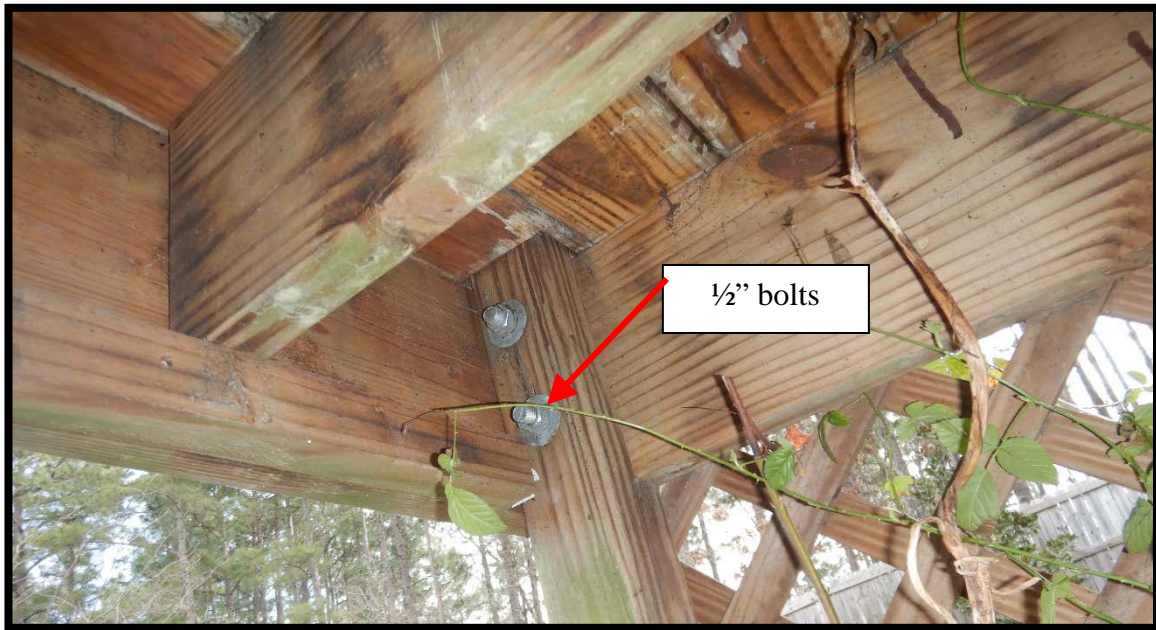
**Photo #2** - Different angle of the deck.



**Photo #3** - This photo shows the band board was bolted to the house.



**Photo #4** – The joists are supported by a ledger on the girder.



**Photo #5** – The support posts were bolted to the framing with galvanized bolts

## **Conclusions and Recommendations**

*This report certifies that the original deck and deck addition were built according to the NC State Residential Code.*

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