

**Date:** 07/16/2024

**To:** **Walter Johnson**  
Builders First Source  
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919-862-7223

**Re:** **Damaged Roof Truss**  
Location: Lot 1 Pondhurst (98 Pondhurst Lane Fuquay-Varina, NC)  
JDS Project No.: RDU2407071  
Date of Inspection: 07/10/2024

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

### Observations

Modifications are needed to the B01 trusses at the front gable above the garage.

1. Floored storage area is needed to the left and right of the heated area.
2. The ceiling height is 8' and is needed to be 9' to match the 2<sup>nd</sup> floor.
3. A full size 2'6" door is needed at each side of the heated area to the storage.

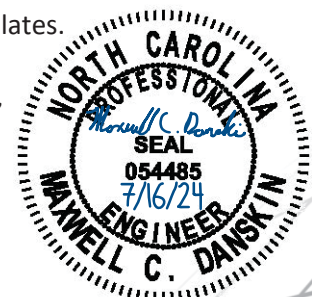
### Recommendations

Based on our onsite observations and review,

1. Floored storage area:
  - a. Install a 10' 2x10 scab to each side, on (1) face, starting at the left and right ends of each truss at floor level, connected with (2) 10D nails into each overlapped member.
2. Ceiling height:
  - a. Carefully remove web 4-7 that makes up the current ceiling joist and install a new 2x4 web at the 9' ceiling level connected to the top chord on each end with a 16" x 16" x 7/16" OSB gusset on each side with (2) 6D nails at 3" o.c. into each overlapped member.
3. Door installation:
  - a. The vertical members of one of the B01 trusses will need to be removed to install framed door openings in order to access the attics on the left and right. At the truss that is to be modified, install a full length 1-3/4" x 14" LVL spanning from the 11 bearing location to the 23 bearing location. Ensure the LVL has full bearing on the top plates, and attach the LVL with (2) rows of 10d nails spaced 6" on center into all covered members.
  - b. Remove the 3-21 and 8-13 members, do not damage the gusset plates.
  - c. Frame in a door opening as needed.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 984-297-5949.

Respectfully Submitted,  
John Lowrance



Reviewing Engineer:  
Maxwell C. Danskin, PE