

**Date:** 01/10/2024

**To:** **Walter Johnson**  
Builders First Source  
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Raleigh, NC 27604  
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919-862-7223

**Re:** **Tray Ceiling Issue**  
Location: Lot 161 The Farm at Neill:p:s Creek (Lillington, NC)  
JDS Project No.: RDU2400265  
Date of Inspection: 1/10/24

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.

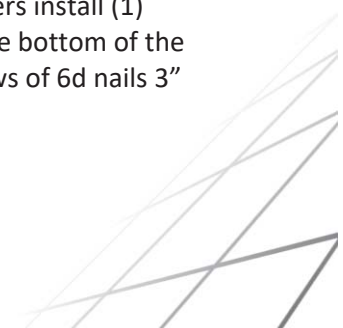
### Observations

The client has requested evaluation of the 6<sup>th</sup>-15<sup>th</sup> trusses from the right which need to be modified to allow for a tray ceiling. The trusses needing modification are as follows: (5) A01 trusses, (4) A03 trusses and (1) A03H truss. The tray ceiling is set to start approximately 2' off each wall of the master bedroom until the jut out of the room begins.

### Recommendations

Based on our onsite observation and review the contractor shall do the following at all above mentioned trusses:

- 1<sup>st</sup> cut out the truss bottom chord section to allow for the desired ceiling tray width.
- Then install (1) vertical member at each bottom chord spanning tightly between the bottom chord and top chord.
- Between the newly placed vertical members place a new horizontal member tightly between them allowing for the desire tray height.
- Cut back the current diagonal members to fit tightly atop the newly placed horizontal member.
- Install (1) 36" W x 24" H by 7/16" OSB scab on each side of each bottom chord joint centered on the joint and flush with the bottom of the original bottom chord. Attach the OSB scabs with construction adhesive and (2) rows of 6d nails 3" O.C. into every covered member. The contractor may notch the scab to fit the tray ceiling shape.
- Where the newly placed vertical members join the top chord install (1) 16" x 16" by 7/16" OSB scab on each side of each joint centered on the joint. Attach the OSB scabs with construction adhesive and (2) rows of 6d nails 3" O.C. into all covered members.
- Where the newly placed horizontal member meets the cut back diagonal members install (1) 24" x 24" by 7/16" OSB scab on each side centered on the joint and flush with the bottom of the horizontal member. Attach the OSB scabs with construction adhesive and (2) rows of 6d nails 3" O.C.



If you have any questions or if I can be of further assistance to you on this project, please contact me at 980-240-5681.

Respectfully Submitted,  
Zachary Lower



Reviewing Engineer: Uchenna Onwuemene, PE

