

Date: 02/06/2024

To: **Shannon Spivey**
Mattamy Homes
2127 Ayrley Town Boulevard
Charlotte, NC 28273
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919-533-8194

Re: **Damaged Trusses**
Location: Lot 5 Providence Creek (135 Providence Creek Dr, Fuquay-Varina, NC)
JDS Project No.: RDU2401210
Date of Inspection: 02/05/2024

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.

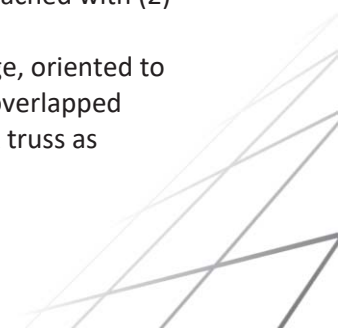
Observations

1. The 11th roof truss from the left gable just to the rear of the 1st web joint from the front has a crack in the bottom chord that has been repaired with 8' 2x6 scabs centered on the damage placed on each side.
2. The 1st roof truss from the left wall of the garage at the 1st diagonal web from the front has had a repair for damage by installing a 6' 2x4 scab on each side centered on the damage.
3. The 1st roof truss from the right gable above the owner's bath shower has had the diagonal web member repaired for damage with a 2x4 scab placed on each side.
4. The 8th roof truss from the right gable, R02 is damaged in multiple places:
 - a. Cracked web at the angled web just to the front of center.
 - b. Damaged gusset plate at the center splice joint in the bottom chord above the laundry room.
 - c. The rear of the top chord of the base truss is cracked.

Recommendations

Based on our onsite observations and review,

1. The repair is adequate. No further repair is required.
2. The repair is adequate. No further repair is required.
3. The repair is adequate. No further repair is required.
4. The roof truss needs further repair:
 - a. Install a minimum 4' 2x4 scab on each side, centered on the damage and attached with (2) 10D nails at 4" o.c.
 - b. Install a minimum 4' 2x6 scab on each side, centered on the joint and attached with (2) 10D nails at 4" o.c.
 - c. Install a 24" x 24" x 3/4" OSB gusset on each side centered on the damage, oriented to the slope of the roof and attached with (2) 6D nails at 3" o.c. into each overlapped member. Notch the 2x4 scab connecting the base truss to the piggyback truss 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

