

**Date:** 08/15/2023

**To:** Joshua Mason  
southernconcepts@embarqmail.com  
919-414-4783

**Re: Tree Impact Evaluation**  
Location: 1284 Atkins Rd. (Fuquay-Varina, NC)  
JDS Project No.: RDU2307218  
Date of Inspection: 08/15/2023

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 requested an evaluation of the tree damage. The following was observed:

1. A flitch plate beam was observed spanning left to right above the carport. The finishes beneath the flitch plate beam have shifted. Multiple purlins were sheared where they beared over the beam. Due to space constraints and low light conditions, the beam, rafters, and joists could not be fully evaluated.
2. At the rear right corner of the structure, the brick veneer has been pushed approximately 7/8" beyond the lower courses. The area in question occurs approximately seven courses up from grade. The shifted brick extends approximately 7'-0" along the right perimeter wall and 3'-0" along the rear perimeter wall. Multiple cracked brick were observed at the rear perimeter wall.
3. The front entry glass door was inoperable. The door frame is visibly shifted. The hinge side of the door appears to be compressed.
4. The middle metal decorative element beneath the gable end of the carport has been bent. The gable framing could not be fully evaluated due to space constraints and low light conditions.

### Recommendations

Based on our on-site evaluation and review:

1. The contractor shall fully expose the flitch plate beam and the ceiling joists and rafters. Where ceiling joists and rafters are damaged, the contractor shall replace with materials of like size, spacing, and species. If the flitch plate beam has incurred damage, the client shall contact a JDS Consulting representative for further analysis.
2. JDS Consulting is unable to determine if the shifted brick is a result of brick tie failure, shifting wood framing or a combination thereof. JDS Consulting recommends removal of the drywall and the brick in this location to provide a more comprehensive analysis. The following will be required to be exposed:
  - a. The stud framing at the affected areas.
  - b. The rim board.
  - c. An exposed section of the floor framing taken from the subfloor. The crawlspace area has significant amounts of obstructions and is narrow. Crawl access is on the opposing side of the home. Access will need to be made at the right rear area of the home.



3. The contractor shall expose the header and the adjacent supports/wall framing to evaluate to extent of damage. The doorway may be required to be reframed.
4. The contractor shall expose the gable beam. If the beam is damaged, replace with members of like size, ply count and species. Replace all damaged gable stud framing with minimum 2x4 studs spaced 16" o.c.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-548-0978.

Respectfully Submitted,  
Patrick Kurtz



Reviewing Engineer: Uchenna Onwuemene, PE

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