

Date: 12/12/2024

To: **Ryan Russell**
Davidson Homes
1903 N. Harrison Avenue
Cary, NC 27513
rrussell@davidsonhomesllc.com
984-800-6136

Re: **Damaged I-Joist**
Location: Lot 58 Wellers Knoll (120 Wild Turkey Way, Lillington, NC)
JDS Project No.: RDU2411859
Date of Inspection: 12/03/24

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 requests an evaluation of the over-bored floor joist on the 2nd floor above the master bathroom. The floor joist spans approximately 3' left to right and is hangered onto the neighboring roof trusses. The holes are on the left and right ends of the floor joist, the left hole measures approximately 5" in diameter and the right hole measures approximately 3".

Recommendations

Based on our on-site observation and review, the size and placement of the holes in the header are inadequate. We recommend the following:

1. On the side opposite of the hangered floor joist, install a full length 2x4 scab on the header. The scab will be flush with the bottom of the header. Tightly notch the 2x4 scab around the large pipe, leaving as much material as possible. If possible, push the pipe up to allow for more room.
2. Attach the 2x4 scab to the header with (2) rows of 10d nails spaced 4" on center.
3. Note: the hangers may stay in place as is.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 984-344-4691.

Respectfully Submitted,
Patrick Ruff



Reviewing Engineer:
Maxwell C. Danskin, PE