

**Date:** 07/28/2023

**To:** **Cody Ruhl**  
Drees Homes  
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919-222-1164

**Re: Inspection Item**  
Location: Lot 25 Serenity (42 Relaxing Place, Fuquay-Varina, NC)  
JDS Project No.: RDU2306484  
Date of Plans Approval Stamp: 5/18/23  
Date of Inspection: 7/28/23

### Observations

A representative of JDS Consulting arrived on site to inspect the front porch framing as requested by the client. The following was observed:

1. Two vertical 2x4 blocks were installed with one being toe nailed to the left-to-right front porch LVL beam and the second attached to the fascia board. A thin strip of OSB was used to connect the two 2x4 blocks together to provide out-of-plane support for the assembly.
2. The left perimeter wall of bedroom #2's walk-in-closet does not bear directly on the (2) ply 1 3/4" x 9 1/4" LVL front-to-back porch beam.

### Recommendations

Based on our on-site observations and review,

1. The thin strip of OSB connecting the fascia board to the LVL is inadequate. 2x4 horizontal outriggers at 24" o.c. should be toe-nailed to the LVL with (2) 10d nails. Ensure that the narrow side of the 2x4 is flush with the roof sheathing. The other end of the outriggers should be toe-nailed into the fascia board.
2. Install 2x10 ladder blocking at 16" o.c. between the LVL and the OSB board referenced above. Attach the blocking to the LVL beam with (3) 1/4" x 3 1/2" SDS screws and toe-nail the other end of the blocking to the OSB board with (3) 8d nails. Install (1) L90 angle on each side of the blocking to the LVL beam. Pack out the web of the I-joint adjacent to the LVL beam with 3/4" OSB, attaching it with construction adhesive and (3) rows of 8d nails spaced 12" o.c. Then install 2x10 ladder blocking between the LVL beam and the I-joint spaced 16" o.c. Use similar SDS screws to attach the blocking to the LVL and (3) 10d nails to attach the blocking to the I-joint.

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

