



HAYES STRUCTURAL

Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854
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Date: March 11, 2025

To: Ronnie Adams
J. Douglas Contracting
3337 Airpark Road, Suite 3
Fuquay-Varina, NC 27526

Re: 25-FRM-049
Framing Inspection
Lot 33 Cotton Farms
264 Deer Tail Lane
Fuquay-Varina, NC 27526
Permit No.: SFD2407-0008

Mr. Adams:

At your request, a site visit was made to the above referenced single family residence under construction to inspect two framing concerns noted by the inspector.

Observations:

1. A small section of the ridge above the dining room was damaged at the bottom and top edges.
2. The front end of the (2) 1 $\frac{3}{4}$ "x16" LVL beam above the left front bathroom was measured to have 3 $\frac{1}{2}$ " of bearing on the perpendicular wall in lieu of extending over the parallel wall to have 6" of bearing per plan.

Analysis and Recommendations:

1. Cut back the rafters on one side and reinforce the ridge with a 2x10x4'-0" scab centered on the damage. Fasten the scab to the ridge with (3) rows of 10d nails spaced 12" o.c.
2. Fasten a 1 $\frac{3}{4}$ "x9 $\frac{1}{4}$ "x4'-0" LVL scab to the right side of the noted (2) 1 $\frac{3}{4}$ "x16" LVL beam with (2) rows of 5" long Simpson Strong-Tie SDS (or equivalent) screws spaced 12" o.c. The LVL scab is to have 3 $\frac{1}{2}$ " bearing on the double top plates. Additionally, fasten a flat 2x6 stud to the rear side of the (4) 2x4 stud column with (2) rows of 10d nails spaced 6" o.c. The (3) LVL plies are to bear directly on the flat stud. Furr out the remainder of the front bathroom wall to conceal the flat stud.

These prescribed configurations will provide the required support for all imposed loads.

Please call me if you have any questions.

Respectfully submitted,

Zachary H. Hayes, PE
Owner/Structural Engineer
Hayes Structural Consulting & Design, PLLC



Digitally signed
by Zachary H.
Hayes, PE
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