



HAYES STRUCTURAL

Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854
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Date: May 15, 2025

To: Scott Rhodes
Scott Rhodes Building, Inc.

Re: 23-KAHD-002.1.3
Fastener Deviation
Fleming Residence
354 Pointer Creek Drive
Angier, NC 27501

Mr. Rhodes:

At your request, the plans and provided information were reviewed for the above referenced single family residence under construction to address the fastening of the (6) 1 $\frac{3}{4}$ "x24" LVL beam above the garage.

Observations:

You indicated the (6) 1 $\frac{3}{4}$ "x24" LVL beam above the garage was fastened with (3) aligned rows of $\frac{1}{2}$ " diameter carriage bolts spaced 16" o.c. in lieu of staggering the bolts per plan. Additionally, you indicated the outer plies were bored in order to countersink the nuts and washers.

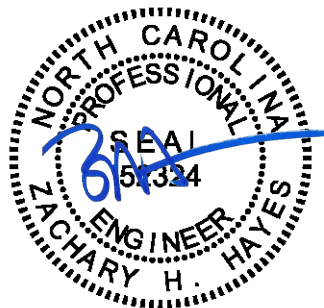
Analysis and Recommendations:

Analysis revealed the "as-built" (6) 1 $\frac{3}{4}$ "x24" LVL beam fastened with (3) aligned rows of $\frac{1}{2}$ " diameter carriage bolts spaced 16" o.c. countersunk into the outer plies is adequate and will provide the required support for all imposed loads. No structural modifications are required.

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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