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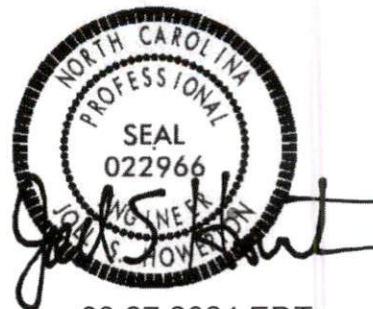
March 27, 2024

Subject: 1676 Wade Stephenson Road  
Holly Springs, NC 27540  
Renovation/Addition Letter

Based on the request of the Contractor, the rear wall of the home will be modified to build and addition on the rear of the home. My assessment and recommendations are as follows:

- An addition will be built on the rear of the home that runs the entire length of the home. The rear wall of the home will be removed to extend the existing rooms into the new portion of the home. A double 1 3/4"x 11 1/4" LVL beam will be upset into the ceiling to support the existing ceiling joists and the rafters at the rear of the home. The LVL beam will support the new ceiling joists of the new portion of the home as well. Fasten the LVL members together with 2 rows of 1/4"x 3 1/2" structural screws spaced at 12" o.c. The LVL beam will be supported by 3 studs on each end at the rear corners of the home and by 3 studs in 2 interior walls of the existing home. Each stud column will bear on the existing foundation wall below. Attach the existing ceiling joists and rafter combination to the LVL beam with a Simpson U26-2 or a U26-3 hanger or equivalent. Attach the new ceiling joists to the LVL beam with a Simpson U26 hanger or equivalent.
- The new roof will be a shed style roof overframed and bearing on the existing roof. I would recommend adding a new 2x6 rafter to every other existing rafter on the rear of the home to support the added load of the new roof.
- I would recommend tying the new concrete footings of the addition to the existing concrete footings with 2 - #4 dowel bars (8" long, 4" into each footing).

The renovation items noted above meet all the requirements of the 2018 North Carolina Building Code for Residences.



03 27 2024 EDT

# Signature Certificate



Envelope Ref: 16c0835cd0b0b77d54feb7ca2d52e643b98be51b

Author: Joel S. Howerton    Creation Date: 27 Mar 2024, 18:04:18, EDT    Completion Date: 27 Mar 2024, 18:04:33, EDT

## Document Details:



Name: 1676 Wade Stephenson Road Addition Renovation Letter  
Type:  
Document Ref: 070f5be5068c23f5be289b7e60ae0b711b1d9071b9eeda71a9b85cfaa9716aa4  
Document Total Pages: 1

## Document Signed By:

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Location: RALEIGH, NC (US)  
Date: 27 Mar 2024, 18:04:33, EDT  
Consent: eSignature Consent Accepted  
Security Level: Email

## Document History:

Envelope Created: Joel S. Howerton created this envelope on 27 Mar 2024, 18:04:18, EDT  
Signed by Joel S. Howerton: Joel S. Howerton signed this Envelope on 27 Mar 2024, 18:04:33, EDT  
Executed: Document(s) successfully executed on 27 Mar 2024, 18:04:33, EDT  
Signed Document(s): Link emailed to joeltarheel66@yahoo.com