

## CIVIL AND STRUCTURAL ENGINEERING SERVICES, PLLC

**SAMIR W. BAHHO, P.E.**

**Date: December 19, 2024**

Red Rock Builders  
1303 Olde Walker Mill Road,  
Apex, North Carolina 27502

Reference: Permit # SFD 2406-0066  
Lot 888, 728 Micahs Way,  
Spring Lake, NC28390  
Framing Repair recommendations

Woody,

A visit to the site was made, to the site being constructed above referenced house, on December 18, 2024. The subject of the visit was to inspect and recommend repair to the items as per Harnett County Inspector comments and as follows:

1. Garage door wall portal:  
Sheet the area of the timber framed garage door wall using Structural OSB , 1/2" thick. Use 4x8 sheets cut to fit to sheet both sides of the portal and over the portal header.
2. Living Room Header over windows back wall:  
Since the span is reduced due to the installation of 2-2x6 between window, the repair needed is only to remove wall studs between the existing 3-2x10 over the 2nd window from the right and replace with 3-2x12 shaved to fit over the existing J stud supports on both sides of that window .
3. 2"-3" holes in 3 ceiling joists over the kitchen area:  
To repair , use 5-1" steel strapping, gauge 16, 4' long. 5 strapping per joist (15 total). Nail steel strapping to the lower part of joists below the bottom of the existing pipe with 2 strapping on each side of joist and one strapping on bottom of joist . Use 8d nails @ 2" spacing.
4. Beam under wall in the area close to the Stairs:  
The As-built LVL beam size is good and meets load bearing requirement of NCBC, Residential, 2018. No need for repair as is.

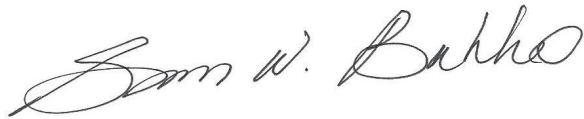


5. Added WC to bedroom#4:  
Add 2x10 spacers between joists under perpendicular closet walls between all joists under the closet wall and install one additional joist under closet wall running parallel to the ceiling joist
6. Double rafters in the roof over Foyer Area:  
Add one 2x8 rafter to be supported over the rafter splice wall and the ridge.
7. I hereby Certify, that the design of the house meets wind load requirement of Harnett County, NC of 120 Miles Per Hour

Therefore, I Certify when repairs of the items 1 thru 6 are repaired as recommended above, The framing will satisfy load bearing requirements of NCBC, Residential, 2018 . My seal and signature are affixed below for certification

For any further questions please call me or email me. My telephone number is (919) 621-0628. My email address is ba.casespllc@gmail.com

Sincerely,



Samir W. Bahho, PE (License # 16941)  
Business License P-0537



December 19, 2024

2 pages  
certified letter

