

September 1, 2021

Project No. 21-2054

Matt Brueshaber, PE
Stonewall Structural Engineering, PLLC
4800 Falls of Neuse Rd. #120
Raleigh, NC 27609
(919)407-8663



Ronald Velduizen
40 High Meadow Dr.
Angier, NC 27501

Re: Structural Observation — 40 High Meadow Drive, Angier, NC 27501

Mr. Velduizen,

At your request, on August 17, 2021 we performed a visual structural observation of the floor loads for conversion of unfinished attic space to finished space at the Angier residence noted above. The structure is a conventionally framed, detached, single family residence with raised first floor framing over a pier/girder foundation system with perimeter masonry foundation walls (*see picture 1*).

Our observations are listed below. Indicators such as "left," "right," "front," and "back" are referenced as viewing the front of the home.

FLOOR FRAMING

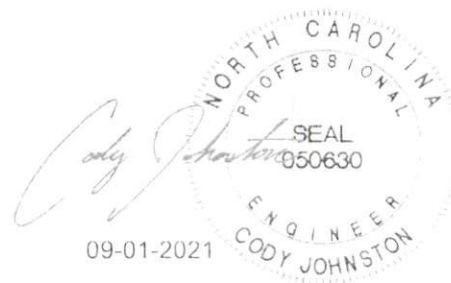
- Floor framing of the 2nd floor unfinished room above the master bedroom was noted to be 13'-8" long 2x12 joists that had left-to-right orientation and were spaced at 16" on center.

Upon completion of our analysis, we have concluded the following:

- Our calculations show the floor joists noted above are capable of supporting live loads of 40 psf. **No structural modifications are necessary** for the attic space over the master bedroom to be used as habitable finished space with a floor live load up to 40psf.

The above-listed determinations were made in accordance with common engineering principles and the intent of the 2018 edition of the *North Carolina Residential Building Code*. Sequencing, and means and methods of construction are considered to be beyond the scope of this report. Contractor is to provide adequate temporary shoring prior to cutting or removing any structural load-bearing elements. All work is to conform to applicable provisions of current building standards. Please feel free to contact us, should you have any questions or concerns regarding this matter.

Sincerely,
Matt Brueshaber, PE
Stonewall Structural Engineering, PLLC
Lic. #P-0951



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PICTURE ADDENDUM



*Picture 1 – 40 High Meadow Drive,
Angier, NC 27501*

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INVOICE

BILL TO

Ronald Veldhuizen
40 High Meadow Dr
Angier, NC 27501

INVOICE # 10028
DATE 08/16/2021
DUE DATE 08/16/2021
TERMS Due on receipt

PROJECT #
21-2054

PROJECT NAME
40 High Meadow Dr.

DATE	ACTIVITY	AMOUNT
08/17/2021	Inspection:Consultation Structural observation, analysis, and written report	775.00

BALANCE DUE **\$775.00**