



September 2, 2022

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Reference: Engineering Services  
153 Topsail Dr.  
Angier, NC 27501  
TE&D Project No.: 2201-020790

To Whom It May Concern;

As requested, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to observe the following item(s):

- 1) Assessment of the unpermitted 10'-0" x 11'-3" mudroom addition between the kitchen and the garage with regards to compliance with the applicable provisions of the 2018 North Carolina Residential Building Code.

The following conclusions and recommendations were noted:

- 1) We observed the floor of the mudroom to be framed with 2 x 8 joists at 16" o.c. spanning a maximum of 10'-0" front to back and bearing on the 8" CMU foundation wall. The ceiling was framed with 2 x 6 joists at 16" o.c. spanning a maximum of 10'-0" front to back and bearing the front and rear load bearing walls. The roof was framed with 2 x 6 rafters at 16" o.c. spanning a maximum of 6'-0" front to back and bearing on the front and rear load bearing walls. The 9'-0" wide opening between the kitchen and the mudroom was framed with a (2) 1-3/4" x 11-7/8" LVL beam with (2) 2 x 4 jacks and (2) 2 x 4 king studs at each end. The stud columns were blocked solid to the existing 8" CMU foundation wall below.

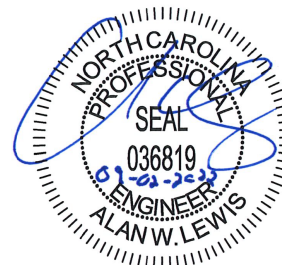
Based on our observations and analysis, the framing of the unpermitted mudroom addition provides the required support for the anticipated loading conditions and meets the applicable provisions of the 2018 North Carolina Residential Building Code. The existing floor system meets the required 40psf live load and 10psf dead load as specified in the 2018 North Carolina Residential Building Code.

We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,  
Tyndall Engineering & Design

Tripp Amos  
BH | 2201-020790

Alan W. Lewis, P.E.





Unpermitted Mudroom



