



Wise Engineering
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April 11, 2019

Raphael Locklear

Subject: Lewis Residence – 202 Broad Lake Ln., Spring Lake, NC

Mr. Locklear,

I have reviewed the framing layout for the Lewis Residence. Specifically, I reviewed the Steel Beam as shown on the 2nd floor layout.

The steel beam as shown supports the roof (trusses), a wall, floor truss girders, as well as floor trusses. It spans approximately 22 ft. Based on my analysis, the beam (W16x67) is adequately sized as shown on the floor layout. It should be supported on each end with a 5 inch steel column as shown on the plans.

The analysis and design of the steel beam outlined above is in accordance with the requirements of the 2018 NC State Residential Building Code. If you need additional information or have other questions, please let us know.

Sincerely,

Randy K. Wise, PE

