



Wise Engineering  
3915 Old Fairground Rd.  
Angier, NC 27501  
(919)894-2203

March 29, 2021

Dustin Blackwell

Subject: Lot 4 Patterson – Halifax II plan by Haynes Home Plans, Inc

Mr. Blackwell,

At your request, I reviewed the Halifax II plan being constructed at Lot 4 Patterson. Specifically, I reviewed the point loads from the truss girder bearing on the monolithic slab footing.

Based on by review and analysis, the point load created by the truss girder exceeds the allowable load for a point load on the outer footing on the left side of the home. In lieu of directly bearing the truss girder on a stud column in this location, install a 3' long (2)1.75"x9.25" LVL "header", directly under the truss girder, such that the truss girder is centered over the header. The header should be supported on each end by a minimum of (3) studs. Studs may be placed within the 3' opening created by the header but should be single studs. The header will distribute the point load to a wider area, thus distributing the load to allowable forces. The opposite end of the truss girder bears on a corner of the slab footing (adjacent to the entryway). Based on the distribution of loads in multiple directions due to the corner loading, it is adequately sized to support the load on that end.

If you need additional information or have other questions, please let me know.

Sincerely,

Randy K. Wise, PE

