



November 3, 2023

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Reference: Engineering Services
88 Ashton Lane
Angier, NC 27501
TE&D Project No.: 2301-021018

To Whom It May Concern;

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

- 1) Analysis of existing covered porch ridge.

The following conclusions and recommendations were noted:

- 1) We observed the existing covered porch ridge as consisting of a (2) 1-3/4" x 11-7/8" LVL beam spanning front to back. The ridge was supported at the rear by a 4 x 4 post. We were unable to verify the method of bearing at the front (i.e. how it bears at the existing home). Based on our observations and analysis, the existing ridge will be adequate to support the anticipated loading conditions provided that (1) of the following modifications are made:
 - a. The ridge is to be verified as bearing on minimum (2) 2 x 4 jacks or 4 x 4 post at the front of the porch (i.e. the existing house). In addition, the existing (3) window opening is to be verified as having (2) 2 x 4 stud pockets to allow full transfer of loading to the existing foundation below.
 - b. In lieu of option 1a, new 2 x 6 at 16" o.c. collar ties are to be installed positioned 1'-0" from the bottom of the ridge. Collar ties are to be fastened to the existing rafters with (4) SDWS screws at each end. The existing 2 x 4 collar ties with (6) nails at each end are inadequate to support the anticipated loading conditions.

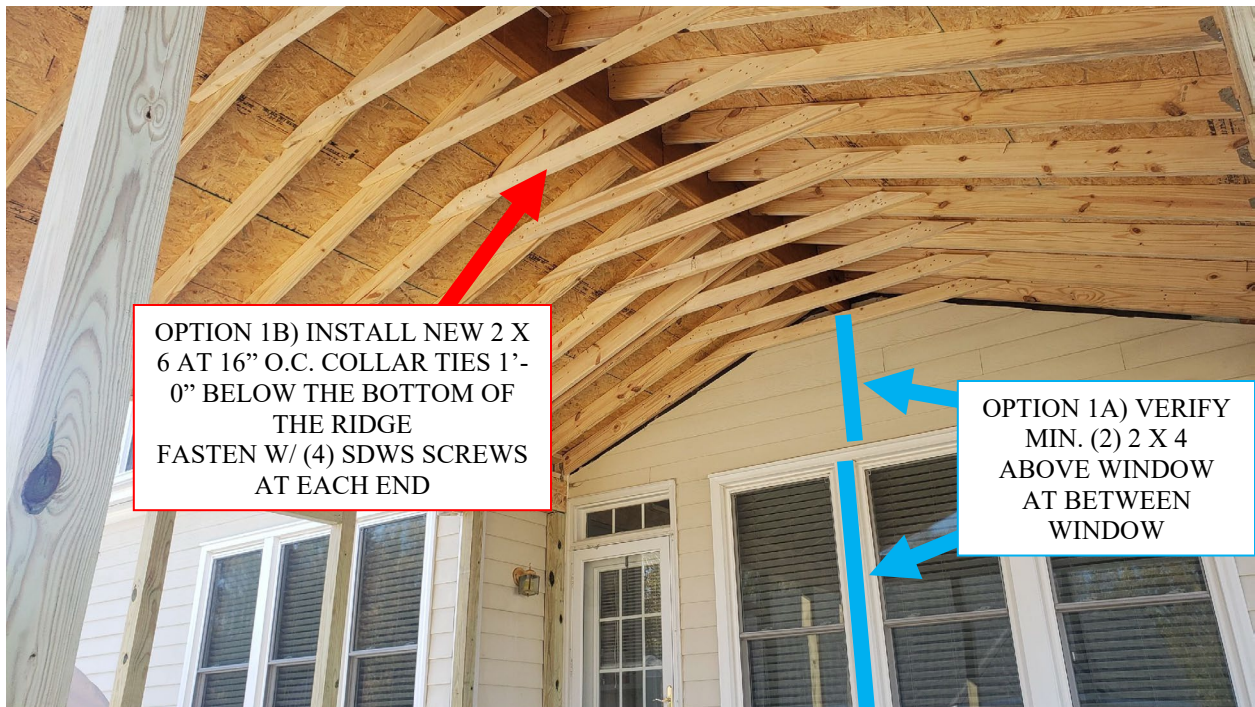
Upon completion, the above-mentioned modifications will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design

Tripp Amos
PT III | 2301-021018

Prentice Tyndall Jr., P.E.





OPTION 1B) INSTALL NEW 2 X 6 AT 16" O.C. COLLAR TIES 1'-0" BELOW THE BOTTOM OF THE RIDGE FASTEN W/ (4) SDWS SCREWS AT EACH END

OPTION 1A) VERIFY MIN. (2) 2 X 4 ABOVE WINDOW AT BETWEEN WINDOW

Ridge analyzed and recommendations per items 1a and 1b