



October 25, 2024

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Reference: Engineering Services
1604 Brick Mill Road
Coats, NC 27521
TE&D Project No.: 2401-020919

To Whom It May Concern;

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

1. Assessment of existing collar ties for vaulted porch roof.

The following conclusions and recommendations were noted:

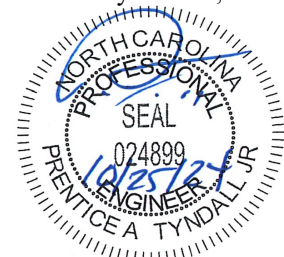
1. We observed the porch roof as consisting of 2 x 8 at 16" o.c. collar ties positioned approximately 1'-8" below the existing ridge. Collar ties were fastened with nails. Based on our observations and analysis, the existing configuration is inadequate to support the anticipated loading conditions. We recommend the following:
 - a. Several collar ties were missing at the front of the porch roof. The 2 x 8 at 16" o.c. collar ties are to extend to the frontmost point of the new ridge (i.e. to the end of the roof overframe). Collar ties are to be positioned 1'-8" below the ridge.
 - b. The method of attachment is inadequate. We recommend fastening each end of the collar ties to the rafters with (4) SDWS screws.

Upon completion, the above-mentioned recommendations 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 | 2401-020919

Prentice Tyndall Jr., P.E.





Example of existing collar ties



Example of collar ties to be installed per item 1.a of report