



SMITH ENGINEERING AND DESIGN, P.A.

Mr. Jose Villegas
1335 Live Oak Rd.
Coats, NC 27521

October 17, 2025

Re: Structural Inspection
1305 Live Oak Rd.
Coats, NC 27521

Dear Mr. Villegas,

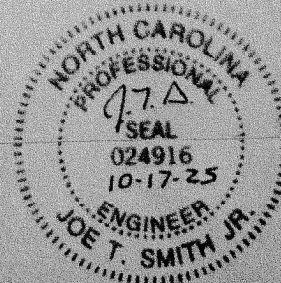
Per your request, I have inspected the existing residential storage shelter constructed at the above referenced location. The 30'-0" x 40'-0" storage shelter is primarily an open air structure with two partial walls. The structure is located in a 120-mph wind zone in Harnett County, NC. The purpose of the inspection was to evaluate the foundation and framing for structural integrity within accepted engineering practices and for compliance with the NC Residential Code. At the time of inspection, framing was generally complete. The following is a list of general construction methods used:

- Foundation consists of 6"x 6" post embedded in a 12" diameter concrete footing approximately 42" deep.
- 6"x 6" x 11'-6" tall treated posts are spaced 10'-0" on center. Triple 2"x 10" beams are attached to the top of the posts with (2) 5/8" diameter thru bolts.
- Pre-engineered roof trusses spanning 30' and spaced at 24" on center are fastened to the beams with 16d nails and hurricane clips. Metal roof panels are installed on 2"x 4" purlins spanning across the trusses.
- A 10' section of wall constructed with 2" x 4" wall studs at 24" on center and sheeted with metal wall panels create a "braced bay" along both sidewalls of the structure.

Upon inspection, it is my professional opinion that the construction of the above described building has been constructed to date in a satisfactory manner and that the structural members are adequate to support the required design loads as prescribed by the North Carolina Residential Code for this site. The inspection and analysis were of a structural nature only and was not inspected for complete compliance with the North Carolina Residential Code or local ordinances. If I may be of further assistance, please feel free to call me.

Respectfully,

Joe T. Smith, Jr., P.E.
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