

# Joseph D. Hiller Engineering, LLC

## Structural Engineering

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Thursday, August 31, 2023

Subject Property: XXXXXXXXX

### Re: Structural Engineering Assessment – XXXX Residence

To whom it may concern:

On August 23, 2023, a structural inspection was conducted at the request of Pegasus Engineering and the City of New Smyrna Beach. The subject property was constructed in 1974 and is a one-story wood structure on a concrete slab foundation. The house has a low-sloped hip roof with asphalt shingles. The house consists of a 1120 square foot main living area with a 336sq ft one-car car garage with a 40sq ft addition, and a finished screened porch in the rear.

The purpose of the inspection was to determine if the structure and foundation are suitable for lifting, using Standard ASCE 24-14 and the Engineering Principles and Practices for Retrofitting Flood-Prone Residential Structures.

Observations during inspection include a separate concrete slab for the screened room and a bathroom addition at the rear of the house. This addition is documented on the county's property appraiser's reports as finished utility. No other issues were identified.

The soil at the subject property is fill material, poorly-graded S(S) according to ASCE Soil Classification and (SP) in the Unified Soil Classification System (ASTM D2487-17). No lab testing was utilized. Visual classification of soils (ASTM D 2488) was used to determine classification based on the analysis of color, odor, moisture, and maximum particle size of the entire sample. The estimated percentage of fines was determined to be less than 5%.

All comments made are based on conditions seen at the time of this visual observation. We do not accept any responsibility for unknown or unknowable conditions within the existing site or structures.

During the inspection, no structural deficiencies were observed and the foundation of the home appears to be in excellent condition. After inspecting the subject property, it is my professional opinion that this house can be lifted.



Joseph Hiller, P.E.

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P.O. Box 290855

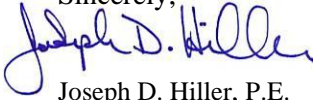
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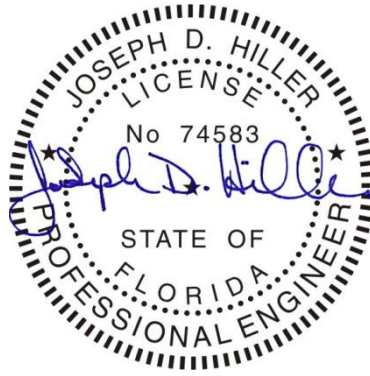
[hillerengineering@gmail.com](mailto:hillerengineering@gmail.com)

Please let me know if you have any questions or concerns regarding this report.

Sincerely,



Joseph D. Hiller, P.E.  
Florida PE Lic# 74583



**Photos**

Screened-in porch on separate slab.