

June 11, 2025

Mr. Rich Sherman
New Home Inc.
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**Report of Footing Examination
Ballard Road Subdivision – Lot 192-4
1891 Ballard Road
Permit Number: SFD2505-0159
Fuquay-Varina, North Carolina
Our Project Number 121-25-116631**

Gentlemen:

As requested, our representative was present onsite on June 3, 2025, to test the shallow subsurface soils of the footing excavations of Lot 192-4 of the residential home located at 1891 Ballard Road in Fuquay-Varina, North Carolina. Based upon our understanding of the planned residential construction, we have assumed an allowable soil bearing capacity of 2,000 pounds per square foot (psf).

Our testing consisted of visual observations, hand rod probing, and dynamic cone penetrometer testing in accordance with ASTM STP-399 at selected locations to a maximum depth of 3 feet below the bearing surface. Our scope did not include mechanically drilled soil test borings to evaluate deeper subsurface soil conditions that could affect foundation support. Deeper borings can be provided, if desired. The results of the footing examinations indicated that the design bearing pressure of 2,000 pounds per square foot (psf) should be available at the locations and depths tested at the time of our investigation.

Exposure to the environment, especially rainfall, may weaken the soils at the foundation bearing surface, if they are exposed for extended periods of time prior to concrete placement. If the foundation bearing surface becomes softened due to exposure, the soft soils should be removed prior to placement of concrete.

Based on the measurements obtained by our representative, the footing widths and depths were prepared per the approved structural plans provided onsite and were in compliance with Chapter 4, Sections R403.1.1, R403.1.4, and Table R403.1 of the 2018 North Carolina Residential Building code. Additionally, depth pins were observed to be set in accordance with the approved plans.

If you have any questions concerning this information, please contact us.

Sincerely,

NV5 Engineers and Consultants, Inc. (F-1333)



William B. Strayhorn, P.G.
Senior Registered Geologist

Justin R. Pescosolido, P.E.
Principal Geotechnical Engineer

