

September 6, 2024

Mr. Rich Sherman  
New Home Inc.  
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**Report of Footing Examination  
Duncan's Creek - Lot 16  
181 Beacon Hill Road  
Lillington, North Carolina  
Our Project Number 121-22-110410**

Gentlemen:

As requested, our representative was present onsite on August 26, 2024, to test the shallow subsurface soils of the footing excavations of Lot 16 of the residential home located at 181 Beacon Hill Road in Lillington, 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.

Based on our observations and the results of our testing, soft, wet soils were encountered to a depth of approximately 6 inches and 3 feet below the excavated foundation bearing surface in the front right and front left corners, respectively, of the footing (as viewed from the street). We recommended that the soft, wet soils be removed to the above-referenced depths and backfilled with washed #57 stone wrapped in non-woven geotextile fabric. After these remedial measures are performed, the design bearing pressure of 2,000 pounds per square foot (psf) was 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.

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

Sincerely,

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



William M. Cruikshank, E.I.  
Project Manager

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

