June 16, 2025

Mr. Rich Sherman
New Home Inc.
rich.sherman@newhomeinc.com

Report of Footing Examination
Duncan's Creek - Lot 43
793 Beacon Hill Road
Lillington, North Carolina
Our Project Number 121-22-110410

Gentlemen:

As requested, our representative was present onsite on June 12, 2025, to retest the shallow subsurface soils of the footing excavations of Lot 43 of the residential home located at 793 Beacon Hill Road in Lillington, North Carolina due to recent rainfall. 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 below the excavated foundation bearing surface of the front footing line and central column footing and to a depth of approximately 2 feet below the excavated foundation bearing surface of the back left corner of the footing (as viewed from the street). We recommended that the soft, wet soils be removed to the above-referenced depth and backfilled with washed #57 stone wrapped in non-woven geofabric. After these remedial measures are performed, 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.

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

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

Digitally signed by William Cruikshank
Date: 2025.06.16 13:16:09-04'00'

William M. Cruikshank, P.E.
Geotechnical Engineer

NORTH CAROLINA PROFESSIONAL SEAL 060187 ENGINEER WILLIAM M. CRUIKSHANK

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