

October 29, 2025

Mr. Chris Niehr
 Mattamy Homes
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**Report of Footing Examination
 Bloom Subdivision – Lot 3
 Fuquay-Varina, North Carolina
 Our Project Number 121-25-117031**

Gentlemen:

As requested, our representative was present onsite on October 2, 2025, to test the shallow subsurface soils of the footing excavations in the area of the residential home located at the above referenced project. 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 right and back left corners of the footing line (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 or additional concrete. 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)

William M. Cruikshank
 Geotechnical Engineer




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