



August 30, 2022

Mr. David Hoops  
Mattamy Homes  
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**Report of Footing Excavation Examination  
Bent Tree Subdivision – Lot 108  
1511 Matisse Drive  
Fuquay Varina, North Carolina  
Our Project Number 121-19-91471**

Gentlemen:

As requested, a representative of NV5 Engineers and Consultants, Inc. (f.k.a. TerraTech Engineers) was present onsite on August 22, 2022, to test the shallow subsurface soils of the footing excavations in the area of Lot #108 located at 1511 Matisse Drive at the above referenced project. Based upon our understanding of the planned residential construction, we have assumed a required 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. For our evaluation of deeper soil conditions, please refer to our Geotechnical Report, dated October 11, 2017. Our representatives were also periodically present during site development activities. Based on our observations at the site, and a review of the site grading plans, little to no fill soils were placed on this lot. The results of the footing examinations indicate that the required soil bearing capacity 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 do not hesitate to call.

Sincerely,

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

William B. Strayhorn, P.G.  
Project Manager

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

