

January 14, 2025

Cameron Mackethan  
Signature Home Builders

Re: Slab Subgrade  
81 Reece Drive  
Sanford, North Carolina

Mr. Mackethan,

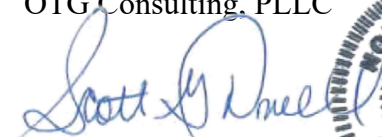
OTG Consulting, PLLC (OTG) was requested to visit the subject site above to observe the slab subgrade prior to placement of concrete. OTG was onsite on January 10, 2025.

A hand auger was used to advance the boreholes to depths of 3 feet below the bottom of the slab subgrade. Dynamic Cone Penetrometer (DCP) test were performed in the hand auger boreholes by a 1.5 inch diameter cone driven into the soil by a 15 pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil a distance of 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger.

A total of four (4) hand auger/DCP evaluation(s) were performed to a depth of approximately 3 feet below the current subgrade elevations. In between the DCP test locations, we evaluated the bearing soils using a 4-foot, steel-tipped fiberglass probe rod. It is to the opinion of OTG Consulting, PLLC that the materials in place at test locations within the slab subgrade, at the areas and depths tested, are capable to support the slab-on-grade and have a bearing capacity of 2,000 psf.

We appreciate the opportunity to help you with this. Should you have any questions or need additional information, please contact me at your earliest convenience. We can be reached at 336-414-1179 or at [otgconsulting37@gmail.com](mailto:otgconsulting37@gmail.com).

Sincerely,  
OTG Consulting, PLLC

  
Scott G. Dowell, PE  
President  
NC PE License No. 037387



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