

September 12, 2023

Mr. Ed Sienkiewicz
New Home, Inc.
1611 Jones Franklin Road, Suite 101
Raleigh, North Carolina 27606



**Subject: Summary of Foundation Bearing Material Evaluation & 3rd Party Inspection
Lot No. 26 – (238 Salem Village Drive)
Woodbridge South Subdivision
Fuquay-Varina, North Carolina
Permit Number: 2307-0025
Project Number: 9747.F0002 (39033-00)**

Dear Mr. Sienkiewicz:

On September 12, 2023, SUMMIT Engineering, Laboratory and Testing, Inc. (SUMMIT) visited the subject site for the purpose of observing and evaluating the near surface foundation bearing materials and to perform a third-party inspection for the proposed residential footings. The following is a summary of our onsite observations and evaluation.

The exterior and interior wall foundations, lugs, and rear deck footings were prepared per the structural plans provided onsite. Based on our site observations, the exterior and interior footings and lugs were prepared per the structural plans provided onsite and are in compliance with Chapter 4 of the 2018 North Carolina Residential Code.

Our work included testing and bearing grade evaluations of the in-place soil at the bottom of the foundation excavations. Hand auger borings were incrementally advanced by manually twisting a sharpened steel auger into the soil at selected locations along the footing excavation. The soil consistency in the bottom of the excavation and at selected intervals below the bearing grade was evaluated by Dynamic Cone Penetrometer (DCP) testing. The conical point of the DCP was first seated to penetrate any loose cuttings and then driven three additional 1-3/4 inch increments with blows from a 15-pound hammer falling 20 inches. The soil's strength characteristics and foundation support capability was determined based on the average blows per increment (bpi) over the last two increments to achieve this penetration. Additionally, the entire excavated foundation was evaluated by hand probing using a ½ inch diameter steel probe rod to check for soft areas at the surface intermediate of our hand auger boring locations.

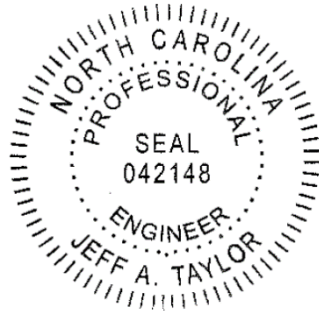
The materials encountered in our hand auger borings generally consisted of brown, sandy-clay (residual soils) and were free of significant quantities of organics and debris. If additional testing for the purpose of estimating volumetric change (shrink/swell) potential or to estimate consolidation of the tested soils is desired, **SUMMIT** can provide these services.

Based on the results of our DCP testing, hand probing, and our site observations, the soils encountered are suitable for support of the residential structure utilizing a net allowable soil bearing pressure of **2,000 pounds-per-square-foot**. Concrete is ready to be placed for the foundation areas.

If foundation bearing materials are exposed to inclement weather or adverse construction activities, **SUMMIT** should be contacted to re-evaluate the foundation bearing materials prior to concrete placement.

SUMMIT appreciates the opportunity to provide our professional services to you on this project. If you have any questions concerning the information in this report or if we can be of further service, please contact us.

Sincerely,
SUMMIT Engineering, Laboratory and Testing, Inc.



Jeff A. Taylor, P.E.
Geotechnical Engineer

A handwritten signature in black ink, appearing to read "Adam D. Perry".

Adam D. Perry, E.I.
Staff Professional