Subject:	Summary of Foundation Bearing Material Evaluation & 3rd Party Inspection
	Lot No. 19 – (400 Shelby Meadow Lane)
	Honeycutt Hills Subdivision
	Angier, North Carolina
	Permit Number: 2506-0051
	Project Number: 3241-14R (43416-00)
	Order No.: N/A

Dear Mr. Bentley:

On October 15, 2025, a representative of UES Professional Solutions 29, Inc. (**UES**) visited the subject site for the purpose of observing the near surface foundation bearing materials and to perform a third-party foundation inspection for the proposed residential structure. The following is a summary of our onsite observations and evaluation.

The residential footings were excavated approximately 18 inches wide and approximately 12 inches below the existing ground surface. We observed that the exterior and interior wall foundations and lugs, including the rear deck footings, were prepared per the structural plans provided onsite.

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 exposed at the bottom of excavations generally consisted of orange-tan and gray, sandy-clay (fill soils). It should be noted that organic laden soils were encountered to approximate depths ranging from 2 to 4 feet below the planned foundation bearing elevation along the left exterior wall footing line and nearby lug footings. We remained onsite and observed that the recommended over-excavations had been completed. We recommend backfilling the over-excavated areas with full depth concrete. If additional testing for the purpose of estimating volumetric change (shrink/swell) potential or to estimate consolidation of the tested soils is desired, **UES** can provide these services.

UES tested the four exterior wall corners of the residential foundation and fill soils were encountered to a minimum approximate depth of 3 feet below the foundation bearing elevation. **UES** assumes that the fill placement was observed and tested to verify that the fill material was placed and compacted properly. Based on the results of our DCP testing, the completed remedial measures, and the assumption that the fill placed throughout the building pad is similar or better than the properly compacted fill material encountered in the hand auger borings, 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**. The foundation bearing soils are in accordance with the HUD requirements.
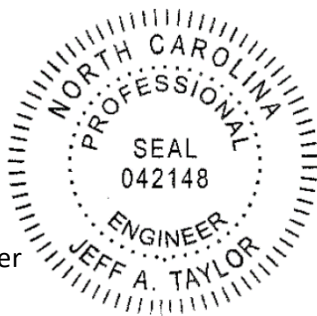
If foundation bearing materials are exposed to inclement weather or adverse construction activities, **UES** should be contacted to re-evaluate the foundation bearing materials prior to concrete placement.

We appreciate the opportunity to assist you during this phase of the project. If you need further assistance or additional information please do not hesitate to contact us.

Sincerely,
  UES Professional Solutions 29, Inc.

Jeff A. Taylor, P.E.   Adam D. Perry, E.I.
Geotechnical Engineer   Staff Professional