

H & H Homes
2919 Breezewood Avenue
Suite 400
Fayetteville, NC 28303

04/25/2022

Attention : Calvin King
Jimmy Barnard

RE: Daily Field Report for 04/22/2022
Lot 69 Oakmont OKM (CMT) Lillington, NC
Building & Earth Project No : RD220268

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

FO-1 : Field Observations made on this date.

- Lot Observations
- Project Management Review

Passed
Passed

Closing

The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.

Respectfully Submitted,
Building & Earth Sciences, LLP

Enclosures : FO-1



Rachael Heath

Reviewed By

Field Observations Report

Project Name: **Lot 69 Oakmont OKM (CMT) Lillington, NC** Project Number: **RD220268**
Client Name: **H & H Homes** Placement#: **FO-1**
Contractor: **H & H Homes** Technician: **Frank Hamlin**
Monitoring: **Shallow Footing Testing**

1 : Lot Observations

Passed

We arrived onsite to evaluate the building pad area for this residential lot. We understand the residence has been designed to be supported on a Stem Wall foundation lot before the foundations were excavated. Upon arrival, the contractor had not finished excavating the footings. Our evaluation as documented in this report includes:

- 1) A visual description of the residential lot
- 2) Comments on any improvements that hat affect the foundations of the residence
- 3) Hand rod probing of the footing excavations
- 4) Performing Dynamic Cone Penetration (DCP) tests at representative locations
- 5) Soil Density tests on fill, if applicable.

Visual Description of the Lot:

The site slopes downward from Right to Left. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 2-3 feet. Surface water runoff appears to drain in the drainage ditch along the roadway.

Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 4 inches of topsoil has been removed from the building pad area.

No structural fill has been placed at the site to level the building pad. Based on our observations, we understand the pad has been cut to grade:

Measurements:

- 1) How far is the nearest slope from the edge of the foundation? 15'

Future Footing Tests

Hand Rod Probing: Our representative performed hand rod probing of the surface of the building pad. Hand rod probing of the bearing material generally showed an average penetration of approximately 1-2 inches.

DCP Testing: Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at four representative locations to a depth of 36 inches. Our representative did not observe water within the DCP boreholes as noted below.

The following information provides the results of our hand auger borings and DCP testing:

Test 1: [Front Left Corner]

-- Depth---"N"-----Soil Color---USCS-----
--- FSG ---- 13 ---- Light Tan -- SM -----
--- -1' ----- 12 ---- Light Tan ---- SM -----
--- -2' ----- 8 ----- Light Tan ---- SM ----
--- -3' ----- 8 ----- Light Tan ---- SM ----

Test 2: [Back Left Corner]

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-- Depth----"N"-----Soil Color---USCS-----
--- FSG --- 15+ --- Light Tan -- SM -----
--- -1' ----- 12 ----- Light Tan ---- SM -----
--- -2' ----- 8 ----- Light Tan ----- SM ----
--- -3' ----- 8 ----- Light Tan ----- SM ----

Test 3: [Back Right Corner]

-- Depth----"N"-----Soil Color---USCS-----
--- FSG --- 15+ --- Light Tan -- SM -----
--- -1' ----- 15+ ----- Light Tan ---- SM -----
--- -2' ----- 9 ----- Light Tan ----- SM ----
--- -3' ----- 7 ----- Light Tan ----- SM ----

Test 4: [Front Right Corner]

-- Depth----"N"-----Soil Color---USCS-----
--- FSG --- 15+ --- Light Tan -- SM -----
--- -1' ----- 13 ----- Light Tan ---- SM -----
--- -2' ----- 10 ----- Light Tan ----- SM ----
--- -3' ----- 7 ----- Light Tan ----- SM ----

Results:

Based on our observations and test results, the newly placed fill appear to be suitable to provide support for the floor slab and footings, provided the floor slab has a loading of less than 150 pounds per square foot, and the footings have a design bearing capacity of 2,000, or less.

2 : Project Management Review

Passed

Our client has authorized Building & Earth Sciences to perform an evaluation of the prepared building pad for this project. The structure will have a stem wall foundation. It appears that no structural fill soils have been placed to achieve the slab grade.

Our evaluation included hand rod probing the entire area for consistency and performing hand auger borings with DCPs. Based upon our hand rod probing, the surface soils are firm and resistant to penetration. At selected locations, hand auger borings were advanced at 2 locations. At 12-inch increments in the hand auger boring, to a depth of 3 feet, Dynamic Cone Penetrometer (DCP) Testing was performed in accordance with ASTM STP-399. Based upon our testing, the soils below the surface have a bearing capacity of 2,000 psf at the locations tested.

Note: inclement weather (rain or snow), as well as construction traffic across the pad, can compromise the stability and support characteristics of the surface soils. If the surface soils become compromised, it will be necessary to return to the site for re-testing. This decision should be executed by your onsite Quality Control and Superintendents.

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Monitoring:	Shallow Footing Testing		

Photographs

Picture ID	Lot 69
40948	 <p style="text-align: right; font-size: 2em; color: white; background-color: blue; padding: 5px; border-radius: 10px; display: inline-block;">Lot 69</p>
40949	 <p style="text-align: right; font-size: 2em; color: white; background-color: blue; padding: 5px; border-radius: 10px; display: inline-block;">Lot from street view</p>



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Photographs

Picture ID	Hand Auger FL Corner
40950	
Picture ID	Hand Auger BR Corner
40952	

Rachael Heath

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