A & G Residential
916 Arsenal Ave
Suite B
Fayetteville, NC 28305

01/15/2021

Attention : Chad Stewart
Jamie Godwin

RE: Daily Field Report for 01/15/2021
Lot 20 Mitchell Manor (CMT) Neills Creek, NC
Building & Earth Project No : RD200835

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-3 : Field Observations made on this date.

• Foundation Inspection	Passed
• Project Management Review	Passed

ST-3 : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTMD1556, using values from the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

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-3, ST-3

610 Spring Branch Road
Dunn, NC 28334
Phone 910-292-2085 Fax 910-292-2192
www.BuildingandEarth.com

Rachael Heath
Reviewed By

Field Observations Report

Project Name:	**Lot 20 Mitchell Manor (CMT) Neills Creek, NC**	Project Number:	**RD200835**
Client Name:	**A & G Residential**	Placement#:	**FO-3**
Contractor:	**A & G Residential**	Technician:	**Yassir Abdelwahab**
Monitoring:	**DCP**		

1 : Foundation Inspection Passed

We arrived onsite to evaluate the building pad area for this residential lot# 20. Our evaluation as documented in this report includes:

Visual Description of the Lot:

The site slopes downward from front to back. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 2 feet. Surface water runoff appears to drain towards the back of the lot.

Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 3-5 inches of topsoil has been removed from the building pad area.

Structural fill has been placed at the site to level the building pad.

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 4 inches.

DCP Testing: Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at two 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

Test 1: [Porch Center]

-- Depth----"N"------Soil Color--------USCS-------
--- FSG -----6------ Grey---------- SC/SM --------
--- -1' ----- 7------- Grey---------- SC/SM---------
--- -2' ---- 10------ Grey---------- SC/SM-----
--- -3' ---- 10------ Grey---------- SC/SM-----

Soil Density Testing:

Soil density testing was performed using the sand cone method of compaction in general accordance with ASTM D1556. The results of our tests are attached as ST-3.

2 : Project Management Review Passed

On this date, our representatives returned to the site for re-testing. Based upon our re-testing, the recommended repairs have been accomplished, and the porch is now acceptable for the placement of concrete.

Field Observations Report

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Monitoring:	**DCP**		

Additionally, 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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Rachael Heath
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BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

ST-3

Test Date: 01/15/2021
Field Technician: Yassir Abdelwahab
Tests requested by: N/R
Results provided to: N/R

Report of Field Density Testing

Project Name:	Lot 20 Mitchell Manor (CMT) Neills Creek, NC	Ambient Temperature:	40-50
Project Number:	RD200835	Weather:	Mostly Sunny
Project Location:	Neills Creek, NC	Wind Conditions:	Moderate
Client:	A & G Residential	Results Provided To:	N/R
Contractor:	A & G Residential	Superintendant:	N/R

Notes:
1 Test location by technician
2 Elevation by Contractor
3 Fill/backfill placed prior to technician arriving

Design & Specification Data

Area ID	Area Description	Depth (ft)	Test Method	% Compaction	Moisture Range	
					Min	Max
FSG-Bldg	Finished Subgrade Soils -Building	0.0 - 2.0	ASTM D-698	95 %	- 10.0	+ 10.0

Laboratory Proctors

Proctor ID	Description of Material	USCS/AASHTO	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
1-point			117.0	12.0%

Density Test Data

Test #	IDs		Test Type	Location	Probe Depth (in)	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor								
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Building Pad- porch Porch center :		FSG	111.2	12.9	95%	PASS

Equipment Used:
Last Calibration:
Standard Counts:
Density:
Moisture:

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