

Dream Finders Homes-Carolinas  
2919 Breezewood Avenue  
Suite 400  
Fayetteville, NC 28303

05/12/2025

Attention : Blake Dickerhoff  
Chris Adams

**RE:** Daily Field Report for 05/10/2025  
Lot 567 Creekside Oaks North (CMT) Lillington, NC  
Building & Earth Project No : RD250425

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.

- Foundation Inspection
- Project Management Review

Passed  
Passed

**ST-1** : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTM D6938, 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-1, ST-1



*Rachael Heath*

Reviewed By

## Field Observations Report

Project Name:	<b>Lot 567 Creekside Oaks North (CMT) Lillington, NC</b>	Project Number:	<b>RD250425</b>
Client Name:	<b>Dream Finders Homes-Carolinas</b>	Placement#:	<b>FO-1</b>
Contractor:	<b>Dream Finders Homes-Carolinas</b>	Technician:	<b>Richard Stanek</b>
Monitoring:	<b>DCP</b>		

### 1 : Foundation Inspection

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 monolithic slab foundation. Our evaluation as documented in this report includes:

- 1) A visual description of the residential lot
- 2) Comments on any improvements that 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 lot is relatively flat. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 1 foot. Surface water runoff appears to drain to the front.

#### Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 4-6 inches of topsoil has been removed from the building pad area.

Structural fill has been placed at the site to level the building pad. Based on our observations, we understand the pad has been filled according to the following:

Section-----	Thickness of Fill
Left Front-----	12 inches of fill
Left Rear-----	12 inches of fill
Center-----	12 inches of fill
Right Front-----	12 inches of fill
Right Rear-----	12 inches of fill

#### Measurements:

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

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 testing:

#### Test 1: [Front Right Corner]

-- Depth----	"N"-----	Soil Color---	USCS-----
-- FSG ----	8.5 ----	Red ----	SC -----
-- -1' ----	15+ ----	Light Brown ----	SM -----
-- -2' ----	15+ ----	Light Brown ----	SM -----
-- -3' ----	15+ ----	Brown ----	SM -----

## Field Observations Report

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Client Name:	<b>Dream Finders Homes-Carolinas</b>	Placement#:	<b>FO-1</b>
Contractor:	<b>Dream Finders Homes-Carolinas</b>	Technician:	<b>Richard Stanek</b>
Monitoring:	<b>DCP</b>		

### Test 2: [Back Left Corner]

--- FSG ---- 11 ---- Red ---- SC ----  
--- -1' ---- 15+ ---- Light Brown ---- SM ----  
--- -2' ---- 15+ ---- Brown ---- SM ----  
--- -3' ---- 15+ ---- Red ---- SM ----

### Soil Density Testing:

Soil density testing was performed using the Aggregate by Nuclear Methods in general accordance with ASTM D6938. The results of our tests are attached as ST-1.

### Results:

Based on our observations and test results, the newly placed fill/existing soils 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. We understand that the structure will have a monolithic slab-on-grade floor system that will have foundations and a floor slab that will be supported by the newly placed structural fill soils. It appears that between 1 and 1.5 feet of structural fill soils have been placed to achieve the desired grades. The intent of our testing was to determine if the newly placed structural fill soils are adequate to provide a bearing capacity of 2,000 psf for the foundations, and have been compacted to 95% to support the floor slab for the new structure.

Our evaluation included hand rod probing, advancing hand auger borings with DCPs and performing a density test on the surface. Based upon our hand rod probing the newly placed soils are firm and resistant to significant penetration. Hand auger borings were then advanced at 2 selected location across the building envelope to determine the consistency of the below grade soils. 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. With proper evaluation, DCP Testing can be correlated to both bearing capacity and percent compaction. Based upon the results of this testing, the below grade soils that will support the foundations and floor slab are acceptable.

While on site, our representative also performed in place density testing to confirm compaction of the surface soils. Our testing was performed using the sand cone method in general accordance with ASTM D-1556. Our results were compared to an in-field proctor that was performed in general accordance with ASTM D-698. Based upon our tests results, the soils have been properly compacted at the surface.

It is important to note that our testing was isolated to the upper 3 feet. As such, we are not able to comment upon the settlement characteristics of deeper soils. 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.

## Field Observations Report

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Contractor:	<b>Dream Finders Homes-Carolinas</b>	Technician:	<b>Richard Stanek</b>
Monitoring:	<b>DCP</b>		

### Photographs

Picture ID	Site
106589	
106590	



ST-1

Test Date: 05/10/2025  
Field Technician: Richard Stanek  
Tests requested by: N/R  
Results provided to: N/R

### Report of Field Density Testing

Project Name: Lot 567 Creekside Oaks North (CMT)  
Lillington, NC  
Project Number: RD250425  
Project Location: Lillington, NC  
Client: Dream Finders Homes-Carolinas  
Contractor: Dream Finders Homes-Carolinas

Ambient Temperature: 60-80  
Weather: Mostly Sunny  
Wind Conditions: Breezy  
Results Provided To: N/R  
Superintendent: N/R

Notes: 1 Test location by technician  
2 Elevation by Technician  
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			117.8	13.0%

### 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	ASTMD6938	Finished Subgrade Soils -Building : Front right corner	6	FSG	115.8	8.5	98%	PASS

Equipment Used: 33548-Troxler3430  
Last Calibration: 10/23/2023

Standard Counts: Density: 2022  
Moisture: 672