

06/11/2025

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

Attention : Blake Dickerhoff Tyler Tew

RE: Daily Field Report for 06/11/2025 Lot 582 Creekside Oaks North (CMT) Lillington, NC Building & Earth Project No : RD250576

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.

• DCP's	Passed
<ul> <li>Project Management Review</li> </ul>	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 ASTMD1556, using the results of field one-point as compared to 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

Reviewed By

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# **Field Observations Report**

Project Name:	Lot 582 Creekside Oaks North (CMT) Lillington, NC	Project Number:	RD250576
Client Name:	Dream Finders Homes-Carolinas	Placement#:	FO-1
Contractor:	Dream Finders Homes-Carolinas	Technician:	Justin Jernigan
Monitoring:	DCP		

### 1: DCP's

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 sloped left to right. 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 to the right side.

Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 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-----24 inches of fill Left Rear-----24 inches of fill Center-----24 inches of fill Right Front------24 inches of fill Right Rear------24 inches of fill

Measurements:

1) How far is the nearest slope from the edge of the foundation? 5 Feet

Footing Test:

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 2-3 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 Center]

-- Depth----"N"-----Soil Color---USCS------

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MIN DIL



# **Field Observations Report**

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Client Name:	Dream Finders Homes-Carolinas	Placement#:	FO-1
Contractor:	Dream Finders Homes-Carolinas	Technician:	Justin Jernigan
Monitoring:	DCP		

--- FSG ---- 10 ----- Tan ----- SC --------- -1' ----- 15 ----- Tan ---- SC --------- -2' ----- 12 ----- Orange ----- SC -------- -3' ----- 15 ----- Orange ----- SC -----

Test 2: [Rear Center]

-- Depth----"N"------Soil Color---USCS--------- FSG ---- 11 ----- Tan ----- SC --------- -1' ----- 11 ----- Tan ---- SC -------- -2' ----- 13 ----- Orange ----- SC -------- -3' ----- 15 ----- Orange ----- SC -----

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-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.

Recommendations:

To minimize the potential for future softening of the bearing materials due to water infiltration, the surface soils should be protected from construction traffic and inclement weather. The construction of the footings and structure should commence without delay. In the event that the subgrade soils become wet, or otherwise compromised from their current condition, should be observed and retested as necessary by Building and Earth Sciences.

We note that our testing was isolated to the upper 3 feet of the soil profile from the finished subgrade elevation as observed on this date. As such, we cannot be aware of any soil or groundwater conditions below this depth that could adversely affect the support of the new construction. If additional information is required, please contact our office.

We are also not aware of any geotechnical work that may have been performed prior to our arrival onsite. If a geotechnical report is available, please forward it to our office for review. If no report is available, our client accepts all liability for long and short term performance of the foundations.

#### 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 2 feet of structural fill soils have been placed to

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	Field Observat	tions Report	
Project Name:	Lot 582 Creekside Oaks North (CMT) Lillington, NC	Project Number:	RD250576
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Contractor:	Dream Finders Homes-Carolinas	Technician:	Justin Jernigan
Monitoring:	DCP		

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 two 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.

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MIN DIL



	Field Observat	tions Report	
Project Name:	Lot 582 Creekside Oaks North (CMT) Lillington, NC	Project Number:	RD250576
Client Name:	Dream Finders Homes-Carolinas	Placement#:	FO-1
Contractor:	Dream Finders Homes-Carolinas	Technician:	Justin Jernigan
Monitoring:	DCP		

	Photographs
Picture ID	Front
108654	

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MIH OIL



	Field Observat	tions Report	
Project Name:	Lot 582 Creekside Oaks North (CMT) Lillington, NC	Project Number:	RD250576
Client Name:	Dream Finders Homes-Carolinas	Placement#:	FO-1
Contractor:	Dream Finders Homes-Carolinas	Technician:	Justin Jernigan
Monitoring:	DCP		

	Photographs
Picture ID	Rear
108655	<image/>

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ST-1

Test Date: 06/11/2025 Field Technician: Justin Jernigan Tests requested by: N/R

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         FSG-Bldg       Finished Subgrade Soils - Building       0.0 - 2.0       ASTM D-698       95 %       - 10.0       + 1         Proctor ID         Description of Material       USCS/AASHTO       Maximum Dry Density (pcf)       Optimum Moisture Content (%         1-point       USCS/AASHTO       Maximum Dry Density (pcf)       Optimum Moisture Content (%         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building : Location       Probe Depth (in)       Elev. (ft)       Dry Density(pcf)       % Moisture Compaction       Re         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building : Center of lot :       FSG       119.0       5.2       100+       PA         Equipment Used:       Standard Counts:       Density:	Project Name:       Lot 582 Creekside Oaks North (CMT) Lillington, NC       Ambient Temperature:       75-85         Project Number:       RD250576       Weather:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       Mostly Sunny         Client:       Dream Finders Homes-Carolinas       Results Provided To:       N/R         Notes:       1       Test location by technician       2       Elevation 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       % Compactic         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %         Laboratory Proctors	
Project Number:       Lillington, NC       Miniberit temperature:       //s-as         Project Number:       RD250576       Weather:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       Veather:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       N/R         Client:       Dream Finders Homes-Carolinas       Superintendent:       N/R         Notes:       1       Test location by technician       2       Elevation by Technician         3       Fill/backfill placed prior to technician arriving       Destign & Specification Data       Moisture         Area ID       Area Description       Depth (ft)       Test Method       % Compaction       Range         FSG-Bidg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %       - 10.0       + 1         Proctor ID       Description of Material       USCS/AASHTO       Maximum Dry Density (pcf)       Optimum Content (% Moisture Conten	Project Name:       Lillington, NC       Ambient Temperature:       75-65         Project Number:       RD250576       Weather:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       Imperature:       Mostly Sunny         Project Location:       Lillington, NC       Wind Conditions:       N/R         Client:       Dream Finders Homes-Carolinas       Results Provided To:       N/R         Notes:       1       Test location by technician       2       Elevation by Technician         2       Elevation by Technician       3       Fill/backfill placed prior to technician arriving         Design & Specification Data         Area ID       Area Description         Area Description       Depth (ft)       Test Method       % Compactic         Fill/backfill Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %         Laboratory Proctors	n Range
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Client:       Dream Finders Homes-Carolinas       Results Provided To:       N/R         Contractor:       Dream Finders Homes-Carolinas       Superintendent:       N/R         Notes:       1       Test location by technician       Superintendent:       N/R         2       Elevation by Technician       Fill/backfill placed prior to technician arriving       Moisture         Design & Specification Data         Area ID       Area Description       Depth (ft)       Test Method       % Compaction       Moisture         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %       - 10.0       + 1         Proctor ID       Description of Material       USCS/AASHTO       Maximum Dry Density (pcf)       Moisture Content (% 1-point         Intro          Stift Area       IDS       Test       Location       Proba       Elev. (ft)       Dry       % dwisture       % compaction       % dwisture         Stift Area         IDS       Test       Location       Proba       Elev. (ft)       Dry       % dwisture       % compaction       % dwisture         Content (% ft)       Insted Subgrade Soils -Building:       Insted Subgrade Soils -Building: <td< td=""><td>Client:       Dream Finders Homes-Carolinas       Results Provided To:       N/R         Contractor:       Dream Finders Homes-Carolinas       Superintendent:       N/R         Notes:       1       Test location by technician       Elevation by Technician         2       Elevation by Technician       Fill/backfill placed prior to technician arriving         3       Fill/backfill placed prior to technician arriving         Design &amp; Specification Data         Area ID       Area Description       Depth (ft)       Test Meth-d       % Compaction         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %         Laboratory Proctors</td><td>n Range</td></td<>	Client:       Dream Finders Homes-Carolinas       Results Provided To:       N/R         Contractor:       Dream Finders Homes-Carolinas       Superintendent:       N/R         Notes:       1       Test location by technician       Elevation by Technician         2       Elevation by Technician       Fill/backfill placed prior to technician arriving         3       Fill/backfill placed prior to technician arriving         Design & Specification Data         Area ID       Area Description       Depth (ft)       Test Meth-d       % Compaction         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %         Laboratory Proctors	n Range
Contractor:       Dream Finders Homes-Carolinas       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       Moistur       Moistur         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %       - 10.0       + 1         Proctor ID       Description of Material       USCS/AASHTO       Maximum Dry Density (pcf)       Optimum Content (%         117.8       13.0%         Density Test Data         St # Area       Proctor       Test Test Subgrade Soils -Building: 10.0       Probe Depth (ft)       Dry Density (pcf)       % of % compaction (%         Standard Counts:       Density Content (%         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building: 10.0       FSG       119.0       5.2       100+       PA         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building: 10.0       FSG       119.0       5.	Contractor:       Dream Finders Homes-Carolinas       Superintendent:       N/R         Notes:       1       Test location by technician       Elevation by Technician       Elevation by Technician       Elevation by Technician         3       Fill/backfill placed prior to technician arriving       Design & Specification Data       Maximum Dry         Area ID       Area Description       Depth (ft)       Test Method       % Compaction         FSG-Bldg       Finished Subgrade Soils - Building       0.0 - 2.0       ASTM D-698       95 %         Laboratory Proctors         Proctor ID         Description of Material	n Range
Notes: 1 Test location by technician 2 Elevation by Technician 3 Fill/backfill placed prior to technician arriving Area ID Area Description Depth (ft) Test Method % Compaction Range Moisture Range Min M FSG-Bldg Finished Subgrade Soils -Building 0.0 - 2.0 ASTM D-698 95 % - 10.0 + 1 Caboratory Proctors Proctor ID Description of Material USCS/AASHTO Maximum Dry Density (pcf) Optimum Moisture Content (% 1-point IDS Test Location Protest Data st # Area Proctor Type Location Protest Detat st # Area Proctor Type Finished Subgrade Soils -Building: Depth (in) Elev. Dry % % % % Re tristed Subgrade Soils -Building: Depth (in) Elev. Dry % % % % Re Standard Counts: Density: Density (pcf) Standard Counts: Density: (pcf) (pr) (pr) (pr) (pr) (pr) (pr) (pr) (pr	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         FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %         Eaboratory Proctors       USCS (AASHTO       Maximum Dry	n Range
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FSG-Bldg       Finished Subgrade Soils -Building       0.0 - 2.0       ASTM D-698       95 %       - 10.0       + 1         Laboratory Proctors         Proctor ID       Description of Material       USCS/AASHTO       Maximum Dry Density (pcf)       Optimum Moisture Content (% 10.0)         1-point       USCS/AASHTO       Maximum Dry Density (pcf)       Moisture Content (% 10.0)       117.8       13.0%         St # Area       IDs       Test Type       Location       Probe Depth (in)       Elev. (ft)       Dry Density(pcf)       % Compaction       % Represent (% 10.0)       Represent (% 10.0)       FSG       119.0       5.2       100+       PA         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building : Location       FSG       119.0       5.2       100+       PA         1       FSG-Bldg       1-point       ASTMD1556       Finished Subgrade Soils -Building : Location       FSG       119.0       5.2       100+       PA         Equipment Used:       Standard Counts:       Density:       Density:       Density:       Density:       Density:	Laboratory Proctors           Proctor ID         Description of Material         USCS (AASHTO         Maximum Dry	Min   M
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Proctor ID     Description of Material     USCS/AASHTO     Maximum Dry Density (pcf)     Optimum Moisture Content (% 13.0%       1-point     Image: Content (% 1.1point     Image: Content (% 1.1	Proctor ID Description of Material USCS/AASHTO Maximum Dry	- 10.0 + 1
Description of Material     USCS/AASHTO     Maximum Dry Density (pcf)     Moisture Content (% 117.8       1-point		
I-point     Density (pcr)     Content (%       1-point     117.8     13.0%       Density Test Data       St #     IDs     Test     Location     Probe Depth (in)     Elev. (ft)     Dry Density(pcf)     % Moisture     % Compaction     Re       1     FSG-Bldg     1-point     ASTMD1556     Finished Subgrade Soils -Building : Lot 582 Center of lot :     FSG     119.0     5.2     100+     PA       Equipment Used:		
1-point     117.8     13.0%       Density Test Data       Intersection     117.8     13.0%       Intersection     Density Test Data       Intersection     Probe Depth (in)     Elev. (ft)     Dry Density(pcf)     % Moisture     % Compaction     Rest       Intersection     Proctor     Type     Finished Subgrade Soils -Building : Lot 582 Center of lot :     FSG     119.0     5.2     100+     PA       Equipment Used:     Equipment Used:     Standard Counts:     Density:     Density:	Density (pci)	
IDs     Test Area     Test Proctor     Location     Probe Depth (in)     Elev. (ft)     Dry Density(pcf)     % Moisture     % Compaction     Re       1     FSG-Bldg     1-point     ASTMD1556     Finished Subgrade Soils -Building : Lot 582 Center of lot :     FSG     119.0     5.2     100+     PA       Equipment Used:	1-point 117.8	
Inst #     Inst (h)     Inst (h	Density Test Data	
Area     Proctor     Type     (ii)     (iii)     (iii)     Density(pc)     Moisture     Compaction       1     FSG-Bldg     1-point     ASTMD1556     Finished Subgrade Soils -Building : Lot 582     FSG     119.0     5.2     100+     PA       Equipment Used:	est # lest   Depth   Elev.   Dry   %	
1     FSG-Bldg     1-point     ASTMD1556     Lot 582 Center of lot :     FSG     119.0     5.2     100+     PA       Equipment Used:   Standard Counts: Density:	Area Proctor Type (in) (π) Density(pct) Moisture C	ompaction
Equipment Used:     Center of lot :     Density:		100
Last Calibration: Moisture		
	Last Calibration: Moisture:	

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