

ADDRESS : 468 NEW CASTLE LN
CONTRACTOR : H & H CONSTRUCTORS INC
OWNER : H & H CONSTRUCTORS INC
PARCEL : 01-0504-02- -0177- -57-
APPL NUMBER: 18-50043935 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : T/S: 05/04/2018 08:35 AM JBROCK ----
HIGHGROVE @ ANDERSON CREEK #213

SUBDIV: HIGHGROVE@ANDERSON CRK 6B 39LO
PHONE : (910) 486-4864
PHONE :

STRUCTURE: 000 000 42X42.2 3BDR 2.5BA MONO W/ GARAGE

FLOOD ZONE : FLOOD ZONE X
BATHS : 2.5 # BEDROOMS : 3000000.00
PROPOSED USE : SFD SEPTIC - EXISTING? : SEWER
WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
A814 01	6/29/18 6/29/18	SB AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003146008 468 NEW CASTLE LN SPRING LAKE 28390 T/S: 06/29/2018 10:26 AM SBENNETT -----
E207 01	6/29/18 6/29/18	JH AP	R*ELEC TEMP SERVICE POLE TIME: 17:00 VRU #: 003146024 T/S: 06/28/2018 01:01 PM LLUCAS -----
P309 01	6/29/18 6/29/18	JH AP	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 003146016 T/S: 06/28/2018 01:01 PM LLUCAS -----
B114 01	7/05/18 <i>7-5-18</i>	TI <i>AP TH</i>	R*BLDG MONO SLAB/TEMP SVC POLE TIME: 17:00 VRU #: 003147683 T/S: 07/03/2018 11:15 AM JBROCK -----

COMMENTS AND NOTES

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

06/15/2018

Attention : Calvin King
John Rice

RE: Daily Field Report for 06/12/2018
Lot 213 Highgrove HGR (CMT) Spring Lake, NC
Building & Earth Project No : RD180330

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.

- Hand Augers and DCPs-Monolithic Slab

For Information Only

FO-3 : Field Observations made on this date.

- Assisted with Hand Augers and DCPs to 11 Feet

For Information Only

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, FO-3



Field Observations Report

Project Name: Lot 213 Highgrove HGR (CMT) Spring Lake, NC	Project Number: RD180330
Client Name: H & H Homes	Placement#: FO-1
Contractor: H & H Homes	Technician: Todd Davis
Monitoring: DCP	

--- ESG -- 8.5 --- Tan-Orange --- SM ---- Fill
 --- -1' --- 9.5 --- Tan-Orange ---- SC/SM ----
 --- -2' --- 9 --- Tan-Orange ---- SC/SM ----
 --- -3' --- 13.5 --- Tan-Orange and Gray ---- SC/SM ----
 --- -4' --- 13 --- Tan-Orange ---- SC/SM ----
 --- -5' --- 10 --- Tan-Orange ---- SC/SM ----
 --- -6' --- 13.5 --- Tan-Orange ---- SC/SM ----
 --- -7' --- 15.5 --- Tan-Orange and Gray ---- SC/SM ----
 --- -8' --- 17 --- Tan-Orange ---- SC/SM ----
 --- -9' --- 14 --- Tan-Orange ---- SC/SM ----
 --- -10' --- 20 --- Tan ---- SC/SM ----
 --- -11' --- 22 --- Tan ---- SC/SM ----

Test 2: Left Front Corner

-- Depth--"N"-----Soil Color--USCS-----
 --- ESG -- 10 --- Tan-Orange --- SC/SM ----
 --- -1' --- 10 --- Tan-Orange ---- SC/SM ----
 --- -2' --- 9 --- Tan-Orange ---- SC/SM ----
 --- -3' --- 12 --- Tan-Orange and Gray ---- SC/SM ----
 --- -4' --- 12 --- Tan-Orange, Purple and Gray ---- SC/SM ----
 --- -5' --- 17 --- Tan-Orange ---- SC/SM ----
 --- -6' --- 21 --- Tan-Orange ---- SC/SM ---- Fill
 --- -7' --- 14 --- Tan-Orange and Gray ---- SC/SM ----
 --- -8' --- 18 --- Light Tan and Gray ---- SC/SM ----
 --- -9' --- 23 --- Tan-Orange ---- SC/SM ----
 --- -10' --- 25+ --- Tan ---- SC/SM ----
 --- -11' --- 25+ --- Tan ---- SC/SM ----

Soil Density Testing:

No soil density testing was performed on this date.

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.

Rachael Heath

Reviewed By

Field Observations Report

Project Name: **Lot 213 Highgrove HGR (CMT) Spring Lake, NC** Project Number: **RD180330**
Client Name: **H & H Homes** Placement#: **FO-3**
Contractor: **H & H Homes** Technician: **John Phillips**
Monitoring: **DCP**

1: Assisted with Hand Augers and DCPs to 11 Feet

Building and Earth technician was onsite to assist in Hand augers and DCPs to 11 feet. See FO-1 for results of this days testing.

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

06/15/2018

Attention : Calvin King
John Rice

RE: Daily Field Report for 06/15/2018
Lot 213 Highgrove HGR (CMT) Spring Lake, NC
Building & Earth Project No : RD180330

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-2 : Field Observations made on this date.

- | | |
|--|--------|
| • Hand Augers and DCPs-Monolithic Slab | Passed |
| • Project Management Review | 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 D1556, 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-2, ST-1

Rachael Heath

Reviewed By

Field Observations Report

Project Name: **Lot 213 Highgrove HGR (CMT) Spring Lake, NC** Project Number: **RD180330**
Client Name: **H & H Homes** Placement#: **FO-1**
Contractor: **H & H Homes** Technician: **Todd Davis**
Monitoring: **DCP**

1: Hand Augers and DCPs-Monolithic Slab

ffWe arrived onsite to evaluate the building pad area for this lot 213 on Castle Lane Drive. We understand the residence has been designed to be supported on a monolithic slab foundation. Upon arrival, the contractor had not finished excavating the footings. Our evaluation as documented in this report includes:

- 1) A visual description of the lot
- 2) Comments on any improvements that hat affect the foundations
- 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 building pad. Maximum relief across the lot is approximately 10 feet. Surface water runoff appears to drain from the right to the left of the lot.

Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 6 to 8 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 Cut or Fill
Left Front-----	120 inches of fill
Left Rear-----	120 inches of fill
Center-----	72 inches of fill
Right Front-----	24 inches of fill
Right Rear-----	24 inches of fill

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 6 inches. There were no areas of soft or loose material noted after conducting the hand rod probing.

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 132 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: Left Rear Corner

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