
ADDRESS . . : 94435 *UNASSIGNED SUBDIV: ROLLING SPRINGS
CONTRACTOR : WELLCO CONTRACTORS, INC. PHONE : (910) 436-3131
OWNER . . : WELLCO CONTRACTORS INC PHONE : (910) 436-3131
PARCEL . . : 01-0506- - -0068- -07-
APPL NUMBER: 17-50040804 CP NEW RESIDENTIAL (SFD)

DIRECTIONS : T/S: 02/22/2017 04:38 PM JBROCK ----
ROLLING SPRINGS LOT#64 OFF NURSERY RD
T/S: 04/04/2017 02:59 PM TJONES ----

STRUCTURE: 000 000 35X39 4BDR SLAB W/ GARAGE & DECK

FLOOD ZONE : FLOOD ZONE X
BEDROOMS : 4000000.00 PROPOSED USE : SFD
SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
A814 01	4/04/17 4/04/17	SB AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002954402 144 MAGNOLIA DR SPRING LAKE 28390 T/S: 04/04/2017 02:57 PM SBENNETT -----
B101 01	4/19/17 4/19/17	JH AP	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002961012 NO T-POLE -----
B103 01	5/18/17 5/18/17	JH AP	R*BLDG FOUND & TEMP SVC POLE VRU #: 002973955 -----
P309 01	6/14/17 6/14/17	JH AP	R*PLUMB UNDER SLAB VRU #: 002983873 -----
B111 01	6/16/17 <u>6-16-17</u>	TI <i>AP TJ</i>	R*BLDG SLAB INSP/TEMP SVC POLE TIME: 17:00 VRU #: 002986198 T/S: 06/16/2017 11:28 AM JBROCK -----

----- COMMENTS AND NOTES -----

Wellco Contractors
P O Box 766
Spring Lake, NC 28390

06/12/2017

Attention : Jason Wellons

RE: Daily Field Report for 06/09/2017
Lot 64 Hidden Lakes (CMT) Spring Lake, NC
Building & Earth Project No : RD170321

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.

- DCPs and Hand Augers Passed
- Project Management Review Passed

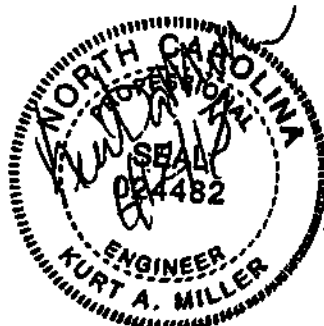
ST-1 : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTM D1556, using the results of field one-point as compared to the laboratory proctors. One(1) in-place field density test was performed on this 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-1, ST-1



Rachael Heath
Reviewed By

Field Observations Report

Project Name:	Lot 64 Hidden Lakes (CMT) Spring Lake, NC	Project Number:	RD170321
Client Name:	Wellco Contractors	Placement#:	FO-1
Contractor:	Wellco Contractors	Technician:	Mark Baum
Monitoring:	DCP		

1: DCPs and Hand Augers 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. 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 localions
- 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 4 feet. Surface water runoff appears to drain to the road.

Section-----	Thickness of Cut or Fill
Left Front-----	12-24 inches of fill
Left Rear-----	12-24 inches of fill
Center-----	12-24 inches of fill
Right Front-----	12-24 inches of fill
Right Rear-----	12-24 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 1-2 inches. Our representative did not observe standing water or evidence of standing water on the footing's bearing surface.

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 right

-- Depth--	"N"	Soil Color	USCS
-- ESG --	10	Dark Brown	SM
-- -1' --	15	Light brown	SM
-- -2' --	15	Tan	SM
-- -3' --	13	Grey	SM

Field Observations Report

Project Name: **Lot 64 Hidden Lakes (CMT) Spring Lake, NC** Project Number: **RD170321**
Client Name: **Wellco Contractors** Placement#: **FO-1**
Contractor: **Wellco Contractors** Technician: **Mark Baum**
Monitoring: **DCP**

Test 2: Rear Left

-- Depth--"N"--Soil Color--USCS--
-- ESG -- 15 -- Dark Brown -- SM --
-- -1' -- 11 -- Light Brown -- SM --
-- -2' -- 13 -- Tan -- SM --
-- -3' -- 12 -- Grey -- 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-1.

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.

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.

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 has a stem wall foundation, and the foundation walls have been backfilled to the slab grade using structural fill soils. It appears that between 1 and 2 feet of structural fill soils have been placed to achieve the slab grade. The intent of our testing was to determine if the newly placed structural fill soils have been compacted to 95% to support the floor slab and the interior lug footings.

Our evaluation included hand rod probing the entire area for consistency, performing hand auger borings with DCPs, and performing in place density tests to confirm compaction. 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 within the backfilled area. 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 our testing, the soils below the surface have been compacted properly at the locations tested.

Field Observations Report

Project Name: **Lot 64 Hidden Lakes (CMT) Spring Lake, NC** Project Number: **RD170321**
Client Name: **Wellco Contractors** Placement#: **FO-1**
Contractor: **Wellco Contractors** Technician: **Mark Baum**
Monitoring: **DCP**

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-696.

Therefore based upon the results of our testing, the newly placed fill soils have been compacted adequately to provide support for the interior lug foundations and the floor slab. 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.

