
ADDRESS . . : 94436 *UNASSIGNED SUBDIV: ROLLING SPRINGS
 CONTRACTOR : WELLCO CONTRACTORS, INC. PHONE : (910) 436-3131
 OWNER . . : WELLCO CONTRACTORS INC PHONE : (910) 436-3131
 PARCEL . . : 01-0506- - -0068- -10-
 APPL NUMBER: 17-50040805 CP NEW RESIDENTIAL (SFD)
 DIRECTIONS : T/S: 02/22/2017 04:38 PM JBROCK -----
 ROLLING SPRINGS LOT#69 OFF NURSERY RD
 04/04/2017 02:57 PM TJONES -----

STRUCTURE: 000 000 35X39 3BDR SLAB W/ GARAGE & DECK

FLOOD ZONE : FLOOD ZONE X
 # BEDROOMS : 3000000.00 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 #: 002954394 151 MAGNOLIA DR SPRING LAKE 28390 T/S: 04/04/2017 11:27 AM SBENNETT -----
B101 01	8/10/17 <i>8-10-17</i>	TI <i>AP JV</i>	R*BLDG FOOTING / TEMP SVC POLE VRU #: 003010217 <i>per Engineer letter</i>

COMMENTS AND NOTES

Wellco Contractors
P O Box 766
Spring Lake, NC 28390

07/31/2017

Attention : Jason Wellons

RE: Daily Field Report for 07/26/2017
Lot 69 Hidden Lakes (CMT) Spring Lake, NC
Building & Earth Project No : RD170303

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:

ST-3 : 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 : ST-3



ST-3

Test Date: 07/26/2017
 Field Technician: James Johnson
 Tests requested by: N/R
 Results provided to: N/R

Report of Field Density Testing

Project Name: Lot 69 Hidden Lakes (CMT) Spring Lake, NC Ambient Temperature: 70-90
 Project Number: RD170303 Weather: Clear
 Project Location: Spring Lake, NC Wind Conditions: Calm
 Client: Wellco Contractors Results Provided To: N/R
 Contractor: Wellco Contractors 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			111.4	13.5%

Density Test Data

Test #	IDs		Test Type	Location	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor							
1	FSG-Bldg	1-point	ASTMD6938	Finished Subgrade Soils -Building : Lot #69 Center of Pad :	FSG	109.6	9.9	98%	PASS

Equipment Used: 33219-3430
 Last Calibration: 07/26/2017

Standard Counts: Density: 2285
 Moisture: 642

James Johnson
 Reviewed By

Wellco Contractors
P O Box 766
Spring Lake, NC 28390

07/31/2017

Attention : Jason Wellons

RE: Daily Field Report for 07/21/2017
Lot 69 Hidden Lakes (CMT) Spring Lake, NC
Building & Earth Project No : RD170303

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:

ST-2 : In place field density testing was performed for Existing Subgrade Soils - Building. The field density testing was performed in general accordance with ASTM D1556 and ASTM D6938, using the results of field one-point as compared to the laboratory proctors. A total of 4 in-place field density tests were 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 : ST-2



ST-2

Test Date: 07/21/2017
 Field Technician: William Cook
 Tests requested by: N/R
 Results provided to: N/R

Report of Field Density Testing

Project Name: Lot 69 Hidden Lakes (CMT) Spring Lake, NC Ambient Temperature: 70-90
 Project Number: RD170303 Weather: Partly Cloudy
 Project Location: Spring Lake, NC Wind Conditions: Calm
 Client: Wellco Contractors Results Provided To: N/R
 Contractor: Wellco Contractors 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
ESG-Bldg	Existing 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			111.4	13.5%

Density Test Data

Test #	IDs		Test Type	Location	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor							
1	ESG-Bldg	1-point	ASTMD1556	Existing Subgrade Soils - Building : Back Right Corner	-3 Feet	107.0	13.5	96%	PASS
2	ESG-Bldg	1-point	ASTMD6938	Existing Subgrade Soils - Building : Informational Purposes		107.5	13.5	96%	PASS
3	ESG-Bldg	1-point	ASTMD6938	Existing Subgrade Soils - Building : Back Right Corner 3' Forward : 7' Left	-2 Feet	110.7	13.0	99%	PASS
4	ESG-Bldg	1-point	ASTMD6938	Existing Subgrade Soils - Building : Back Right Corner 10' Forward : 20' Left	-1 Foot	109.6	13.7	98%	PASS

Equipment Used: 21758-3440
 Last Calibration: 09/14/2015

Standard Counts: Density: 1926
 Moisture: 637

William Cook
 Reviewed By

Wellco Contractors
P O Box 766
Spring Lake, NC 28390

07/31/2017

Attention : Jason Wellons

RE: Daily Field Report for 07/20/2017
Lot 69 Hidden Lakes (CMT) Spring Lake, NC
Building & Earth Project No : RD170303

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:

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. A total of 9 in-place field density tests were 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.

Comment 1 : Test ST1-2 is a sand cone correlation for uncorrected nuclear test ST1-1. Based on the results of these tests, neither a moisture offset, nor a wet density offset were required on this date, for this material.

Comment 2 : ST1-3 is a retest of ST1-2.

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 : ST-1



ST-1

Test Date: 07/20/2017
 Field Technician: Leon Smith
 Tests requested by: N/R
 Results provided to: N/R

Report of Field Density Testing

Project Name: Lot 69 Hidden Lakes (CMT) Spring Lake, NC Ambient Temperature: 70-90
 Project Number: RD170303 Weather: Clear
 Project Location: Spring Lake, NC Wind Conditions: Calm
 Client: Wellco Contractors Results Provided To: N/R
 Contractor: Wellco Contractors Superintendent: N/R

- Notes: 1 Test location by technician
 2 Elevation by Technician
 3 Fill/backfill monitored by technician

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			111.0	14.0%

Density Test Data

Test #	IDs		Test Type	Location	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor							
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-6 FSG	96.0	9.6	86%	WAIVED
2	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-6 FSG	96.0	9.6	86%	WAIVED
3	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Retest of ST 1-1		108.8	9.9	98%	PASS
4	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-5 FSG	111.1	11.0	100%	PASS
5	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-4 FSG	118.5	9.2	100+	PASS
6	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-3 FSG	112.4	9.4	100+	PASS
7	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-2 FSG	111.4	10.5	100%	PASS
8	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	-1 FSG	109.1	11.0	98%	PASS
9	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Rear Right Building Corner 45°W : 15°S	FSG	111.8	10.4	100+	PASS

Equipment Used:
 Last Calibration:

Standard Counts: Density:
 Moisture:

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

Leon Smith
 Reviewed By



ST-1

Test Date: 07/20/2017
Field Technician: Leon Smith
Tests requested by: N/R
Results provided to: N/R

Comments

Comments
Test ST1-2 is a sand cone correlation for uncorrected nuclear test ST1-1. Based on the results of these tests, neither a moisture offset, nor a wet density offset were required on this date, for this material.
ST1-3 is a retest of ST1-2.


Reviewed By

Wellco Contractors
P O Box 766
Spring Lake, NC 28390

07/31/2017

Attention : Jason Wellons

RE: Daily Field Report for 07/18/2017
Lot 69 Hidden Lakes (CMT) Spring Lake, NC
Building & Earth Project No : RD170303

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.
• Observe ponding water in undercut

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-2

Field Observations Report

Project Name: **Lot 69 Hidden Lakes (CMT) Spring Lake, NC** Project Number: **RD170303**
Client Name: **Wellco Contractors** Placement#: **FO-2**
Contractor: Technician: **William Bailey**
Monitoring:

1 : Observe ponding water in undercut

As requested, a Building and Earth representative was on site to observe the undercutting of unsuitable material. The excavation had been completed as per the previous recommendation. The excavation was 4 or 5 feet deep at the deepest part. Water was up to 2 feet deep in the right rear and left rear corner of the excavation. It was recommended that the water be removed, wet/soft soils then be removed, and after removal of water and soft materials a technician should probe the exposed soil to ensure good material before filling. It was advised that water should not be allowed to pond in the excavation during filling and compaction. It was also suggested that pumping should begin asap to ensure that the water can be removed.