

ECS Southeast, LLP

6151 Raeford Road Suite A Fayetteville, NC 28304 (910) 401-3288 [Phone] (910) 323-0539 [Fax]

LETTER OF TRANSMITTAL

April 8, 2020

W.S. Wellons Realty

PO Box 766

Spring Lake, NC 28390

ATTN: Jason Wellons

RE: Lot 5-29 Tupelo Rd

ECS Job # 5190

Permits:

Location: Tupelo Rd

Spring Lake, NC 28390

CC:

ENCL: Field Report # 1

4/7/2020

Matthew B. Olsen, P.E. Office Manager, Principal

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Ryan H. Parrish

Construction Materials Project Manager

Rym H. Parist

Disclaimer

^{1.} This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.

^{2.} The information in this report relates only to the activities performed on the report date.

^{3.} Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.

^{4.} Incomplete or non-conforming work will be reported for future resolution.

^{5.} The results of samples and/or specimens obtained or prepared for supersequent laboratory testing will be presented in separate reports/documents.



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Project Lot 5-29 Tupelo Rd

Location Spring Lake, NC

Client W.S. Wellons Realty

Contractor None Listed

FIELD REPORT

Project No. **5190** Report No. **1**

Day & Date Tuesday 4/7/2020

Weather 60 °/ Sunny

On-Site Time 1.75

Lab Time 0.25

Travel Time* 1.00

Total 3.00

Re Obs Time 0.00

Remarks

Trip Charges* Tolls/Parking* Mileage* 35 Time of Arrival Departure

Chargeable Items 5000 8:00A 9:45A

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

An ECS Representative arrived on-site, as requested, to observe:

1. The compaction of structural fill for the top 12 inches of the building pad. Please see the attached sketch.

Utilizing the (Nuclear Method (ASTM D 6938) to check the compaction of the soils at the areas and elevations tested, test results met or exceeded the project requirements of 98% of maximum dry density as determined in our laboratory using the Standard Proctor Method (ASTM D 698).

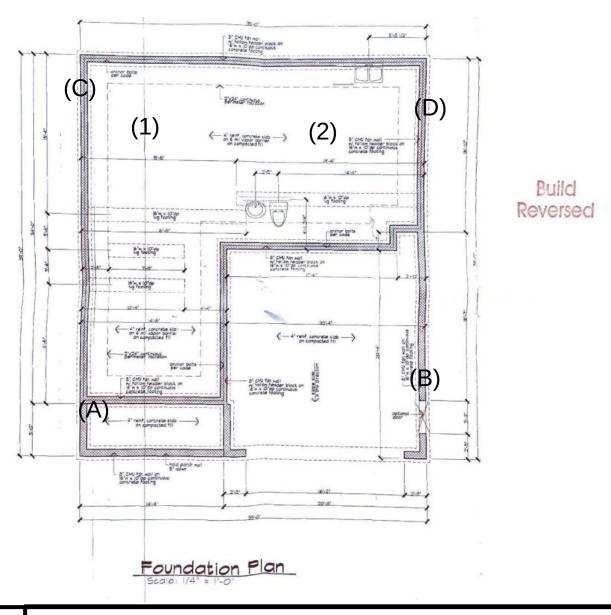
Areas tested were based on stakeouts or work limits provided by others and were not confirmed by the undersigned.

2. The bearing capacity of soils via hand auger/dcp method for subsurface soil conditions. Please see the attached sketch.

A hand auger was used to advance the boreholes to different depths noted on the boring logs. Dynamic Cone Penetrometer (DCP) tests were performed in the hand auger boreholes by a 1.5 inch diameter cone driven into the soil by a 15 pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil a distance of 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger.

A total of 4 hand auger/DCP evaluations were performed. Soils appear to be suitable to support the design bearing capacity of 2000 psf.

^{*} Travel time and mileage will be billed in accordance with the contract.



Cameron Hall 4-7-20 Lot 5 P# 5190 WO#56540

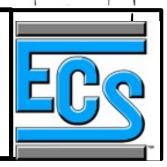
Build Reversed

Key

(#)= Foundation Evaluation

(Letter) = DCP Location

Transmittal Dags 2/6



Foundation Plan

Project Title

Revisions

Scale:

Date:

Sheet No.



Field Compaction Summary, ASTM ASTM D6938

Project No: 11026-V3 Project Name: Dulles Discovery Parking Garage A - sitework Date: 4/7/2020

ECS Mid-Atlantic, LLC

Client: The Peterson Companies

Contractor: Holder Construction Company

Technician: John Otwe

Test Method ASTM ASTM D6938								
Nuclear Gauge No. 39								
Make		Density Std	34852					
Model		Moisture Std	7605					
Ser. No.								

	Sample No. DS4-1			Description Tan/Yellow Clayey SAND			Proctor Method ASTM D 698-12 Method A Standard			Uncor	Uncorrected Max. Density 115.50			Uncorrected Optimum Moisture Content 13.50		
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P/F	Comments	
1		DT	8	building pad	Subgr ade	DS4-1	0.00	115.50	13.50	126.7	113.8	11.3	98.5	Р		
2		DT	8	building pad	Subgr ade	DS4-1	0.00	115.50	13.50	127.1	115.6	10.0	100.1	Р		



Report of Spread Footing - Foundation Observations

Project: Lot 5-29 Tupelo Rd Project No.: 5190 Location: Tupelo Rd Day/Date: 4/7/2020

Spring Lake - Harnett - NC - 28390
Contractor: None Listed

	Location	Size (W x H x L)		Footing Bottom Elevation			Decembration of	Required Blow Counts	Decima
Footing Number		Design	Actual	Design **	Depth of Undercut (in)	Description of Steel Placed	Description of Subgrade Material	# of Blows / Increment	Design Bearing Pressure
1	Α	хх	хх	N/A	0		Orange Clayey	6	2000
_		^ ^	^ ^	14/7 (o .		SAND	7,9,9	
1	A	x x	x x	N/A	 -1		Gray SAND	6	2000
							, -	14,14,14	
1	A	хх	x x	N/A	-2		Gray SAND	6	2000
							•	8,9,10	
1	A	хх	x x	N/A	-3		Gray SAND	6	2000
							,	7,8,10	
2	В	хх	x x	N/A	0		Orange Clayay	6	2000
							SAND	8,8,8	
2	B	хх	x x	N/A	-1		Gray SAND	6	2000
							,	12,12,14	
2	В	хх	x x	N/A	-2		Gray SAND	6	2000
							,	7,9,9	
2	В	хх	x x	N/A	-3		Gray SAND	6	2000
							-	8,9,9	
3	c	хх	x x	N/A	0		Orange Clayey SAND	6	2000
								8,10,8	
3	С	хх	x x	N/A	-1		Orange Clayey	6	2000
							SAND	5,5,6	
3	c	хх	x x	N/A	-2		Gray SAND	6	2000
								7,14,14	

NC Registered	Firm	#	F-1	0	7	8
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Report of Spread Footing - Foundation Observations

WO: 56540

<u> </u>	Proje Locat Contr	tion: Tup	5-29 Tupelo pelo Rd ing Lake - H ne Listed	Rd arnett - NC - 28	390	Projec Day/D	et No.: 5190 Pate: 4/7/2020		
3	С	хх	x x	N/A	-3		Gray SAND	6 12,12,14	2000
4	D	хх	хх	N/A	0		Orange Clayey SAND	6 8,8,1	2000
4	D	хх	хх	N/A	-1		Orange Clayey SAND	6 5,5,6	2000
4	D	хх	x x	N/A	-2		Orange Clayey SAND	6 5,6,6	2000
4	D	x x	x x	N/A	-3		Gray SAND	6 12,14,15	2000
	E: Subgrade Eevat				netrometer unless oth	erwise posted.			
							By: <u>Cameron</u>	R Hall	
							ECS Sout	heast, LLP	