

### ECS Southeast, LLP

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

## LETTER OF TRANSMITTAL

December 17, 2018

Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376

ATTN: Mr. Allen Peterson

**RE: Lot 15 Apache Trail** 

ECS Job # 33:4426-D

Permits:

Location: 265 Apache Trail

Sanford, NC

We are enclosing:

X Field Reports

**X** For your use

X As requested

CC: Precision Custom Homes - Shaun Gardner

**ENCL:** 

Field Report #1

12/13/2018

Dennis D Lowery, **P4384**0 DEC 17 2018

Project Engineer

Donny Johnson

Field Services Manager

#### 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 recorded for future resolution.
- 5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



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Project Lot 15 Apache Trail

Location Sanford, NC

**Precision Custom Homes - Allen Peterson** Client

Contractor Precision Custom Homes - Allen Peterson

Remarks

Time of Arrival Departure Trip Charges\* Tolls/Parking\* 65 Mileage\*

Chargeable Items

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

The undersigned arrived on site, as requested, to observe and evaluate the bearing capacity of soils via hand auger/dcp method for foundations.

A hand auger was used to advance the boreholes to different depths noted on the boring logs. Dynamic Cone Penetrometer (DCP) test 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. Please see the attached sketch and data sheet for details.

A total of 4 hand auger/DCP evaluation(s) were performed to a depth of approximately 3 feet below the current sub grade elevation. DCP blow counts ranged from 7 to 25+ blows per increment. It is to the opinion of ECS that the materials in place at test locations in the foundation did appear to be suitable to support the design bearing capacity 2000 psf.

Please see sketch for DCP evaluation locations.

ECS will return, as requested, to perform additional services.

FIELD REPORT

Project No. 33:4426-D

Report No. 1

Day & Date Thursday 12/13/2018

Weather 46°/ Clear

On-Site Time 1.50 Lab Time 0.25

Travel Time\* 1.25 Total 3.00

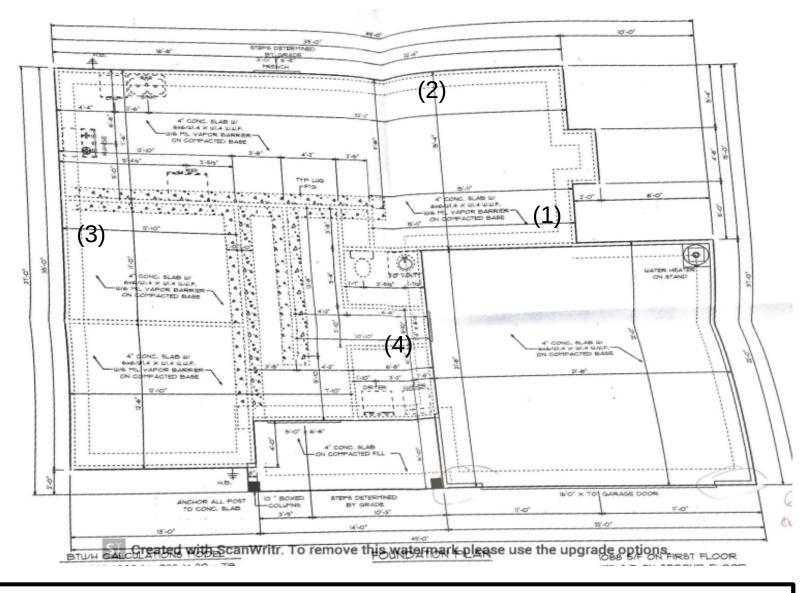
Re Obs.Time 0.00

05:30P

07:00P

\* Travel time and mileage will be billed in accordance with the contract.





Bryan Hernandez 12/13/2018 238 Apache Trail Proj # 4426-D W/O # 49651

**Key** 

() = Location of DCP's



# **Report of Spread Footing - Foundation Observations**

Project: Lot 15 Apache Trail	Project No. 4426-D	
Location: 265 Apache Trail	Day/Date: 12/13/2018	
Sanford - Lee - NC - 27332	•	

Contractor: Precision Custom Homes

		Size (V	V x H x L)	Footing Bott	ooting Bottom Elevation		Required Blow Counts				
Footing Number	Location	Design	Actual	Design	Depth of Undercut (in)	Description of Subgrade Material	# of Blows / increment	Design Bearing Pressure			
1	1	хх	хх	N/A	0 .	Orange SAND		2000			
							8,9,9				
1	1	хх	хх	N/A	-1 .	Brown SAND		2000			
							10,10,10				
1	1	хх	хх	N/A	-2 .	Brown SAND		2000			
							7,9,9	2000			
1	1	1 x x	хх	N/A	-3 .	Brown SAND		2000			
·							10,9.9				
2	2	2	2	хх	хх	N/A	0 .	Orange SAND		2000	
_							7,7,9	2000			
2	2	2 x x	хх	N/A	-1 .	Brown SAND	6	2000			
									9,10,12	2000	
2	2	2	хх х	хх	x x N/A	-2 .	Brown SAND	6	2000		
							9,11,13				
2	2	2 x x x x x	хх	N/A	-3 .	Brown SAND	6	2000			
							10,12,13				
3	3	3	3	3	хх	х х х х	N/A	0 .	Orange SAND	6	2000
							6,8,9	2000			

Ву:	Bryan Noel Hernandez				
	ECS Southeast, LLP				



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Location: 265 Apache Trail	Day/Date:	12/13/2018
Sanford - Lee - NC - 27332	•	

Contractor: Precision Custom Homes

		Size (V	V x H x L)	Footing Bott	om Elevation			Required Blow Counts		
Footing Number	Location	Design	Actual	Design	Depth of Undercut (in)		Description of Subgrade Material	# of Blows / increment	Design Bearing Pressure	
3	3	хх	хх	N/A	-1 .		Brown SAND	6 10,10,12	2000	
3	3	хх	хх	N/A	-2 .		Brown SAND	6 9,10,13	2000	
3	3	хх	хх	N/A	-3 .		Brown SAND	6 11,10,11	2000	
4	4	хх	хх	N/A	0 .		Orange SAND	6 8,8,7	2000	
4	4	хх	хх	N/A	-1 .		Brown SAND	6 9,10,10	2000	
4	4	хх	хх	N/A	-2 .		Brown SAND	6 9,10,13	2000	
4	4	хх	хх	N/A	-3 .		Black SAND	6 9,9,9	2000	

Ву:	Bryan Noel Hernandez					
	ECS Southeast, LLP					