



**ECS Southeast, LLP**

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

**LETTER OF TRANSMITTAL**

April 1, 2020  
Richard Family Builders  
3212 Lillian Place  
Fayetteville, NC 28306  
ATTN: Juanita Richard

RE: **Anderson Creek Club - Lot 1094**  
ECS Job # **4458-K**  
  
Permits:  
Location: **Education Drive**  
**Spring Lake, NC 28390**

CC: Floyd Properties - Alan Ray

Floyd Properties - Darlene Rzonca  
Floyd Properties - Veronica Page

ENCL: Field Report # 1 3/31/2020



Dennis D. Lowery, P.E.  
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 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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**FIELD REPORT**

Project **Anderson Creek Club - Lot 1094**  
 Location **Spring Lake, NC**  
 Client **Richard Family Builders**

Project No. **4458-K**  
 Report No. **1**  
 Day & Date **Tuesday 3/31/2020**  
 Weather **55 °/ Cloudy**  
 On-Site Time **1.25**  
 Lab Time **0.25**  
 Travel Time\* **1.25**  
 Total **3.00**  
 Re Obs Time **0.00**

|                  |                |                    |                 |               |  |
|------------------|----------------|--------------------|-----------------|---------------|--|
| Remarks          |                |                    |                 |               |  |
| Trip Charges*    | Tolls/Parking* | Mileage* <b>50</b> | Time of Arrival | Departure     |  |
| Chargeable Items |                |                    | <b>9:30A</b>    | <b>10:45A</b> |  |

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

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

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

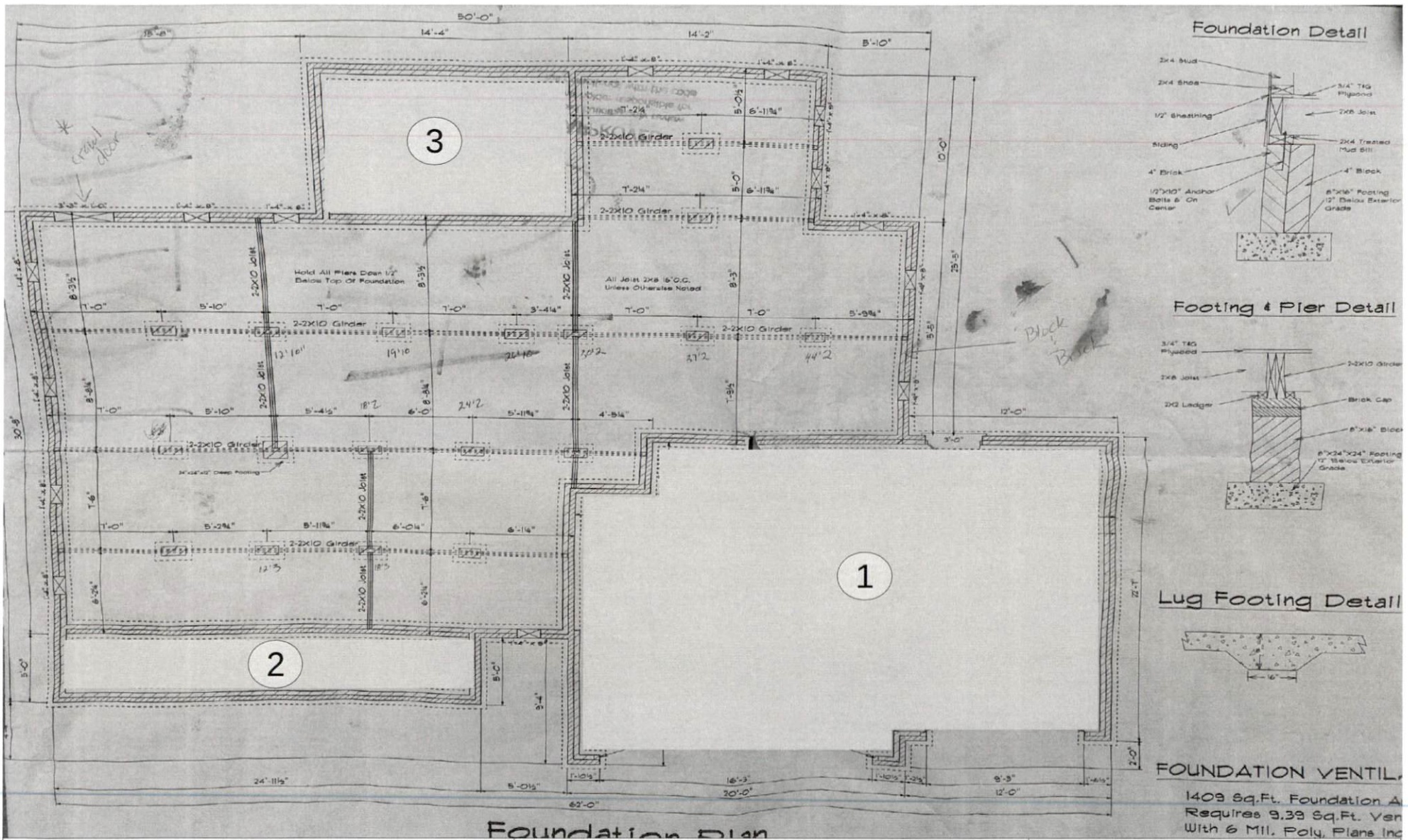
1. The bearing capacity of soils via hand auger/DCP method for the Garage, and Front and Back Porches.

Please see the attached sketch for location details.

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.

A total of 3 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the current sub grade elevation. It is to the opinion of ECS that the materials in place (at the locations and elevations tested) did appear to be suitable to support the design bearing capacity 2000 PSF.

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



Trevor Reichard  
 31 March 2020  
 Anderson Creek Lot 1094  
 J#: 4458 - K  
 W.O.#: 56484

**KEY**

Soils Observed

DCP Test Location



North



## Report of Spread Footing - Foundation Observations

Project: Anderson Creek Club - Lot 1094  
 Location: Education Drive  
 Spring Lake - Cumberland - NC - 28390  
 Contractor: Floyd Properties

Project No.: 4458-K  
 Day/Date: 3/31/2020

| Footing Number | Location | Size (W x H x L) |        | Footing Bottom Elevation |                        | Description of Steel Placed | Description of Subgrade Material | Required Blow Counts   | Design Bearing Pressure |
|----------------|----------|------------------|--------|--------------------------|------------------------|-----------------------------|----------------------------------|------------------------|-------------------------|
|                |          | Design           | Actual | Design **                | Depth of Undercut (in) |                             |                                  | # of Blows / Increment |                         |
| 1              | 1        | x x              | x x    | N/A                      | 0                      |                             | Tan Sand                         | 6<br>6, 6, 6           | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -1                     |                             | Tan Sand                         | 6<br>7, 6, 6           | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -2                     |                             | Tan Silty Sand                   | 6<br>18, 19, 19        | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -3                     |                             | Tan Silty Sand                   | 6<br>9, 8, 8           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | 0                      |                             | Tan Clayey Sand                  | 6<br>6, 5, 6           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -1                     |                             | Tan Clayey Sand                  | 6<br>6, 6, 6           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -2                     |                             | Tan Sand                         | 6<br>9, 9, 9           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -3                     |                             | Tan Silty Sand                   | 6<br>14, 12, 11        | 2000                    |
| 3              | 3        | x x              | x x    | N/A                      | 0                      |                             | Tan Sand                         | 6<br>6, 6, 5           | 2000                    |
| 3              | 3        | x x              | x x    | N/A                      | -1                     |                             | Tan Sand                         | 6<br>6, 6, 6           | 2000                    |
| 3              | 3        | x x              | x x    | N/A                      | -2                     |                             | Tan Sand w/<br>Clay              | 6<br>6, 5, 6           | 2000                    |



## Report of Spread Footing - Foundation Observations

Project: Anderson Creek Club - Lot 1094  
 Location: Education Drive  
           Spring Lake - Cumberland - NC - 28390  
 Contractor: Floyd Properties

Project No.: 4458-K  
 Day/Date: 3/31/2020

|   |   |     |     |     |    |  |                     |         |      |
|---|---|-----|-----|-----|----|--|---------------------|---------|------|
| 3 | 3 | x x | x x | N/A | -3 |  | Tan Sand w/<br>Clay | 6       | 2000 |
|   |   |     |     |     |    |  |                     | 7, 6, 5 |      |

\*Unconfined Compressive Strength determined by calibrated penetrometer unless otherwise posted.

\*\* SGE: Subgrade Elevation to be determined by surveyor.

Location:

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By: Trevor Reichard-Hayes

ECS Southeast, LLP

WO: 56484



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**LETTER OF TRANSMITTAL**

April 1, 2020  
Richard Family Builders  
3212 Lillian Place  
Fayetteville, NC 28306  
ATTN: Juanita Richard

RE: **Lot 1103 - Anderson Creek Club**  
ECS Job # **4458-I**  
  
Permits:  
Location: **Education Drive**  
**Spring Lake, NC 28390**

CC: Floyd Properties - Alan Ray

Floyd Properties - Darlene Rzonca  
Floyd Properties - Veronica Page

ENCL: Field Report # 3 3/31/2020



Dennis D. Lowery, P.E.  
Project Engineer

Donny Johnson  
Field Services Manager

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**FIELD REPORT**

Project **Lot 1103 - Anderson Creek Club**  
 Location **Spring Lake, NC**  
 Client **Richard Family Builders**

Project No. **4458-I**  
 Report No. **3**  
 Day & Date **Tuesday 3/31/2020**  
 Weather **55 °/ Cloudy**  
 On-Site Time **1.50**  
 Lab Time **0.25**  
 Travel Time\* **1.25**  
 Total **3.25**  
 Re Obs Time **0.00**

Remarks

|                  |                |                    |                 |              |
|------------------|----------------|--------------------|-----------------|--------------|
| Trip Charges*    | Tolls/Parking* | Mileage* <b>50</b> | Time of Arrival | Departure    |
| Chargeable Items |                |                    | <b>8:00A</b>    | <b>9:30A</b> |

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

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

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

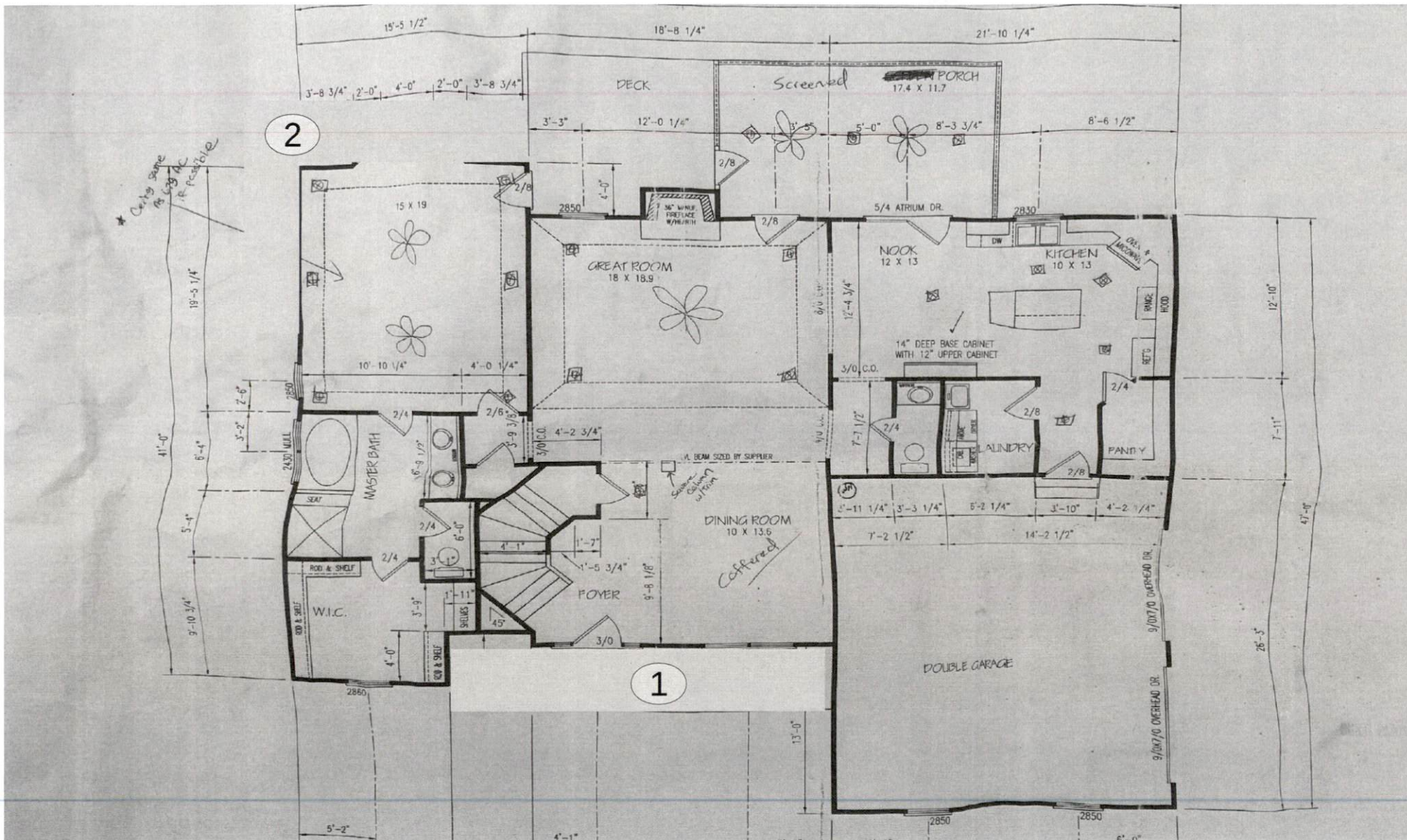
1. The bearing capacity and compaction efforts of soils via hand auger/DCP method for the Front and Back Porches.

Please see the attached sketch for location details.

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.

A total of 2 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the current sub grade elevation. It is to the opinion of ECS that the materials in place (at the locations and elevations tested) do appear to be suitable to support the design bearing capacity 2000 PSF and have been sufficiently placed and compacted.

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



Trevor Reichard  
 31 March 2020  
 Anderson Creek Lot 1103  
 J#: 4458 - I  
 W.O.#: 56475

**KEY**

Soils Observed

DCP Test Location



North





## Report of Spread Footing - Foundation Observations

Project: Lot 1103 - Anderson Creek Club  
 Location: Education Drive  
Spring Lake - Cumberland - NC - 28390  
 Contractor: Floyd Properties

Project No.: 4458-I  
 Day/Date: 3/31/2020

| Footing Number | Location | Size (W x H x L) |        | Footing Bottom Elevation |                        | Description of Steel Placed | Description of Subgrade Material | Required Blow Counts   | Design Bearing Pressure |
|----------------|----------|------------------|--------|--------------------------|------------------------|-----------------------------|----------------------------------|------------------------|-------------------------|
|                |          | Design           | Actual | Design **                | Depth of Undercut (in) |                             |                                  | # of Blows / Increment |                         |
| 1              | 1        | x x              | x x    | N/A                      | 0                      |                             | Tan Clayey Sand                  | 6<br>14, 10, 10        | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -1                     |                             | Tan Clayey Sand                  | 6<br>7, 6, 5           | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -2                     |                             | Dark Gray Sand w/ Clay           | 6<br>9, 8, 7           | 2000                    |
| 1              | 1        | x x              | x x    | N/A                      | -3                     |                             | Tan Sandy Clay                   | 6<br>13, 11, 8         | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | 0                      |                             | Tan Sand w/ Clay                 | 6<br>7, 6, 6           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -1                     |                             | Tan Sand w/ Clay                 | 6<br>7, 6, 5           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -2                     |                             | Tan to Dark Gray Sandy Clay      | 6<br>6, 6, 6           | 2000                    |
| 2              | 2        | x x              | x x    | N/A                      | -3                     |                             | Damp Dark Gray Sandy Clay        | 6<br>25+               | 2000                    |

\*Unconfined Compressive Strength determined by calibrated penetrometer unless otherwise posted.

\*\* SGE: Subgrade Elevation to be determined by surveyor.

Location:

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## Report of Spread Footing - Foundation Observations

Project: Lot 1103 - Anderson Creek Club  
Location: Education Drive  
Spring Lake - Cumberland - NC - 28390  
Contractor: Floyd Properties

Project No.: 4458-I  
Day/Date: 3/31/2020

By: Trevor Reichard-Hayes

ECS Southeast, LLP

WO: 56475