



Wise Engineering
3915 Old Fairground Rd.
Angier, NC 27501
(919)894-2203

November 24, 2019

Raphael Locklear
Southeastern General Contractors

Subject: 12 Broadlake Ln., Spring Lake, NC 28390

Mr. Locklear,

I have reviewed the home being constructed at the subject address. Specifically, I reviewed the brick lintels to be used to support the brick veneer.

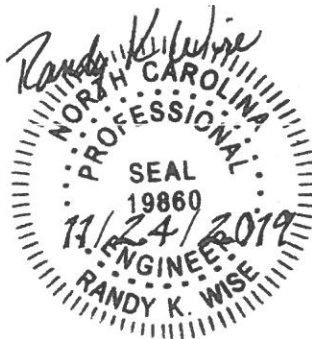
Based on my observations and analysis, the lintels used are adequate to support the brick as installed. The lintels specified for the home are as follows:

1. For spans 4'-0" and less – use L3.5"x3.5"x1/4" (steel angle)
2. For spans 4'-0" to 8'-0" – use L5"x3.5"x5/16" (steel angle)

The above specified steel lintels are adequate to support the brick as constructed without bolting to the headers. If you need additional information or have other questions, please let us know.

Sincerely,

Randy K. Wise, PE





ECS Southeast, LLP

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

LETTER OF TRANSMITTAL

October 24, 2019

South Eastern General Contractors
3059 N. Main Street
Suite 16
Hope Mills, NC 28348

ATTN: Austin Perkins

RE: **Broadlake Lot**

ECS Job # **33:4909**

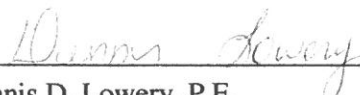
Permits:

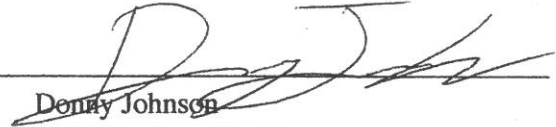
Location: **12 Broadlake Ln
Spring Lake, NC**

We are enclosing: Field Reports For your use As requested

ENCL:

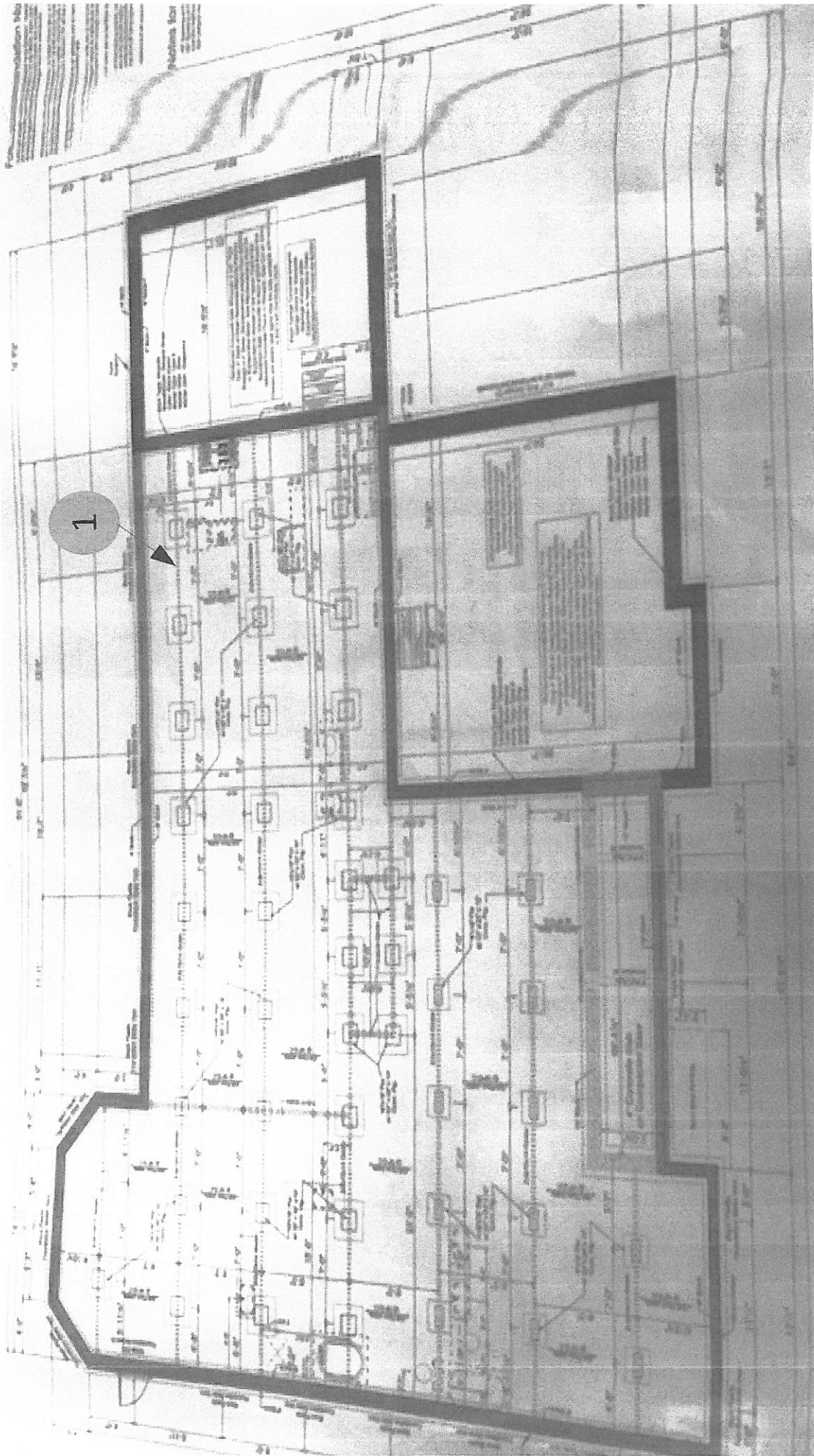
Field Report # 2 10/23/2019


Dennis D. Lowery, P.E.
Project Engineer


Denny Johnson
Field Services Manager

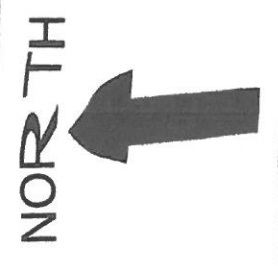
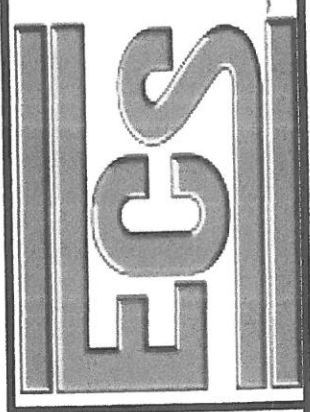
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Thomas Wilmot
 Oct 23th, 2019
 2 Broadlake Ln
 roj: 4909
 VO#: 53905

Key (NTS)
 DCPs test location



Report of Spread Footing - Foundation Observations

Project: Broadlake Lot
 Location: 12 Broadlake Ln
 Spring Lake - Cumberland - NC - 28390
 Contractor: None Listed

Project No. 4909
 Day/Date: 10/23/2019

| Footing Number | Location | Size (W x H x L) | | Footing Bottom Elevation | | Description of Subgrade Material | Required Blow Counts | | Design Bearing Pressure |
|----------------|------------------------|------------------|--------|--------------------------|------------------------|----------------------------------|------------------------|---|-------------------------|
| | | Design | Actual | Design | Depth of Undercut (in) | | # of Blows / increment | | |
| 1 | North east of building | x x | x x | N/A | -1 | Black Top Soil | 6 | | 2000 |
| 1 | North east of building | x x | x x | N/A | -2 | Black Clay Sand | 6, 8, 7 | 6 | 2000 |
| 1 | North east of building | x x | x x | N/A | -3 | Brown Clay Sand | 5, 5, 5 | 6 | 2000 |
| | | | | | | | 5, 5, 8 | | |

By: Thomas Allen Wilmot

ECS Southeast, LLP

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0419-1746
CORPUZ RESIDENCE

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E13616790 thru E13616885

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



October 9, 2019

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

- lv1 over header.JPG
- Scott Guy 9/30/2019
- notched girder.JPG
- Scott Guy 9/30/2019
- shimmied girders at piers.J...
- Scott Guy 9/30/2019
- SCC-12 Broadlake Lane.pdf
- Donna Johnson 8/19/2019
- meter receipt
- Kimberly Gibbons 8/14/2019
- engine letter footing.JPG
- 8/1/2019
- Permit Form
- Jennifer Brock 7/16/2019
- lien agent
- Kimberly Gibbons 7/12/2019
- Corpuz_Plan_for_Permits_...
- Donna Johnson 6/17/2019
- bldg app
- Kimberly Gibbons 6/17/2019
- land use site plan
- Kimberly Gibbons 6/5/2019
- Inspection Results Letter
- Donna Johnson 11/13/2019



3915 Old Fairground Rd.
 Angier, NC 27501
 (919)894-2203

July 31, 2019

Raphael Locklear
 Southeastern General Contractors

Subject: 12 Broadlake Ln., Spring Lake, NC 28390

Mr. Locklear,

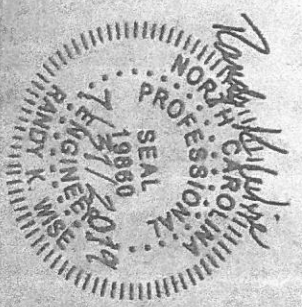
I have reviewed the foundation preparation for the home being constructed at the subject address. Specifically, I reviewed the excavation depth based on the highly organic soils encountered within the top 12 inches of the surface.

Based on my observations and analysis, the foundation footings as well as the footings for the interior piers should be over-excavated down to firm soil. On the higher areas of the lot, this equates to approximately 2 feet deep. Within the middle section and lower portions of the lot, the footing areas should be excavated down to approximately 3 feet deep. Once excavated, I recommend filling the excavations with approximately 12 inches of stone (#57 or #78M). The footings may be poured directly on the added stone.

If you need additional information or have other questions, please let us know.

Sincerely,

Randy K. Wise, PE





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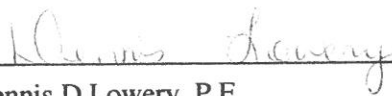
LETTER OF TRANSMITTAL

| | |
|--|--|
| <p>August 1, 2019</p> <p>South Eastern General Contractors 3059 N. Main Street Suite 16 Hope Mills, NC 28348</p> <p>ATTN: Austin Perkins</p> | <p>RE: Broadlake Lot</p> <p>ECS Job # 33:4909</p> <p>Permits: Location: 12 Broadlake Ln Spring Lake, NC</p> |
|--|--|


We are enclosing: Field Reports For your use As requested

ENCL:

Field Report # 1 07/31/2019



 Dennis D Lowery, P.E.
 Project Engineer



 Dave Vosler
 Construction Materials Project Manager

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LETTER OF TRANSMITTAL

October 24, 2019

South Eastern General Contractors
3059 N. Main Street
Suite 16
Hope Mills, NC 28348

ATTN: Austin Perkins

RE: **Broadlake Lot**

ECS Job # **33:4909**

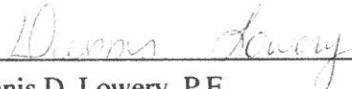
Permits:

Location: **12 Broadlake Ln
Spring Lake, NC**

We are enclosing: Field Reports For your use As requested

ENCL:

Field Report # 2 10/23/2019



Dennis D. Lowery, P.E.
Project Engineer



Denny Johnson
Field Services Manager

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FIELD REPORT

Project **Broadlake Lot**
Location **Spring Lake, NC**
Client **South Eastern General Contractors - Austin Perkins**

Project No. **33:4909**
Report No. **2**
Day & Date **Wednesday 10/23/2019**
Weather **70°/ Sunny**
On-Site Time **0.75**
Lab Time **0.00**
Travel Time* **0.00**
Total **0.75**
Re Obs.Time **0.00**

Remarks

Trip Charges* Tolls/Parking* Mileage* Time of Arrival Departure
Chargeable Items **1 - Nuclear Gauge Rental** **01:30P** **02:15P**

* 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.

The undersigned arrived on site, as requested, to observe and evaluate the bearing capacity of soils via hand auger/dcp method for testing ground compaction by a leaning pier in the crawl space of an existing home.

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.

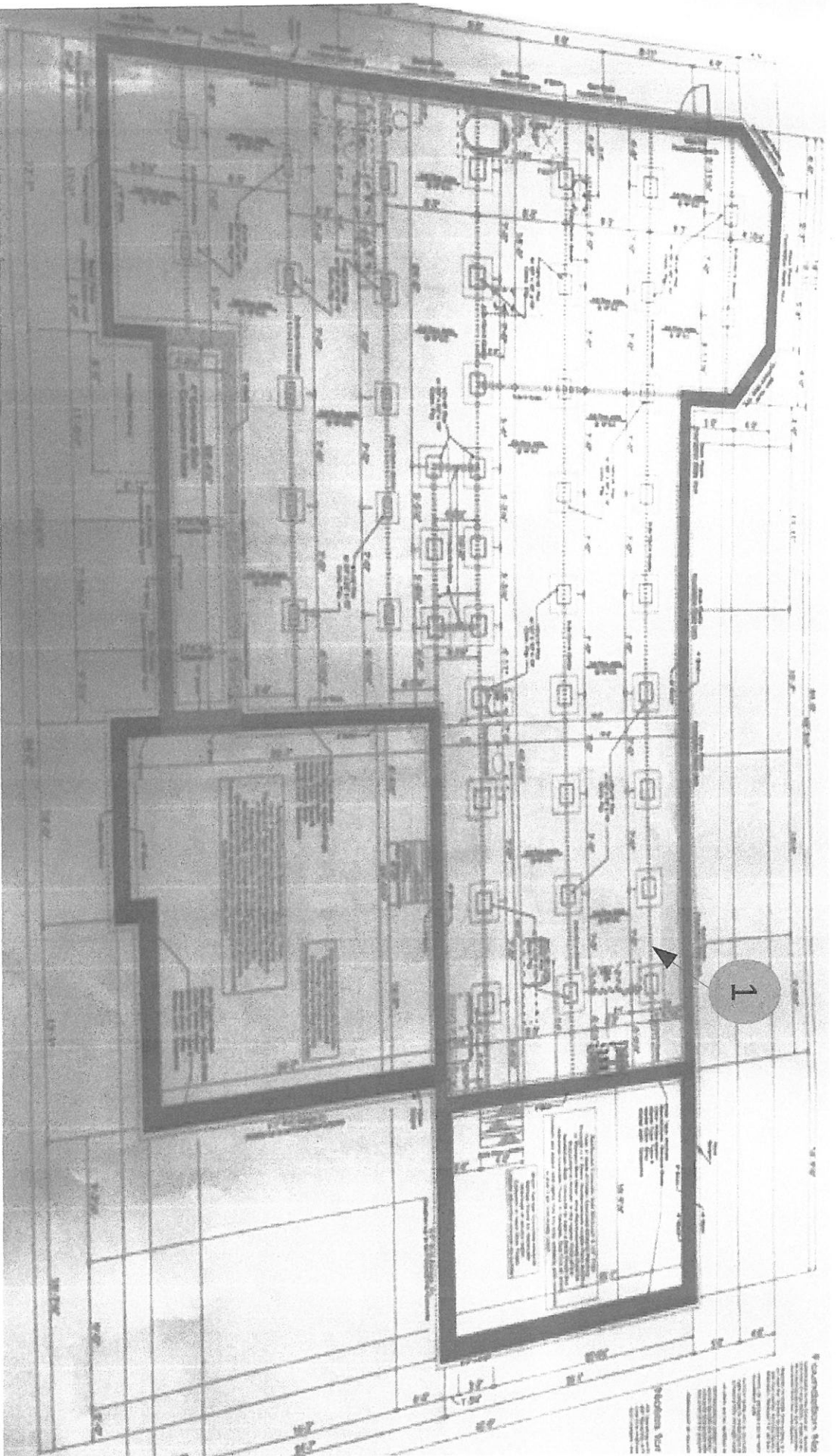
A total of 1 hand auger/DCP evaluation(s) were performed to a depth of approximately 3 feet below the current sub grade elevation. Soil encountered was Black top soil, Black clay sand, Brown clay Sand. DCP blow counts ranged from 7 to 25+ blows per increment. It is to the opinion of ECS that the materials in place at test locations in the foundation did appear to be suitable to support a design bearing capacity 2000 psf.

Please see sketch for DCP evaluation locations.

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

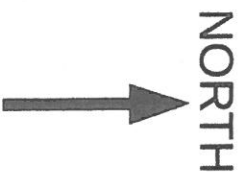
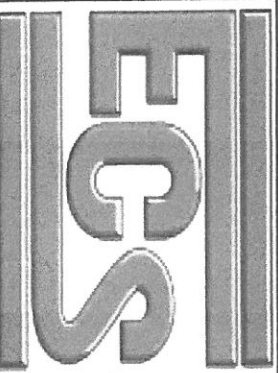
By **Thomas Allen Wilmot, — Field Technician**

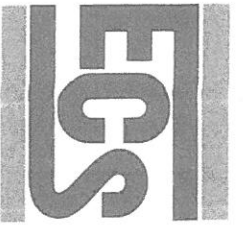
1800



Thomas Wilmot
 Oct 23th, 2019
 12 Broadlake Ln
 Proj: 4909
 WO#: 53905

Key (NTS)
 DCPs test location





Report of Spread Footing - Foundation Observations

Project: Broadlake Lot

Project No. 4909

Location: 12 Broadlake Ln

Day/Date: 10/23/2019

Location: Spring Lake - Cumberland - NC - 28390

Contractor: None Listed

| Footing Number | Location | Size (W x H x L) | | Footing Bottom Elevation | | Description of Subgrade Material | Required Blow Counts | | Design Bearing Pressure |
|----------------|------------------------|------------------|--------|--------------------------|------------------------|----------------------------------|------------------------|-------|-------------------------|
| | | Design | Actual | Design | Depth of Undercut (in) | | # of Blows / increment | | |
| 1 | North east of building | X X | X X | N/A | -1 | Black Top Soil | 6 | | 2000 |
| 1 | North east of building | X X | X X | N/A | -2 | Black Clay Sand | 6 | 6,8,7 | 2000 |
| 1 | North east of building | X X | X X | N/A | -3 | Brown Clay Sand | 6 | 5,5,5 | 2000 |
| | | | | | | | | 5,5,8 | 2000 |

By: Thomas Allen Wilnot

ECS Southeast, LLP



ECS Southeast, LLP

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(910) 401-3288 [Phone]
(910) 323-0539 [Fax]

LETTER OF TRANSMITTAL

| | |
|--|--|
| <p>December 2, 2019</p> <p>South Eastern General Contractors 3059 N. Main Street Suite 16 Hope Mills, NC 28348</p> <p>ATTN: Austin Perkins</p> | <p>RE: Broadlake Lot</p> <p>ECS Job # 33:4909</p> <p>Permits: Location: 12 Broadlake Ln Spring Lake, NC</p> |
| <p>We are enclosing: <input checked="" type="checkbox"/> Field Reports <input checked="" type="checkbox"/> For your use <input checked="" type="checkbox"/> As requested</p> | |

ENCL:

Field Report # 3 11/27/2019



Dennis D. Lowery, P.E.
Project Engineer


Donny Johnson
Field Services Manager

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Fayetteville, NC 28304
(910) 401-3288 [Phone]
(910) 323-0539 [Fax]

FIELD REPORT

Project **Broadlake Lot**
Location **Spring Lake, NC**
Client **South Eastern General Contractors - Austin Perkins**

Project No. **33:4909**
Report No. **3**
Day & Date **Wednesday 11/27/2019**
Weather **55°/ Cloudy**
On-Site Time **1.00**
Lab Time **0.00**
Travel Time* **0.00**
Total 1.00
Re Obs.Time **0.00**

Remarks

Trip Charges* Tolls/Parking* Mileage* Time of Arrival Departure
Chargeable Items **1 - Nuclear Gauge Rental** **12:45P 01:45P**

* 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.

The undersigned arrived on site, as requested, to observe:

- 1: The compaction of soils for Porch. Please see the attachment for test results.

Utilizing the unspecified test method to check the compaction of soils; test results indicated that the compacted material, at the areas and elevations tested, met or exceeded 95% of the maximum dry density as obtained in our laboratory using the standard proctor method.



ECS SOUTHEAST, LLP

Field Compaction Summary, ASTM Nuclear

Project No: 4909

Project Name: Broadlake Lot

Date: 11/27/2019

Client: South Eastern General

Contractors

Contractor: None Listed

Technician: Gerald John Bowling

| Test Method ASTM Nuclear | | | |
|--------------------------|--------------|------|--|
| Nuclear Gauge No. 1029 | | | |
| Make | Density Std | 2578 | |
| Model | Moisture Std | 760 | |
| Ser. No. | | | |

| Sample No. | | Description | | Proctor Method | | Uncorrected Max. Density | | Uncorrected Opt. MC | | | | | | | |
|------------|---------|--------------------|-------------------|--------------------|---------------------|--------------------------|------------|-------------------------------------|--|-------------------|-------------------|----------------------|-------------------|-------|----------|
| New | | orange clayey sand | | New | | 119.70 | | 11.50 | | | | | | | |
| Test No. | Lot No. | Test Mode | Probe Depth (in.) | Station / Location | Lift / Elev | Sample No. | % Oversize | Corrected Maximum Dry Density (pcf) | Corrected Optimum Moisture Content (%) | Wet Density (pcf) | Dry Density (pcf) | Moisture Content (%) | Percent Comp. (%) | P / F | Comments |
| 1 | | DT | 6 | LOC-1 Porch | s-grad ^e | New | 0.00 | 119.70 | 11.50 | 129.0 | 114.3 | 12.9 | 95.5 | F | |
| 2 | | DT | 6 | LOC-2 Porch | s-grad ^e | New | 0.00 | 119.70 | 11.50 | 128.5 | 113.9 | 12.8 | 95.2 | F | |