



**ECS Southeast, LLP**

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**LETTER OF TRANSMITTAL**

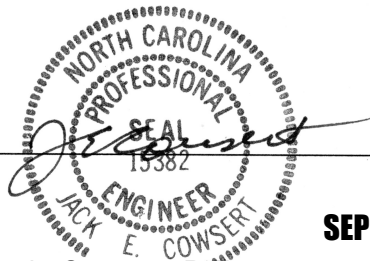
September 1, 2022  
Ben Stout Construction  
PO Box 53798  
Fayetteville, NC 28305  
ATTN: Robert Ivey

RE: **Lot D Spartan Ridge Subdivision**  
ECS Job # **33:6160**  
  
Permits:  
Location: **742 Susie Circle**  
**Cameron, NC 27332**

Field Reports       For your use       As requested

CC:

ENCL: Field Report # 1      8/29/2022



**SEP 01 2022**

Jack Cowsert, P.E.  
Office Manager

Aaron Kyle Adair  
Team Leader

*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 subsequent laboratory testing will be presented in separate reports/documents.



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## FIELD REPORT

Project **Lot D Spartan Ridge Subdivision**  
 Location **Cameron, NC**  
 Client **Ben Stout Construction**  
 Contractor **Ben Stout Construction**

Project No. **33:6160**  
 Report No. **1**  
 Day & Date **Monday 8/29/2022**  
 Weather **80 °/ Sunny**  
 On-Site Time **1.50**  
 Lab Time **0.00**  
 Travel Time\* **0.00**  
 Total **1.50**  
 Re Obs Time **0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of Arrival	Departure
Chargeable Items			<b>3:00P</b>	<b>4:30P</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.**

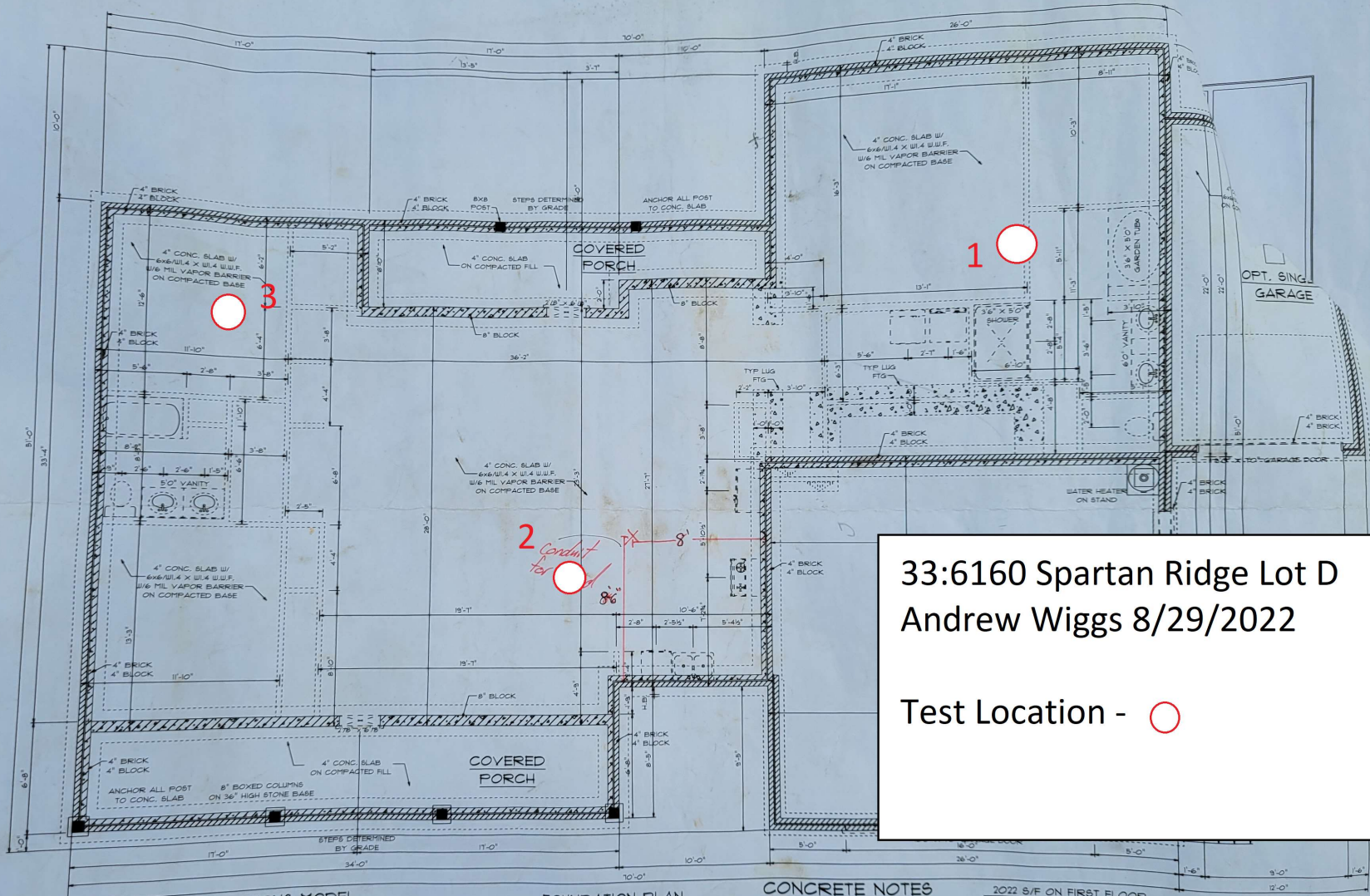
ECS arrived on site, as requested, to check the bearing capacity of soils via hand auger/DCP method for stem-wall back-fill. Please see the attached sketch and data sheet for details.

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 footing sub grade elevation. Test results indicated that the materials in place (at the locations and elevations tested) did appear to be suitable to support the design bearing capacity 2,000 psf.

ECS spoke with Robert Ivey and recommended that they moisture condition the subgrade of the stem wall and re-compact the subgrade with a plate tamp. ECS will not need to retest this lot once they have completed the recommendation.

ECS will return upon request.



33:6160 Spartan Ridge Lot D  
 Andrew Wiggs 8/29/2022

Test Location - ○

**BTU/H CALCULATIONS MODEL**  
 CEILING 2202 X .033 X 20 = 1453.32  
 FLOOR 2760 X .053 X 20 = 2926  
 WALLS 2202 X .063 X 20 = 2774.52  
 DOORS/WINDOWS 857.32 X .526 X 20 = 2112  
 TOTAL = 9262.84

**FOUNDATION PLAN**  
 SCALE: 1/4" = 10'

**CONCRETE NOTES**

NOTES:  
 1) MINIMUM SOIL BEARING CAPACITY: 3000 psi.  
 2) CONCRETE COMPRESSIVE STRENGTH # END OF 28 DAYS (MIN)  
 FOUNDATIONS, FOOTING, & INTERIOR SLABS = 3000 psi.  
 EXTERIOR SLAB (EXPOSED TO WEATHER) = 3500 psi.

2022 S/F ON FIRST FLOOR  
 665 S/F IN BONUS ROOM AND BEDROOM #4  
 637 S/F IN DOUBLE GARAGE  
 274 S/F IN OPT. SINGLE GARAGE  
 204 S/F ON FRONT PORCH  
 142 S/F ON REAR PORCH



## Report of Spread Footing - Foundation Observations

Project: Lot D Spartan Ridge Subdivision  
 Location: 742 Susie Circle  
 Cameron - Harnett - NC - 27332  
 Contractor: Ben Stout Construction

Project No.: 33:6160  
 Day/Date: 8/29/2022

Footing Number	Location	Size (W x H x L)		Footing Bottom Elevation		Description of Steel Placed	Description of Subgrade Material	Required Blow Counts # of Blows / Increment	Design Bearing Pressure
		Design	Actual	Design **	Depth of Undercut (in)				
1	northwest corner of stem wall backfill	x x	x x	N/A	N/A		(0/-1)tan silty sand(-2/-3)dark gray silty sand	6 (0)3,3,6(-1)11,10,10(-2) 8,9,12(-3)7,14,25+	2000
1	south side of stem wall backfill	x x	x x	N/A	N/A		(0/-1)tan sand(-2)tan silty sand(-3)brown clayey sand	6 (0)3,5,5(-1)8,9,12(-2) 12,17,14(-3)18,18,19	2000
1	northeast corner of stem wall backfill	x x	x x	N/A	N/A		(0)tan sand(-1/-2/-3)tan silty sand	6 (0)3,2,2(-1)4,6,6(-2) 5,5,6(-3)5,6,7	2000

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

By: Andrew Wiggs

ECS Southeast, LLP

WO: 68618