

DESIGN PROFESSIONAL INSPECTION FORM

RECORD OF THE INSPECTION OF A COMPONENT OR ELEMENT BY A NC LICENSED ARCHITECT OR ENGINEER

Project Information:

Residential Single-Family Project: Y N	Commercial Project: Y N
Code Enforcement Project No:	Permit No: SFD 2205-0005
Project Name: Residential Building 11 Willow Run	Owner: Lance and Megan Kappel
Project Address: 11 Willow Run Sanford, NC	Suite No: N/A
Date Inspected: 06/29 & 07/13 2022	Contractor Name: Harrington Properties of NC
Component Inspected: Foundation Observations	

Responsible Licensed NC Architect or NC Engineer

Name:	Pat Shillington
Firm Name:	E ² S
Phone Numbers:	Office: 919-781-7798 Mobile: 919-539-8582
Email Address:	e2s@bellsouth.net
Mailing Address:	3008 Anderson Dr., Suite 102, Raleigh, NC 27609

APPLICABLE CODE: 2018 NCRC

2018 NCBC = 2018 NC Building Code; 2018 NCRC = 2018 NC Residential Code

Describe Element/Component/Type of Inspection: *

Footing excavation and bearing capacity of soils

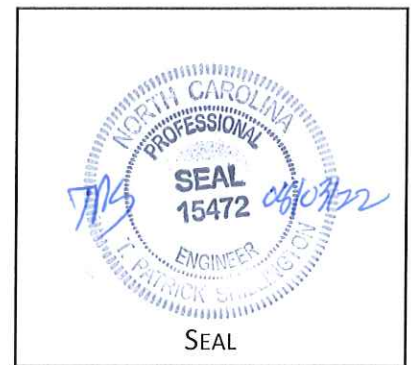
*(subgrade form/letter may also be required)

Attestation/Signature:

By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per subsection (b2) of NC G.S. 153A-352 and is in compliance with the approved plans & specifications for the project. This inspection is in compliance with all of the requirements of the above referenced code. Attach any additional documents if needed.



Licensed Architect or Engineer



Inspection Department disclaimer:

Upon the receipt of a signed written document as required under subsection (a) of Article 160A-413.5., Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.



ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

September 2, 2021

(919) 781-7798

Mr. Brandon Harrington
Harrington Properties of NC
2659 San Lee Drive
Sanford, NC 27330

RE: Foundation Evaluation and Foundation Observations
Residential Building
11 Willow Run
Sanford, NC

Dear Mr. Harrington:

This letter discusses the evaluation of the foundation design and the foundation observations for the above referenced site.

The building plans are by House Plan Zone, LLC dated October 11 2017 and are designated Pre-Drawn Plan ID BB-1988AR. The plans state that the foundations are to be reviewed by a structural engineer for compliance with the 2018 NC Residential Building Code. Based on my evaluation and comparison with the Foundation Plan (Sheet 2), I concur that the foundation widths and depths are suitable and the net foundation contact pressure is less than 2000 psf. However, the steel reinforcement noted on the details is not necessary and can be omitted.

On June 29 and July 13, 2022, the foundations excavations were observed. Soils primarily consisted of brown and gray brown sandy CLAY (CL) and clayey SAND (SC). At several footing locations soft soils were excavated and replaced with No. 57 stone. Dynamic cone penetrometer readings ranged from 6 to 11 blows per increment. The exposed foundation soils have at least 2000 psf bearing capacity. The footing excavation depth, width and length, matched the Foundation Plan by House Plan Zone, LLC, and the interior column footing plan requirements per my evaluation.

Based on my observations, the foundation installation meets the 2018 Building Residential Code requirements and the plans by by House Plan Zone, LLC The footing excavation conditions are acceptable to receive concrete.

We appreciate serving you on this project. Please contact us if you have any questions.

Sincerely,


T. Patrick Shillington, P.E.
President

