

**J.S. THOMPSON**  
**ENGINEERING, INC**

April 14, 2023

Steve Thomas  
Southern Concrete Inc.  
PO Box 875  
Broadway, NC 27505

Dear Mr. Thomas:

Per your request, a site visit was made to 6573 Old US 421 in Lillington, North Carolina to inspect and analyze the bottom of the footings.

The bottom of the footings was inspected and firm residual sand and sandy clay was encountered at depths ranging from one to two feet below grade. The over-excavated section may be filled solid with concrete and does not require washed stone replacement. The soil at the bottom of the footings will provide the minimum required bearing capacity of two thousand pounds per square foot.

Third party inspection revealed one deviation. In lieu of embedding Simpson MBP88Z post bases in 20" x 20" concrete columns on 36" x 36" x 12" concrete footings reinforced with rebar per plan, the 8 x 8 treated posts supporting the vaulted portion of the rear porch are to be secured to the foundation with Simpson ABU88Z post bases and are to be braced with 4 x 4 treated knee braces. Knee braces are to be installed at a 45-degree angle and are to extend a minimum one-third of the post height down from the top of the post. Knee braces are to be fastened to the posts with a 1/2" diameter hot-dipped galvanized through bolt with a nut and washers and are to be fastened to the headers with a 1/2" diameter hot-dipped galvanized lag screw with a washer. Besides the deviation noted above, the remainder of the footings were excavated per the approved plan with all concrete depths and step downs set correctly. The footings are in conformance with Chapter 4 of the 2018 North Carolina Residential Code and are suitable for concrete placement.

Please call me if you have any questions.

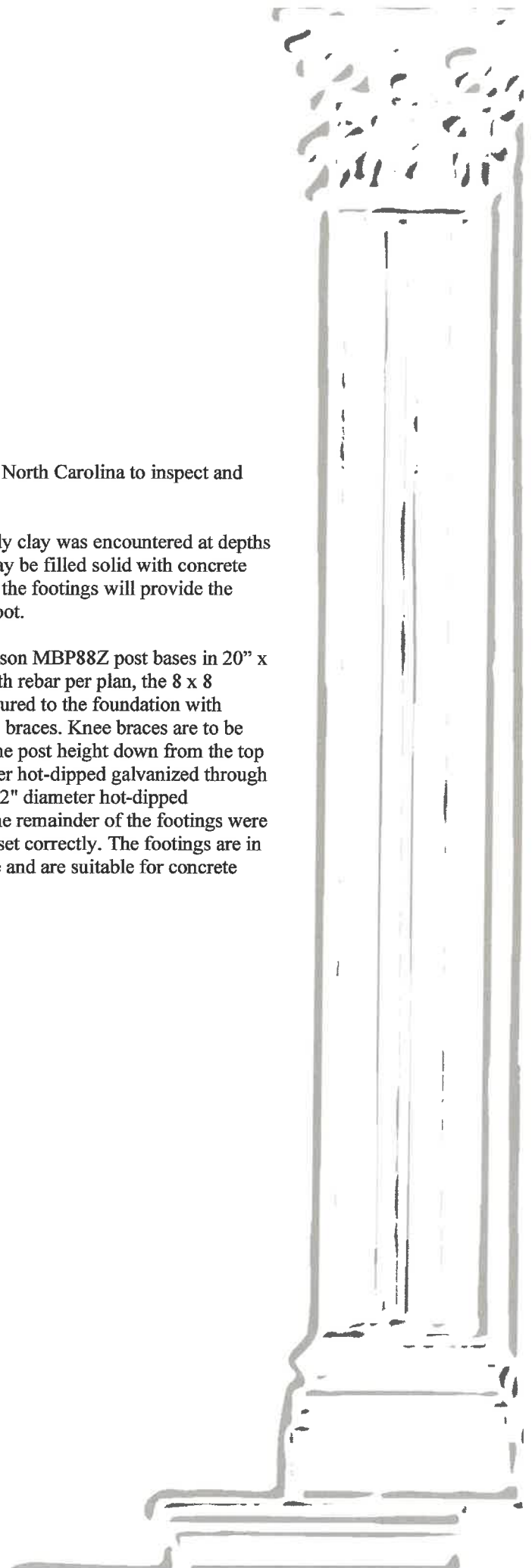
Sincerely,

J.S. Thompson Engineering, Inc.  
N.C. License No. C-1733

Zachary H. Hayes, P.E.



4/14/2023



# Harnett County Inspections Department

## 3<sup>RD</sup> PARTY 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.: SFD2301-0105  
Project Name: CANNELL RESIDENCE Owner: DAVED E. CANNELL  
Project Address: 6573 OLD US 421, LILLINGTON, NC Suite No.:  
Date Inspected: 04/13/2023 Contractor Name: CLIFFORD STEVE THOMAS JR.  
Component Inspected: FOOTINGS FOR STEM WALL FOUNDATION

### Responsible Licensed NC Architect or NC Engineer

Name: ZACHARY H. HAYES, PE  
Firm Name: J.S. THOMPSON ENGINEERING, INC.  
Phone No.: Office (919) 789-9919 Mobile (919) 210-3480  
Email Address: ZACH@JSTHOMPSON.COM  
Mailing Address: 333 E. SIX FORKS RD. STE. 180, RALEIGH, NC

**APPLICABLE CODE SECTION:** 2018 NCRC

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

Describe Element/Component/Type of Inspection: \*

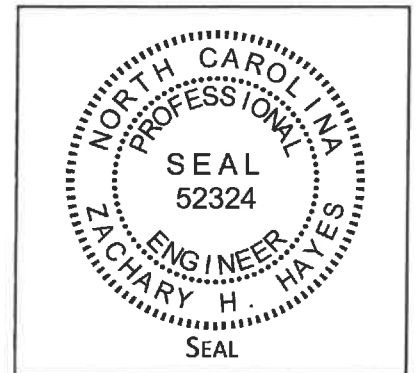
INSPECTION OF FOOTINGS PRIOR TO CONCRETE PLACEMENT TO VERIFY EXCAVATION PER APPROVED PLAN AND IN CONFORMANCE WITH 2018 NCRC. SEE SEALED LETTER FOR ADDITIONAL INFORMATION.

### \*(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 Code or other proposal of the architect or engineer for the project. This inspection is in compliance with all of the requirements of the above referenced Code. Attach any additional documents if needed.

Zachary H. Hayes, P.E.  
LICENSED ARCHITECT OR ENGINEER

Digitally signed by  
Zachary H. Hayes, P.E.  
Date: 2023.04.14  
07:53:53 -04'00'



Inspection Department disclaimer: