



ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

August 10, 2022

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

RE: Exterior Block Wall Base Leveling  
11 Willow Run  
Sanford, NC

Dear Mr. Harrington:

This letter discusses the evaluation of the method used to level the exterior block wall base.

At the base of the exterior continuous footing, leveling for the block wall was conducted by using brick for sections of the block wall. The mortar was no more than 1.5 inches thick. Some of the brick was placed sideways.

The brick typically has a crushing strength of at least 490 psi. The wall will not have a load greater than 4000 pounds/lineal foot, and the brick will have a total load of 750 lbs when place sideways (2-1/4"). The available area for the brick is estimated at 9 inches based on the brick type used (see attached figure). The maximum stress applied to the brick is 83 psi.

The method of leveling for the block wall will provide suitable support for the building loads.

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

Sincerely,



T. Patrick Shillington, P.E.  
President

Attachment: Brick Photo



