



May 21, 2024

Mr. Nick Harrell  
Great Southern Homes  
933 Old Knight Road  
Knightdale, North Carolina 27545

**Subject: Summary of Projection Repair and 3<sup>rd</sup> Party Foundation Inspection  
Lot No. 8 – (159 Grand Griffon Way)  
Griffon Pointe Subdivision  
Lillington, North Carolina  
Permit Number: 2402-0041  
Project Number: 0040.F0001 (40414-01)**

Dear Mr. Harrell:

On May 16, 2024, a representative of UES Professional Solutions 29, Inc. (**UES**) visited the subject site for the purpose of performing a third-party projection and foundation inspection for the residential foundation at the site referenced above. The following is a summary of our onsite observations and evaluations.

It is our understanding that the municipal inspector failed the initial foundation inspection due to missing projections. The following projection repairs were issued by **UES** prior to our site visit.

The new footing shall be a minimum of 10" deep, poured to match the existing footing depth. The new footing shall be secured to the existing footing with #4 rebar dowels spaced at a maximum of 12 inches on center with a minimum of 2 dowels per footing projection segment. The dowels shall be drilled and epoxied, mid-depth, with Simpson SET epoxy or equivalent. The dowel holes should be drilled perpendicular into the existing concrete and shall not be angled. The dowel hole for #4 rebar should be drilled with a 5/8" concrete bit. The rebar dowels shall have a minimum 3" cover and minimum embedment of 5" into both the new and existing footing. The epoxy shall be placed in a hole that is drilled and thoroughly cleaned per the manufacturer's specifications.

During our May 16, 2024 site visit, we observed that the projection repairs were completed in accordance with our above-mentioned recommendations.

Our work included utilizing a ½ inch diameter probe rod to probe adjacent to the existing foundation around the interior and perimeter of the exterior wall foundations of the proposed residential structure. Our representative advanced the probe rod approximately 2 inches away from the exterior wall of the proposed residential structure and encountered the concrete projection from the existing footing in all of the probed locations. We observed that the interior and exterior wall foundations were prepared per the structural plans provided. Based on our measurements, the footing projections and the foundation walls and lugs were prepared per the structural plans provided on site and are in compliance with the 2018 North Carolina Residential Code.

We appreciate the opportunity to assist you during this phase of the project. If you need further assistance or additional information please do not hesitate to contact us.

Sincerely,

**UES Professional Solutions 29, Inc.**

Jeff A. Taylor, P.E.  
Geotechnical Engineer



A handwritten signature in black ink, appearing to read "A. Perry".

Adam D. Perry, E.I.  
Staff Professional

