SINCE 1881

FROEHLING & ROBERTSON, INC.

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327 East Jenkins Street
Fayetteville, NC
NC Engineering License # F-0266

REPORT OF FOUNDATION EVALUATION

Client:	Mike Sellers H&H Multi, LLC 2919 Breezewood Avenue Fayetteville, NC 28303	Date of Evaluation:	October 17-18, 2023
		Location:	**Building 5 – Upper Slab** 260 Gallery Drive
		F&R Project No.:	64B-0033

The footing bearing grade soils consisted of dry to moist, brown orange, clayey sand/sandy clay. Probing the footing bearing grades with a 5/8" diameter T-handle probe rod typically resulted in 1 to 4 inches of penetration with the exception of the left rear corner area, and a plumbing trench. Hand auger borings with Dynamic Cone Penetrometer (DCP) testing were performed at four locations to evaluate the bearing grade conditions. The DCP tests recorded N_c values ranging from 2 to greater than 15 blows per increment (bpi) at/from the bearing grade surface to depths of 0 to 3 feet (with the low blow counts noted in the loose soils areas). F&R recommended that that the contractor remove the loose soil in the plumbing trench (approx. 10 feet long) and in the left rear corner area (approx. 4 feet long) and replace in suitable lifts. F&R returned to the site on October 18 and observed the contractor replacing the loose soils and compacting each lift with a jumping-jack.

Based on our observations, completion of the repairs, probing, and DCP test results at the time of our site visit, it is F&R's opinion that the footing bearing grade soils are suitable for a net allowable soil bearing pressure of 2,000 psf.

All bearing grades should be free of soft, loose, wet, organic, caved-in soils or otherwise deleterious materials and conditions immediately prior to the placement of concrete. Exterior foundations should be embedded at least 12 inches below the final exterior grades. Exterior grades should be sloped to direct surface runoff away from the structure. Provisions should be made to maintain the washed stone layer beneath the slab in a drained condition throughout the life of the structure. F&R did not monitor lot grading activities at location. F&R understands that quality control testing was performed by others during the site development phase of the project, and that any structural fill material placed on the building lots was placed on suitable subgrades and was compacted to at least 95 percent of the fill material's maximum dry density as determined by the Standard Proctor compaction test (ASTM D698). F&R's evaluation is only limited to the bearing grade soils and does not represent the conditions or suitability of native or fill soils that are below the depths evaluated.

Please contact us if you have any questions regarding this report.

Sincerely,
FROEHLING & ROBERTSON, INC.

John J. Wall, P.E.
Project Engineer