



ENGINEERING, INC.

Consulting Structural and Civil Engineers

5907 Raytown Trafficway
Raytown, Missouri 64133
816-356-1445

May 10, 2024

Mr. Chris Shaw
Shaw Construction
P.O. Box 281
Bates City, MO 64011

**Re: Soil Inspection – 361 NW Patch Court, Lees Summit, MO
Lot 155 Reserve at Woodside Ridge**

Mr. Shaw,

At your request, I have inspected the soil conditions at the above referenced site. The inspection took place on May 8 and concentrated on the area of the perimeter footings and the interior spread footings. A 4' long soil probe and visual inspection were used to evaluate the soil conditions.

The building pad is situated on what appears to be a previously undeveloped site and has been excavated to subgrade for the basement. There was a trench excavation at the northwesterly corner of the building approximately 3 feet deep. Probe resistance is stiff to moderate at all locations except the trench. I would estimate that a safe bearing pressure is 1500 psf which would mean perimeter footings 24" wide with 3 #4 continuous and the column footing sizes would need to be 1.33 times the area of what would have been designed for 2000 psf. As an example, a 36" square pad called out on the drawing would need to be 42" square with 5 #4 each way, a 42" square pad called out on the drawing would need to be 54" square with 6 #4 each way, and a 48" square pad called out on the drawing would need to be 60" square with 7 #4 each way. At the trench, I recommend 32" wall footings with 4 #4 continuous.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

