



ENGINEERING, INC.

Consulting Structural and Civil Engineers

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March 30, 2021

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

**Re: Soil Inspection – 3113 SW Blue Ribbon Street, Lees Summit, MO
Lot 53 Summit View Farms**

Mr. Shaw,

At your request, I have inspected the soil conditions at the above referenced site. The inspection took place on the afternoon of March 22 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. Probe resistance was moderate at all perimeter and interior footing locations. I would estimate that a safe bearing pressure is 1500 psf which would mean perimeter footings 24" wide with 3 #4 continuous. At the interior footings, a safe bearing pressure is 1500 psf which means that 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. A gravel pocket was found at the right rear corner of the foundation. The gravel and soil should be excavated as needed to allow the foundation to bear on the original soil below the gravel pocket.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

