



ENGINEERING, INC.

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October 11, 2021

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

**Re: Soil Inspection – 1721 SW Blackstone Place, Lees Summit, MO
Lot 146 Napa Valley – Third Plat**

Mr. Shaw,

At your request, I have inspected the soil conditions at the above referenced site. The inspection took place on October 7, 2021 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 and the interior 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.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

