



ENGINEERING, INC.

Consulting Structural and Civil Engineers

5907 Raytown Trafficway
Raytown, Missouri 64133
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April 9, 2025

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

**Re: Soil Inspection – 4001 SW Mondavi Lane, Lees Summit, MO
Lot 179 Napa Valley**

Mr. Shaw,

At your request, I have inspected the soil conditions at the above referenced site. The inspection took place earlier today 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. Part of the site has been filled to construct the cul-de-sac in the front of the house. Probe resistance was moderate at all locations tested with water at the bottom of some of the holes. There is water seeping from the soil at the right rear corner of the foundation. I would estimate that a safe bearing pressure to be 1500 psf or better 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.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

