



Skeens Consulting Services, LLC

Engineering, Inspections & Design Build

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Date: March 12, 2023

To: Rick Holbrook
Pfeifer Homes, Inc.
1550 SW Market Street, Suite 210
Lee's Summit, MO 64081

Re Masonry Retaining Wall
3069 NW Thoreau Street
Lee's Summit, Missouri 64081



Dear Mr. Holbrook,

Per your requested I have been asked to review the construction and capacity of the modular masonry retaining wall at 3069 NW Thoreau Street in Lee's Summit, Missouri. Per the current building codes any modular retaining wall over 4'-0" tall must be designed by a licensed engineer in the state Missouri. This particular wall is 7'-8" tall and must be reviewed.

I have visited the job site and the wall appears to be in excellent condition and there is some curvature to the wall which gives it some added strength. It is a pinned and soil reinforcement system with reinforcement at every third joint. There is also a continuous cap stone along the perimeter of the wall which appears to also be pinned and glued to the base wall.

I have reviewed the wall using the Keywall Pro Design Program software. The current program version includes 2010 and 2015 AASHTO LRFD design methodology plus NCMA 3RD edition and Rankine design methodologies.

In summary the wall as constructed meet or exceeds current the current requirements for a masonry soil reinforced retaining wall. If you have any questions regarding this report and evaluation, please feel free to contact me.

Respectfully

Michael H. Skeens, P.E.