

September 28, 2023

Valeria Enciso
J & O Roofing and Exteriors
603 N. Santa Fe
Pueblo, CO 81001

Re: 62 Britton Trail, Cuchara, CO

Ms. Enciso:

As you know, we are working with you to improve a foundation for a covered porch that you worked on in the Cuchara, at 62 Britton Trail. We understand that the foundation cast at this location was shallow, and the site is adjacent to a stream, with rock, and water if you dig to any depth. It may have seemed, at the time, that you encountered solid rock, but it is apparent that it was a rock shelf, with soil underneath. This is the most likely reason for season frost heave, even if you placed that footing initially on what seemed to be solid rock.

Huerfano County recommends a frost-resistant depth of 49-inches due to the altitude and location here, and we concur with this depth, given the location. It may be difficult to achieve this depth either safely or easily, but we can provide a number of alternatives to get there, so that we can work the equipment and staff who can do the work.

We need a drawing, or we ourselves can make a site visit to the site to take measurements of the deck and roof, so that we can make a determination or estimate of the amount of weight or the bearing load that each footing, pier, or foundation element needs to resist. At that time, we can complete a design.

Thank you,



0051004
9-28-23

Derek L. Dippon, P.E.

Structural Engineer

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