

January 8, 2026

Mr. Michael Moores
Ward Development
1120 NW Eagle Ridge Blvd
Grain Valley, MO 64029

**RE: 2-Fold Tenant Improvement – 600 NE Maguire Blvd, Lee’s Summit, MO
Response to Correction 7 Noted on Plan Review**

Mr. Moores,

I serve as structural engineer of record on the 2-Fold Tenant Improvement Project, both for the building, and the tenant improvement scope. Correction 7 noted in the building plan review states the following:

“Action required: Provide letter from structural engineer that verifies that existing slab is sufficient to support new walls and floor.”

The new stud walls and columns are bearing on the slab on grade. The provisions within the publication “Designing Floor Slabs on Grade” by Boyd Ringo and Robert Anderson, were used to determine the capacity of the slab on grade to resist these loads. Note that detail 4/S2 shows a very large baseplate with a stiffener plate to spread the load over a longer distance. This was done to eliminate the need for an isolated footing. This was the only case where standard details would not work to bear directly on the slab.

About the method used: The methods in Ringo’s publication are now considered a conservative approach as more recent studies suggest that slabs on grade have much higher capacities than previously estimated. For more information on this, please refer to the works of Shentu, Jiang, & Hsu for a newer elasto-plastic design method. We have conservatively used Ringo’s Method.

In conclusion, I can verify that the existing 6” slab is sufficient to support the new walls and floor. It was carefully considered in the structural design.

Sincerely,



Jeremy Stech, P.E.
Engineering Manager
Needham DBS

