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March 4, 2021

Martin/Martin
12499 West Colfax Avenue
Lakewood, CO 80215

ATTENTION: Mr. Logan Erf, P.E.

Subject: Addendum to Geotechnical Engineering Study, Hoffman Way Parallel Drainage, 88th Avenue to 90th Avenue, Thornton, Colorado

Project No. 20-3-151

Dear Mr. Erf:

This letter presents an addendum to the geotechnical engineering study performed for the proposed Hoffman Way Parallel Drainage, 88th Avenue to 90th Avenue, Thornton, Colorado and presented under our Project No. 20-3-151 dated June 11, 2020 and revised on December 11, 2020. We understand that elevations of foundations may extend soft soils near the groundwater level. Recommendations are provided below regarding foundation construction if the soft soils are encountered.

Based on the foundation subgrade elevations provided and the presence of soft soils near the groundwater level, we recommend soils founded near the groundwater level be improved by overexcavating a minimum of 5 feet below the foundation subgrade elevation (or into bedrock, whichever is shallower) and replacing the excavated materials with properly compacted CDOT Class 6 aggregate base course. We recommend the excavation extend a minimum of 1H : 1V outside the foundation footprint. We also recommend using a woven geosynthetic liner at the base of the excavation to prevent migration of fines into the base course material.

Footings placed on the prepared subgrade described above may be designed for a net allowable bearing pressure of 1,500 psf.

Based on our subsurface investigation, we have assumed an average design groundwater level of 7 feet below the existing grade.

All other recommendations from the original study should be followed for the project.

If you have any questions, or if we can be of further assistance, please contact us.

Sincerely,
KUMAR & ASSOCIATES, INC.

Jacob A. Hanson, P.E.
Project Engineer

Reviewed By:

Joshua L. Barker, P.E.

JAH/
cc: file, book