PanGEO INCORPORATED
Geotechnical & Earthquake Engineering Consultants

March 8, 2022
File No. 21-004.200

Elizabeth Huber
C/O Brandt Architects
Attn: Kate Miller
18915 142nd Avenue NE #140
Woodinville, WA 98072

Subject: **Response to City of Mercer Island Comments**
Re-Cantilever Soldier Pile Wall over 10 feet
9611 SE72nd Street
Mercer Island, WA

Dear Elizabeth,

This letter provides response to the review document from the Kolke Consulting Group, dated December 28, 2021, regarding our September 7, 2021, geotechnical report recommendation for the use of tiebacks for soldier pile walls exceeding 10 feet in height. This recommendation is a generalization that a tieback walls with exposed heights greater than 10 feet may be more economical than a cantilever wall. As well, there may be instances that prelude the use of tiebacks, such as property boundary constraints, which would then favor the use of a cantilever wall, such as conditions for the property at 9611 SE 72nd Street.

Accordingly, we have reviewed the September 14, 2021, structural plans and calculations for the permanent and temporary cantilever soldier pile walls for the above property and, in our opinion, the design of the soldier pile walls is consistent with the recommendations in our geotechnical design report.

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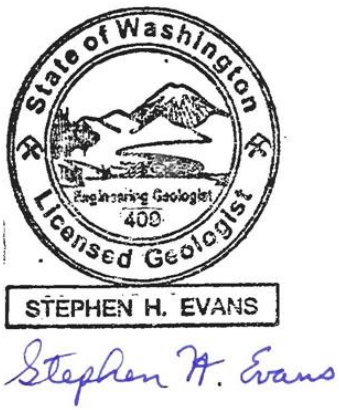
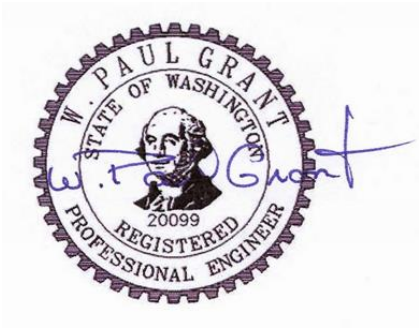
However, we expect that soldier pile drilling will require casing or drilling mud to address groundwater the upper portions of piles P1 through P12. Also, dewatering may be needed to complete lagging installation for these piles.

We trust that this addendum will meet your needs at this time. If needed, we will respond to any geotechnical review comments from the City regarding the cantilever walls. Once the corrections outlined by the City have been incorporated into the design plans, along with the recommendations contained in this Addendum and our report dated September 7, 2021, the revised plans should be forwarded to us for review and to address any additional geotechnical review comments from the City.

Sincerely,





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