

November 8, 2022

JN 22302

Tyler Simpson
via email: tyler_simpson@hotmail.com

Subject: **Review of Plans**
Proposed Remodel and Expansion of Existing Residence
6454 East Mercer Way
Mercer Island, Washington

References: *Subsurface Exploration, Geologic Hazard, and Geotechnical Engineering Report*, subject property; Associated Earth Sciences (AESI); November 12, 2019.

Critical Area Study and Update to Previous Geotechnical Report, Proposed Remodel and Expansion of Existing Residence, 6454 East Mercer Way, Mercer Island, Washington; Geotech Consultants, Inc.; September 1, 2022.

Dear Mr. Simpson:

As required by the City of Mercer Island, we have reviewed the geotechnical aspects of the revised plans, which are to be resubmitted. For our review, we were provided with the architectural plans prepared by Sturman Architects (11/04/2022), civil drawings prepared by NBE (11/07/22), landscape plans developed by The Watershed Company (5/11/2022), and the structural plans prepared by SSF Structural Engineering (9-6-22). These plans were all contained within the 2205-178-SUB2-PLANS submittal set of permit drawings.

As we have recommended, all existing and new foundations will be supported on driven pipe piles. These piles will be interconnected by the existing and new continuous reinforced concrete walls/grade beams. The piles will provide appropriate support in static conditions. The interconnecting continuous foundations will act to prevent collapse of the foundation system if the structure moves as a result of lateral ground spreading. This will provide safety for the occupants.

Statement of Risk: In order to satisfy the City of Mercer Island's requirements, a statement of risk is needed. As such, we make the following statement:

Construction practices are proposed for the alteration that would render the development as safe as if it were not located in a geologically hazardous area and do not adversely impact adjacent properties.

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

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

Marc R. McGinnis, P.E.
Principal



cc: **Sturman Architects**
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11/08/2022