

February 24, 2022

JN 20069

Dale Vogel and Nancy Bird
P.O. Box 1360
Mercer Island, Washington 98040
via email: dalevogel@outlook.com; carly.birdvogel@gmail.com

Subject: **Review of Plans**
Proposed New Residence
4304 E Mercer Way
Mercer Island, Washington

Dear Mr. Vogel and Ms. Bird:

As required by City of Mercer Island, we have completed a general review of the geotechnical aspects of the plans for your new residence. For our review, we were provided with the architectural plans (McClellan Architects; October 25, 2021), structural plans (Gary Gill; September 21, 2021), and civil drawings (Civil Engineering Solutions; February 23, 2022).

As recommended, all but the western basement wall for the new house will be supported on driven pipe piles. The basement slab will be structurally supported on the foundations. The western deck will also be carried on pipe piles. Because the deck columns will be interconnected with grade beams, the use of single piles at the column locations is acceptable.

Civil Engineering Solutions has prepared an excavation plan on Sheet C1.0, which shows the temporary sloped cut needed to excavate and construct the basement foundations.

Architectural sheets A1.1 and civil sheet C2.0 show an on-grade patio off the northeastern corner of the new house. It is important that this patio be constructed without filling on the moderately- to steeply-sloped ground, as that would require an engineered retaining structure founded on dense soil.

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:

It is our professional opinion that the recommendations presented in our report and included in the plans will render the development as safe as if it were not located in a geologically hazardous area, and will not adversely impact critical areas on adjacent properties.

Please contact us if you have any questions regarding this letter.

Respectfully submitted,
GEOTECH CONSULTANTS, INC.

Marc R. McGinnis, P.E.
Principal



cc: **McClellan Architects** – Karen Kline
via email: karen@mccarch.com

2/24/2022