

February 9, 2021

JN 16162

Rahul Shinde
via email: shinde.rahul@gmail.com

Subject: **Review of Deck Foundation System**
New Vaney/Shinde Residence
4207 West Mercer Way
Mercer Island, Washington

A new deck will extend southward from the western half of the residence, which is under construction. We have collaborated with the project team during the design of the foundation system for this deck. The entire foundation of the new house is supported on a system of drilled and driven piles. The new deck will be located on the “knob” of competent glacial till that lies above the steep surrounding slopes.

For our review, we were provided with the February 8, 2021 plans that have been prepared by Studio Ectypos. In accordance with our recommendations, the new deck and the associated stairs will be supported on driven 2-inch-diameter pipe piles. Based on a recent test pile driven at the western end of the proposed deck, and the piles driven for the house, the piles that will support the new deck and stairs are expected to be less than 10 feet in length to reach refusal in the competent glacial till.

The plans that we reviewed conform to our geotechnical recommendations. We provide the following “statement of risk” to satisfy City of Mercer Island conditions:

“It is our professional opinion that the development practices indicated in the reviewed plans should render the development as safe as if it were not located in a geologic hazard area.”

Please contact us if there are any questions regarding this letter.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.



02/09/2021

Marc R. McGinnis, P.E.
Principal

cc: **Studio Ectypos** – Lucia Pirzio-Biroli
via email: lucia@studioectypos.com