

November 16, 2020
File No. 17-381.200

Suzanne Zahr
8110 SE 70th St
Mercer Island, WA 98040

**Subject: Geotechnical Plan Review and Statement of Minimum Risks
Proposed Addition
8110 SE 70th Street, Mercer Island, Washington**

Dear Ms. Zahr,

As requested, PanGEO reviewed the geotechnical engineering aspects of the current plans for the above-referenced project. The plan sheets we reviewed for the proposed project included the following:

1. Architecture Plan Sheets A0.0 through A5.1 dated October 30, 2020 by Suzanne Zahr, Inc.;
2. Structural Plan Sheets S1 through S8 dated October 23, 2020 by Consulting Structural Engineering Services; and
3. Civil Plan Sheets C1 through C4 dated October 13, 2020 by D.R. Strong Consulting Engineers Inc.

In general, it is our opinion that the plans reviewed had incorporated all substantial geotechnical recommendations presented in our revised geotechnical report dated August 6, 2020.

STATEMENT OF MINIMUM RISKS

We understand that the site is mapped as a geologic hazard area. Per Mercer Island City Code Section 19.07.060.D.2, development within geologic hazard areas and critical slopes may occur if the geotechnical engineer provides a statement of risk with supporting documentation indicating that one of the following conditions can be met:

- a. The geologic hazard area will be modified, or the development has been designed so that the risk to the lot and adjacent property is eliminated or mitigated such that the site is determined to be safe; or
- b. An evaluation of site specific subsurface conditions demonstrates that the proposed development is not located in a geologic hazard area; or
- c. Development practices are proposed for the alteration that would render the development as safe as if it were not located in a geologic hazard area; or
- d. The alteration is so minor as not to pose a threat to the public health, safety, and welfare.

It is out opinion that Criterion © can be met through best management practices during construction, including the proper use of silt fence, minimize earthwork activities during periods heavy precipitations, minimized exposed areas in wet season, etc. Permanent erosion control measures including landscape and hardscape installations will effectively mitigate the risk of erosion in the long term.

CLOSURE

We trust that the information outlined in this letter meets your need at this time. Please call if you have any questions.

Sincerely,



11/16/2020

Michael H. Xue, P.E.
Principal Geotechnical Engineer