

September 11, 2020  
File No. 15-040.200

Jennifer & Carl Olsen  
9916 SW 112th Street  
Vashon, WA, 98070

**Subject: Geotechnical Options for Foundation Design  
Olsen Residence  
9916 SW 112<sup>th</sup> Street, Vashon, Washington**

Dear Jennifer and Carl,

As requested, this letter is prepared to provide our opinions for the existing foundation re-design for the above project. Based on the information provided to us, we understand that, during demolition, it was discovered that the existing foundations and walls have minimal or no steel reinforcement, and did not have adequate structural capacity. As a result, it is proposed to remove the existing foundations and walls and replace with new concrete footings and walls. We also understand that the existing basement is located at least 10 feet from the east property line, and the foundation level is about 8 feet below the existing grade. As such, sufficient space is available for unsupported 1H:1V or flatter open cuts. In our opinion, the proposed basement foundation replacement is feasible from a geotechnical standpoint, and our foundation design recommendations presented in our original geotechnical report can be used for design.

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

Sincerely,



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