

April 24, 2025
File No. 20-174

Jason Brothers, Inc.
50 Poncho, Irvine, CA 92602
Attn: Charlie Du

**Subject: Geotechnical Engineering Report Addendum
Critical Areas Mitigation Sequence and Landslide Hazard Area Buffers
Proposed Residence
4006 East Mercer Way, Mercer Island, WA**

Dear Charlie,

As requested, we prepared this report addendum to respond to city review comments and to provide our additional geotechnical opinions and recommendations pertinent to the Critical Areas Mitigation Sequence and Landslide Hazard Area Buffers for the above project. The following sections present our opinions and recommendations for the mitigation sequence and landslide hazard buffer.

CRITICAL AREAS MITIGATION SEQUENCE

1. The project is designed to limit the ground disturbance to the maximum extent possible.
2. Pin piles are used in the eastern portion of the site to limit the over-excavation depth and backfilling. As a result, it reduces the impact on the critical areas at this site.
3. Temporary shoring and support are used to limit the excavation extend and therefore it reduces the impact on the critical areas at this site and adjacent properties.
4. The temporary excavations will be backfilled to restore the grade outside of the proposed reduce to limit the impact on the critical areas.

In summary, in our opinion, proper mitigations have implemented in the current design such that the potential risk of mapped geologic hazards is eliminated or mitigated such that the site is determined to be safe.

LANDSLIDE HAZARD AREA BUFFERS

The subject site is mapped within a potential landslide hazard area according to the City of Mercer Island's Geologic Hazards Map. However, based on the results of our geotechnical study and the proposed design, it is our opinion that the landslide hazard is considered negligible and buffers associated with landslide hazard is not needed.

CLOSURE

We appreciate the opportunity to be of service. Please contact us if you have any questions.

Sincerely,



4/24/2025

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