



Cobalt Geosciences, LLC
P.O. Box 1792
North Bend, WA 98045

July 28, 2025

Artoush Fanaiyan
Artoush76@yahoo.com

RE: Plan Review
Proposed Residence
5818 W. Mercer Way
Mercer Island, Washington

In accordance with your authorization, Cobalt Geosciences, LLC has prepared a plan review for the project.

We have reviewed the architectural plans by Centerline Design dated July 25, 2025, structural plans by Atlas Consulting dated June 2025 with updates July 25, 2025 and civil plans by Civil Engineering Solutions dated June 8, 2025.

We have reviewed the plans and have no comments at this time. We have included an updated pressure diagram for a pile wall with two rows of tiebacks.

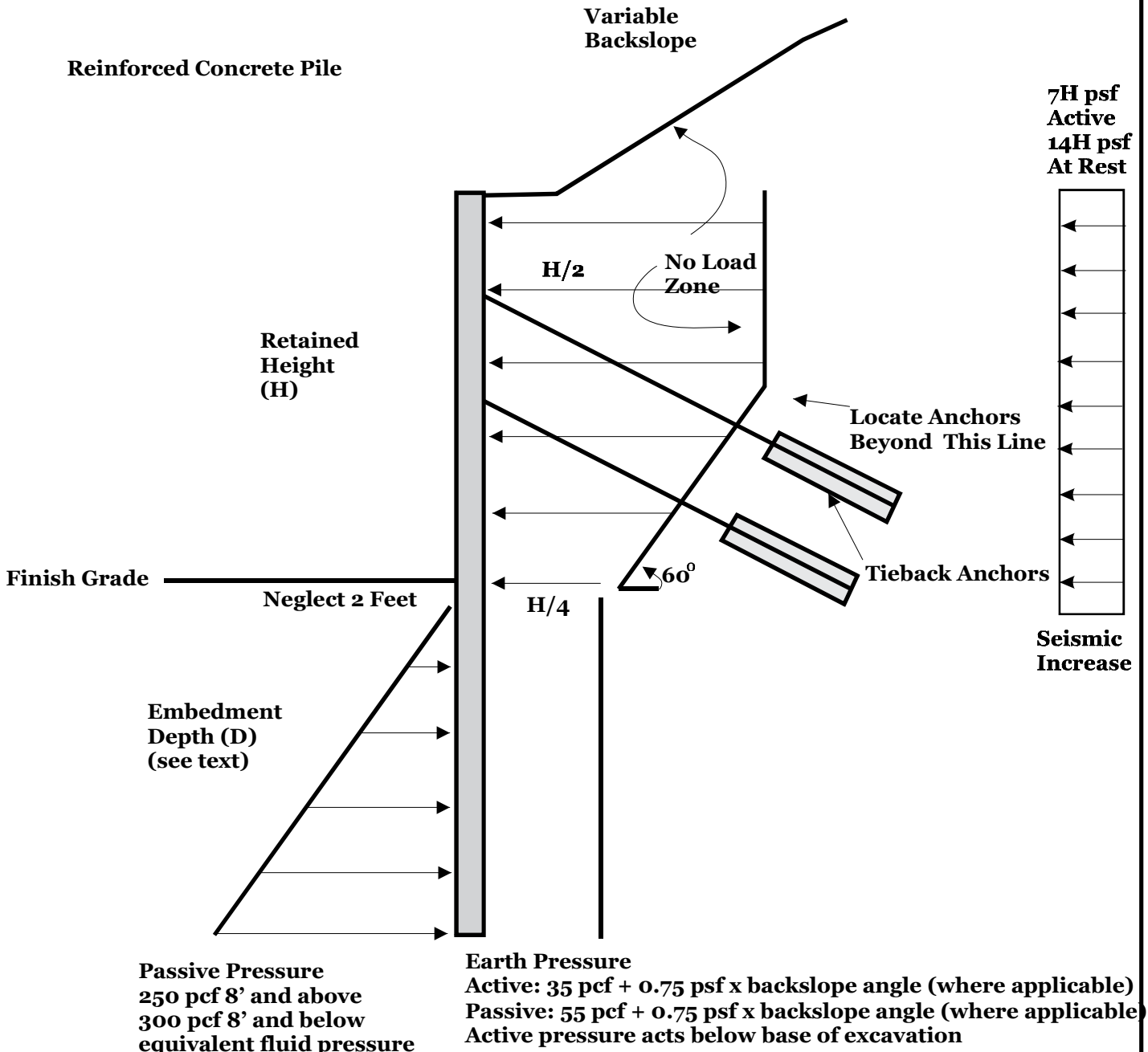
We must be on site to verify aspects of construction, including soldier pile walls, tieback testing and placement, excavations, drainage placement, foundation bearing, fill compaction, and aspects of Ultra block wall construction including deepened embedment per our recent letter and geogrid placement.

Sincerely,

Cobalt Geosciences, LLC



7/28/2025
Phil Haberman, PE, LG, LEG
Principal



Notes:

- See report for additional specific information
- Soil pressures act over the pile spacing
- Passive pressures act over twice the grouted pile diameter on the pile spacing, whichever is smaller
- Assumed no hydrostatic pressures act on the back of the walls
- At least 2 anchors (3 percent) to be tested to 200 percent of the design load
- Preliminary adhesion of 3 kips per lineal foot (pressure grouted with post grouting)



Proposed Residence
5818 W. Mercer Way
Mercer Island, Washington

**Soldier Pile
Wall with
Tiebacks**

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