


# Washington State Convention Center

## Geotechnical Conditions and Challenges



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# Acknowledgement

- Pine Street Group – Owner's Representative
- Clark/Lewis JV

# WSCC Project

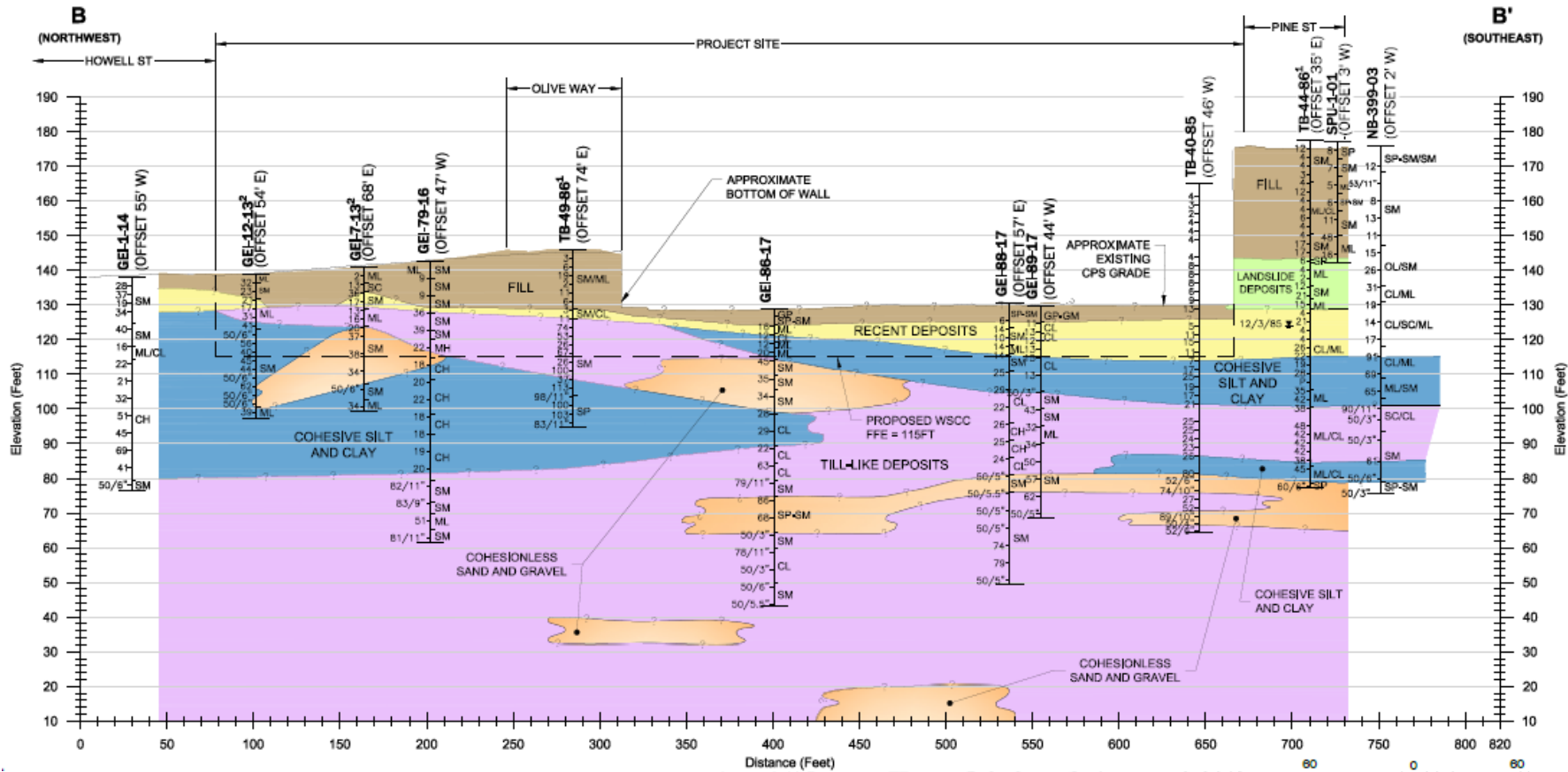


- The WSCC Addition site is bounded by Howell Street, Boren Street, Pine Street, and 9th Avenue in Seattle, Washington.
- A new sixteen-level convention center building with two below-grade levels that include flexible space (35 to 75 feet excavation).
- Co-development includes a high-rise residential tower and a high-rise commercial tower.

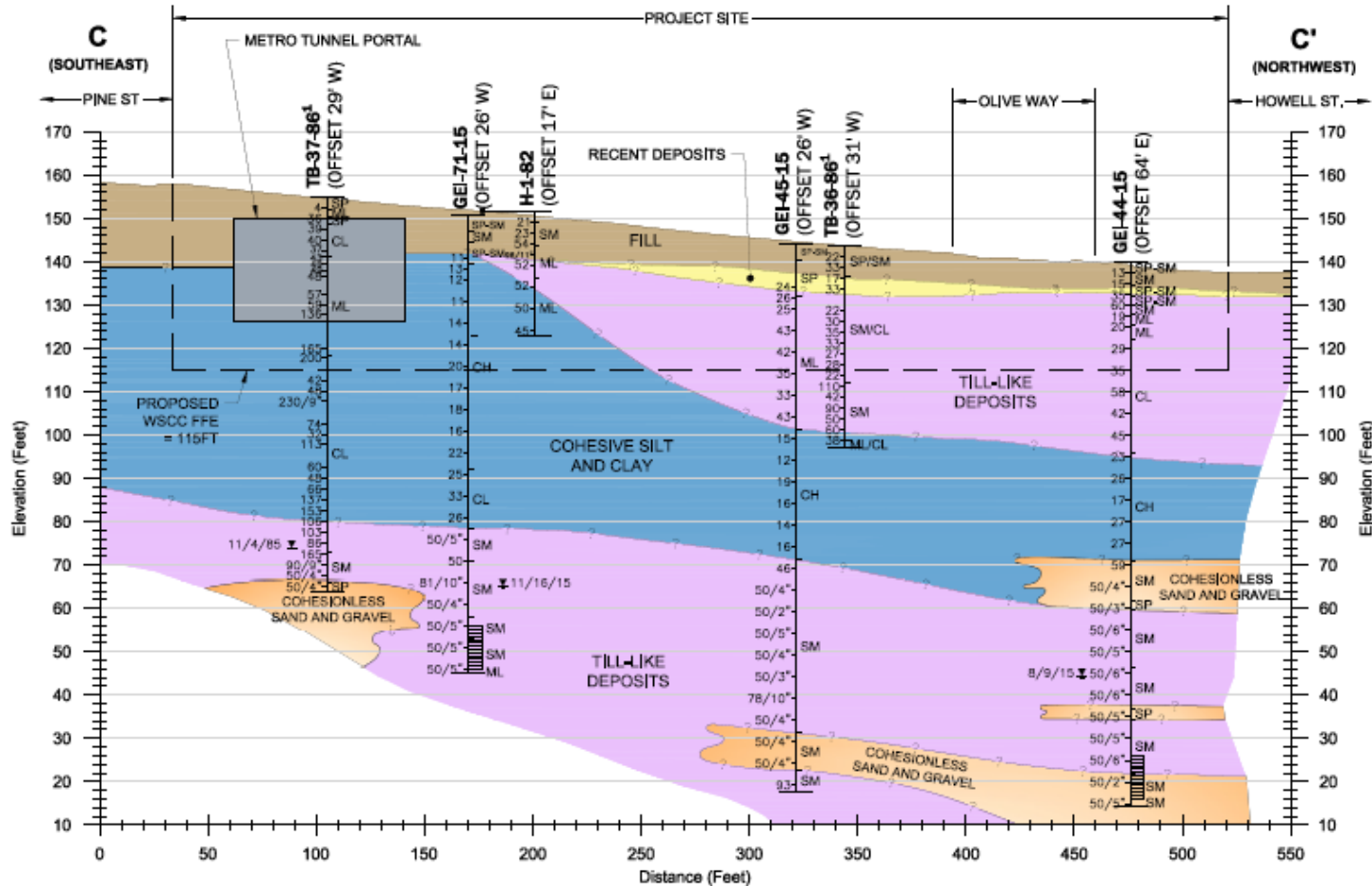
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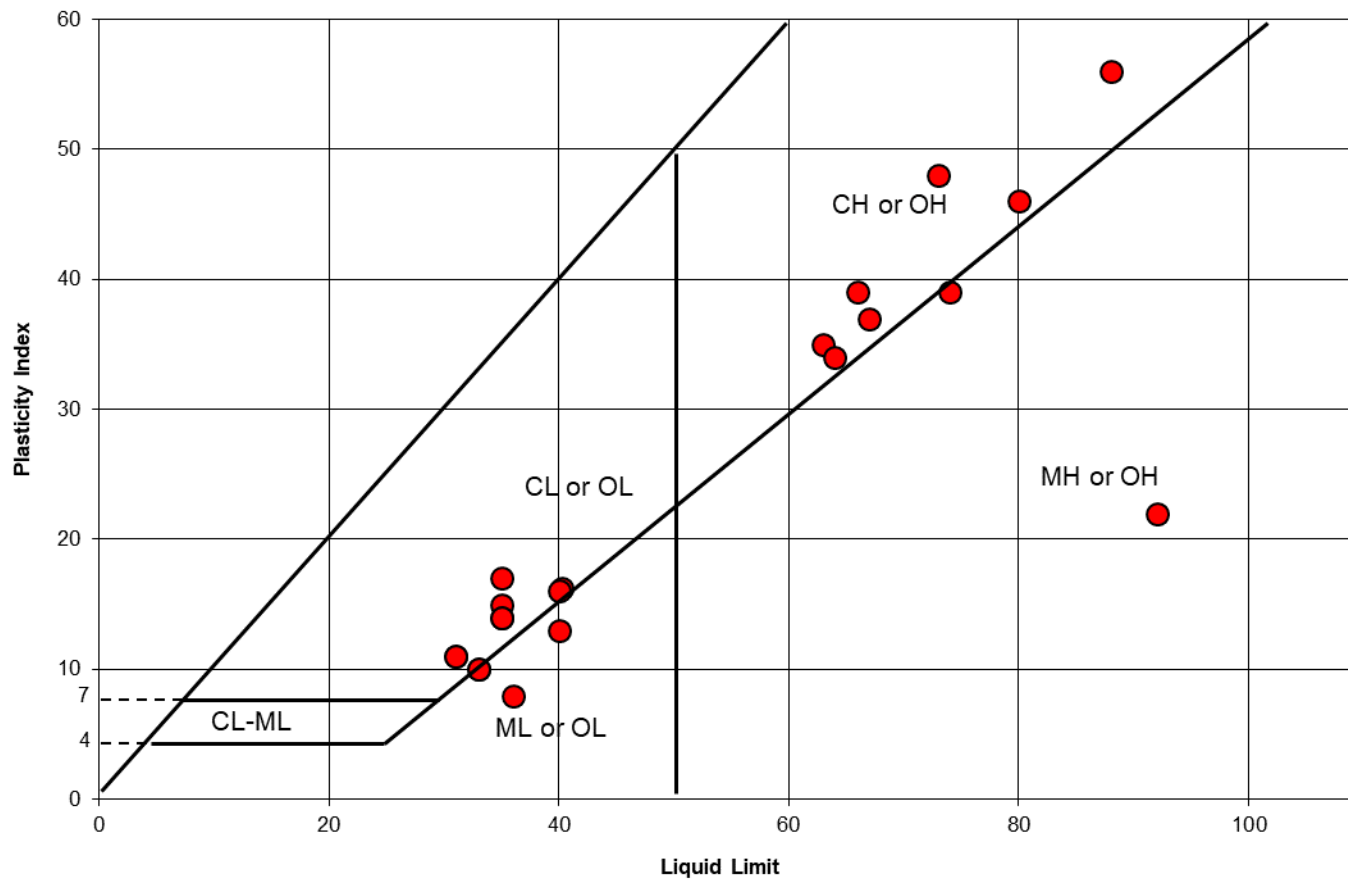
# Generalized Subsurface Soil Profile (BB')



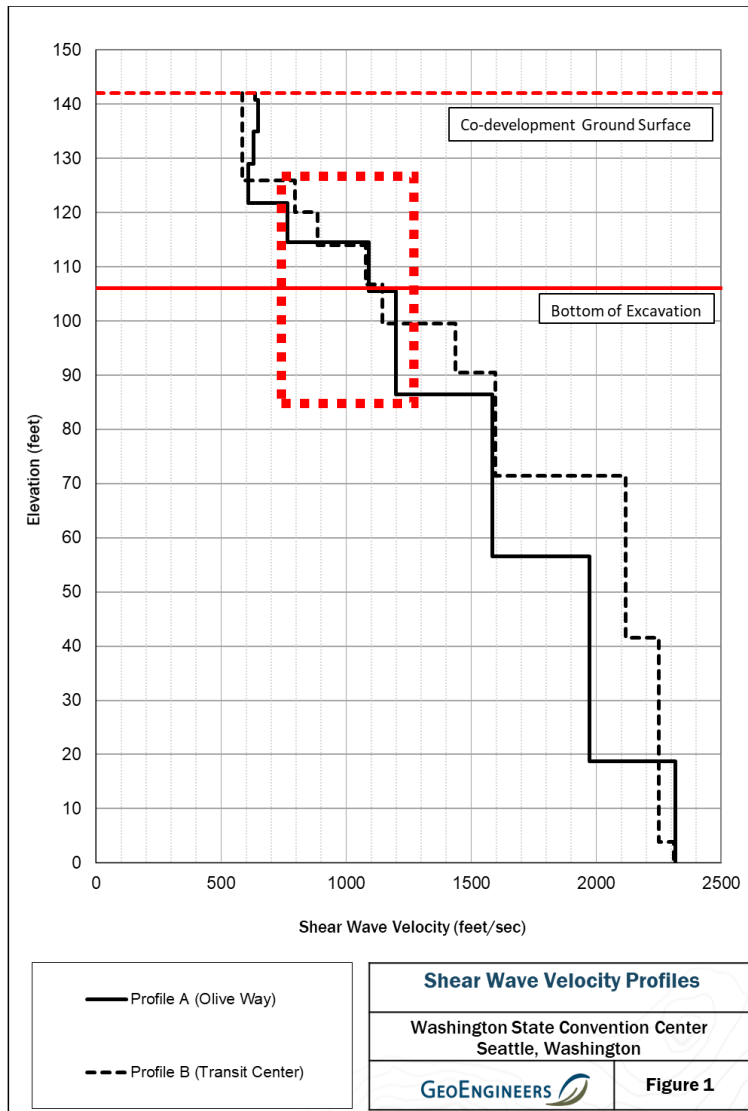
# Generalized Subsurface Soil Profile (CC')



# AL Test Results: Cohesive Silt and Clay



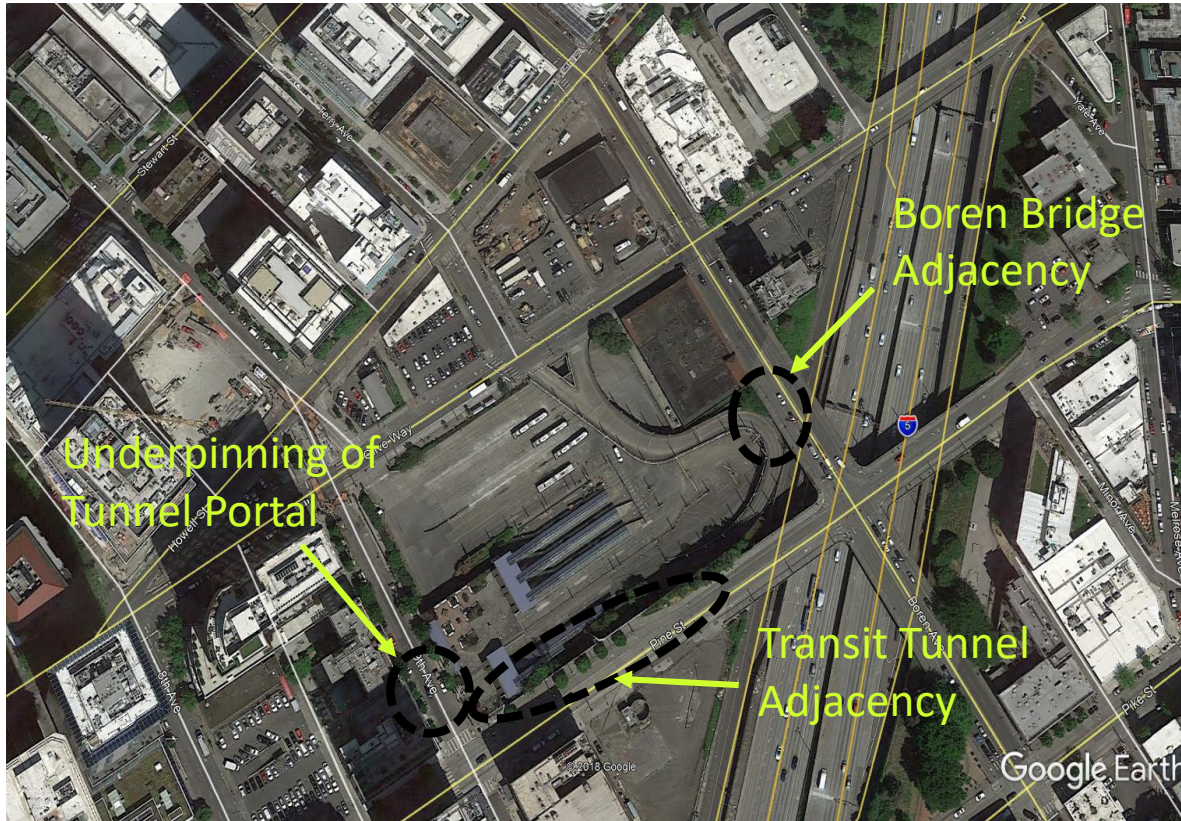
# Vs Measurements: Cohesive Silt and Clay



- Measured Vs in the Cohesive Silt and Clay unit ranges from about 800 ft/s to 1,200 ft/s.
- Consistent with the Vs values measured in the same geologic unit at nearby sites.



# GT Challenges – Support of Excavation



Deformation Control is Critical!