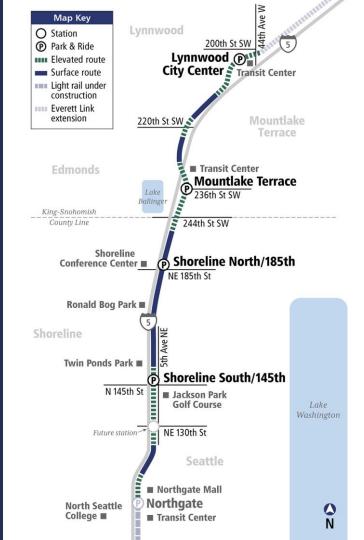


Lynnwood Link Extension

- Extends light rail 8.5 miles north from Northgate to Lynnwood
- Includes transit guideway and 2 stations with garages in Shoreline
- Peak service every 4 minutes
- Construction begins early 2019
- Start of service: 2024







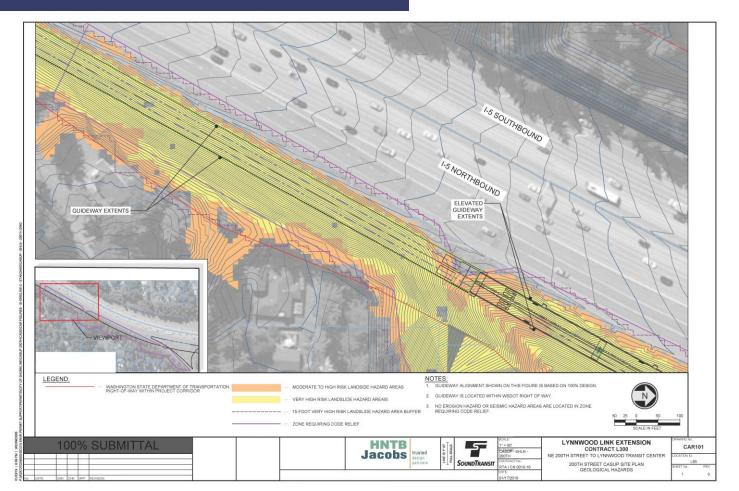
Proposal

As part of the Lynnwood Link Extension (LLE), Sound Transit proposes to construct a portion of the elevated guideway in a WSDOT-owned embankment that currently does not meet City's minimum factor of safety for dynamic conditions.

- Factor of safety is the ratio of resisting forces to driving forces, and in this context, refers to the resisting force from the soil embankment to sliding forces
- Requesting relief from SMC 20.80.224, Item F Design Criteria for Alteration of Very High Risk Landslide Areas
- Sound Transit's proposal meets all of the decision criteria set forth in SMC 20.30.333(B)

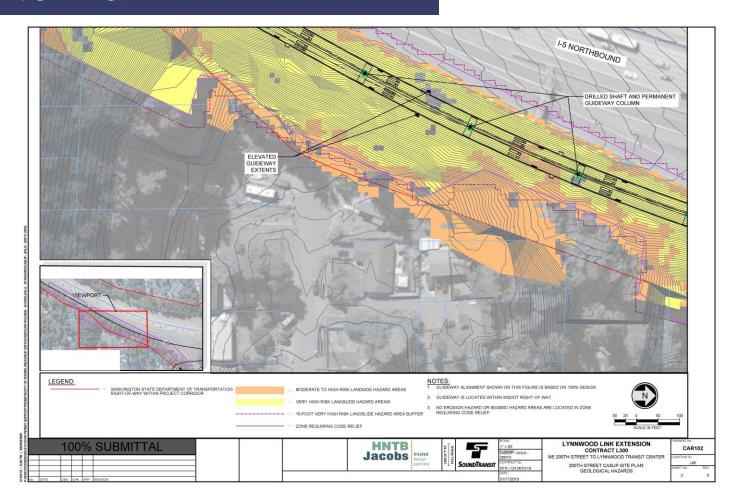
Site Plan





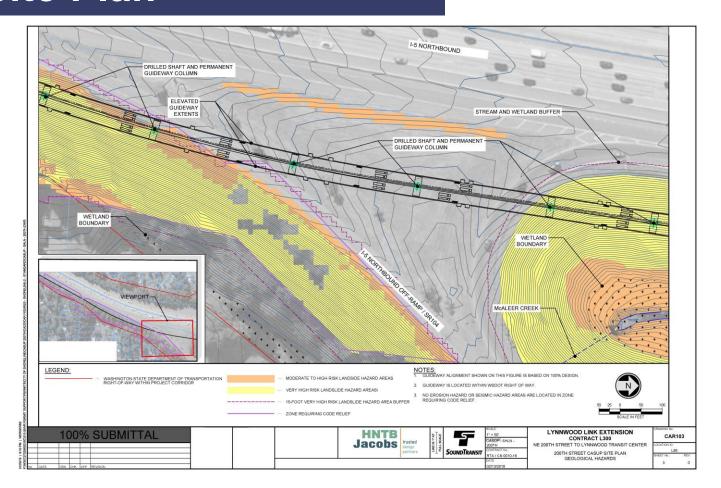
Site Plan





Site Plan







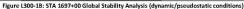
Existing Conditions

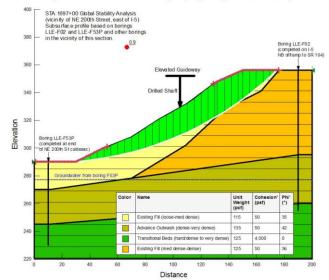
Geologic Hazard Areas

- Very high risk landslide hazard area steep WSDOT embankment
 - Existing slopes consist of structural fill placed by WSDOT during construction of I-5
 - Slope does not meet minimum factor of safety of 1.2 for dynamic/seismic condition required per SMC 20.80.224(F)









Lynnwood Link Extension | Northgate Station to Lynnwood Transit Center December 18, 2018

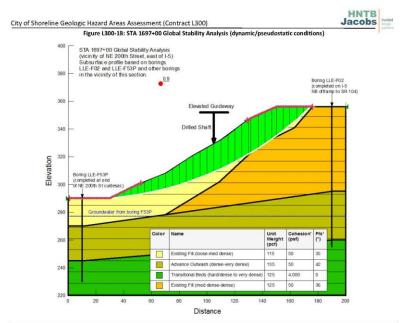
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Impacts

Geologic Hazard Areas

- 1. Placement of guideway columns and drilled shafts in slope area
 - Will provide permanent reinforcement and moderately improve stability
- 2. Vegetation removal, cut slopes, retaining walls
 - Will not decrease factor of safety for landslide occurrences
- 3. As designed, project will not increase risk of hazard to people or property



Lynnwood Link Extension | Northgate Station to Lynnwood Transit Center December 18, 2018

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Mitigation

Restoration of Temporarily Impacted Areas

- Implement appropriate Best Management Practices during construction
- 2. Replanting and restoring disturbed areas after construction
- Efforts to bring WSDOT-owned steep slopes up to SMC standards for factors of safety are not practical or feasible
 - Sound Transit is not authorized to modify WSDOT-owned and constructed embankment
 - Improving WSDOT's embankment is beyond scope of light rail project
 - It would require extensive reconstruction that could adversely impact I-5 traffic and operations



Conclusion

Request for Release from SMC 20.80.224(F)

- 1. The intent of the design criteria are met
 - Slopes are not naturally-occurring they are engineered embankments
 - Project will not increase risk of landslide and measures to reduce risk are incorporated into plans
 - Project will not decrease slope stability on site or adjacent properties but will increase stability