



NOT TO SCALE

NOTES

1. This figure is not for construction. It should only be used for information pertaining to potential design concepts. Final design should be based on site-specific conditions and accomplished by a geotechnical engineer licensed as a professional engineer.
2. The landslide impact force should be computed using the anticipated speed of the landslide debris and H_1 .
3. Increase allowable stresses in structural members as appropriate for transient loading.
4. Use 50% of active pressures for lagging design.
5. See additional design recommendations for soldier pile walls on Figure 2-12 (sheet 3 of 3).

LEGEND

- H_1 = Landslide Catchment Height (ft)
- H = Retained Height (ft)
- H_s = Equivalent Surcharge Height (ft)
- D = Embedment Depth (ft)
- K_a = Active Earth Pressure Coefficient
- K_p = Passive Earth Pressure Coefficient
- γ = Unit Weight of Soil
- B = Soldier Pile Width (ft)

Seattle Landslide Study Seattle Public Utilities Seattle, Washington	
TYPICAL SOLDIER PILE CATCHMENT WALL	
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SHANNON & WILSON, INC. Geotechnical and Environmental Consultants	FIG. 2-19