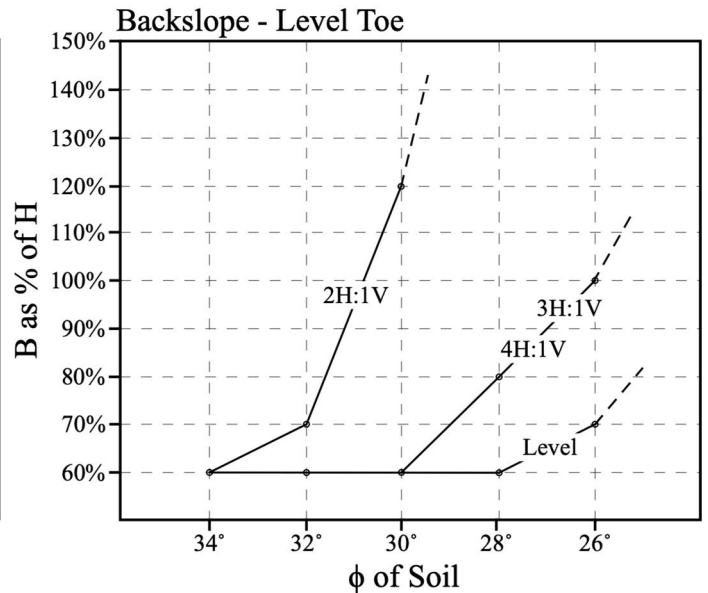
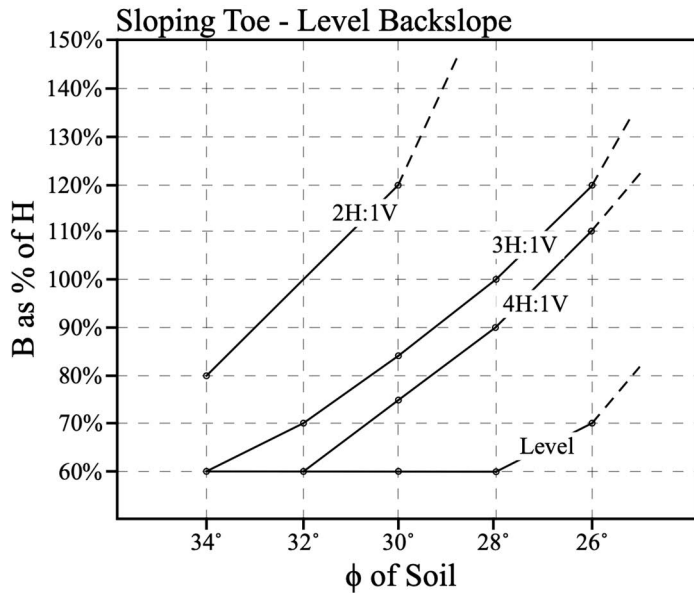
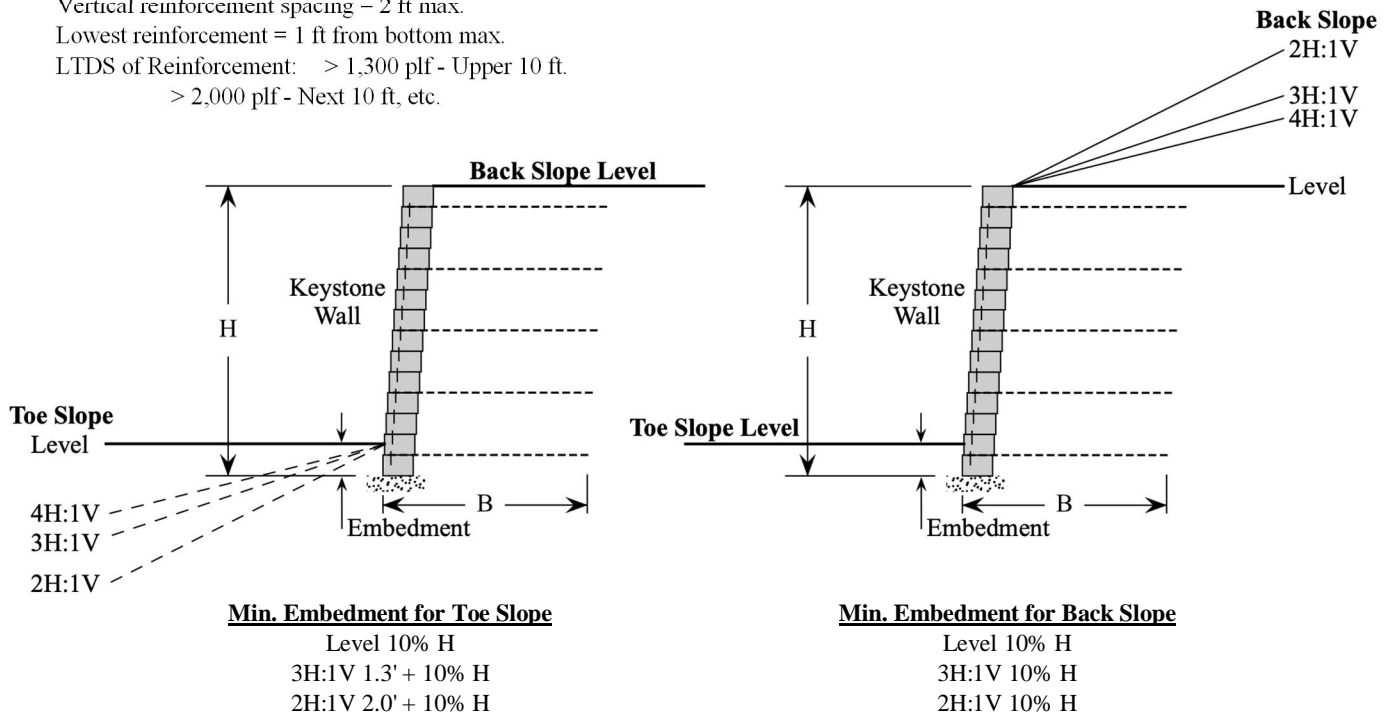


# Single Wall - Slope Stability Ratios

The following figures and graphs provide a guide to the relationship between walls and slopes and the B to H ratio required to estimate basic global stability requirements for simple  $\phi$  only soil strength criteria. Slopes 2H:1V and greater require special attention to soil design parameters. Slope Stability Ratios are not to be used for construction.

**Assumptions of Simple Stability Analysis**

- FS > 1.3 min, Bishop,
- No significant surcharge,  $\gamma = 120$  pcf, all soils same strength
- Vertical reinforcement spacing - 2 ft max.
- Lowest reinforcement = 1 ft from bottom max.
- LTDS of Reinforcement: > 1,300 plf - Upper 10 ft.  
> 2,000 plf - Next 10 ft, etc.



**Note: The Slope Stability Ratios are for preliminary estimation only and should not be used for construction without review by a qualified engineer.**