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This page shows preliminary guides for soil reinforcement required to construct a wall with HIGH FORMAT® Outcropping blocks in the conditions noted below. Refer to typical wall sections for all other details.

- These drawings are for preliminary reference only (not for final construction).
- **Final designs for construction must be prepared by a registered professional engineer using the actual conditions of the proposed site. Wall stability, including global stability, must be verified for site specific conditions.**
- Final wall design must address internal and external drainage and shall be evaluated by the professional engineer who is responsible for the wall design.
- Geogrid layers are to be placed against the backside of the wall at the indicated height above the base.
- Length of geogrid is measured from the rear of the Outcropping blocks.
- Slope stability and seismic conditions are not included in these guides and must be analyzed based on site specific conditions.
- These guides assume a flat "toe" slope at the bottom of the wall. Toe slopes must be analyzed based on site conditions.
- Minimum factors of safety for the assumed conditions shown above are 1.5 for sliding, 2.0 for overturning (1.5 for non-reinforced section), and 2.0 for bearing capacity.
- Designs are in general accordance with NCMA's Design Manual for Segmental Retaining Walls, 2nd Edition.
- Reinforced and backfill soils are to be compacted to 95% maximum density (Standard Proctor).
- All Outcropping Specifications are to be followed.

H = Height From Top of Stone Leveling Pad  
L = Length of Geogrid

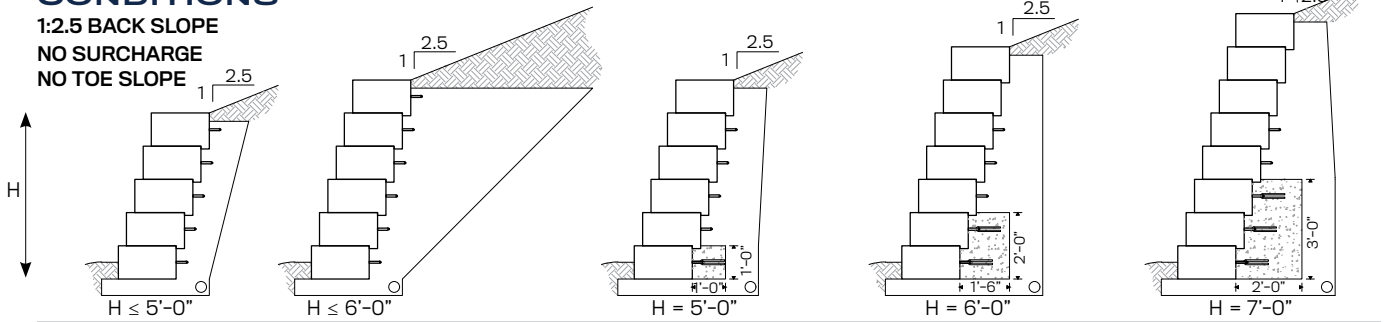
VP = Vertical Placement (bottom of blocks / top of stone leveling pad)

### DENSE WELL-GRADED SAND, SAND AND GRAVEL

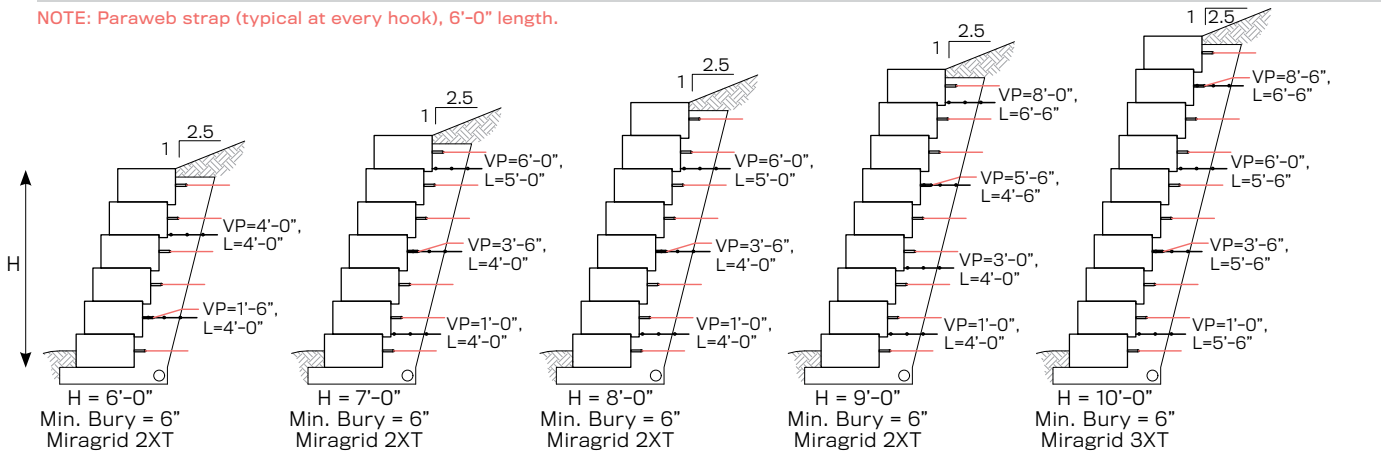
$\phi = 34^\circ$   
(unless noted otherwise)

#### CONDITIONS

1:2.5 BACK SLOPE  
NO SURCHARGE  
NO TOE SLOPE



NOTE: Paraweb strap (typical at every hook), 6'-0" length.



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