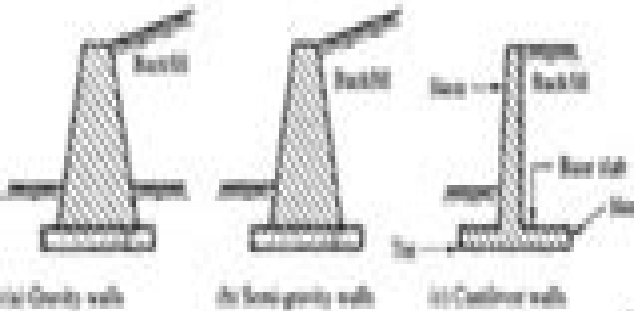


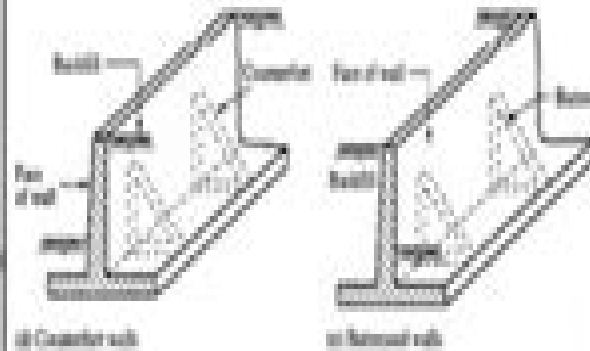
Conventional Retaining Walls

- Gravity Retaining Structures
 - Stability depends on the self weight of the wall
 - Not economical for design
- Semi-gravity Retaining Structures
 - Minimum amount of reinforcement may be used in the wall to reduce the size of wall
- Counterfort Retaining Walls
 - Reinforced concrete is used in wall design with thin stem and slab base
 - Relatively economical for design

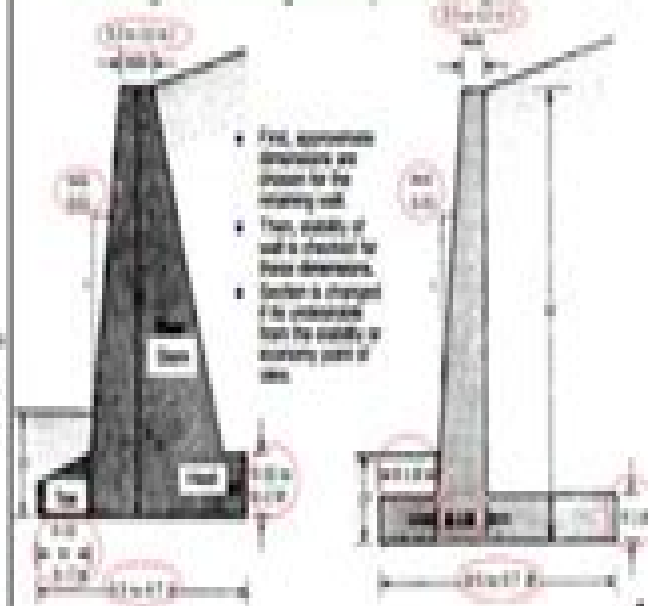


Conventional Retaining Walls

- Counterfort/Butressed Retaining walls
 - Similar to Cantilever retaining walls, but thin slab stems may be used at some interval to tie the base slab and stem in order to reduce the shear force and bending moment for more economical design



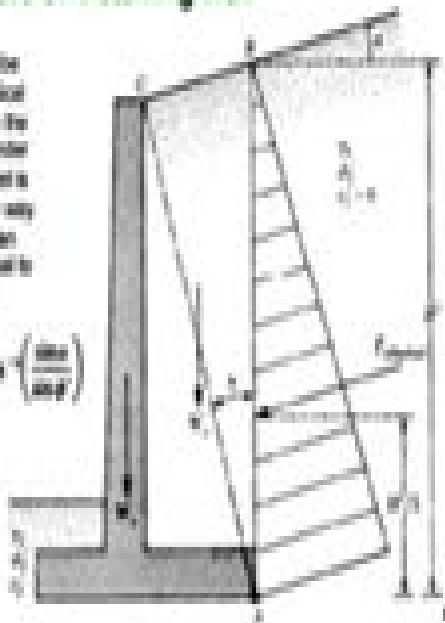
Retaining Wall Design: Proportioning



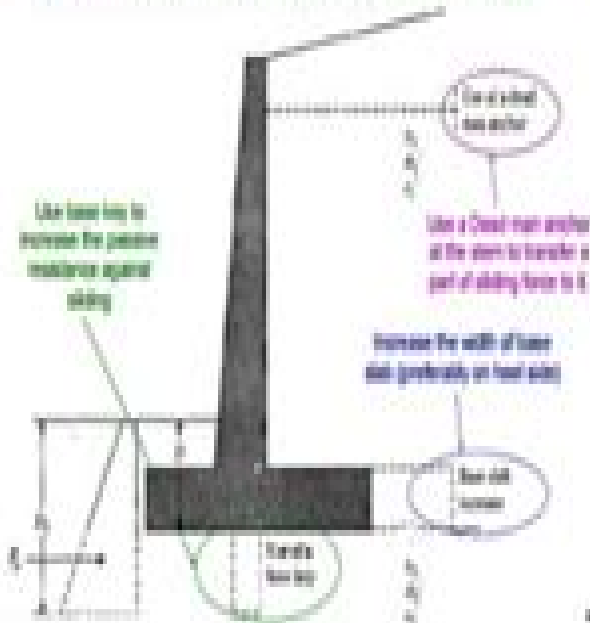
Earth Pressure on Retaining Wall

Earth pressure may be calculated at the vertical section going through the heel of wall. This is under the constraint that heel is proportioned in such a way that line AC makes an angle less than or equal to ϕ with vertical.

$$\phi < \theta = \frac{H}{B} - \frac{H}{T} = \tan^{-1} \left(\frac{H(B-T)}{BT} \right)$$

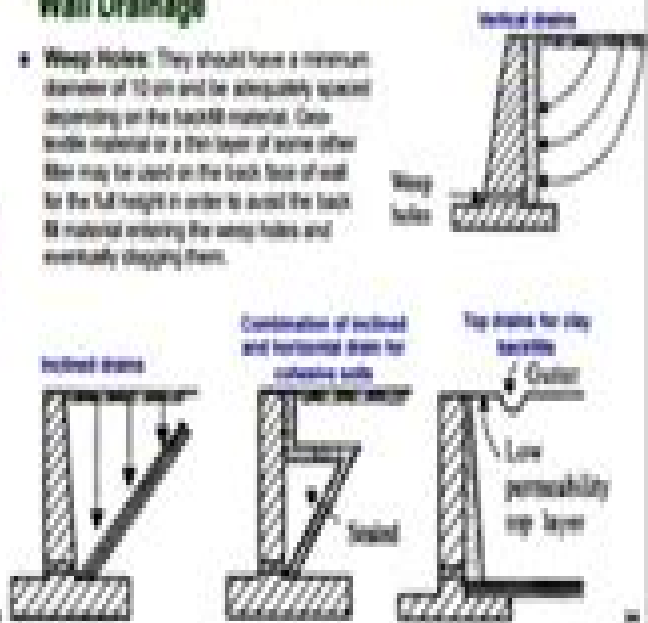


Alternatives for Improving FOS against Sliding



Wall Drainage

- Weep Holes: They should have a minimum diameter of 10 mm and be adequately spaced depending on the backfill material. Geotextile material or a thin layer of some other filter may be used on the back face of wall for the full height in order to avoid the backfill material entering the weep holes and eventually clogging them.



Concrete Retaining Wall Design Guide

James E. Amrhein



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Retaining Walls Tina Skinner, National Concrete Masonry Association, 2003 The National Concrete Masonry Association presents the essential guide to constructing segmental retaining walls with detailed easy to follow diagrams and charts for do it yourself homeowners and landscape contractors alike From the fundamentals to the latest research and modern techniques in segmental retaining wall construction this colorful and inspiring gallery of design suggestions accompanies the expertly written step by step guide and offers a plethora of landscaping ideas ilable and will inspire great new designs for all landscape styles

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Cost-effective and Sustainable Road Slope

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Grand Canyon National Park Architectural Character Guidelines ,1994

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