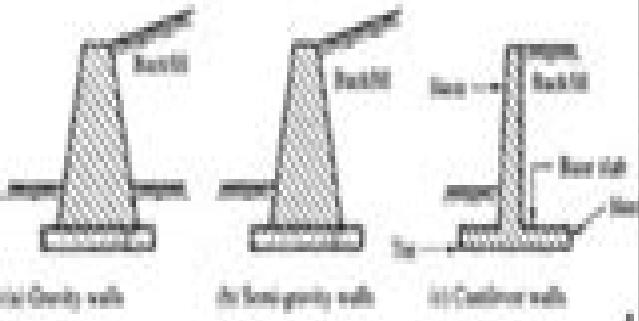


## Conventional Retaining Walls

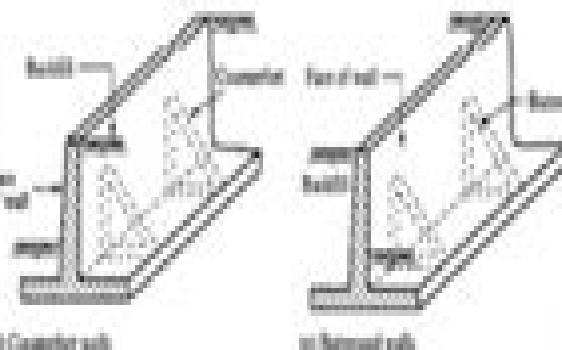
- Gravity Retaining Structures
  - Stability depends on the self-weight of the wall
  - Not economical to design
- Semi-gravity Retaining Structures
  - Various types of reinforcement may be used in the wall to reduce the size of wall
- Cantilever Retaining Walls
  - Reinforced concrete is used in wall design with thin stem and thick base
  - Relatively economical to design



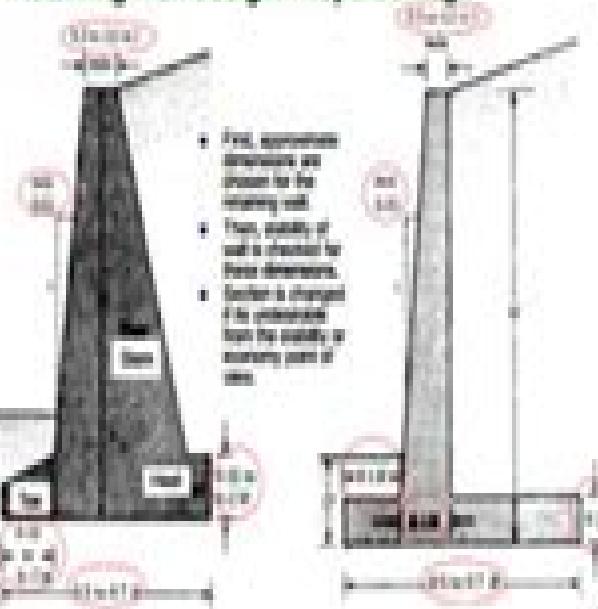
## Conventional Retaining Walls

### • Counterfort/Bluesteed Retaining walls

- Similar to Cantilever retaining walls, but the stiff plates may be used at some interval to the the base slab and stem in order to reduce the shear force and bending moment for more economical design



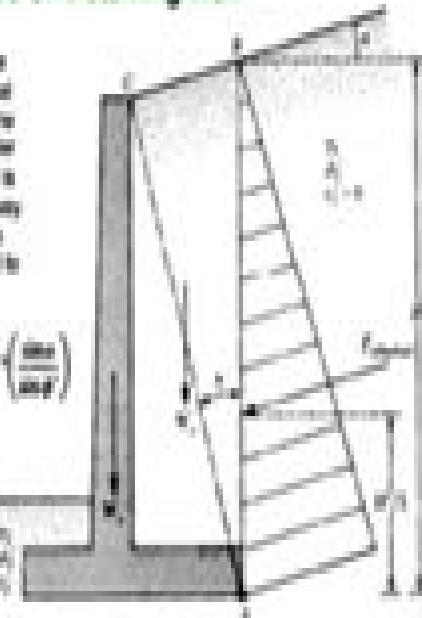
## Retaining Wall Design: Proportioning



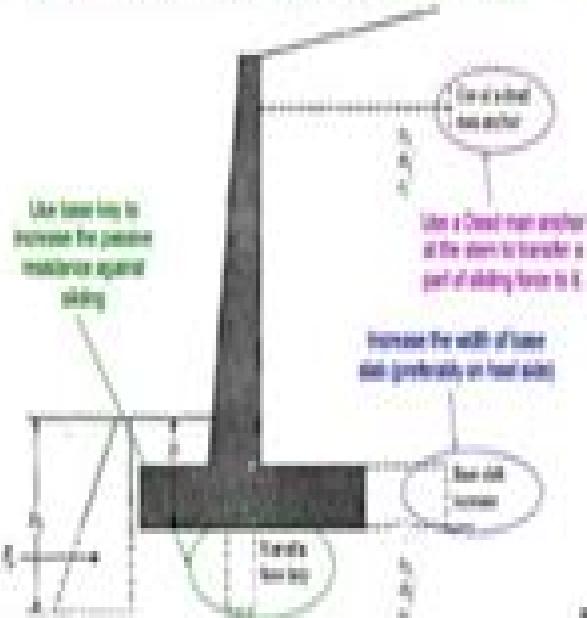
## Earth Pressure on Retaining Wall

Earth pressure may be calculated at the vertical section going through the heel of wall. This is under the condition that heel is proportioned in such a way that the FOS against an angle less than or equal to  $\phi$  with vertical.

$$P = \sigma_b + \frac{\sigma_b}{1 - \cos\phi} + \frac{\sigma_b}{1 - \cos\phi} \tan\phi \left( \frac{H}{\sin\phi} \right)$$

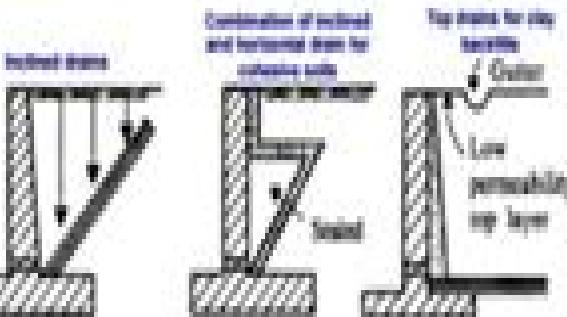
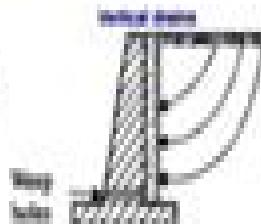


## Alternatives for Improving FOS against Sliding



## Wall Drainage

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



# Concrete Retaining Wall Design Guide

**James E. Amrhein**

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