

Q.2

Counterfort retaining wall: A counterfort retaining wall is a cantilever wall with counterforts or buttresses, attached to the inside face of the wall to further resist lateral thrust. Some common material used for retaining walls are treated lumber, concrete block systems, poured concrete, stone & brick.

- * Counterfort retaining walls have thin vertical slab known as counterfort spaced across the vertical stem at regular intervals.
- * Counterforts the vertical stem with the base slab.
- * The purpose of providing counterforts is to reduce shear force & bending moment in the vertical stem & the base slab.
- * A buttress wall is similar to a counterfort wall is transverse support walls are located on the side of the stem.
- * Counterfort is more widely used than a buttress because the counterfort is hidden beneath the retained material.