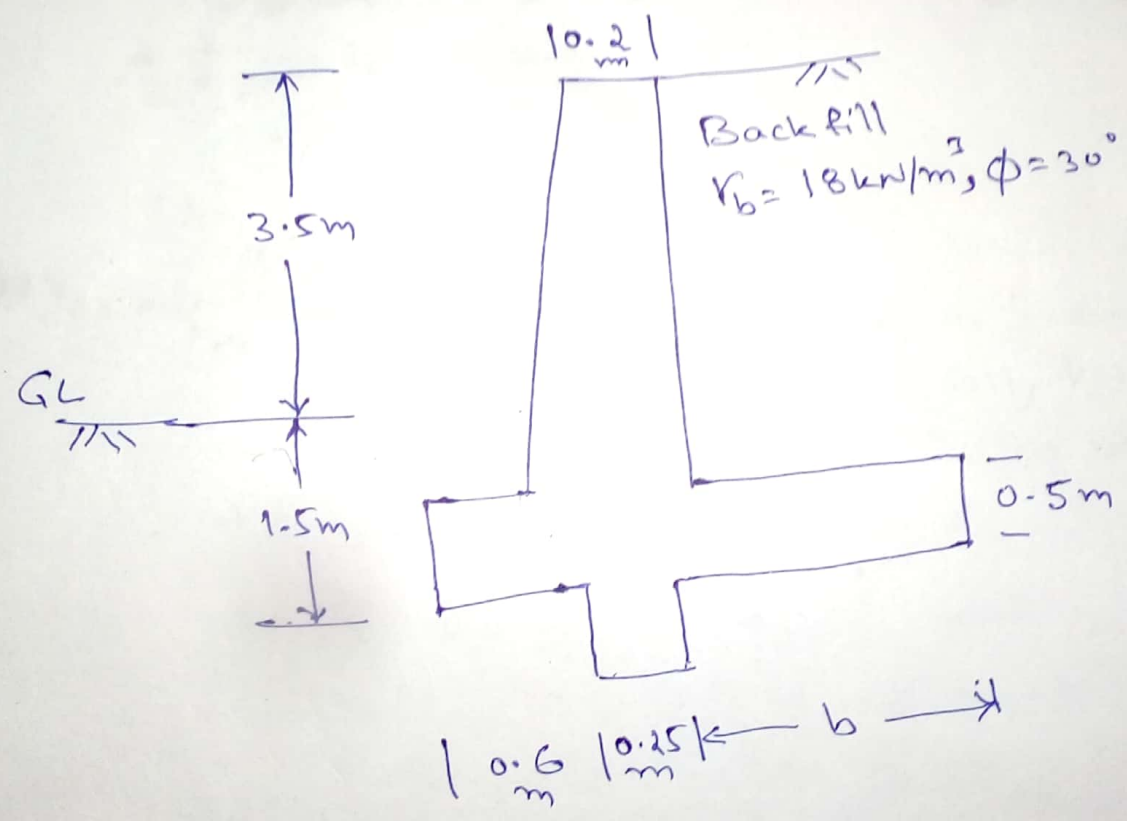


Tutorial :- 2 : DRCS : B.E. 7th civil Design of Retaining Wall.

Q-1 Check the stability of Cantilever Retaining wall as shown in Fig. 1. Also find the Pressure distribution below the wall foundation. Ignore the passive resistance of the soil lying above base of the wall.



- Take $b =$
- 1.5 m
 - 2.0 m
 - 3.0 m
 - 4.0 m

Q-2. Determine the total active earth pressure and overturning moment on the cantilever retaining wall for the back fill shown in fig 2.

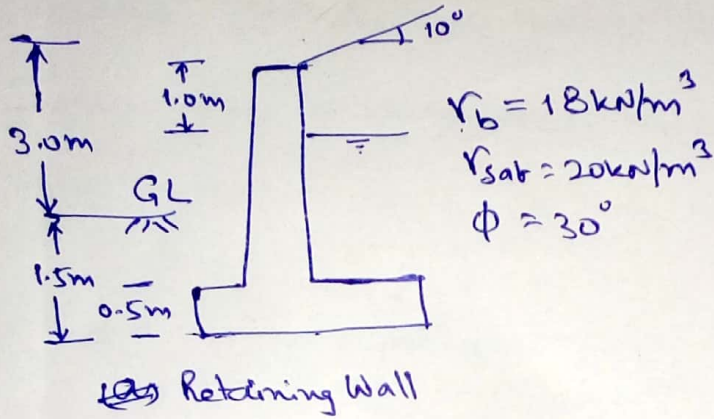


Fig (2)

Q-3. Design a cantilever retaining wall to retain the backfill up to 3.8m behind the wall. The SBC of soil; 1.8m below GL is 180 kN/m^2 . The backfill has to carry surcharge of 12 kN/m^2 .

Q-4. Design a counterfort retaining wall to retain the backfill up to 6.0m behind the wall. The SBC of soil; 2.0m below ground is 220 kN/m^2 .

Due Date: 3/August/2018