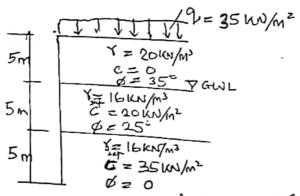
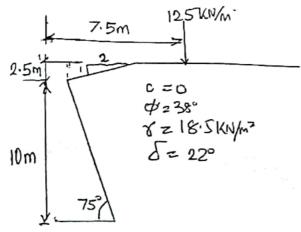
CEG 414/405 ASSIGNMENT

1. The figure below shows a 3-layered backfill behind a 15m high retaining wall with a smooth vertical back. Draw the active earth pressure distribution and determine the resultant active pressure and the point of application



The retaining wall shown in Fig D2 retains a backfill with the follation of Determine the active thrust on the wall by Culmann's foll graphical construction when a line boar of 125km/m is acting parallel to the back of the wall on the soil surface as shown in Fig to?



Assume 5 failure surfaces at 5.0m intervals.

Scanned with ComScanner

The Subsort profile at a proposed site of corretaction is shown in fig Q3. A footing Zone square, carrier a fotal load of 1000-KN and is laid with the base at 1.0m depth below ground surface, defermine the consolidation sufferent of the layer on account of the construction' The clay is normally consolidated. Use the approximate 2 to 1 load spread to estimate the stress increase in the clay layer.

