Mini Project

الاســـــم ....

الرقم الأكاديمى ....

Two contour maps are attached:

The first map is assigned for students having academic numbers 0 – 60.

The second one is assigned for students having academic numbers > 60.

First Requirement:

1) Draw a complete planning for the irrigation and drainage networks?
2) Calculate all areas served?

Second Requirement:

From a mechanical analysis, it is found that the soil has a combination of 10% sand and 5% clay. Lift irrigation is followed. The area is cultivated as 20 % rice and 75 % cotton. The compensation ratio is 30 %.
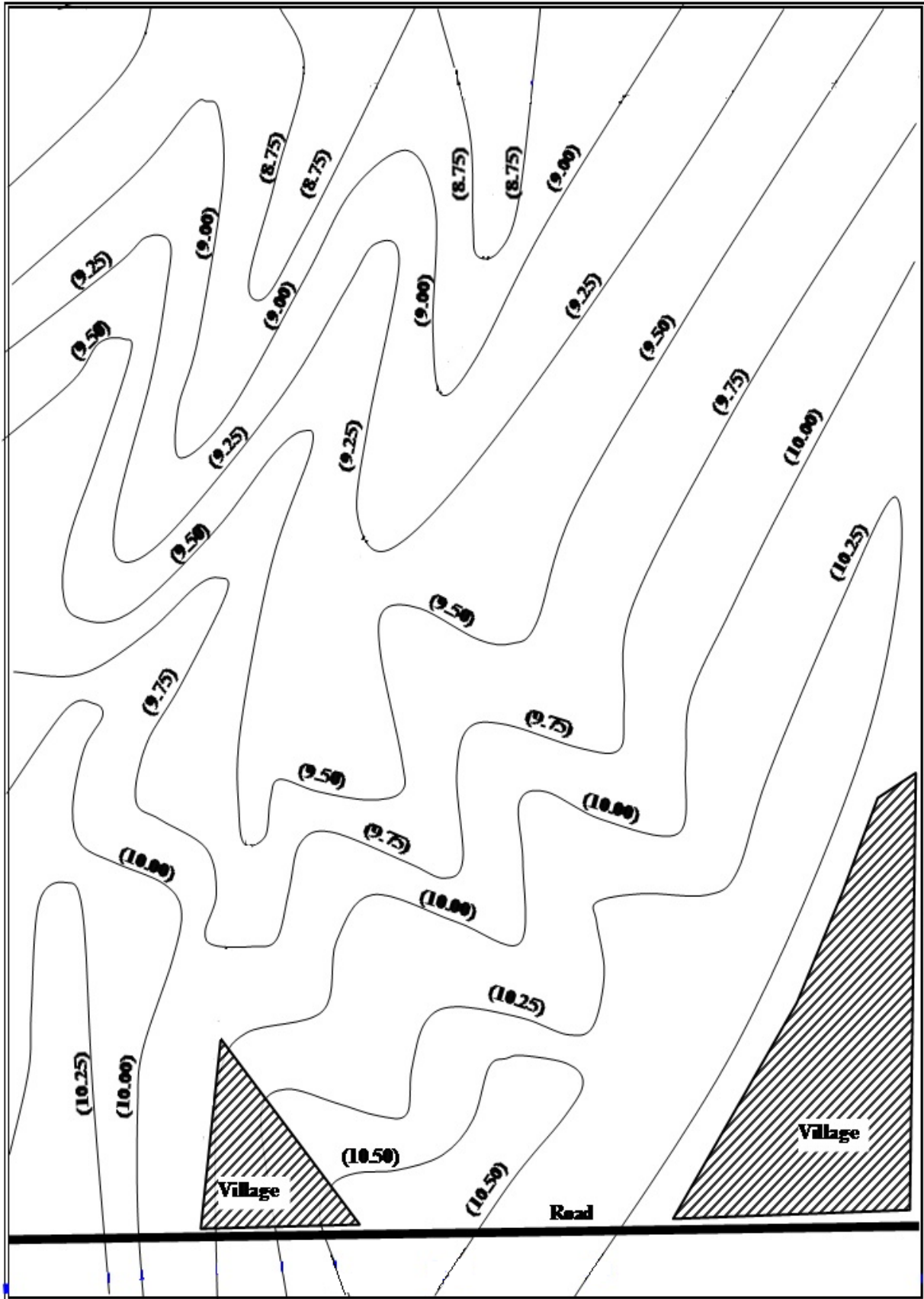
1) Draw a synoptic diagram for a branch canal and its distributor canals?
2) Calculate the area served for design at different sections of the branch canal?
3) Design one cross section using 2 different methods?
4) Draw the typical cross section?
5) Calculate the quantities of cut and fill?
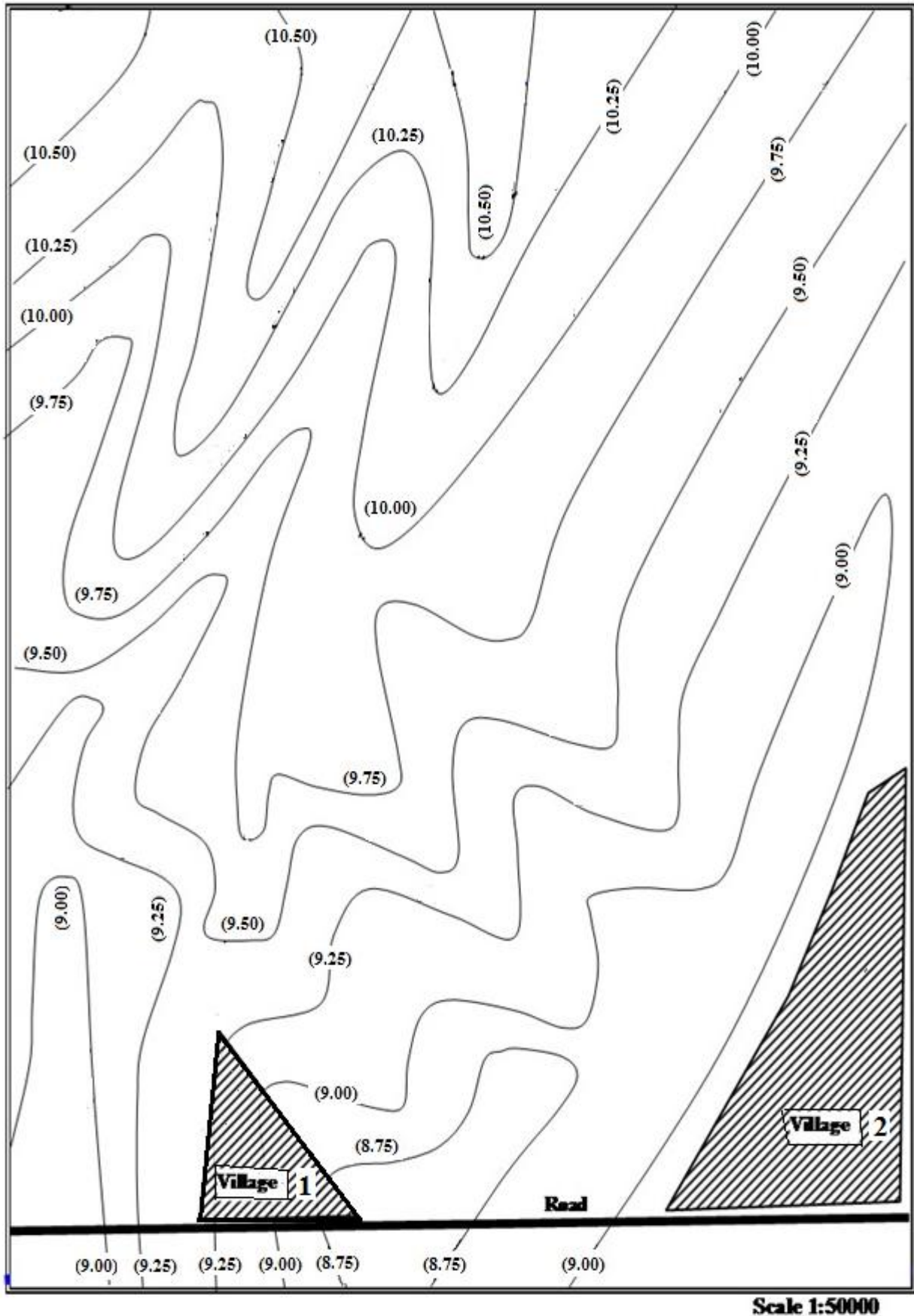
Third Requirement:

The soil is located in Lower Egypt.

1) Draw a synoptic diagram for a branch drain and its minor drains?
2) Calculate the area served for design at different sections of the branch drain?
3) Design one cross section?
4) Draw the typical cross section?

The first contour map, for students having academic numbers 0 – 60.

Scale 1:50000

The second contour map, for students having academic numbers > 60.

Scale 1:50000

Irrigation Constructions

Irrigation Channels

Flood Irrigation