

GEOS 3110 Environmental Geology Laboratory: Lab 1 Exercise, Topographic Maps

1. Using a Contour Map/Making a Topographic Profile

(a) Label each contour line on Figure 1 with its proper elevation (hint: contours are generally drawn at values divisible by 5 or 10; note the contour interval is 20 ft.)

(b) Determine the approximate elevation of the following points

A

B

C

D

(c) Construct a topographic profile along line A-B (not the same A-B used in question 1b. You may use the graph paper provided if you wish (Fig. 2).

2. Using a contour interval of 5 feet, construct a topographic map of the area shown in Figure 3

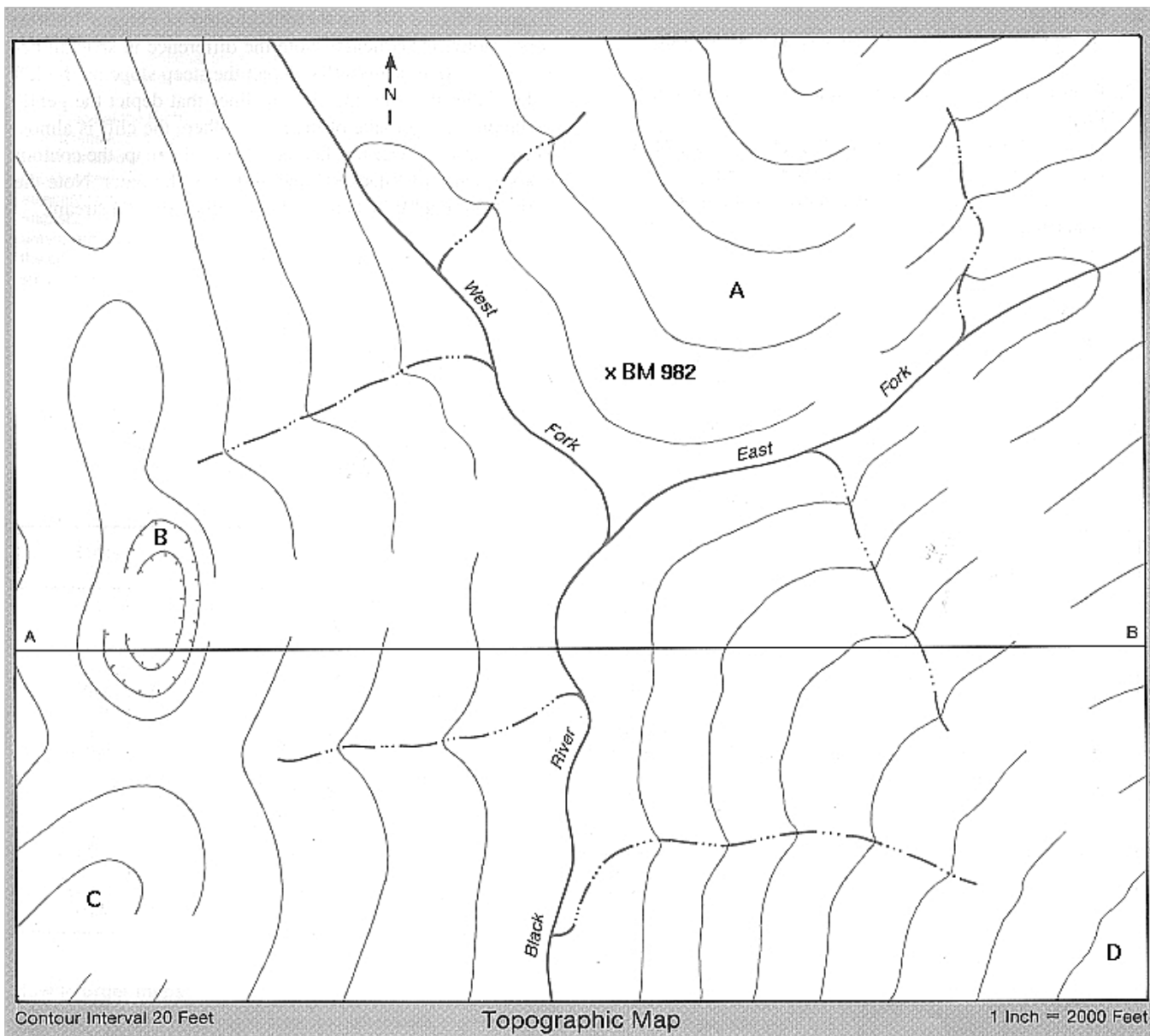


Figure 1: Topographic map (after Zumbgerbe, Rutford & Carter 1999). Benchmark elevation is 982 ft., note closed depression (shown by hachures) at west end of profile line).

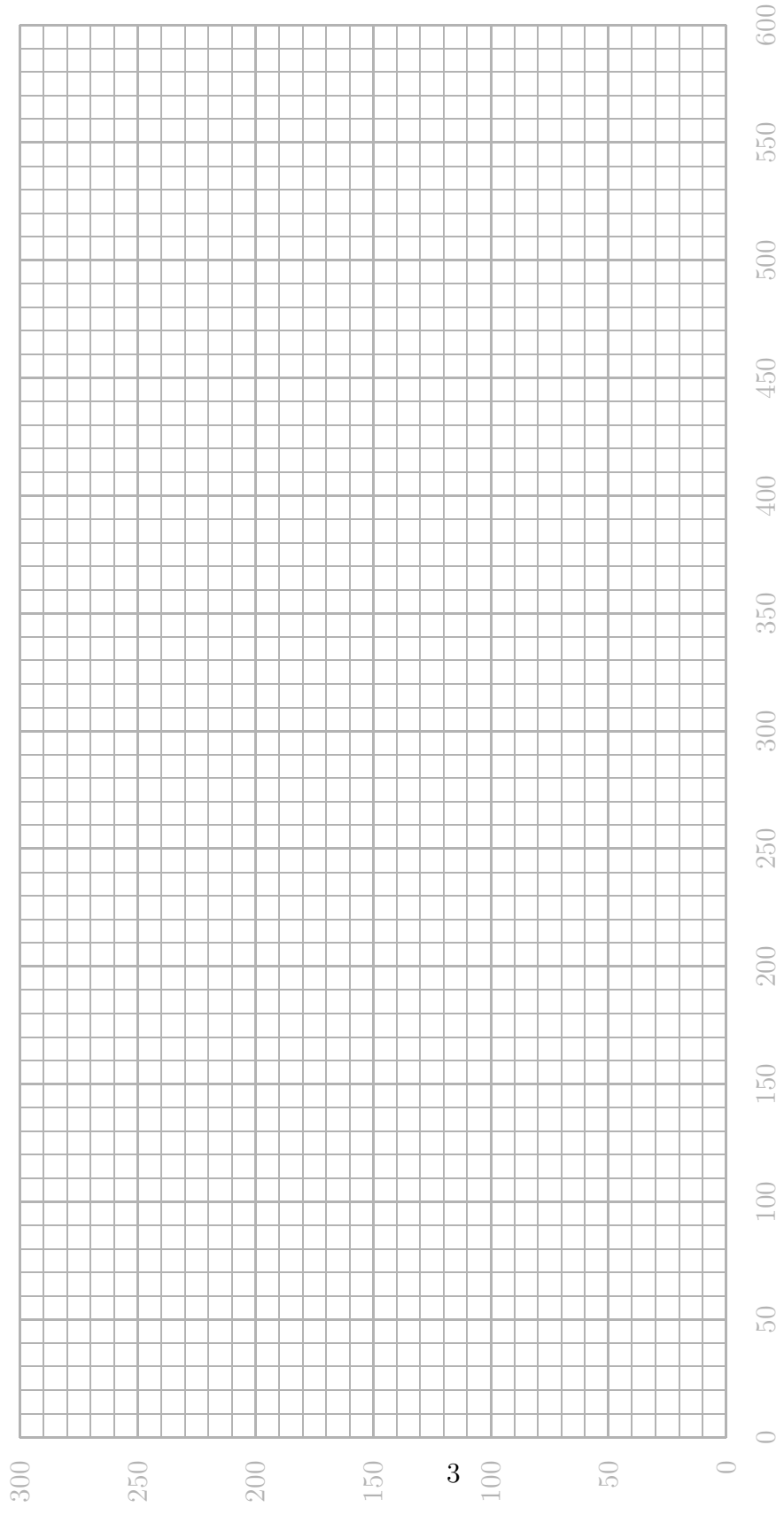


Figure 2: Graph paper that may be used for the cross-section, ignore the printed axis numbers and please write in your own.

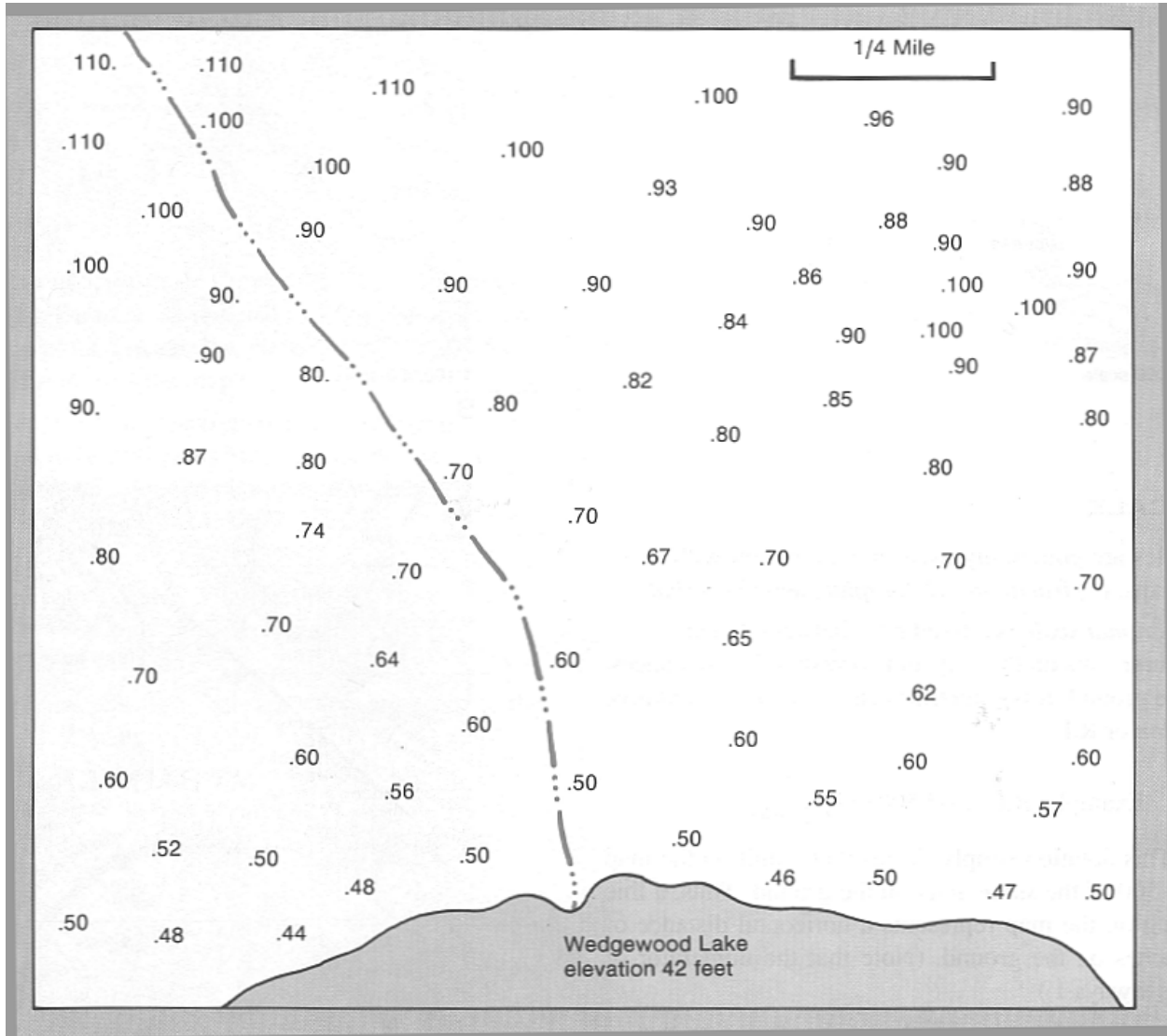


Figure 3: Topographic points(after Zumbgerbe, Rutford & Carter 1999). Draw contours at 5 feet intervals (e.g. 45, 50 m, etc.).