

# RESISTIVITY SURVEYS AT WANBOROUGH AND DORKING

## NOTES ON COMPUTER PLOTS

### GREEN LANE, WANBOROUGH (SU 920 495)

Copies of three plots are enclosed showing alternative treatments of the survey data, all at 1:125 scale. The detached section (A) is not shown in its correct relationship to the rest of the survey.

1. Initial data, vertical scale = 50 ohms/cm.

Here the readings are untreated except for multiplication to equalize the mean values at the edges of adjoining sections (square D is unchanged). There is a clear N-S linear feature at the left of the plot with very high readings at the top left. There are distinct smaller anomalies in the centre of the plot, and a more diffuse area of raised readings in square B.

2. Filtered plot; filter radius 3, range limits set at  $\text{mean} - \frac{1}{4}$  and  $\text{mean} + 1\frac{1}{4}$  standard deviations.
3. Dot-density version of plot 2; upper and lower cut-off levels raised slightly.

There is some improvement in definition of the weaker anomalies compared with plot 1, but they do not resolve into any clear pattern. The dot-density plot may show that the strong feature at the left hand side of the plot turns through 90 degrees at the bottom left of the plot.

### CHURCH STREET, DORKING

The plot shows the five sections of the survey in their approximate relative positions at 1:200 scale. Grid crosses indicate the corners of the survey squares as marked on the site plan. The mean values of the blocks have been equalized to allow plotting at a constant vertical scale (25 ohms/cm), but no filtering or other treatment was attempted. (Readings in each block were multiplied to equate the mean to the mean value of block A.)

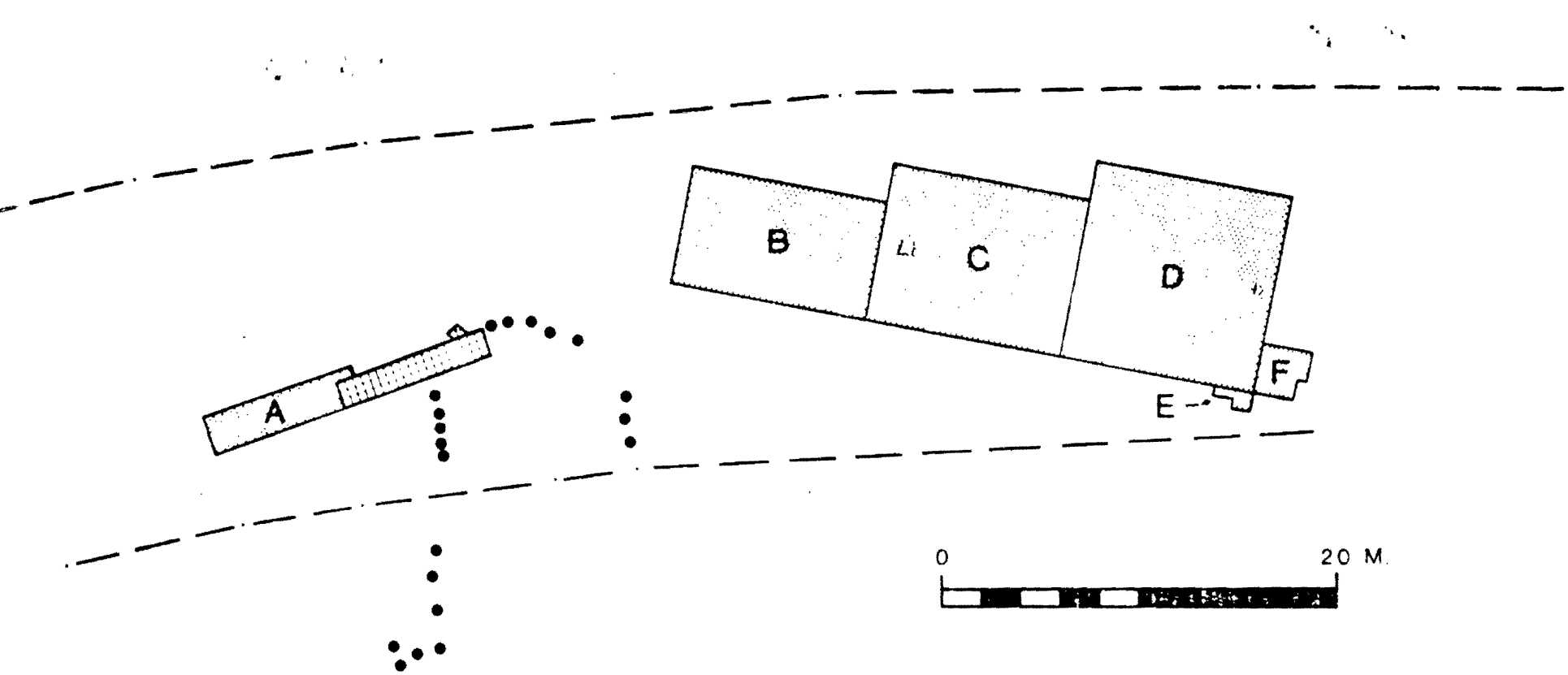
Activity appears to be concentrated in squares A and C. There is a broad area of high readings in square A which could represent a spread of building debris, and there are more sharply defined anomalies in square C which might indicate surviving foundations. Two distinct negative anomalies in square B could represent pits with a dense water-retaining fill.

Readings and site plans for these surveys were supplied by R. Poulton, M. O'Connell and G. Hayman, who carried out the surveys.

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26th March, 1981

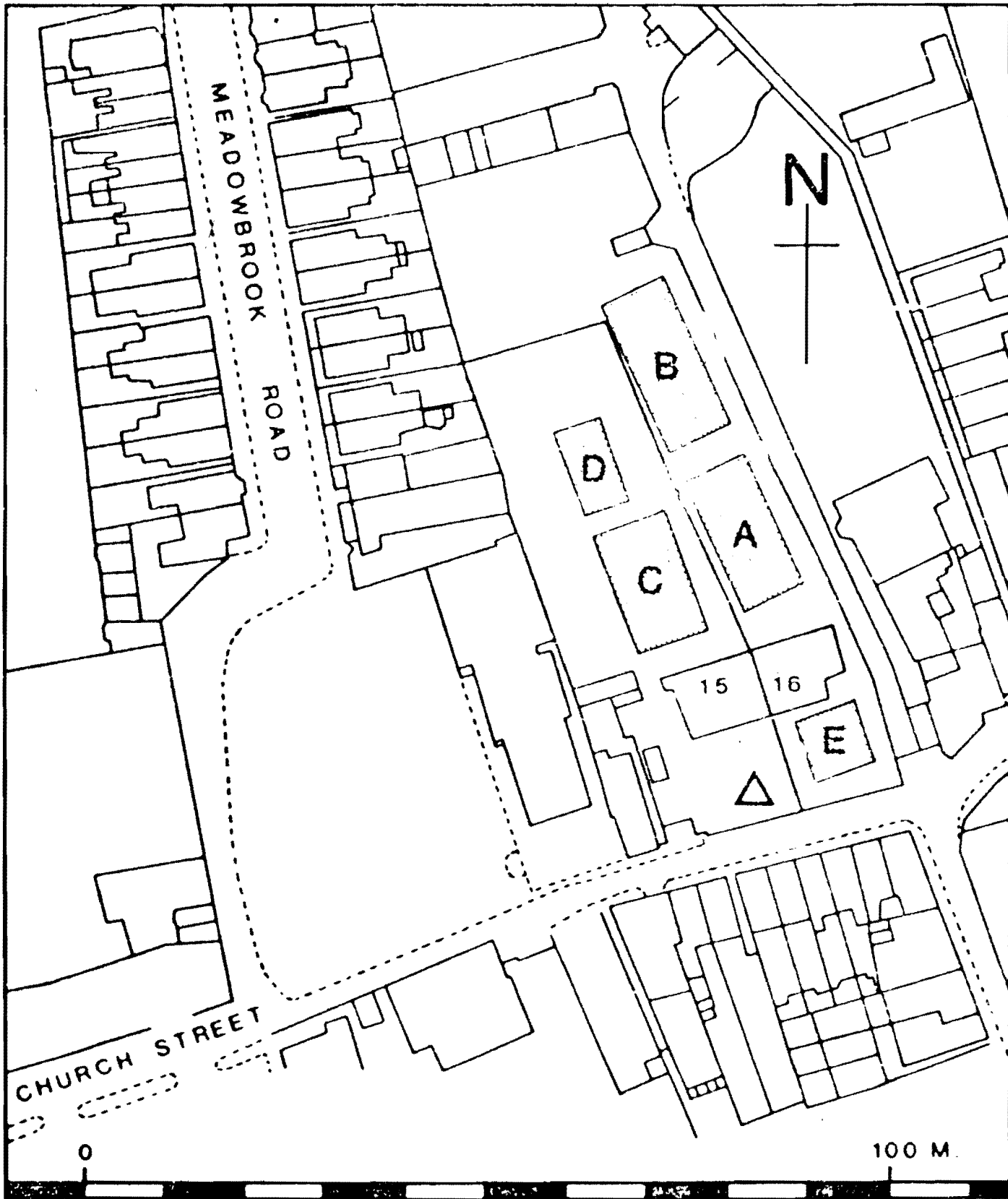


--- = FENCE BOUNDARY

□ = AREAS SURVEYED

▣ = SITE OF EXCAVATION 1979

• = POINTS OF SIGNIFICANTLY HIGH RESISTANCE - Koh was attempting  
 - successfully in the event - to follow the wall excavated in 1979 - the area was  
 too overgrown with trees & shrubs to permit a conventional survey.



**KEY**



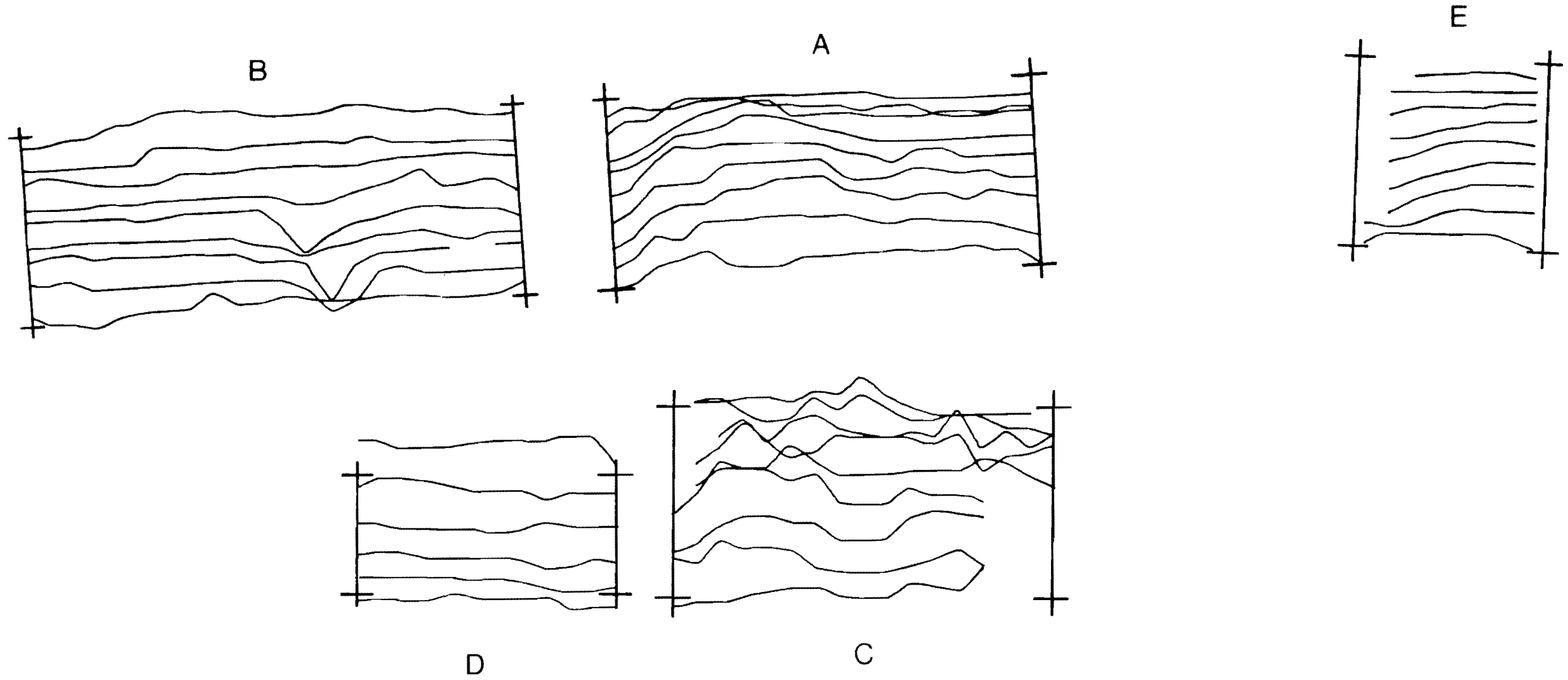
= AREAS SURVEYED



= SITE OF EXCAVATION '1980

G.N.H.  
1980

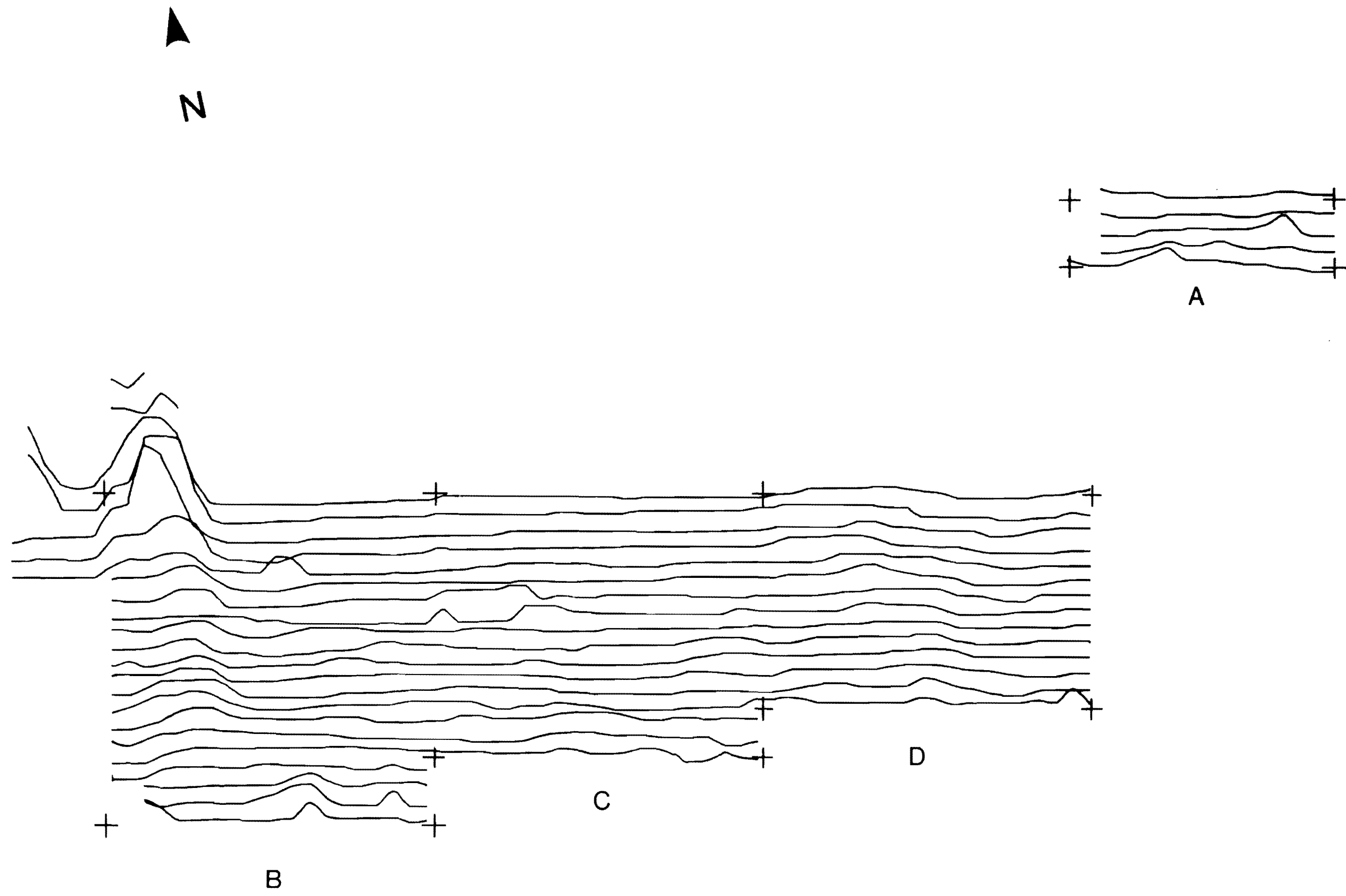
— Vivien  
Ehlinger



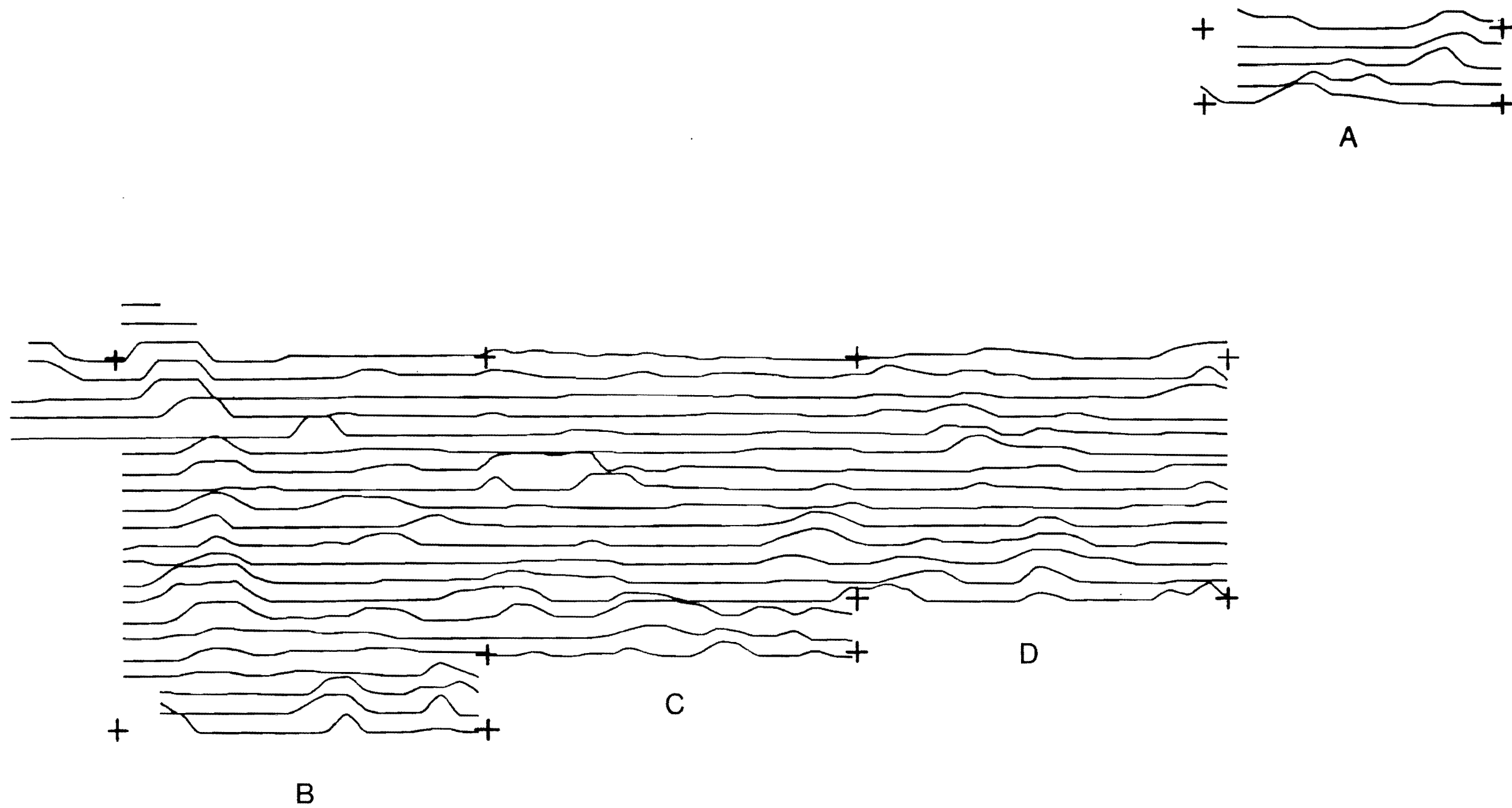
CHURCH STREET, DORKING, RESISTIVITY SURVEY;

1:200

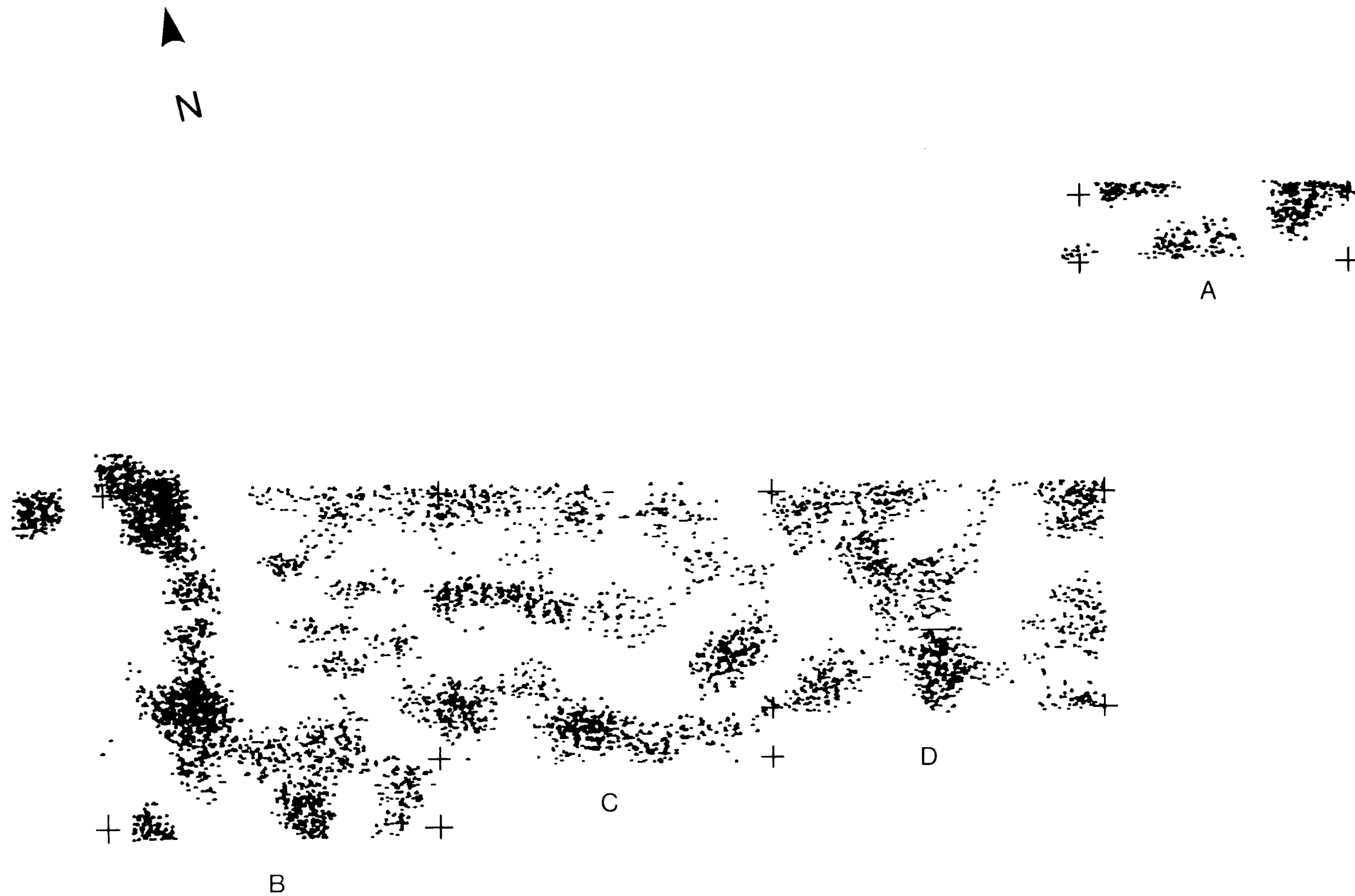
A.M. LAB



GREEN LANE, WANBOROUGH, RESISTIVITY SURVEY; PLOT 1. INITIAL DATA, 1:125



GREEN LANE, WANBOROUGH, RESISTIVITY SURVEY; PLOT 2. FILTERED PLOT, 1:125



GREEN LANE, WANBOROUGH, RESISTIVITY SURVEY; PLOT 3. DOT-DENSITY PLOT OF FILTERED DATA, 1:125