

### 10.11.2.1 Weisbach triangle method

This appears to be the most popular method in civil engineering. Two wires,  $W_1$  and  $W_2$ , are suspended vertically in a shaft forming a very small base line (Figure 10.34). The principle is to obtain the bearing and coordinates of the wire base relative to the surface base. These values can then be transferred to the underground base.

In order to establish the bearing of the wire base at the surface, it is necessary to compute the angle  $W_1W_2W_1$  in the triangle as follows:

$$\sin W_2 = \frac{W_2}{W_1} \sin W_1 \quad (10.1)$$

As the Weisbach triangle is formed by approximately aligning the Weisbach station  $W_1$  with the wires, the angles at  $W_1$  and  $W_2$  are very small and equation (10.1) may be written:

$$W_2 = \frac{W_2}{W_1} W_1 \quad (10.2)$$

(The expression is accurate to seven figures when  $W_1 < 18^\circ$  and to six figures when  $W_1 < 45^\circ$ .)



Fig. 10.34 (a) Section, and (b) plan

# Weisbach Triangle Method

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## **Weisbach Triangle Method:**

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