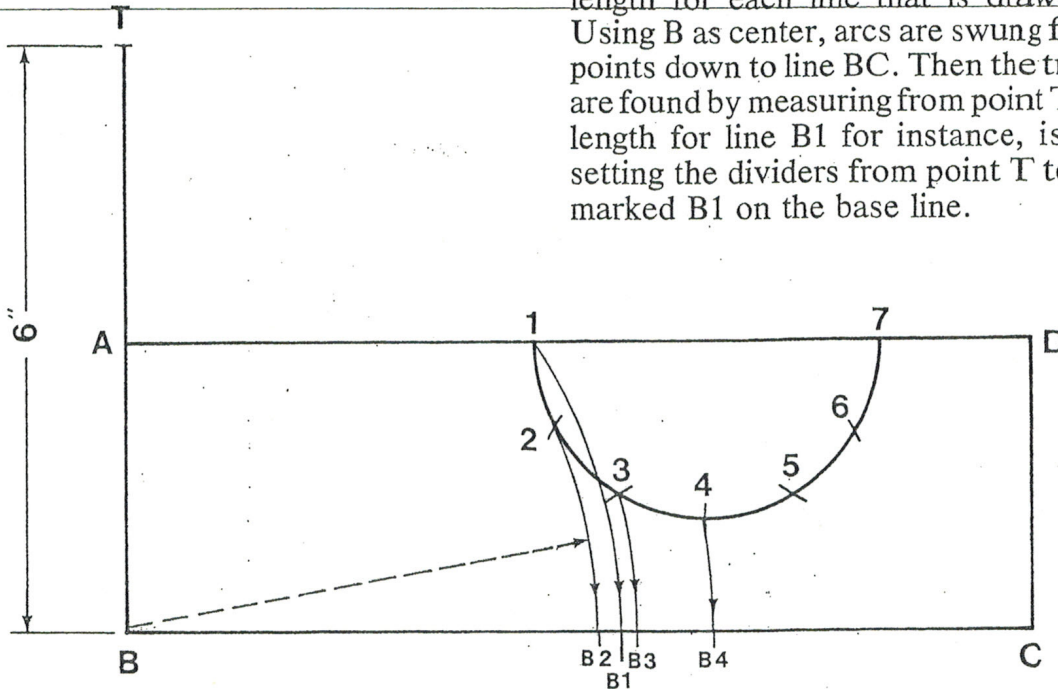


Figure 2 shows how the true length can be found directly on the plan view. In order to illustrate this technique clearly, only one true length is shown. To find the true length of line B1 in Fig. 2, dividers are set from B to 1. B is used as a center and an arc is swung (the red arc) down to line BC. The height of the fitting is measured on line BA, as shown by the 6" dimension. Therefore the true length of line B1 is the distance from T to 1'. Note that the true length triangle (the red area) need not be

Fig. 2: Finding true lengths directly on the plan view



drawn. The dividers are simply set from T to 1' for the true length. Figure 3 shows the true length for each line that is drawn from B. Using B as center, arcs are swung from all the points down to line BC. Then the true lengths are found by measuring from point T. The true length for line B1 for instance, is found by setting the dividers from point T to the point marked B1 on the base line.

Fig. 3: Arcs for all true lengths