bridge treated in Chapter XVI., and assume that the foundations, with their anchor bolts and falsework, are in place. The first thing to be done is to lay out the centre line of the bridge upon the falsework caps, marking it with a small-headed tack on each cap, then the centre lines for the trusses in the same way. This can be done either with a transit, or with a carpenter's chalk-line; care being taken to make the transverse measurements to the outer lines exactly perpendicular to the central line. A test of the accuracy of the perpendiculars can be made by the three, four, and five method, using a tape-line. Next, mark the exact positions of the panel points upon the longitudinal beams under the trusses, and place the camber blocks, levelling over them so as to make the lines joining the central points of their upper surfaces parallel to the curve of the chords. It is better to have the blocks a trifle high, say, an eighth of an inch near the centre, and a sixteenth of an inch near the ends.

Four small nails will hold each pair of camber blocks from slipping during the work, and they can be left so as to be easily extracted before swinging the bridge. Next transfer the centre lines of the trusses to the tops of the camber blocks, and mark accurately the first panel points from the fixed end, then, starting there, pack the chord bars of both chords. It might be convenient to have a few hard-wood pins to fit the holes pretty tightly, so as to aid in getting the bars properly placed longitudinally.

After the chord packing has made some progress, run out the two batter braces, and hoist them into place by means of pulleys attached to the cap of the first bent of falsework, which bent should have been previously guyed and braced so that it cannot possibly be disturbed by the effect of the pulleys. As soon as each batter brace is raised, and the anchor bolts pass through the holes in the shoe plate, the nuts should be tightly screwed down in order to aid in holding the batter brace in position.

It will not do, however, to rely solely on these, for the threads of the end bolts might be stripped: consequently a hard-wood supporting block must be strongly bolted to the two adjoining posts of the bent of the upper falsework. This block