

should have a bevelled edge, the angle of bevel being equal to the slope of the batter brace, so that the iron-work will not rest on a sharp edge of wood. If the lattice bars interfere with the bearing, as they are liable to do, rough notches can be cut in a minute on the bevelled face so as to bring the bearing upon the channels.

Meanwhile the end lower lateral strut, the portal strut, and the portal and end lower lateral rods, having been run out, the three struts are to be put into place; the upper ones being retained there by their connecting bolts, and the lower one by the end piece, which should also pass through the chord bars, fillers, and end lateral rods.

Such small portions of the structure as pins, fillers, and beam hangers, should not be brought out upon the falsework until required for use, for fear of their being lost overboard. Nothing more will be said about running out these and other small portions, but it will be assumed that they will be at hand when wanted. It should be an understood thing between the foreman and the men, that any one who drops any portion of the bridge into the water forfeits a certain amount of his wages. Such an arrangement will make green hands a little more careful than they are apt to be generally.

As the portal rods are adjusted by turn buckles with single tap ends, they may be omitted until after the portal struts are riveted to the batter-braces, because the riveters can then work to better advantage. They can be left upon the abutment until required.

Next run out, and hoist upon the falsework, by means of pulleys attached thereto and timbers used as levers, the end sections of the top chords, working them into place by the levers, and attaching them temporarily at the hips by bolts, putting in at the same time the end diagonals, but omitting the hip verticals and fillers, so that room may be left for the holding-on bars. The other ends of the chord sections rest on the camber blocks.

Next run out, and hoist into place, the first vertical posts, letting the upper ends lie in the open ends of the chord sections.