course grouted with cement and gravel. The mortar to be mixed and ground in a wooden mill of simple construction, made for that purpose, whereby a better cement will be furnished at a far less expense. — A level surface near each abutment being procured, a blocking is raised about three feet high from the ground, to afford an opportunity of ascertaining the accuracy or defects of the under side of each rib while framing; this being done, a mould of the exact shape and size of the intended ribs is then fastened on the said blocking, by which each rib is accurately moulded. When the whole of the said ribs are completely fitted, and every appertenance thereto ready for fixing to the abutment, then, the first parts are taken asunder and carried to their respective stations, on rolling skids prepared for that purpose. We shall next explain how the arms of the Bridge are to be built.

GEOMETRICAL ELEVATIONS AND PLAN
OF T. POPE'S LEVER BRIDGE IN BUILDING, PLATES 1, 2, & 5.

These fully demonstrate the simplicity of the construction of a Bridge on this plan; and also of the mode in which it is erected. — The first operation after the abutments are completed, in the commencement of the erection of the arms, is to fix in the abutments the first length of the horizontal levers, E E, on Plate 1, fig 1, in the two middle sockets, made for them at L L, on Plate 4, fig 12, and C C, on Plate 4, fig 11. — The next