

The Bridge consists of five parallel arches. Every arch again consists of three concentric arches laying in a vertical level. These concentric arches are connected with radial crossbeams.

An arch, like all the stone arch bridges before, is basic for this bridge. This is important to know, because the shape of the bridge is like a stone bridge. This shape, or better this supporting system is used because there were so many experiences existing.

Experiences concerning the bearing of loads. But as it is the first construction, cast iron madden, there were no experiences about the properties of the material, like the tolerated stress or the strength. Following this the bridge is totally oversized. The components of this construction are all made of cast iron, even the joints. This was too much weight for the abutments. They sank in the foundation. This caused too much tensile force and some of the archribs broke. But as it is ironmade it is and was simple to repair. At the one hand the initiators were forced to light the weight of the abutments. This was reached by braken through two openings. At the other hand, they repaired the broken components. As well the bridge especially the abutments