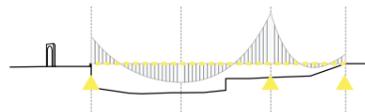




**Light touch on the South bank**

The structural principle is designed to minimise impact on the South bank to preserve the arches.



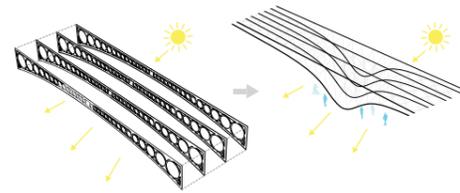
**Moment Diagram**

The geometry of the bridge is generated by the structural moment diagram.



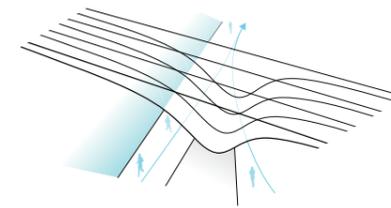
**Groundworks**

Minimising the impact of the foundations on the south bank, the silhouette of the bridge starts to take shape.



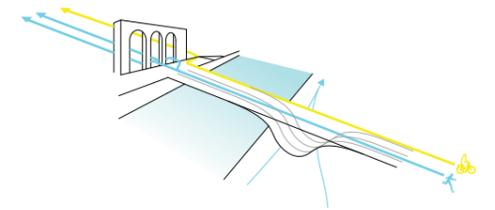
**Inspired by engineering heritage**

Taking inspiration from Bath's heritage, the bridge is realised as a series of parallel trusses, forming a lightweight structure of finesse and elegance that subtly plays with light and shade.



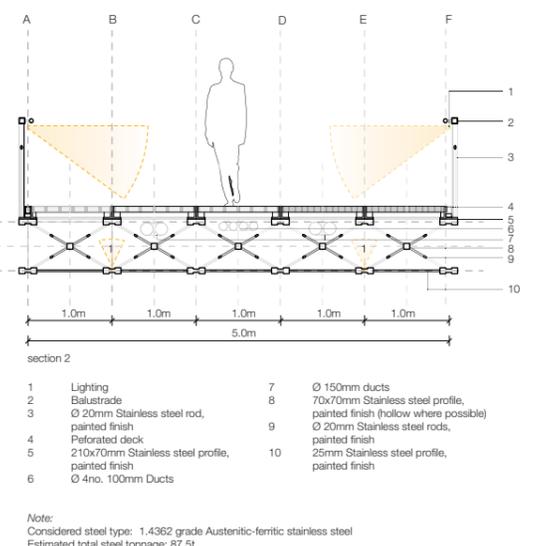
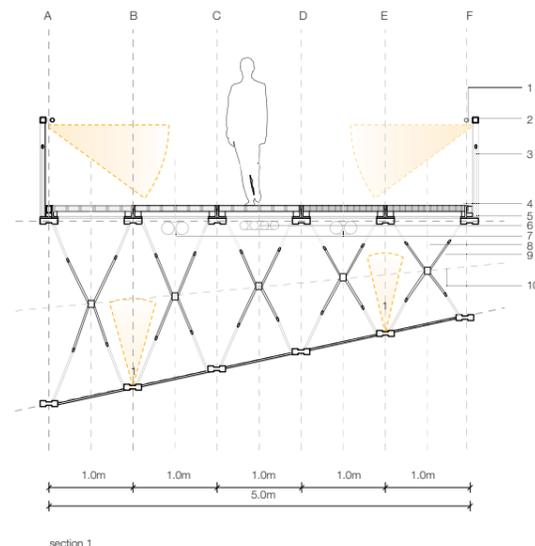
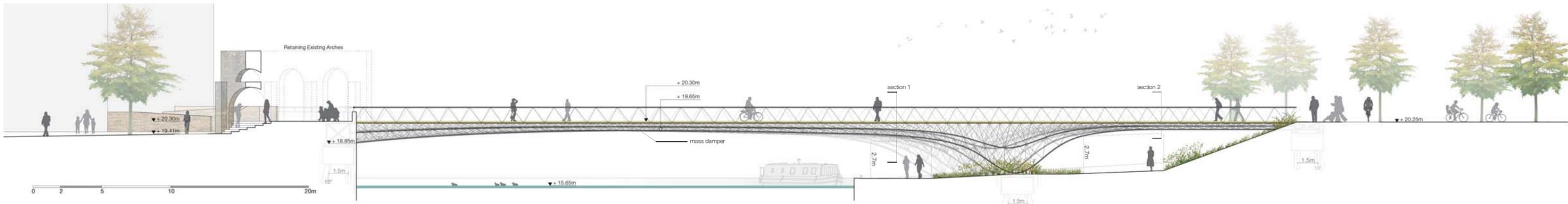
**Simple elegant structure**

The bridge is a layered progression of subtly different sections that form a simple, elegant structure. Each stratum of the trusses responds to the landscape and topography, while maximising head height along the north bank path.

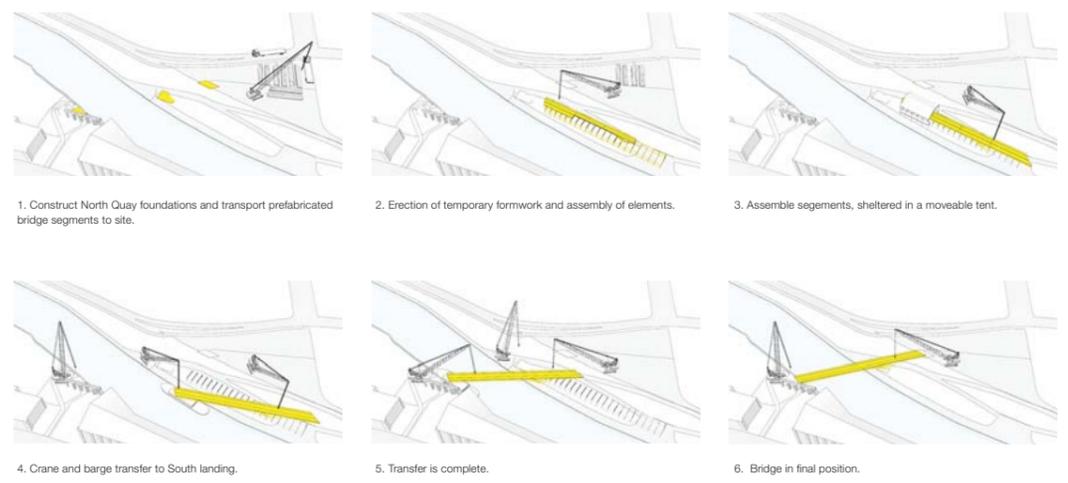


**Intuitive circulation**

Repurposing the industrial heritage of the arches on the south bank symbolises the intuitive approach to circulation: the arches become a gateway for pedestrians, while cyclists are guided by a ramp to the west.



Note:  
 Considered steel type: 1.4362 grade Austenitic-ferritic stainless steel  
 Estimated total steel tonnage: 87.5t



## Bath Quays Bridge

This is a bridge across the river and across the centuries, a link between the modern Bath and the famous historical city. For a bridge that will be the symbol of the digital revolution of Innovation Quay and the Enterprise Area, we look back to the industrial revolution, the city of Brunel, the city of iron as well as the city of stone.

Rooting our design in place, we have taken clues from its context, the materials, techniques and crafts of the city. It responds to the industrial heritage of the Newark Works arches, which are maintained and repurposed. It is inspired by Bath's Georgian and Victorian engineering heritage, notably John Rennie's Sydney Gardens bridge over the Kennet & Avon canal, with a daring slenderness produced by its interconnected layers.

Our bridge is a modern reinterpretation of this same philosophy, one that responds to the topography, circulation and landscape at its two landfalls. Employing different strata that are connected using diagonal bracing for maximum efficiency, we have created not only a light touch structure, but one with transparency and visual complexity.

It is a bridge generated by a structural moment diagram that has developed into something poetic. It synthesises the exploitation of modern engineering with the heritage of the city.