people's lives intersect and around which so much commercial activity is centered.

the river's edge and railway to the residents beyond.











Height



## 001

## Design Statement

The opportunity to offer pedestrians and cyclists a river crossing free of vehicular traffic is unique in central London; this suspension bridge seeks to offer all users the best possible experience.

The deck design reflects how pedestrians and cyclists will use the bridge through the day: clearly segregated flows for more urgent use during peak hours, but provision of transition points between the flows for more leisurely pursuits. The design provides areas for sitting, eating, working and viewing, with bike parking provided. Between these zones are voids to the river that also mark the suspension hanger positions.

The central pedestrian deck rises gradually to mid-span above the adjacent cycle decks to afford increasingly better views and emphasise the subtle separation of users, while visually breaking down the bridge massing.

Research indicates that for cyclists there is an overwhelming case to allow a seamless transition from road to bridge without the need to dismount; this was one of the main drivers of our proposal, and one of the principal design challenges. Without integrating such a free flow arrangement for cyclists, this river crossing will not achieve the forecast future cycling demand levels and thus the transport objectives.

The constraints of the landing areas would mean a complex and obtrusive ramp system on each bank so our design proposes that the ramps, which conform to the TfL Design London Cycle Standards, are situated above the river between the embankments and the navigation channel. By separating north and south-bound cycle flows we are able to incorporate a pair of lightweight helical ramps at each end – one ascending, the other descending. These helices are supported from the main towers.

The cycle ramps are minimised over the landings, allowing a gentler transition to the cycle network and reducing the visual bulk within the public realm. In Pimlico Gardens, the lawns will be gently banked up to the ramps and most of the mature plane trees retained. At Nine Elms the ramps, stairs and lifts are more compact, with a more formal landscaping screening the abutment.

The river walk would be locally diverted accordingly, bringing this pedestrian flow towards the Grosvenor Road and Nine Elms Lane crossing points.

The structural form chosen provides great structural and functional legibility, with a deck that achieves a lightness that defies its span. It conforms to all clearance requirements while addressing the different character of the opposing public realms. Its elegant silhouette responds well to its context, and reflects the delightful character of the suspension bridges of the western end of the river. It can be built largely from pre-fabricated components, is conventional to construct without compromising river navigation, and is straightforward to maintain and operate.

This new bridge will make a worthy addition to London's river architecture and provide an exciting yet practical journey for its users.