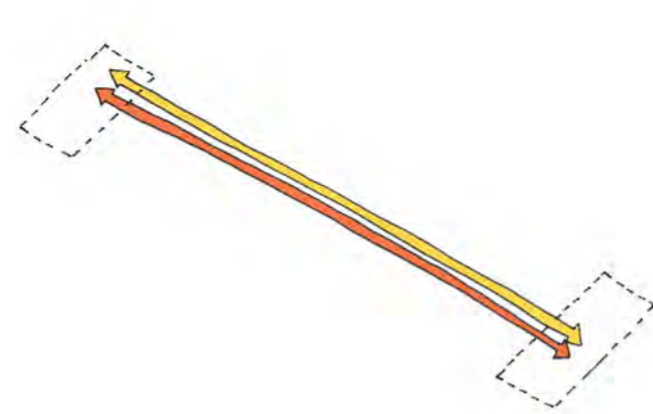


# THE THAMES KNOT BRIDGE

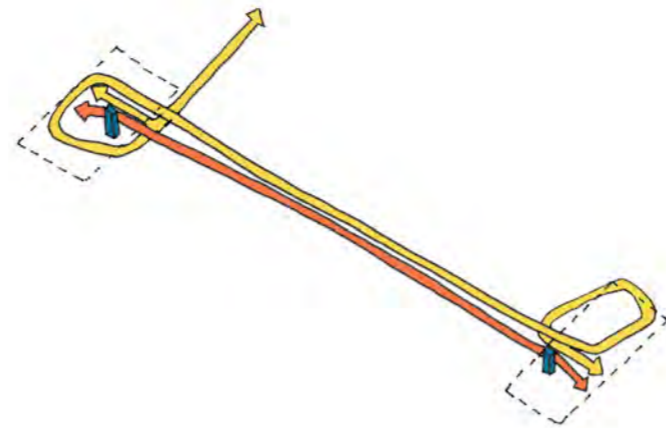
The new crossing is conceived as a single surface that elegantly connects Nine Elms with Pimlico. The 5-9m wide bridge deck is conceived as an extension of the landscape and provides access for all users within an intertwined network of ramped and stepped promenades that provide safe ramped cycling routes, generous pedestrian walkways and lift access.

At each end the bridge deck unravels to suit the differing characters of Pimlico and Nine Elms. To the north the deck becomes a ramped treetop walk elegantly sweeping through the existing trees and cantilevering over the river. To the south the ramp terminates as a promenade extension to the exiting Riverside Walk widening it, to make room for the future influx of pedestrians while a new café and bike hub is provided with a rooftop terrace.

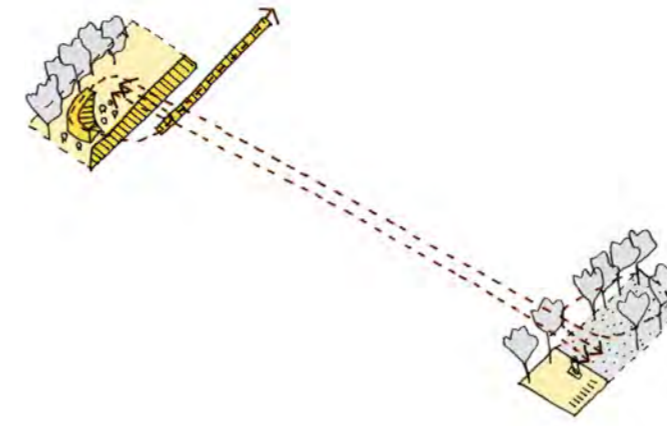
The bridge deck is suspended from 2 tapering V-shaped towers providing a central span of 160m with ample height for boats. The main span is suspended from large cables at its sides, which uniquely it rests on for 65m in the middle section providing uninterrupted views over the river. The horizontal splay of the main cables adds lateral stiffness to the deck whilst balancing the forces, pulling the inclined tower legs apart. This allows the bridge deck to be extremely thin and elegant and reinforces its role as the connector of 2 places rather than a destination in and of itself. The bridge is the knot that ties both sides of the river together.



**Integrating cycle and pedestrian traffic:** A safe, efficient river crossing is required for both cyclists and pedestrians alike. 2 zones on a shared surface allowing all to travel safely on a 9m wide deck.



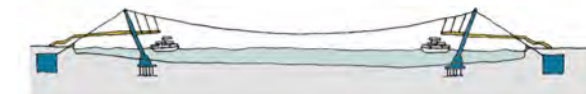
**Access:** The bridge is conceived as a knotted ribbon which provides an accessible river crossing for all, with both ramped and stepped access, and a lift at each end.



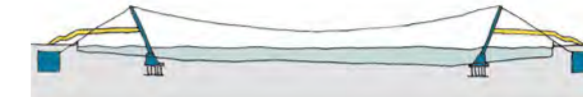
**Placemaking:** The bridge morphs to suit its environments on each side. A café, bike hub and pontoon to the south in Nine Elms, and a more formal uninterrupted garden space and square to the North in Pimlico Gardens.



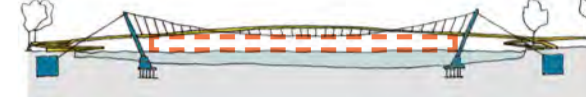
**Construction Stage 1:** Foundations constructed within coffer dams, piers lifted in place; excavations for and installation of anchorage blocks.



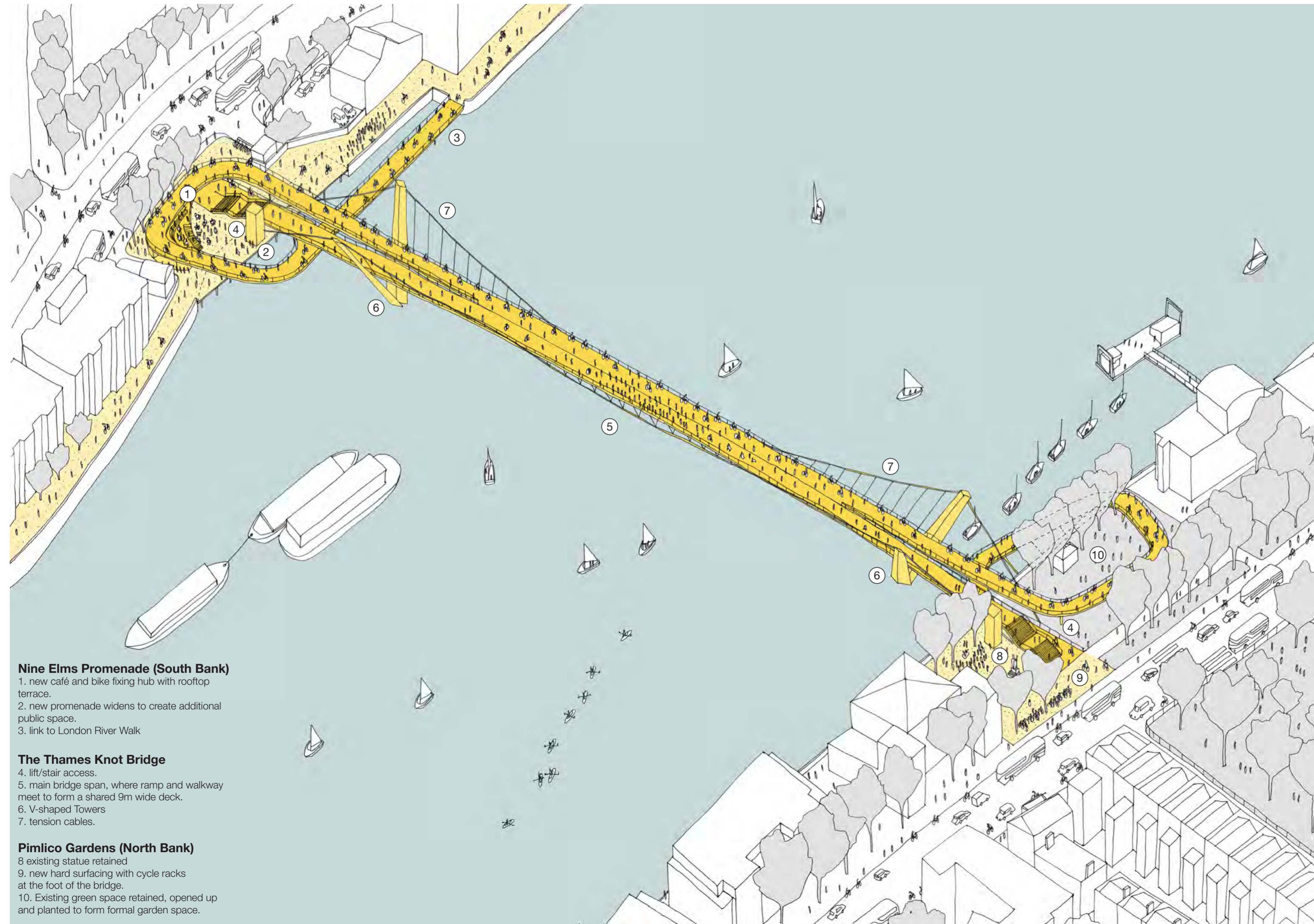
**Construction Stage 3:** Lifting deck in segments, from outwards in; constructing and joining ramps to main structure; replanting and furnishing landing areas.



**Construction Stage 2:** Main cables pulled across; end spans constructed.



150m clearance envelope is retained during all periods of construction.



**Nine Elms Promenade (South Bank)**

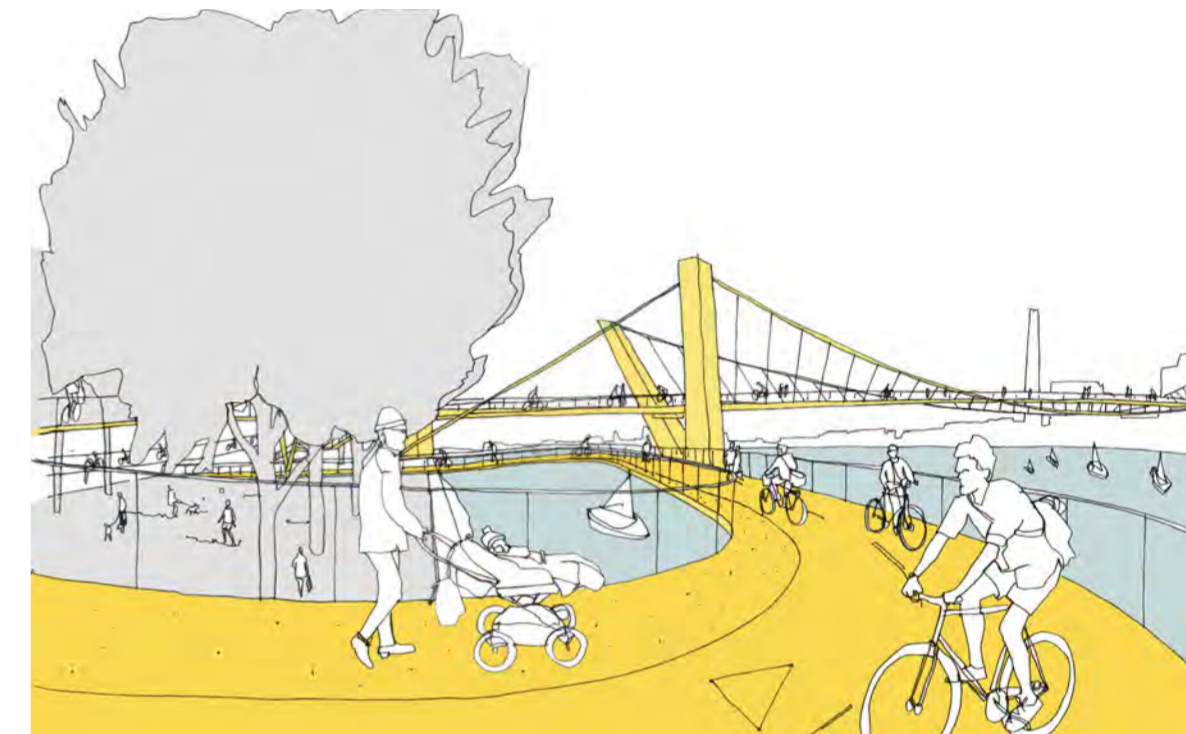
- 1. new café and bike fixing hub with rooftop terrace.
- 2. new promenade widens to create additional public space.
- 3. link to London River Walk

**The Thames Knot Bridge**

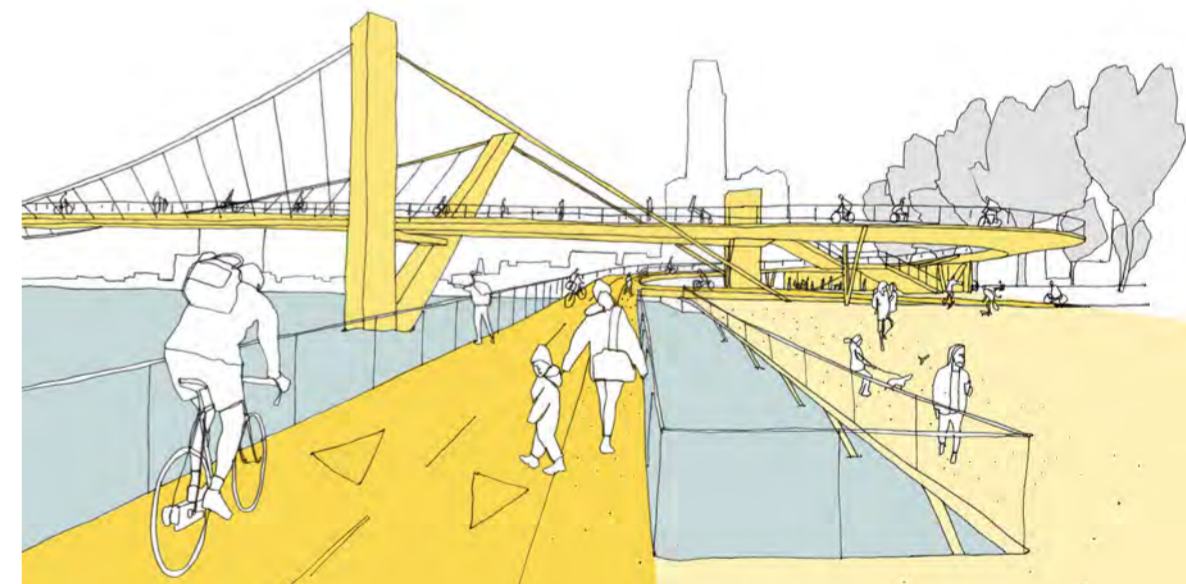
- 4. lift/stair access.
- 5. main bridge span, where ramp and walkway meet to form a shared 9m wide deck.
- 6. V-shaped Towers
- 7. tension cables.

**Pimlico Gardens (North Bank)**

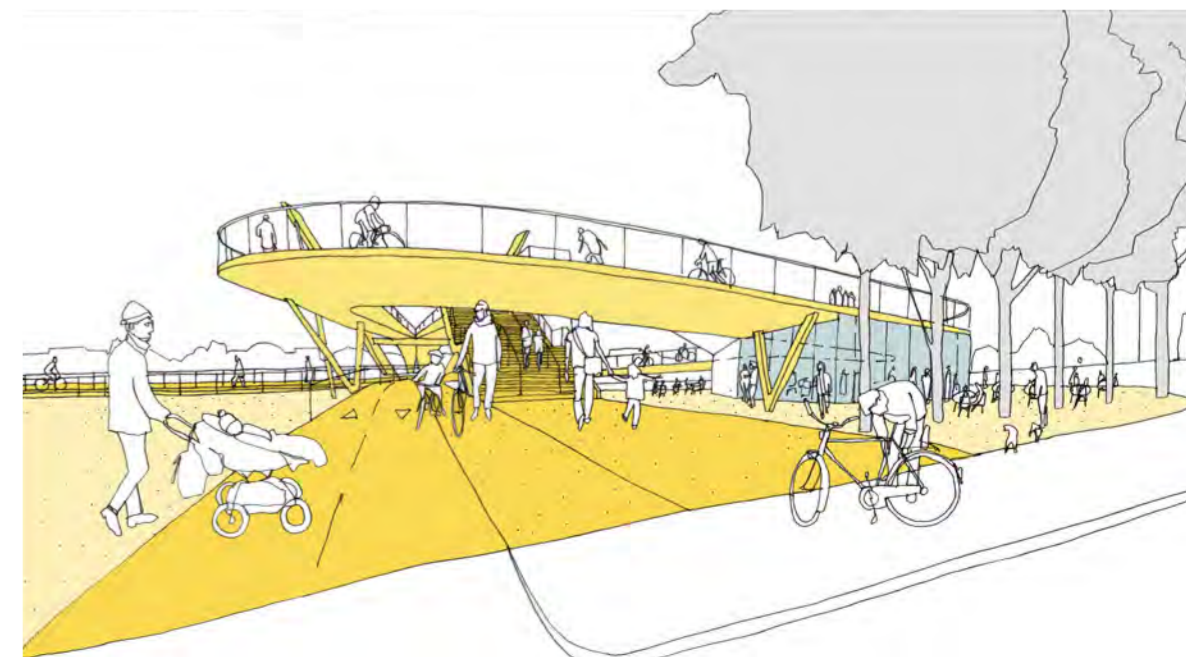
- 8. existing statue retained
- 9. new hard surfacing with cycle racks at the foot of the bridge.
- 10. Existing green space retained, opened up and planted to form formal garden space.



Pimlico Gardens (North Bank)



Nine Elms Promenade (South Bank)



Improved public space with cafe/bike hub space onto Nine Elms Lane (South Bank)

