

LONDON TUBE

NINE ELMS - PIMLICO BRIDGE

The new bridge connecting Nine Elms and Pimlico requires more than just a direct connection between both sides of the river. It needs a new space that can simultaneously provide a piece of efficient infrastructure for the daily cyclist and pedestrians, but also create a new public space that will help to draw those from the city to the new development and adjacent areas.

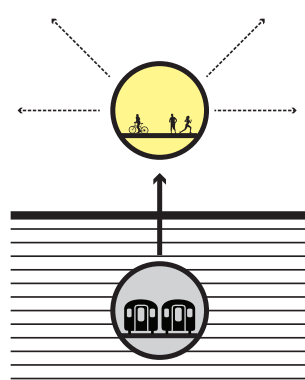
The **London Tube** expands on the infamous spatial qualities of the London Underground network; by lifting it up above ground a once familiar space inhabits a new environment. The bridge efficiently connects the 2 sides of London, but also provides a comfortable environment for cyclists and pedestrians by providing shelter for those within, keeping out the wind and the rain that can be a deterrent for potential users. The structural large tube that spans across the river provides an opportunity to inhabit a continuous interior, a free curatable space that can be transformed and adapted without impacting on the structure's primary function.

Within the transparent steel and glass structure 2 routes are created that float above the water below, creating a sense of weightlessness. First The Direct path is made between each side, accessible for all users, bikes/pedestrians/wheelchairs, that provides the necessary connection for the bridge's purpose. The other, The Recreation route, provides a space to meander and traverse across the river, offering both places for all to see out across the London, and curated spaces within the structure, to experience everything from works of art to public events.

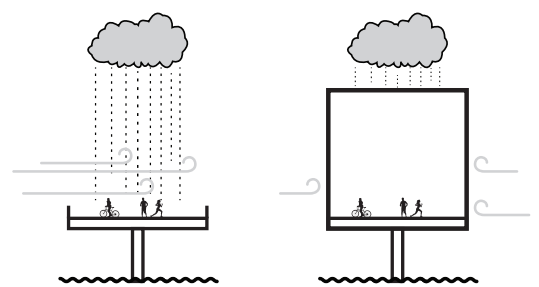
The **London Tube** offers more than just a connection from A to B. It understands that it should be more than a piece of infrastructure, it should be a common shared space between the established community of Pimlico, and the new community soon to emerge in Nine Elms. It is an inhabited bridge that functions as a social tool to generating activity and help the old London embrace the new.

CONCEPT

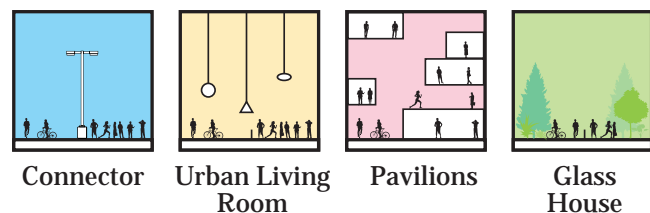
The Elevated Tube



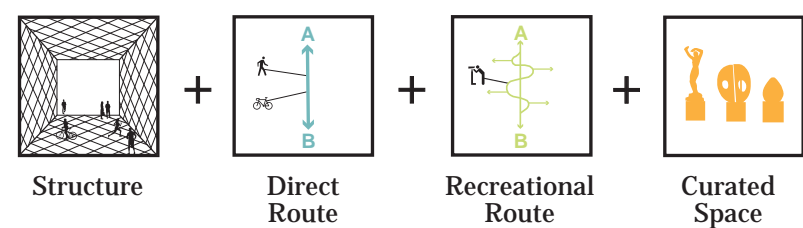
The Enclosed Tube



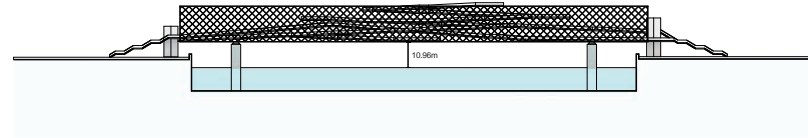
The Inhabited Tube



The Tube Components

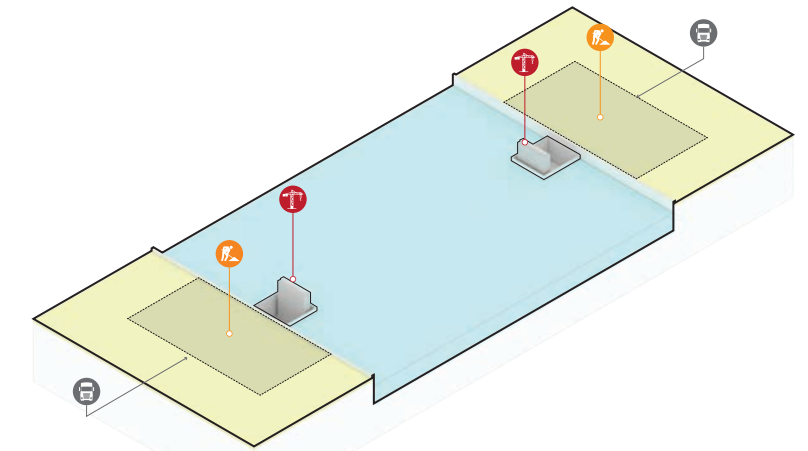


SECTION

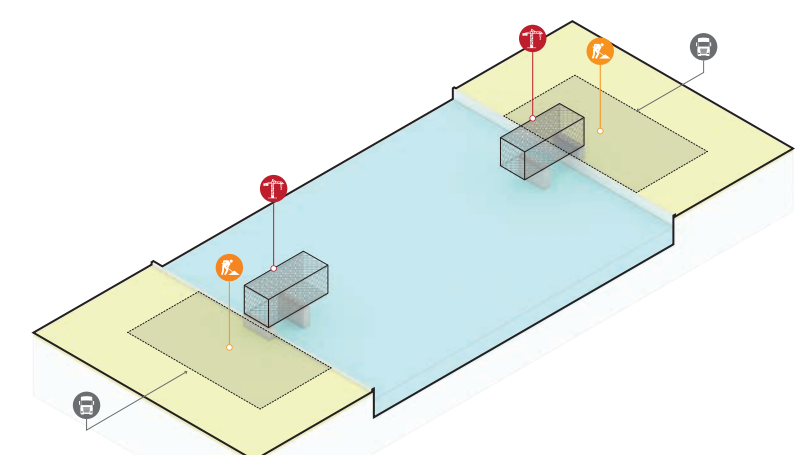


CONSTRUCTION

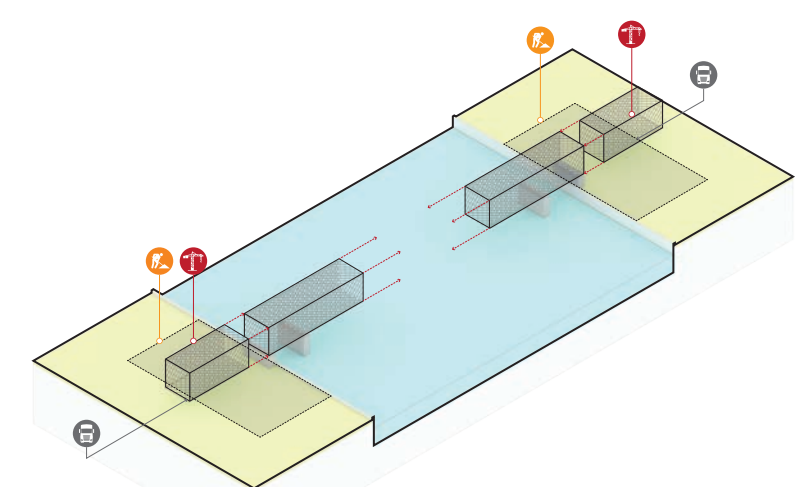
Create localised dam and lay footings



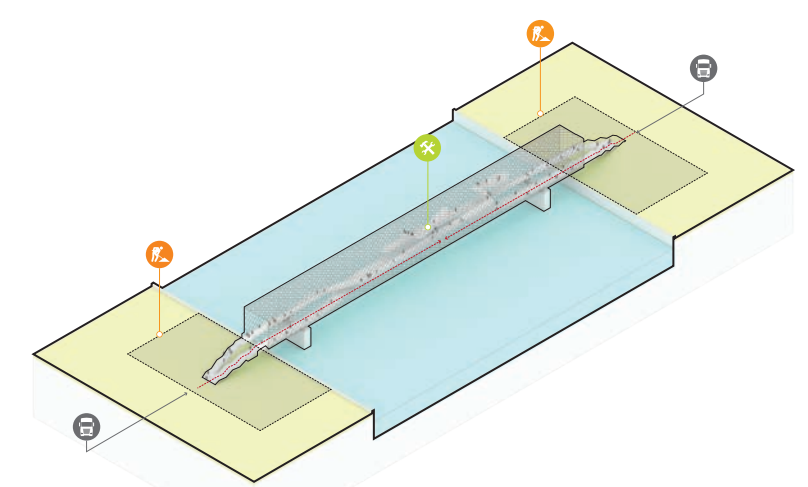
Temporary footing on bank side, and place first truss section



Weld truss sections on bank side as rolling bridge across the river

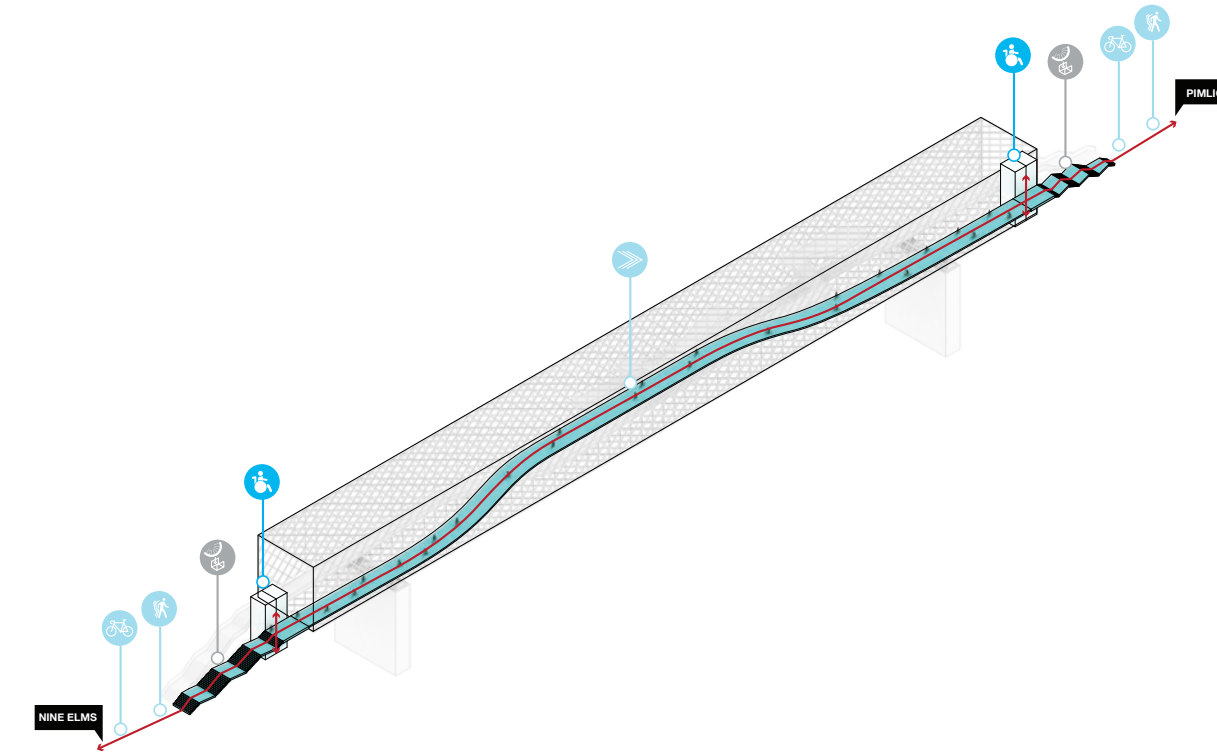


Once exterior structure complete install internal functions

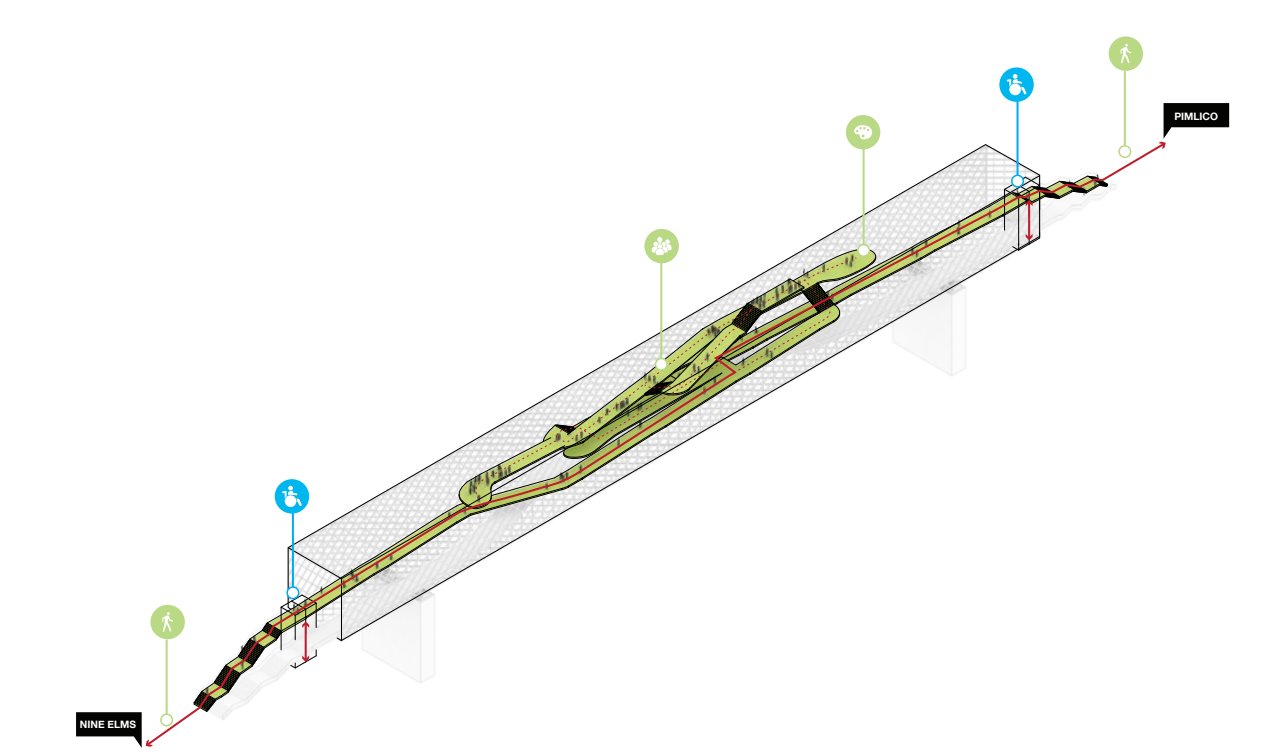


ROUTING

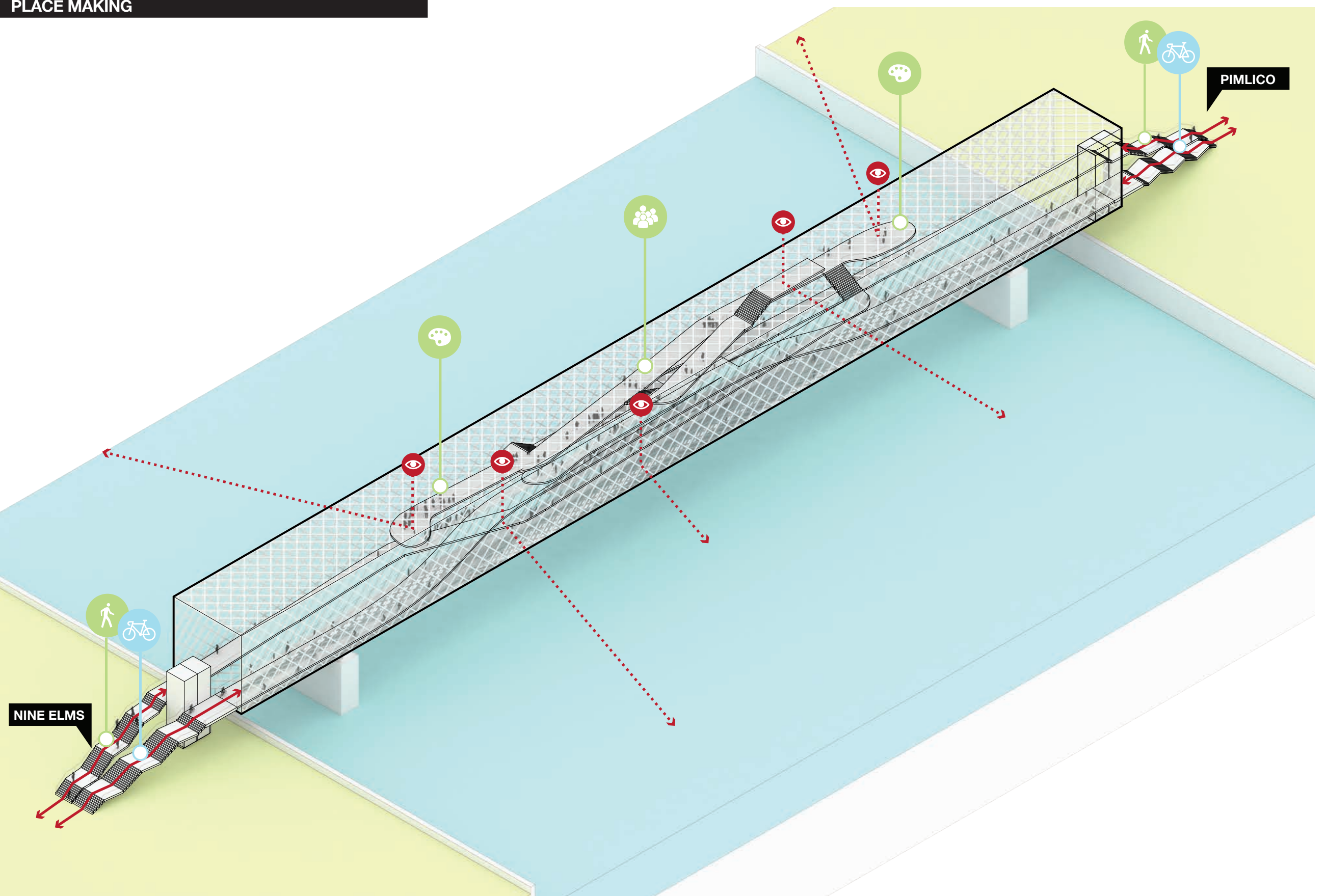
Rapid Route



Recreational Route



PLACE MAKING





THE LONDON TUBE:
Nine Elms to Pimlico Bridge
Team: 014

Description:

The new bridge connecting Nine Elms and Pimlico requires more than just a direct connection between both sides of the river. It needs a new space that can simultaneously provide a piece of efficient infrastructure for the daily cyclist and pedestrians, but also create a new public space that will help to draw those from the city to the new development and adjacent areas.

The "London Tube" expands on the infamous spatial qualities of the London Underground network; by lifting it up above ground a once familiar space inhabits a new environment. The bridge efficiently connects the 2 sides of London, but also provides a comfortable environment for cyclists and pedestrians by providing shelter for those within, keeping out the wind and the rain that can be a deterrent for potential users. The structural large tube that spans across the river provides an opportunity to inhabit a continuous interior, a free curatable space that can be transformed and adapted without impacting on the structure's primary function.

Within the transparent steel and glass structure 2 routes are created that float above the water below, creating a sense of weightlessness. First The Direct path is made between each side, accessible for all users, bikes/pedestrians/wheelchairs, that provides the necessary connection for the bridge's purpose. The other, The Recreation route, provides a space to meander and traverse across the river, offering both places for all to see out across the London, and curated spaces within the structure, to experience everything from works of art to public events.

The Bridge's structure looks to provide a free and open internal space for those crossing the river. The exterior skin, constructed of steel, behaves as one long truss spanning the breadth of the river. The efficient structure is designed to be erected without any disturbance to the river traffic below. The structural pads are constructed within an enclosed dam, 150m apart, to allow for traffic to continue adjacent. The bridge structure is then built solely from the river bank, individual segments of the bridge are hoisted up on to the pads, welded to the next, and then rolled out across the river until both sides meet in the middle. The lightweight routing elements are then constructed internally to complete the bridge without any river traffic disruption.

The London Tube offers more than just a connection from A to B. It understands that it should be more than a piece of infrastructure, it should be a common shared space between the established community of Pimlico, and the new community soon to emerge in Nine Elms. It is an inhabited bridge that functions as a social tool to generating activity and help the old London embrace the new.