

IJburg Bruggen 2060 & 2080

Architectuur en ontwerp

Jorrin ten Have – 08/10/2026







Grimshaw



Elizabeth line - London, 2023



Passerelle Robert Poujade, 2024

Grimshaw

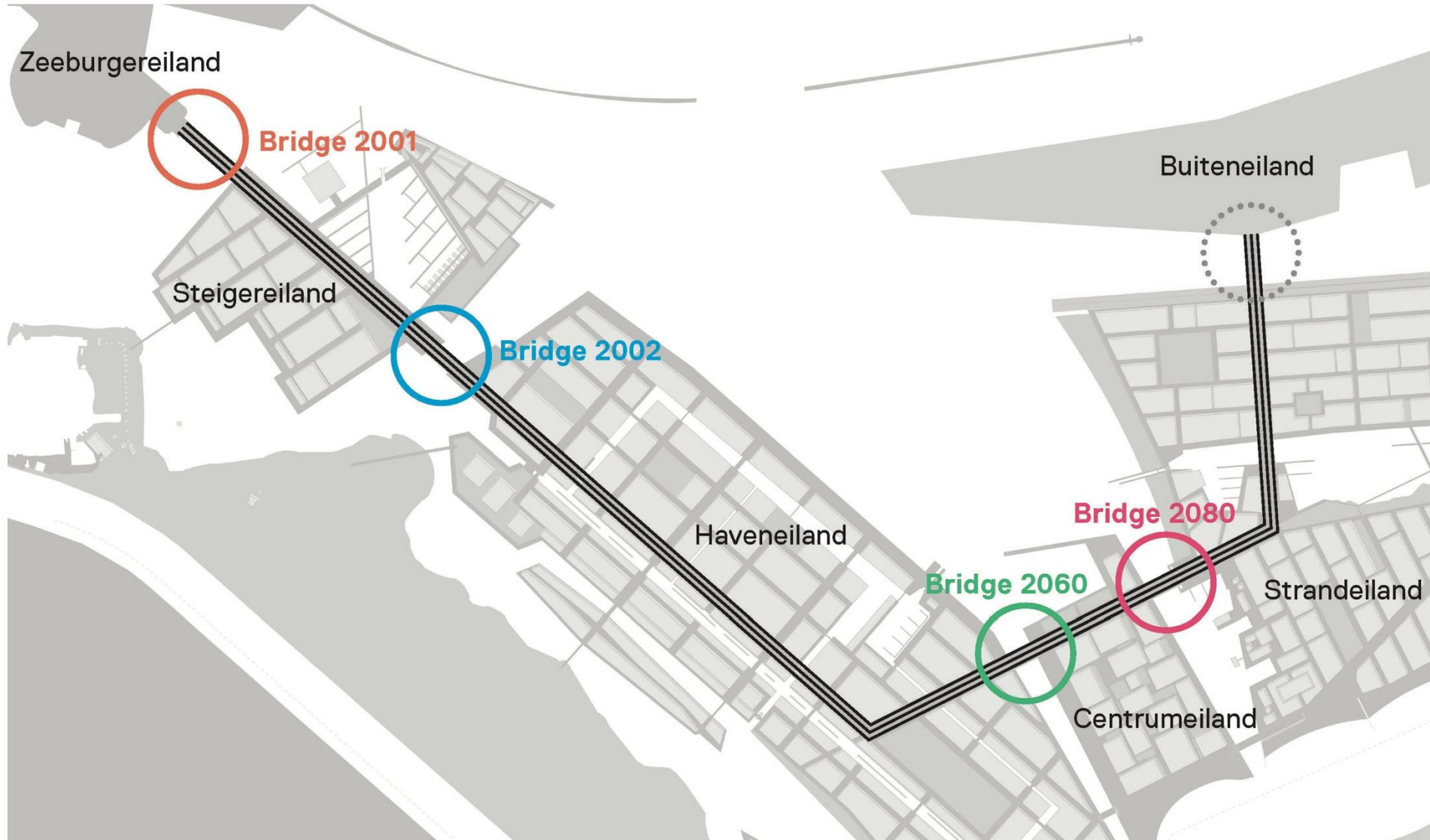


Bijlmer ArenA Station – Amsterdam, 2007



Enneüs Heerma Brug – Amsterdam, 2001

IJburg familie van bruggen



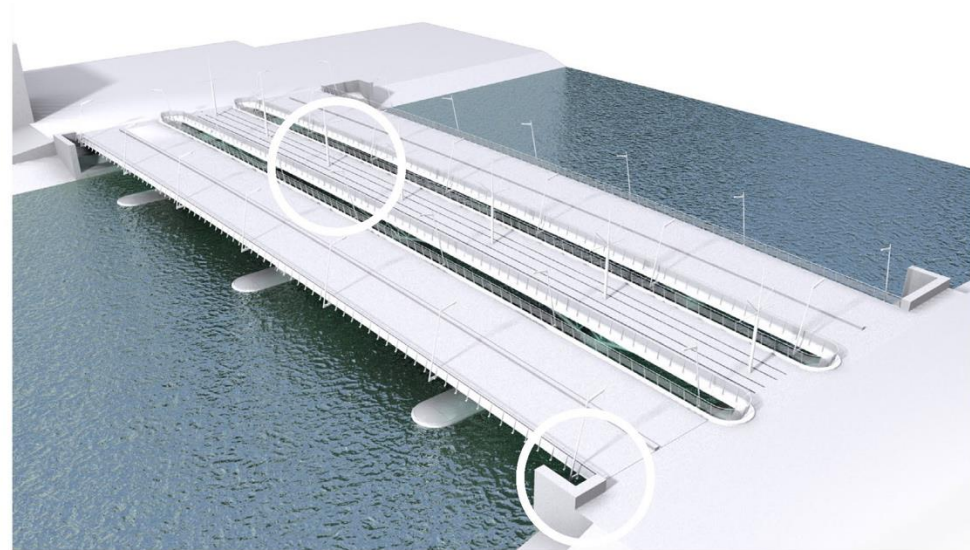
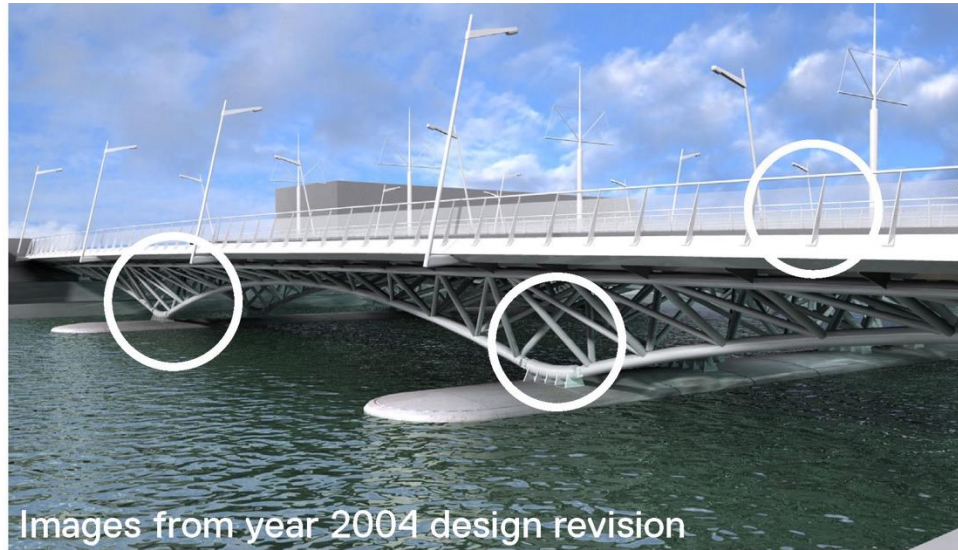
IJburg familie van bruggen – Enneüs Heerma brug 2001



IJburg familie van bruggen – Brug 2002



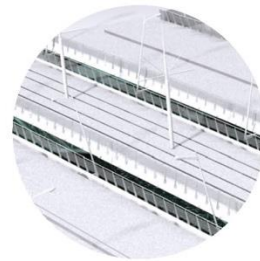
IJburg familie van bruggen – ontwerp kenmerken



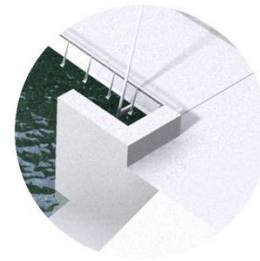
Skeletal and airy landmark structure made from white painted steel tubes



Wavy truss line that touches the water conveying lightness and movement



Deck separation allowing natural light to fall to the water and walkway beneath

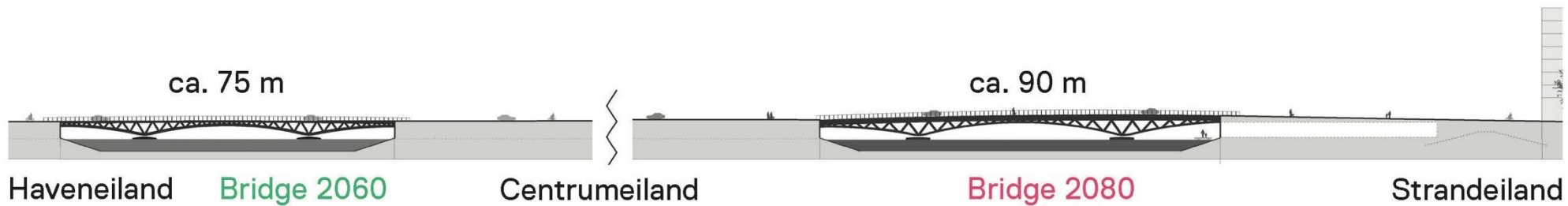
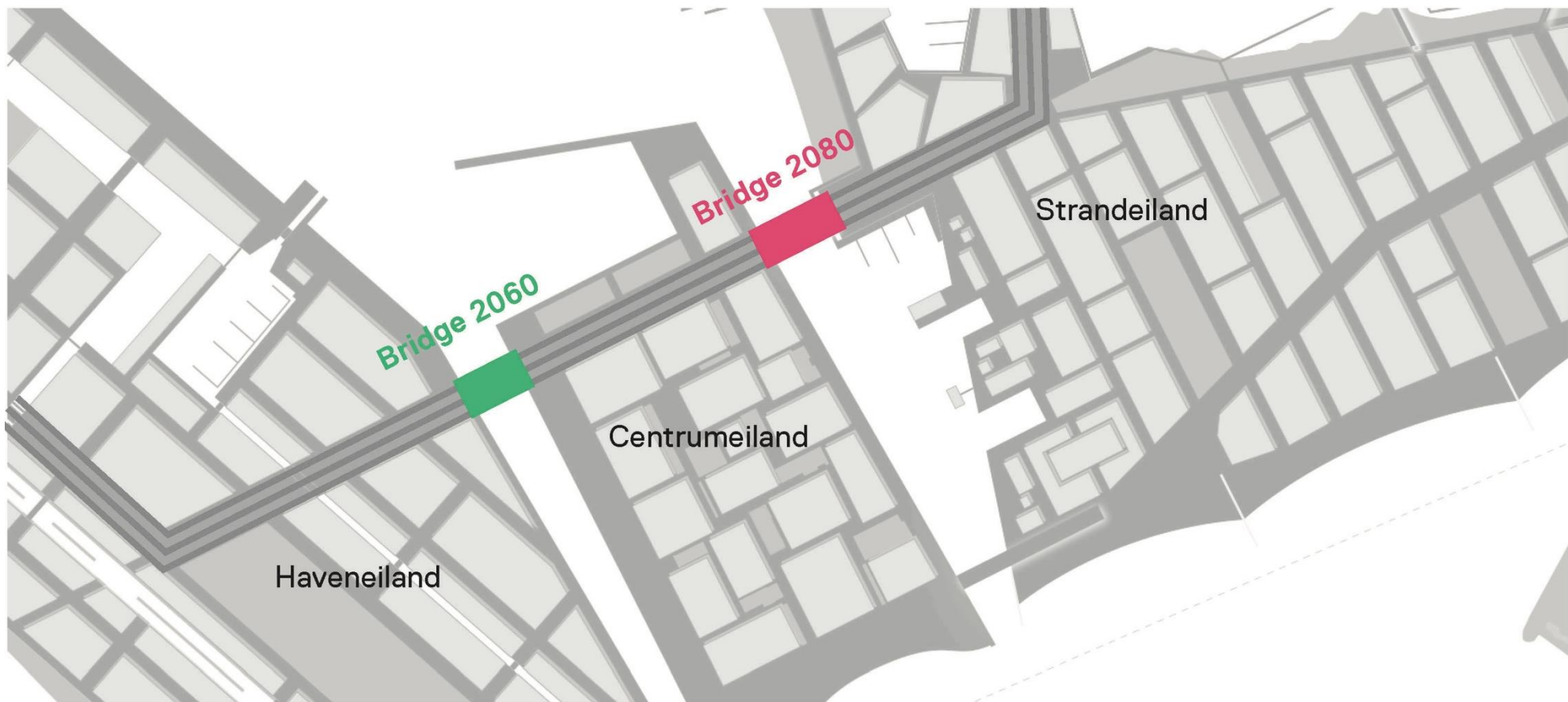


Elegant forming of concrete abutment and landing

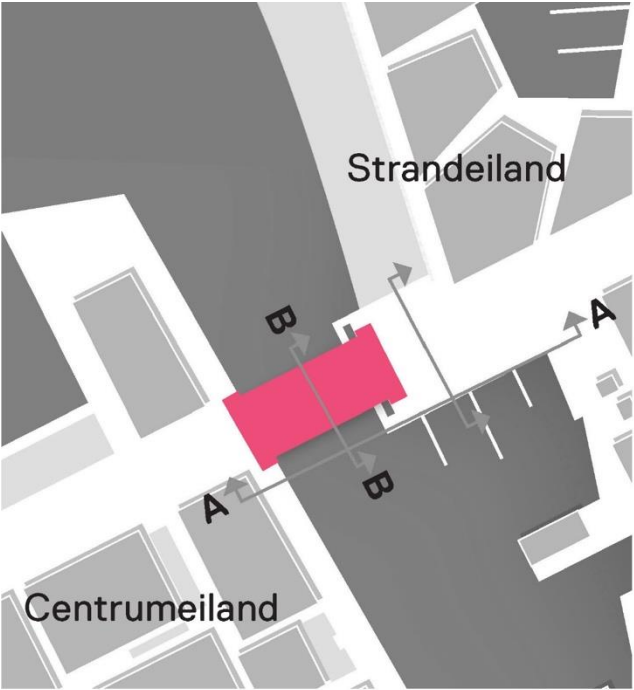


Consistency of design from general principles up to smallest details

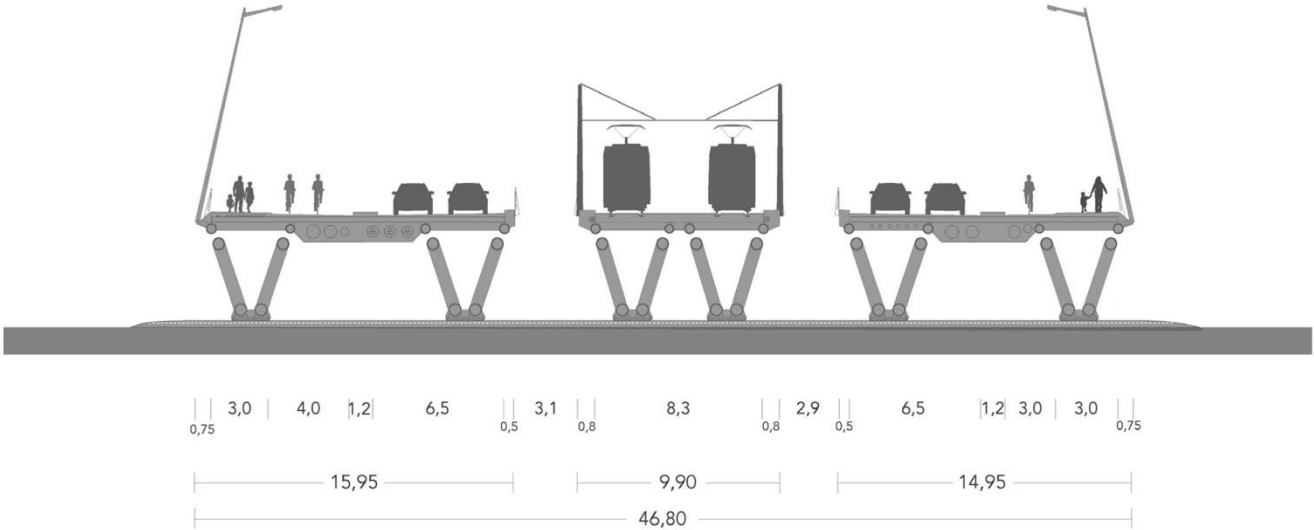
Brug 2060 en 2080



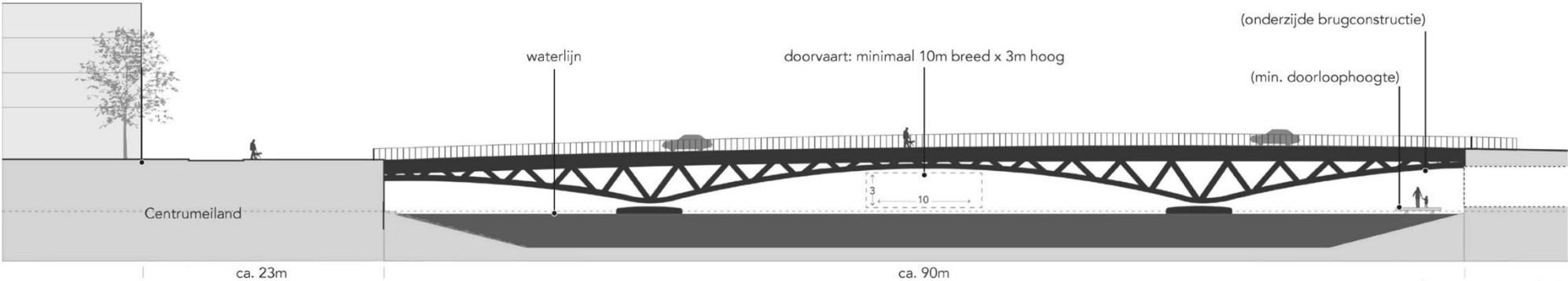
Brug 2080 met onderdoorgang



Site plan



Cross section BB



Section AA

Ontwerp – lessons learned

Balustrades



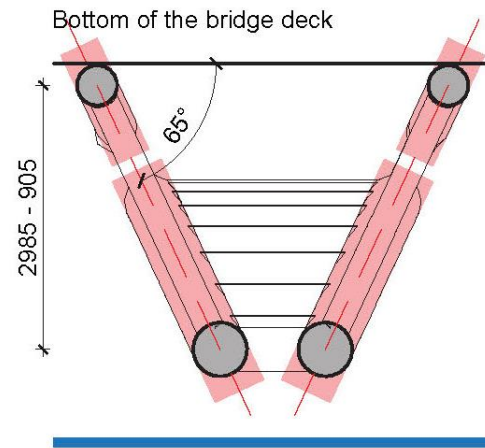
Abutments



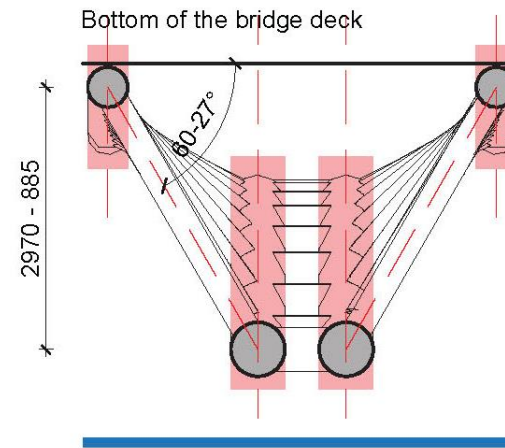
Details and finishes



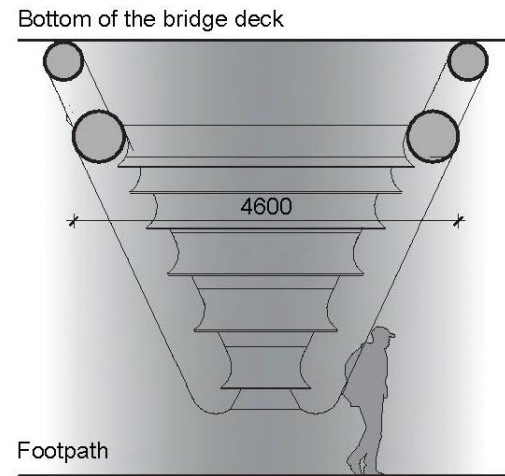
Ontwerp – geometrie vakwerk



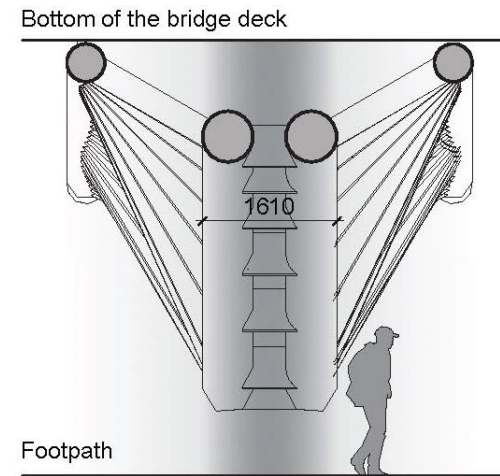
Option A



Option B



Option A



Option B

Ontwerp – geometrie vakwerk

View from the footpath – close distance.



Option A



Option B

View from under the bridge.

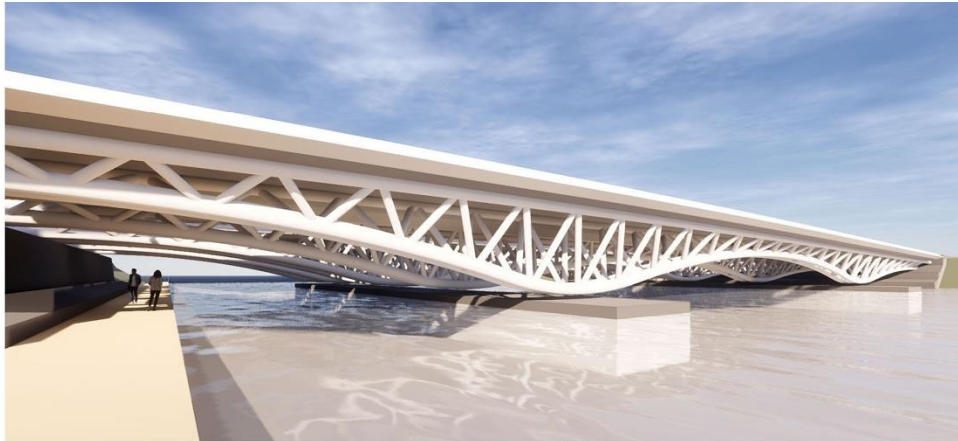


Option A



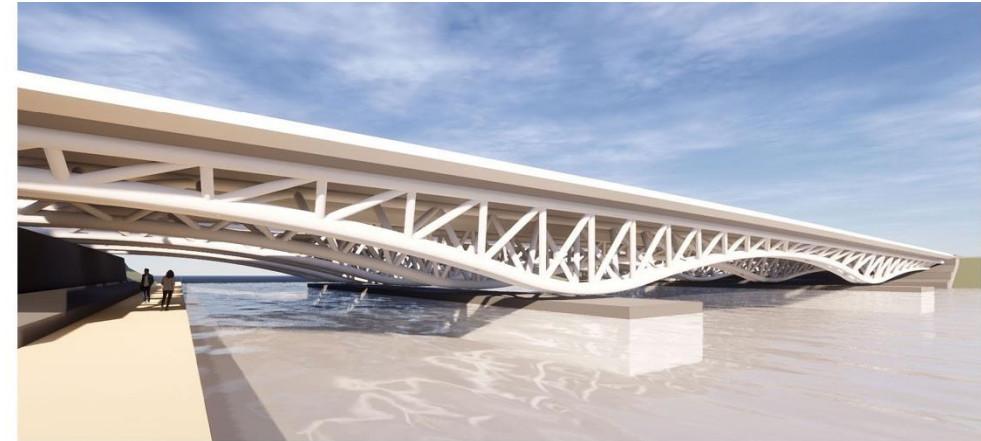
Option B

Ontwerp – geometrie vakwerk



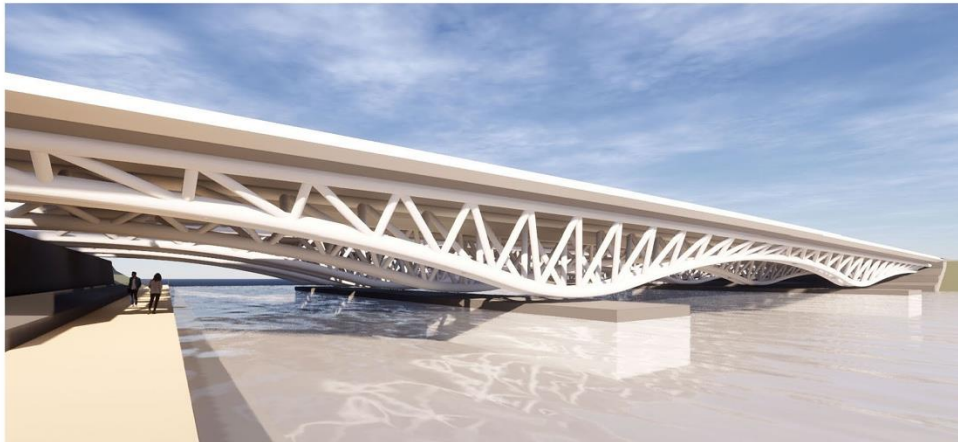
Option A
Linear distribution of diagonal truss members

Crossbeams spacing: 3397mm
Min. angle between diagonal member and cords: $\sim 43^\circ$



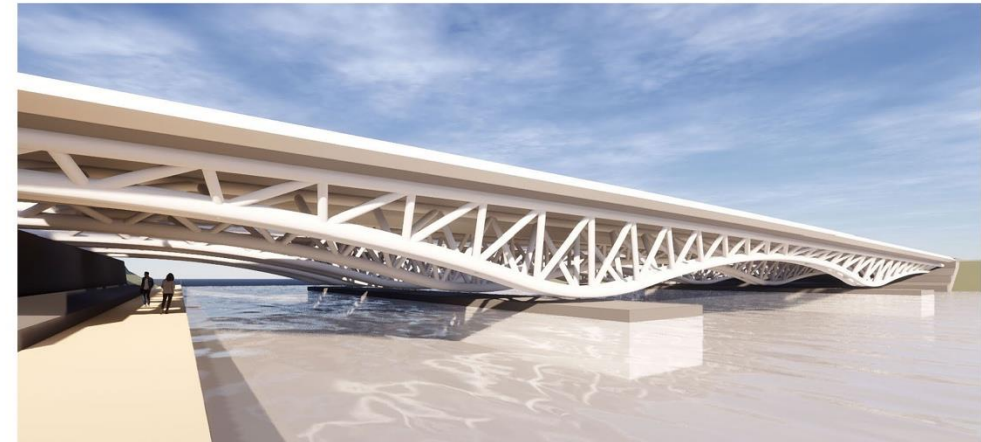
Option B
Radial distribution of diagonal truss members -
centre point above the middle of bridge span

Crossbeams spacing: 3171mm
Min. angle between diagonal member and cords: $\sim 27^\circ$



Option C
Radial distribution of diagonal truss members -
centre point below the middle of bridge span

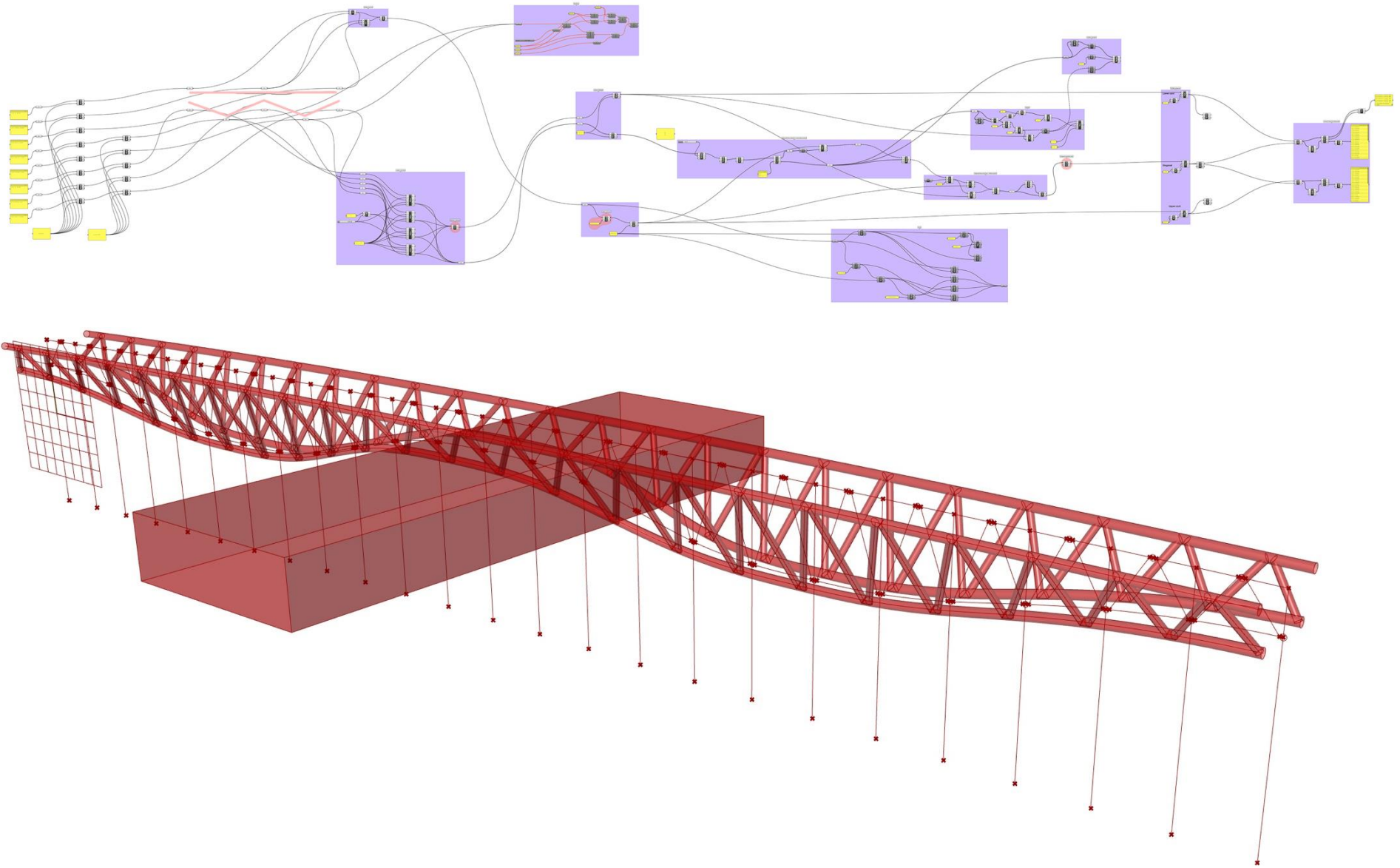
Crossbeams spacing: 3171mm
Min. angle between diagonal member and cords: $\sim 27^\circ$



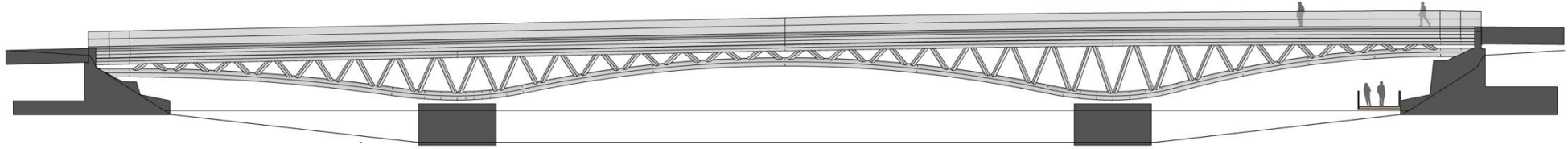
Option D
Radial distribution of diagonal truss members -
centre point above the landings

Crossbeams spacing: 3171mm
Min. angle between diagonal member and cords: $\sim 27^\circ$

Ontwerp – Scripting

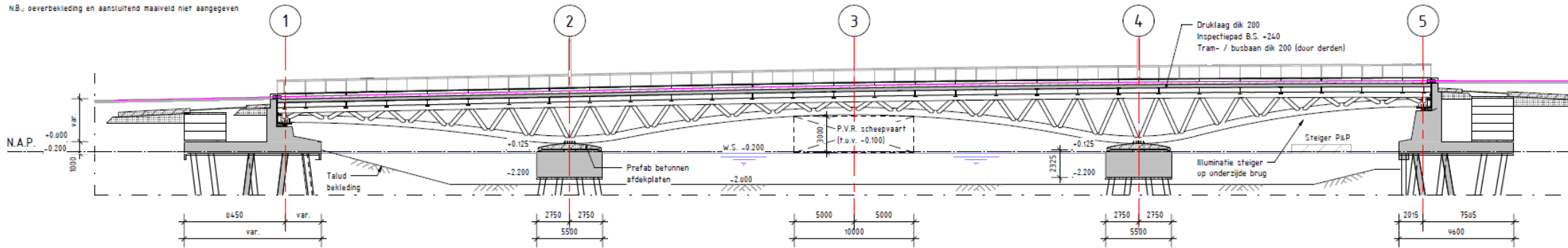


Ontwerp – Afstemming met constructeurs



Schaal: 1 : 200

N.B.: oeverbekleding en aansluitend maaiveld niet aangegeven



Doorsnede A-A (Trambrug)

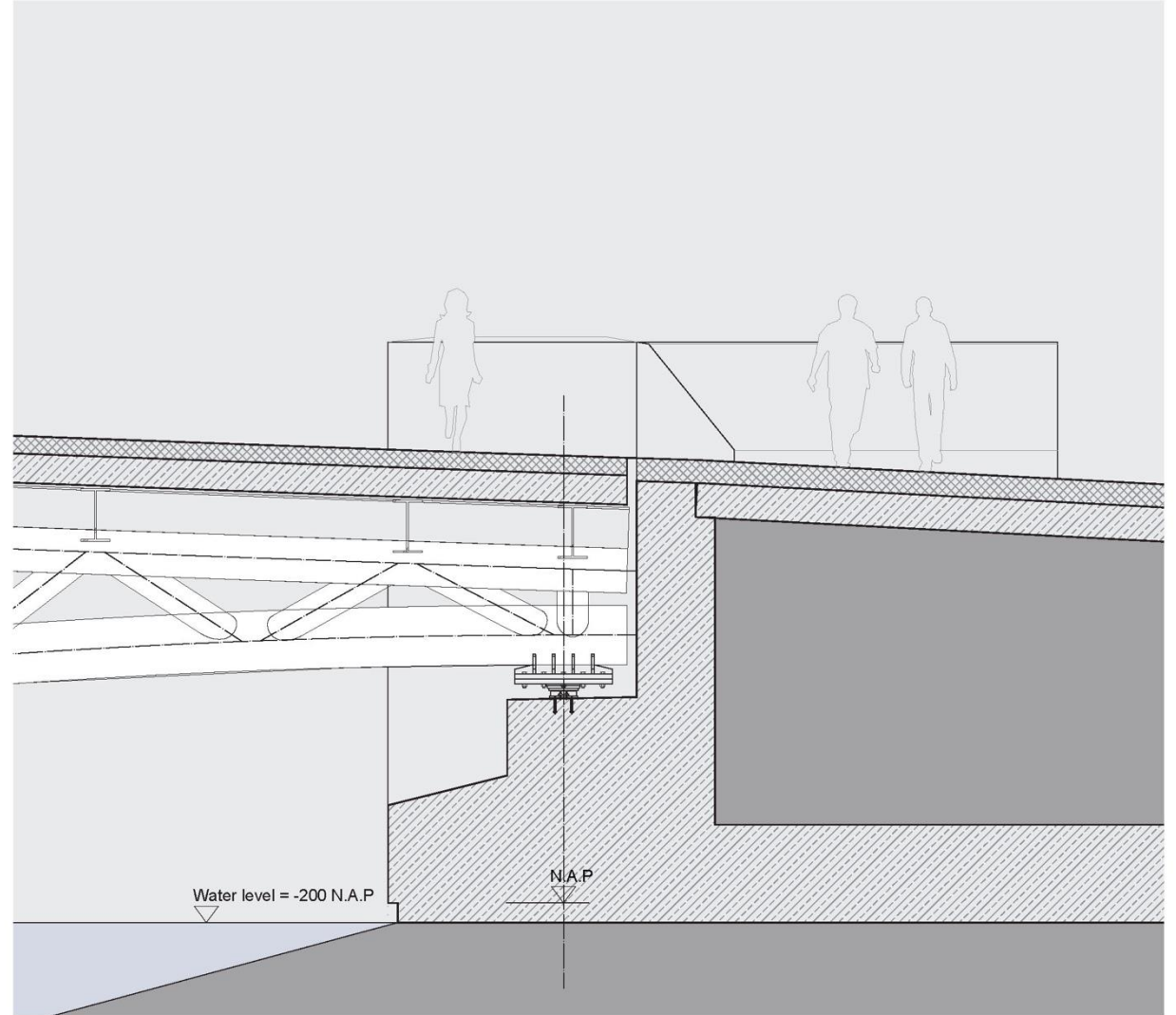
Schaal: 1 : 200

Technical cross-section diagram of a bridge deck showing the connection between a pile cap and a truss structure. The diagram includes various components and dimensions:

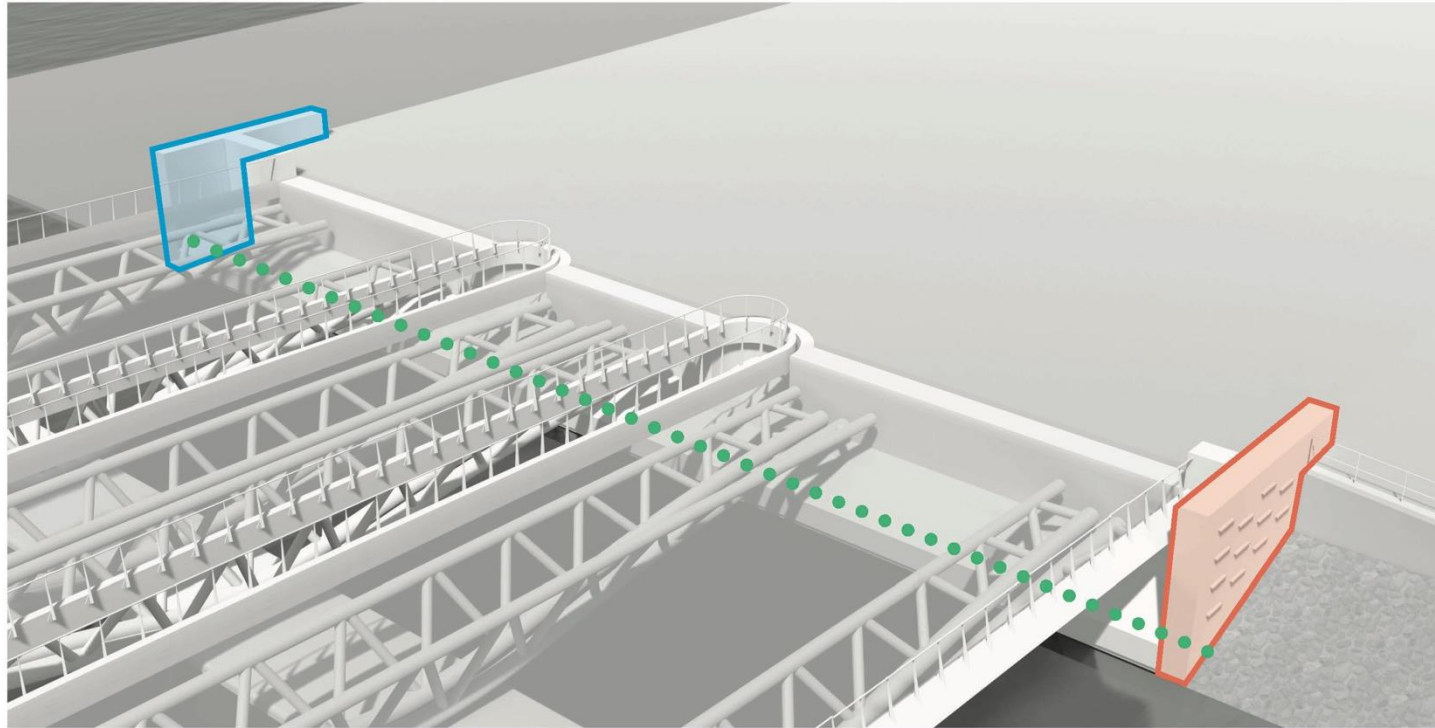
- RESTON POT bearing** TE5.5i 186mm
- Rectification layer** ca 10mm
- Water drain pipe** Ø80, spacing 1400mm
- Grout**
- Truss connection detail** steel plates 50mm and 25 mm (TBC)
- Steel tube** Ø610
- Anchor plate** 1200x1930x50mm
- Water drain pipe** Ø80, spacing 1400mm
- Top cover** - pre-cast concrete
- Pile cap** - concrete in-situ

Dimensions and elevations:

- Vertical dimensions: 538, 260, 100, 150, 50, 150, 50, 150.
- Horizontal dimensions: 250, 1280, 280, 940, 1880, 280, 1280, 250.
- Curved dimensions: R150, R1000, R150.
- Elevations: +950, +300, +125, -200 (N.A.P.).



Ontwerp – Ecologie



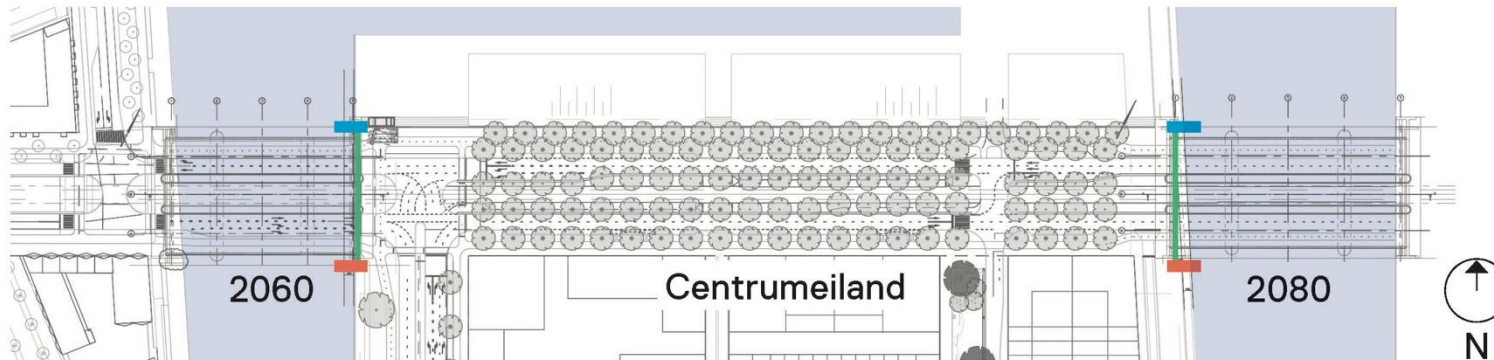
Sand martin nests
(North side)



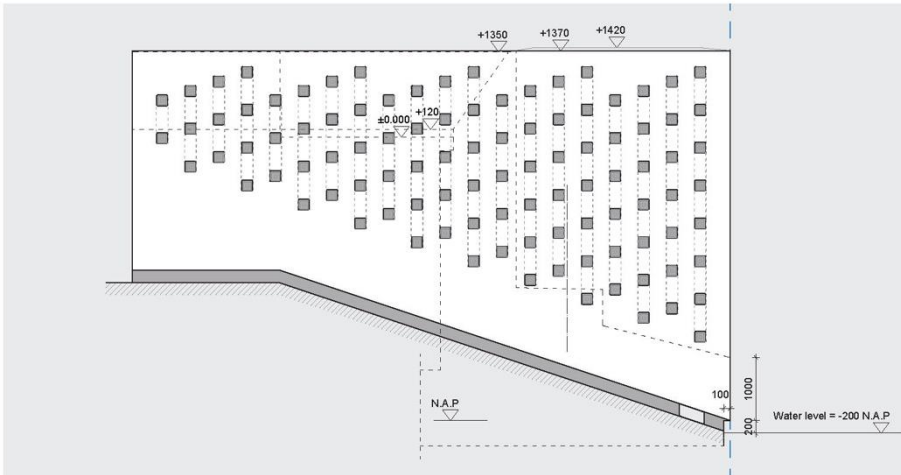
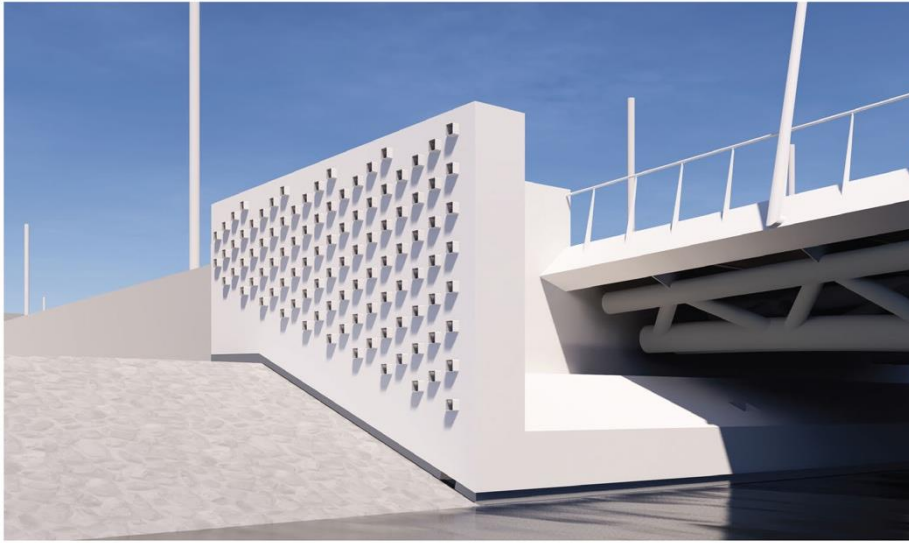
Bats hideout
(South side)



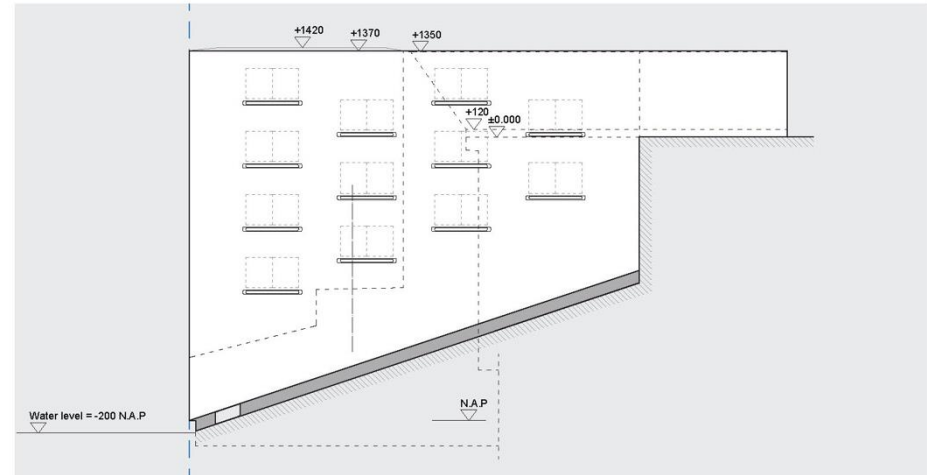
Transfer along the bank



Ontwerp – Ecologie

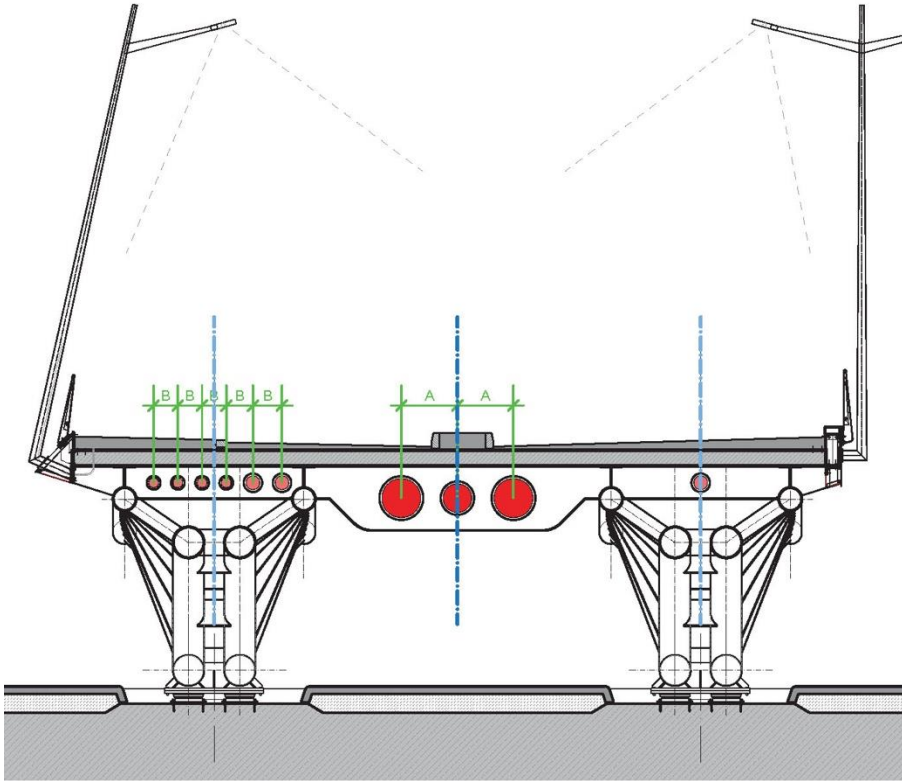


North wing wall – 100 swallows nests



South wing wall – 12 chambers for bats

Ontwerp – Coördinatie



Ontwerp – Verlichting



Ontwerp – Detaillering

