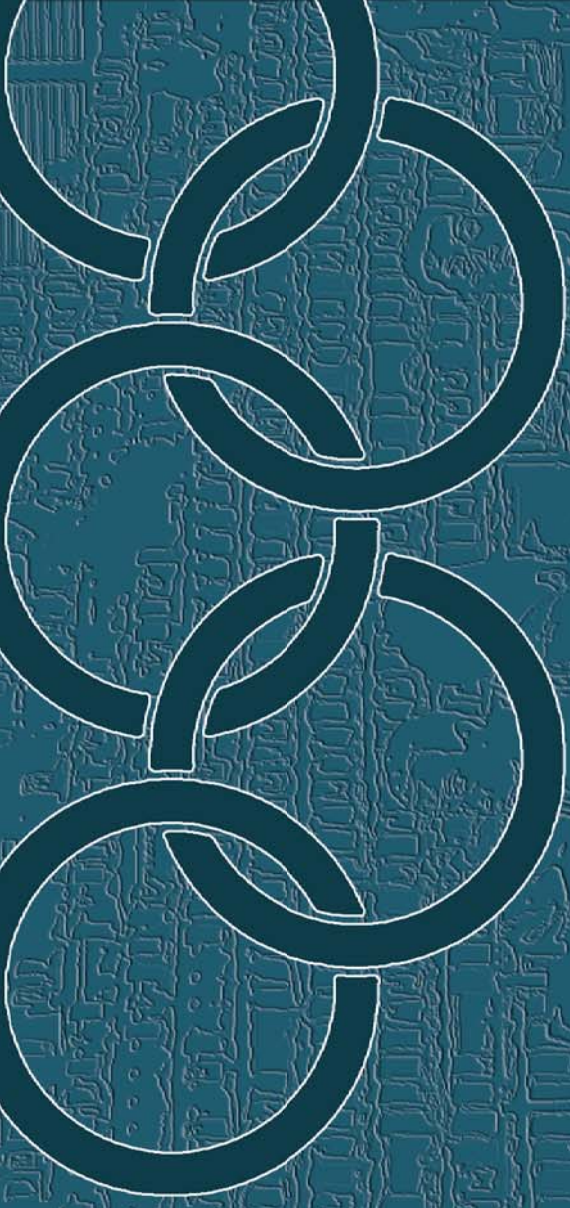


P5 Presentation 30-10-2009

Sjors Verhaar b1169807



Olympic Games in the Netherlands

designing a multifunctional stadium

Introduction



OLYMPISCH VUUR
ALLIANTIE OLYMPISCH PLAN 2028

Onze Missie

We gaan met sport in de volle breedte heel Nederland naar Olympisch Niveau brengen. Daar hebben we allemaal profijt van, nu en in de toekomst, op sociaal-maatschappelijk, economisch, ruimtelijk en welzijnsgebied. Het als mogelijk resultaat de Olympische en Paralympische Spelen in 2028 in Nederland.

OLYMPISCH VUUR
ALLIANTIE OLYMPISCH PLAN 2028



Research questions

- How can you develop a compact Olympic Games that also can be reused or redeveloped for the period after the Olympics?
 - research how other major (sports) events or developments can be part in the process of developing the Olympic Games?
- How can you create a (sport) accommodation that can be used for multiple functions (and on different locations) by using the water as an advantage and quality?

Research

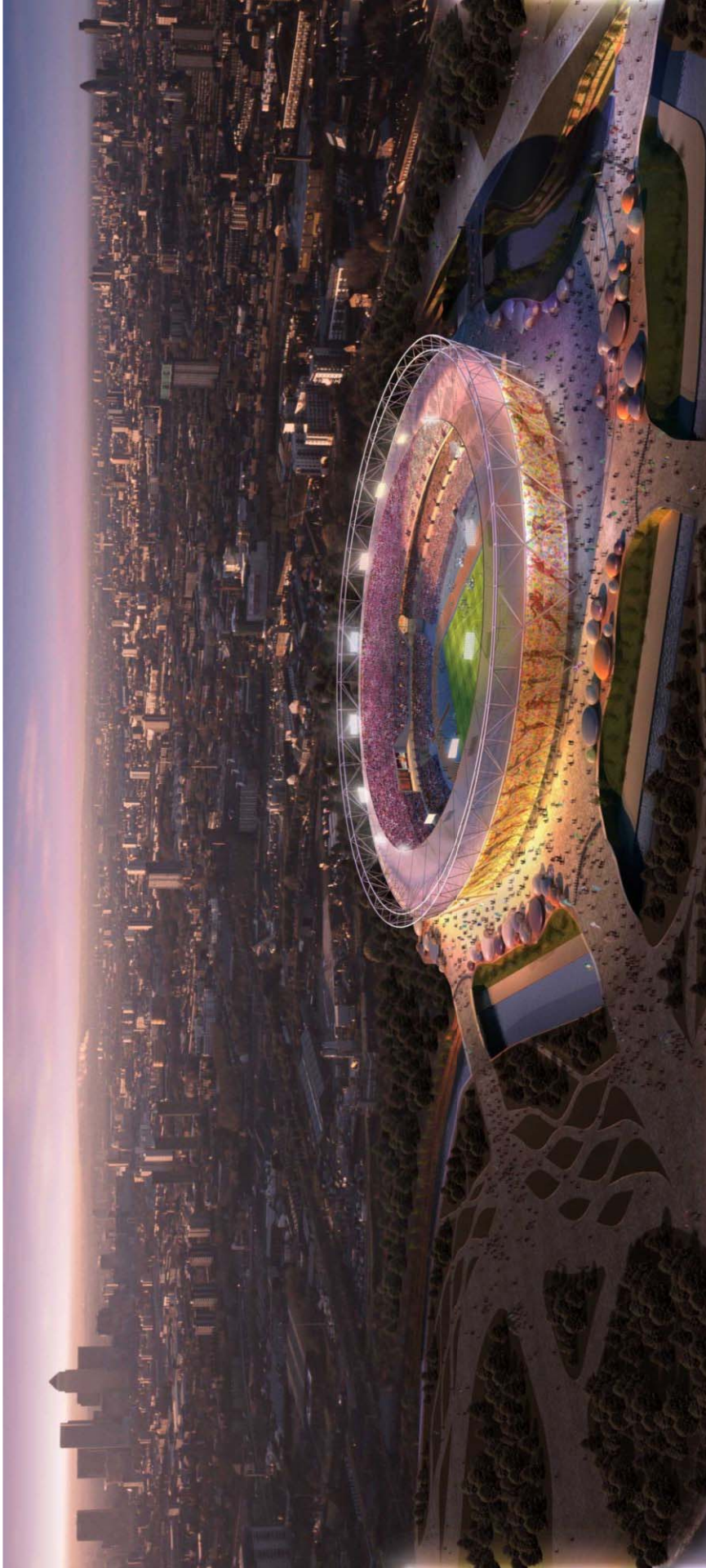
Conclusion research

- Well organized Olympic Games can have a positive influence on the organizing city, which can improve structurally, as well the infrastructure and public spaces can benefit majorly.



Conclusion research

- Thinking ahead on a long term base can prevent unnecessary investments; especially by focusing on the building scale; the use and re-use of facilities after the Olympic Games.



Conclusion research

- Two interesting options for hosting the Olympic Games; Amsterdam & Rotterdam.
The Rotterdam harbor is chosen to become the location for the Olympic Games.



Conclusion research

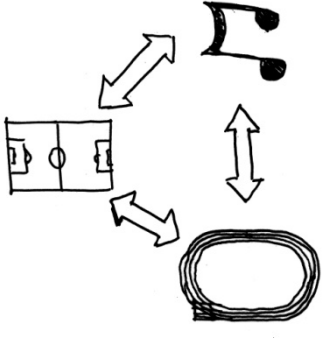
- The water has enormous spacious qualities and offers a lot of possibilities for flexible use and movement



Principles

Principles

- **Multifunctional and flexible use must be one of the leading aspects.**
- Stadium must be designed within thought of long term use.
- The Olympic Stadium and Park must be the icon of the Olympic Games and can show the Netherlands as one of the leading countries in water development. The Rotterdam harbor offers the possibilities for this.
- The stadium must have a strong relation with the water and therefore must be used as an advantage for the urban and building concept.
- The floating aspect of the water is the most interesting one for the building. Especially the movement over the water gives opportunities for the concept.
- Optimal experience of games or other events by the spectators. The form of the stands and the distance to field play a big role in this.



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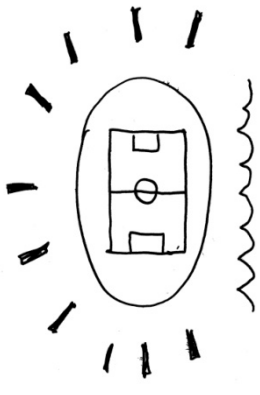


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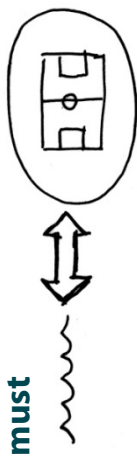
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Concept

Concept

- **Multifunctional**

- **Flexible**

- **Water**

- **Icon**

- **Routing**

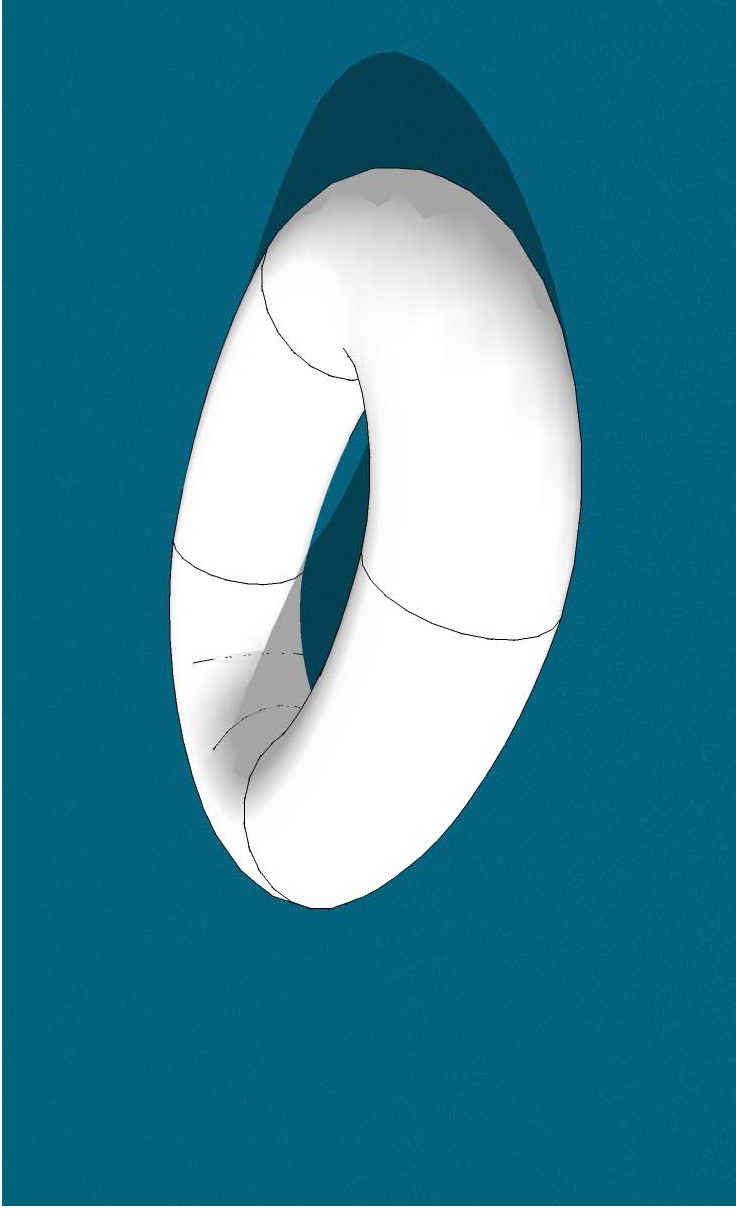
Concept

process concept



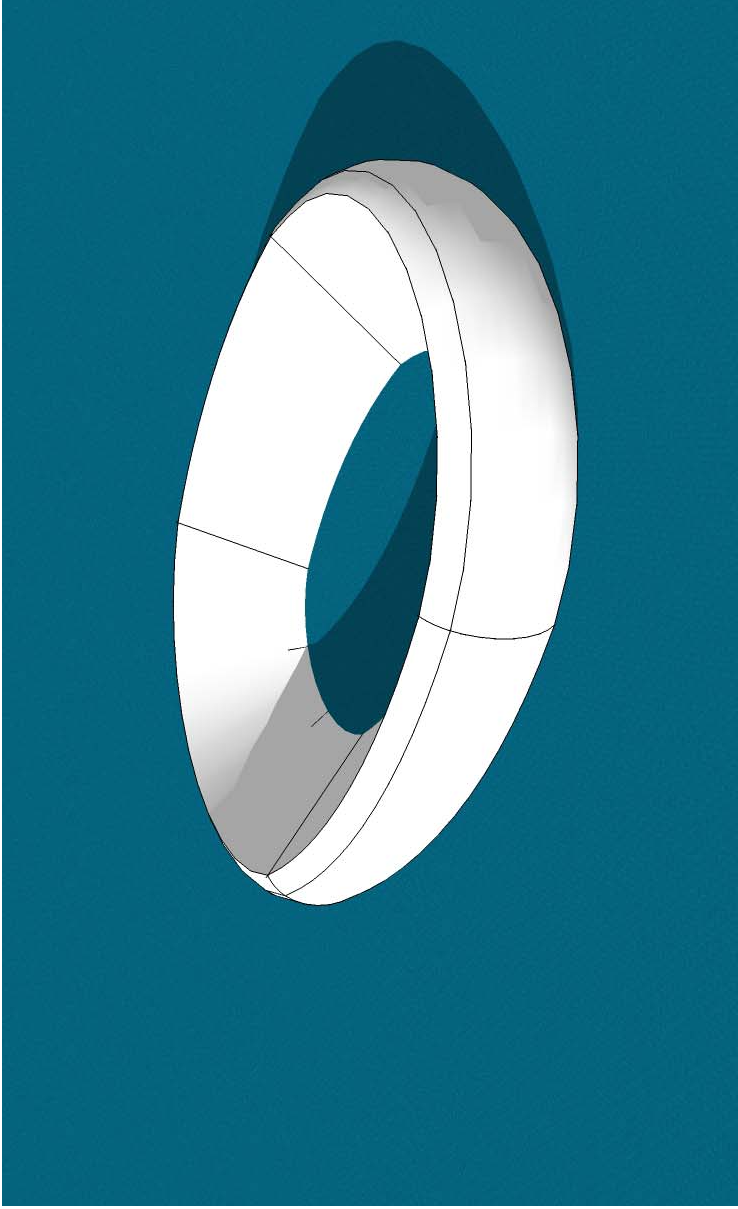
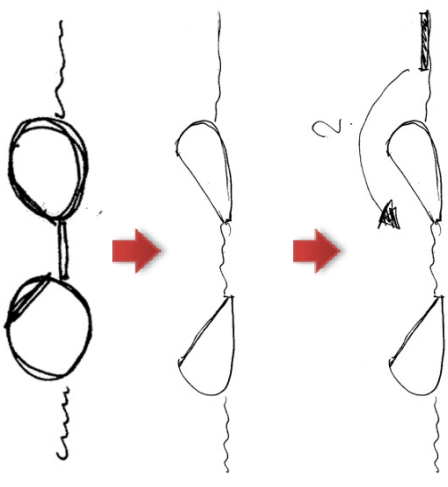
Concept

process concept



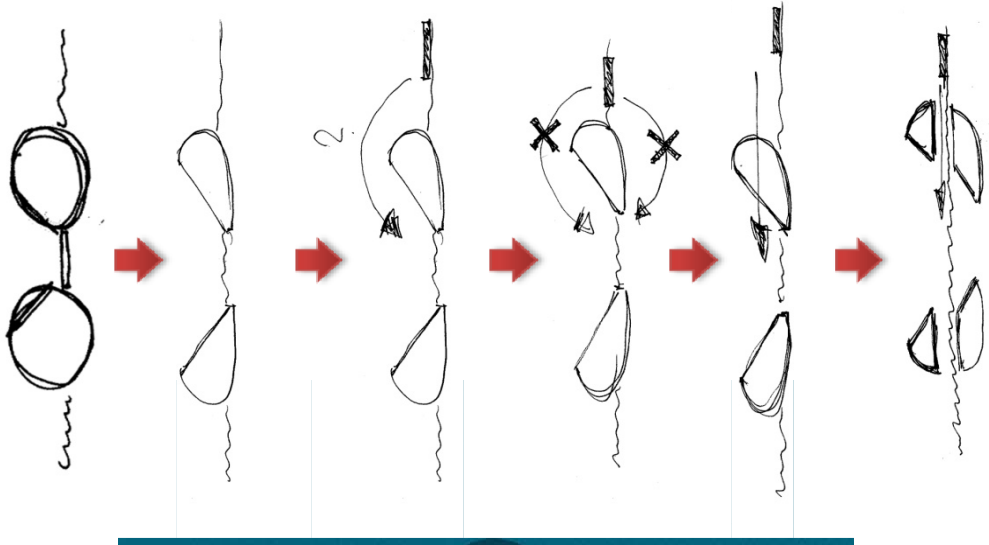
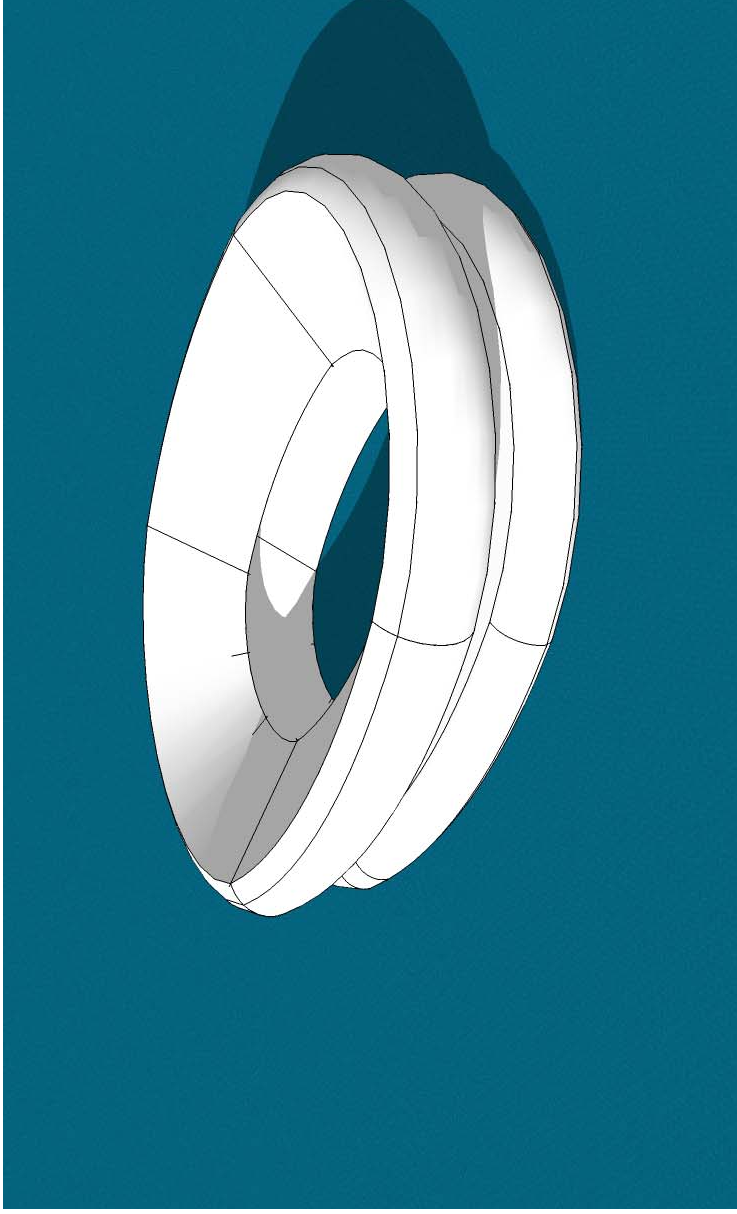
Concept

process concept



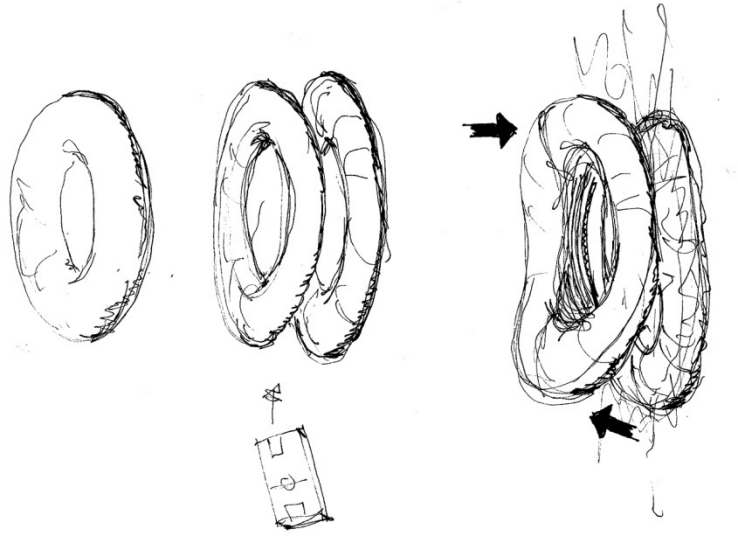
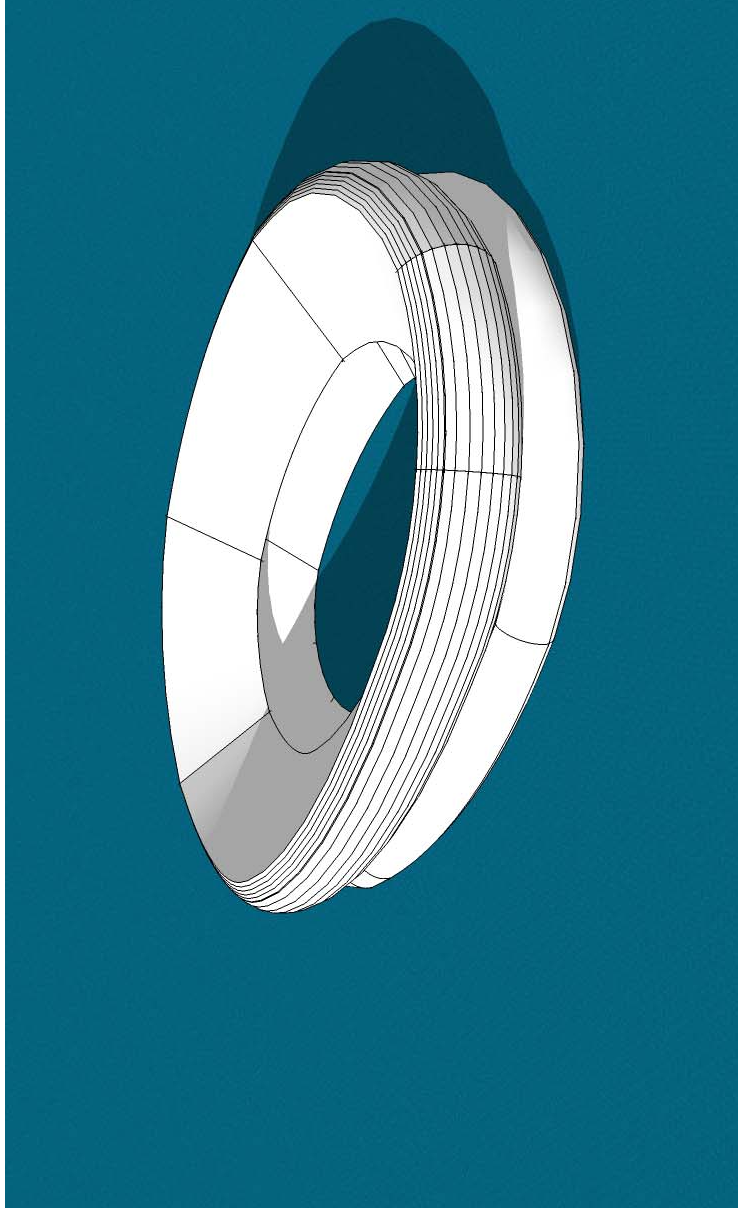
Concept

process concept



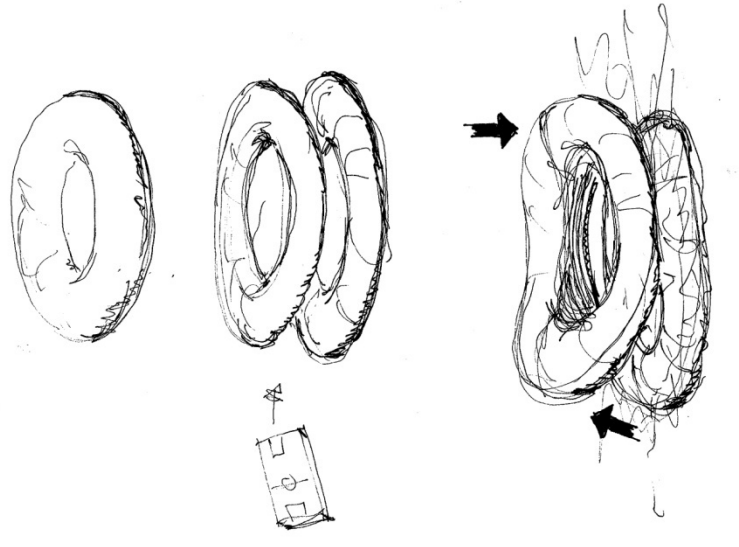
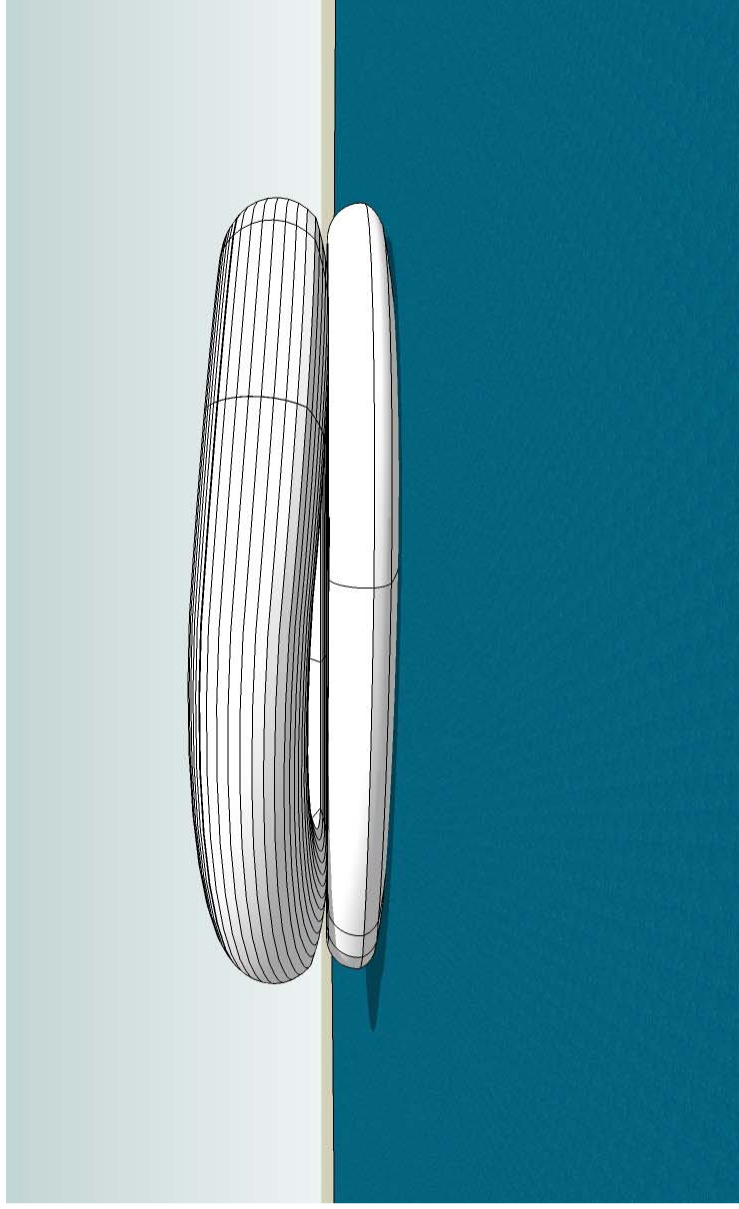
Concept

process concept



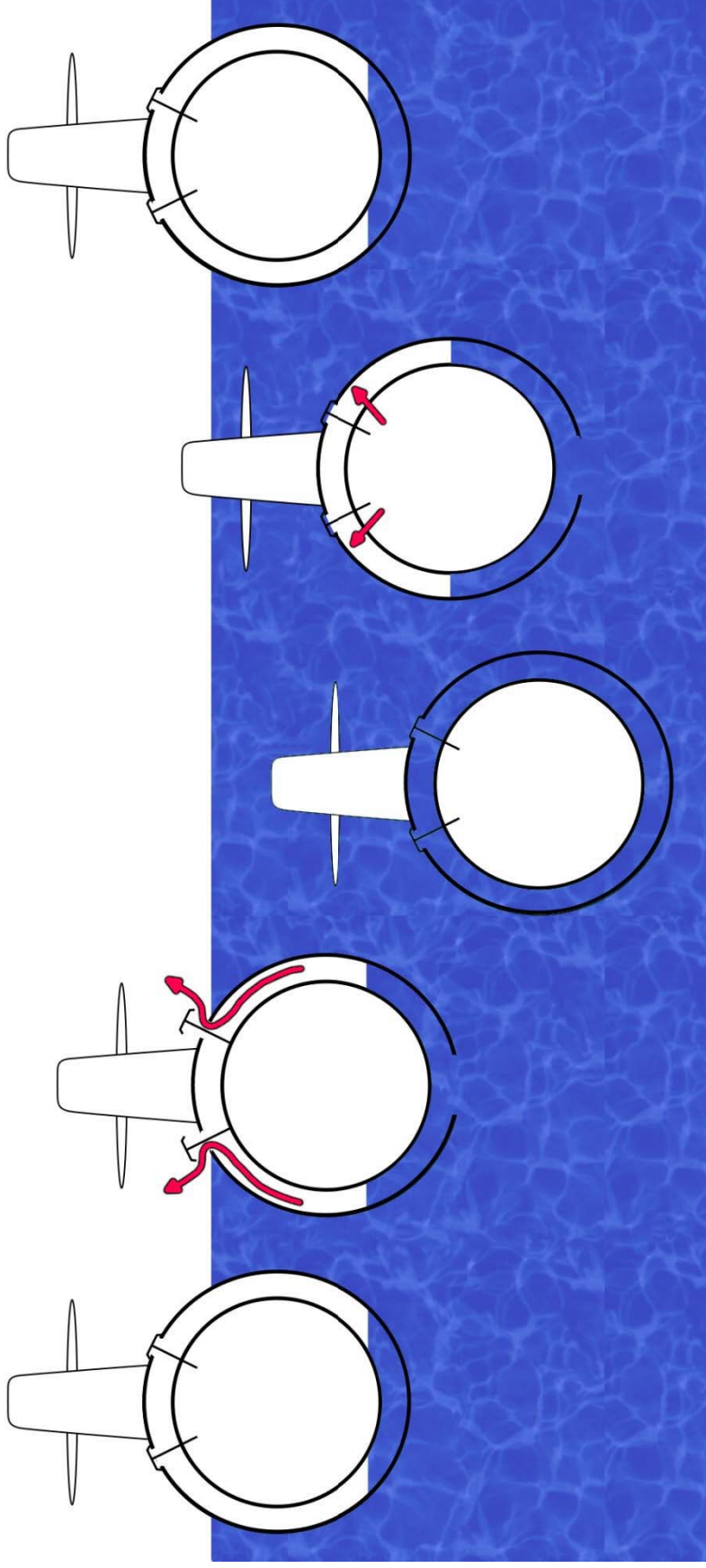
Concept

process concept

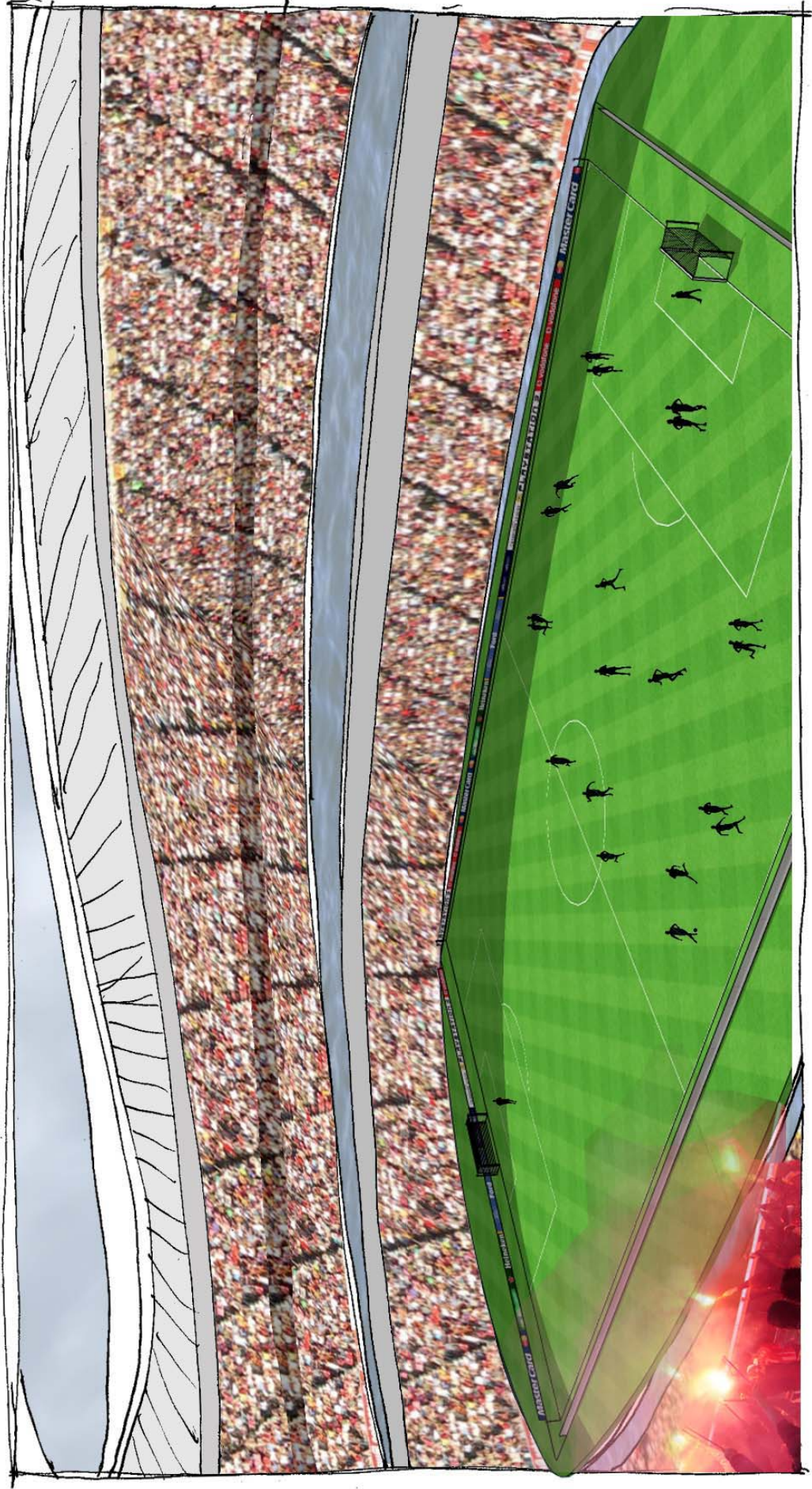


Submarine

Principle submarine

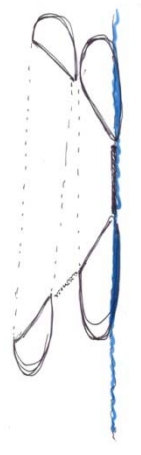
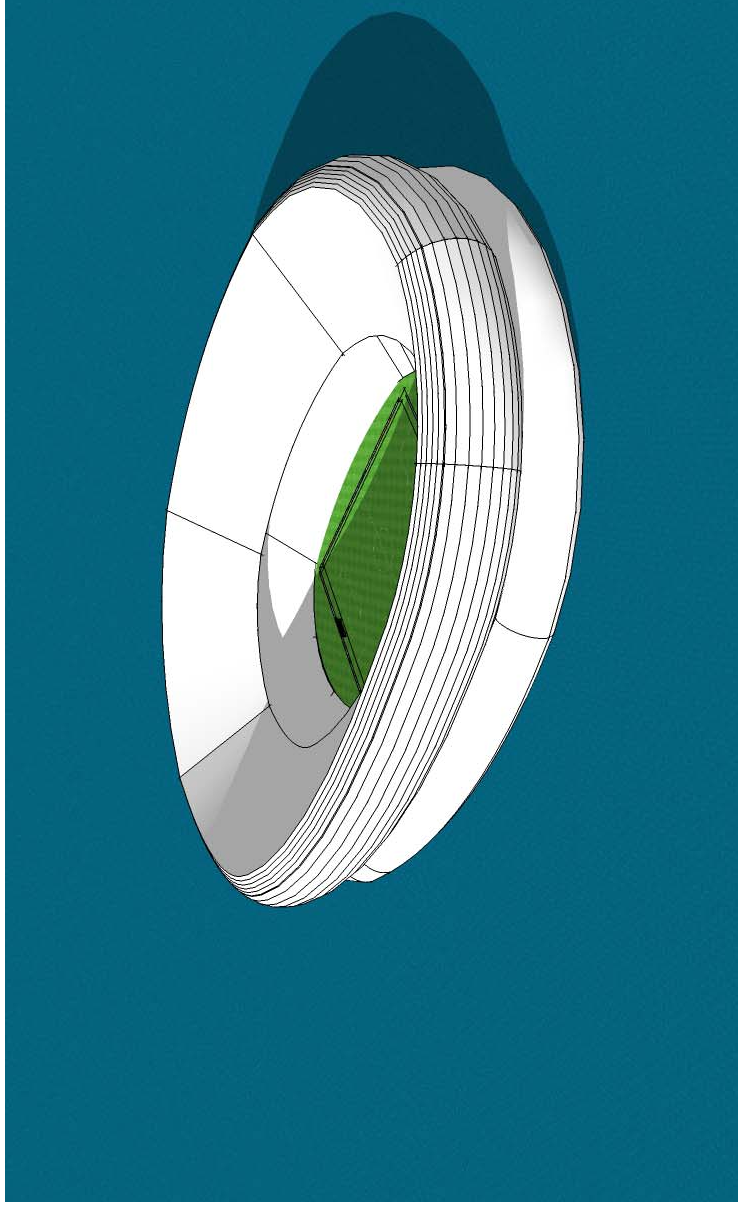


Images



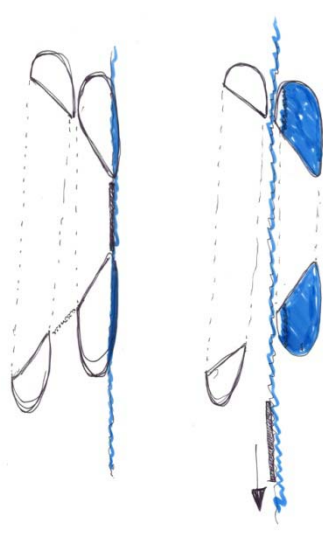
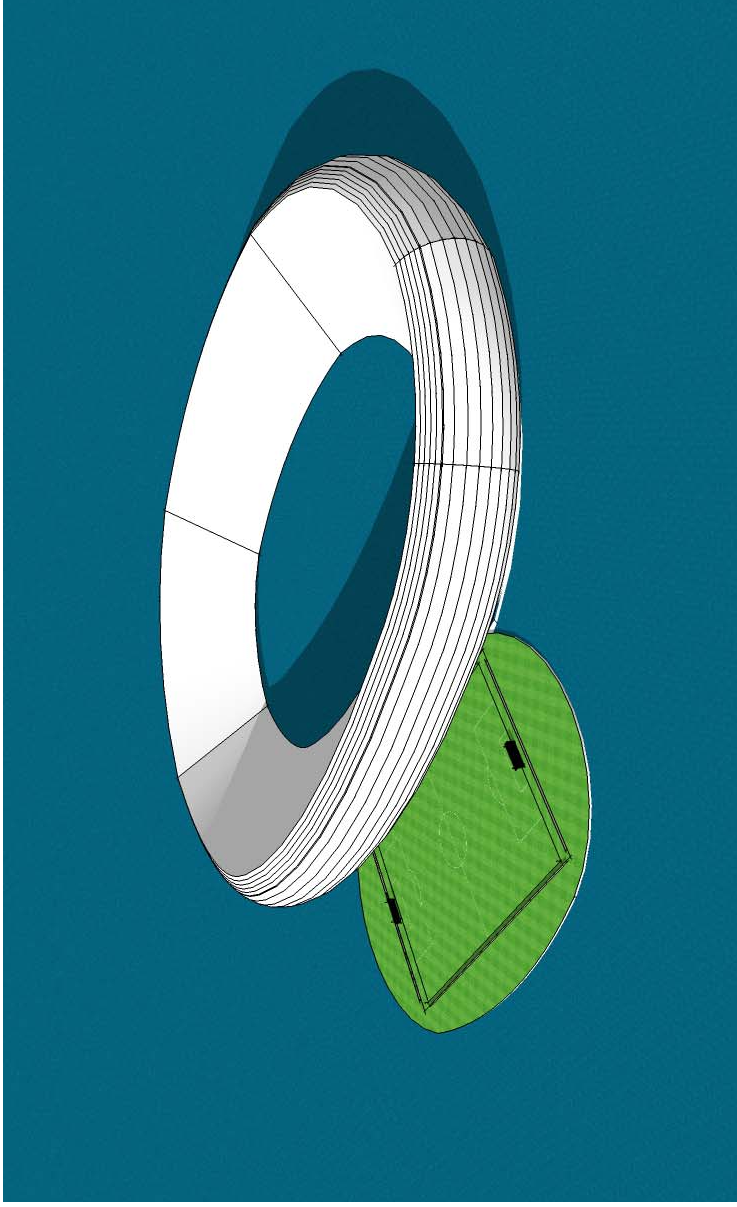
Concept

process concept



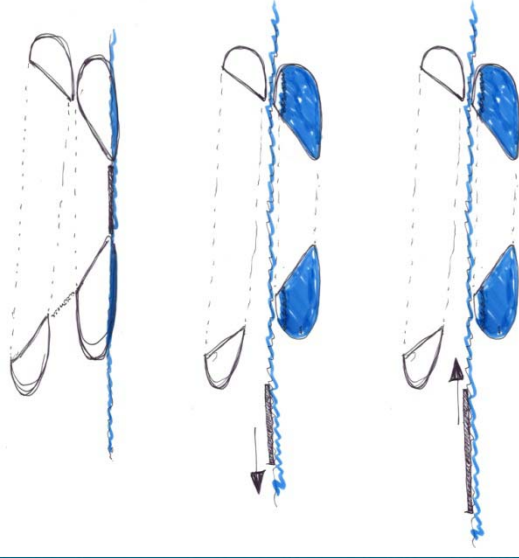
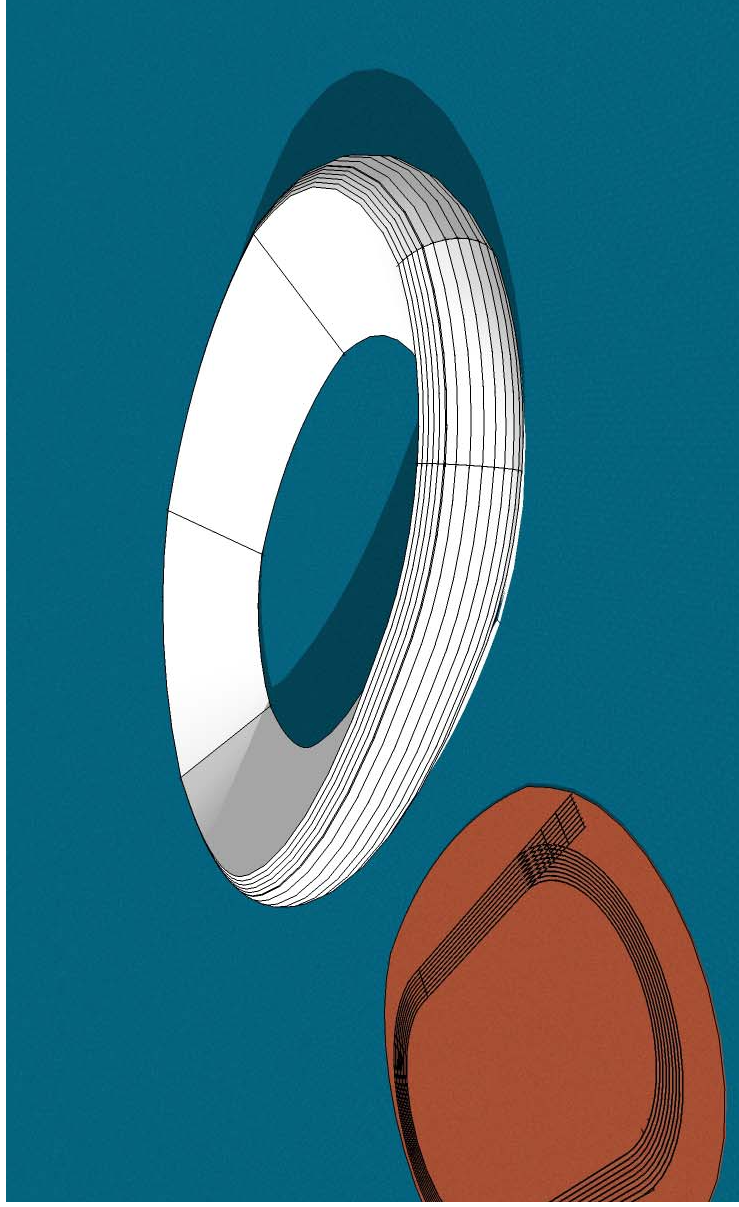
Concept

process concept



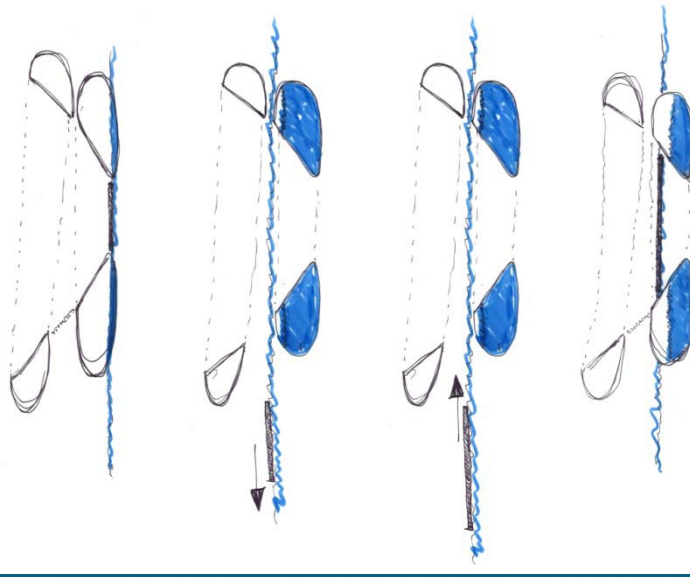
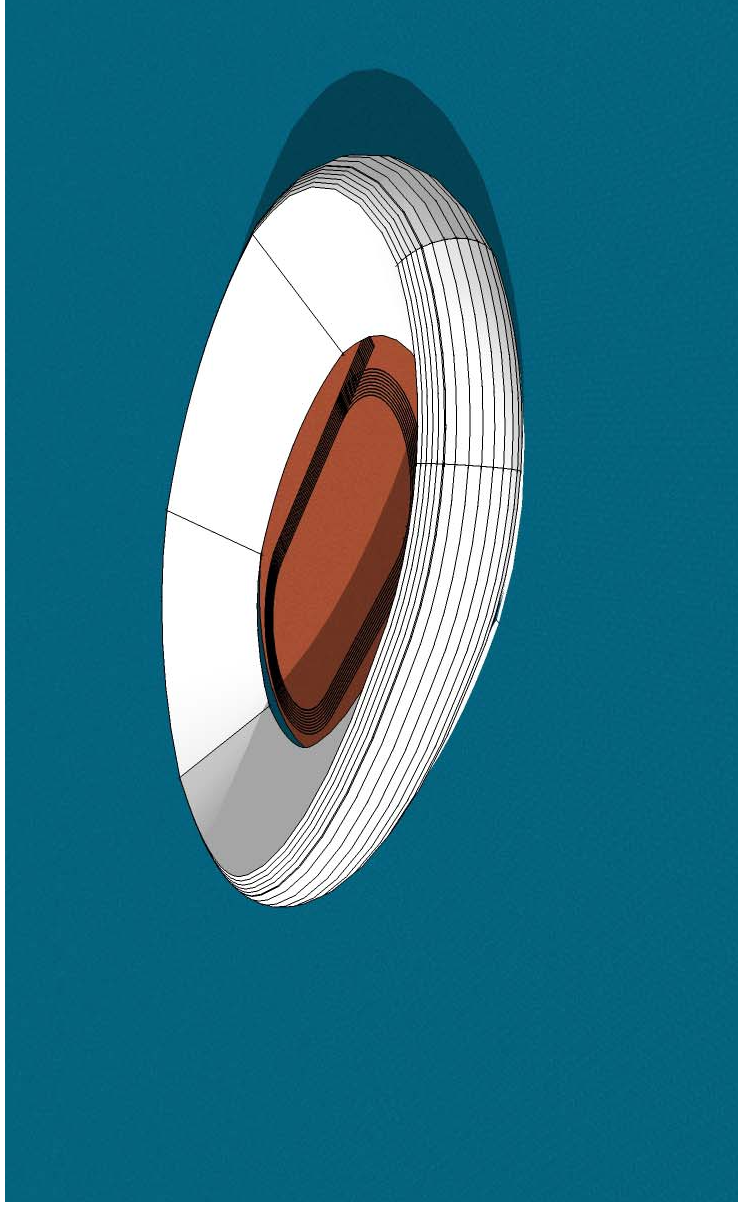
Concept

process concept

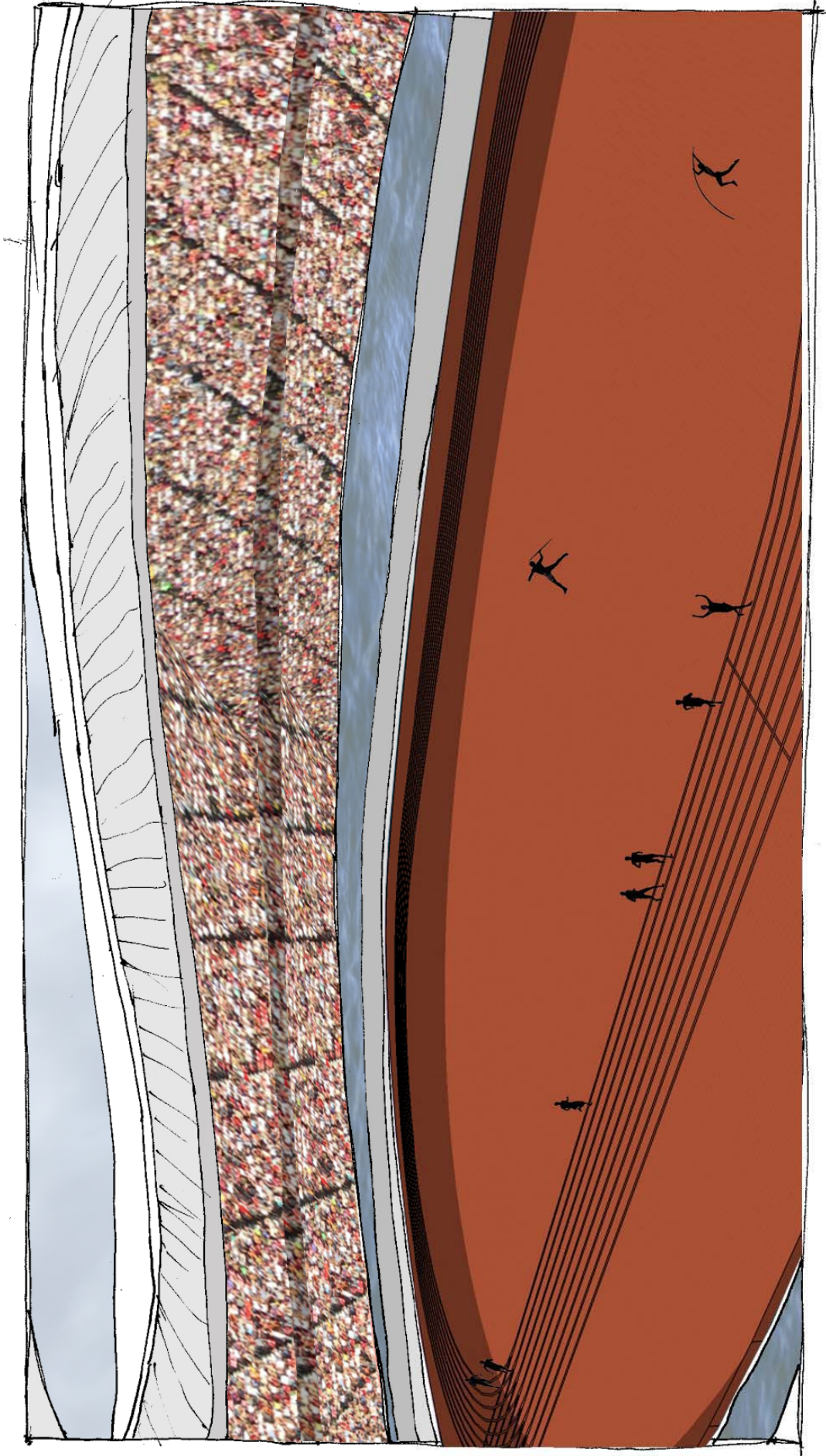


Concept

process concept



Images



Experience

Routing



Supporters 1st ring



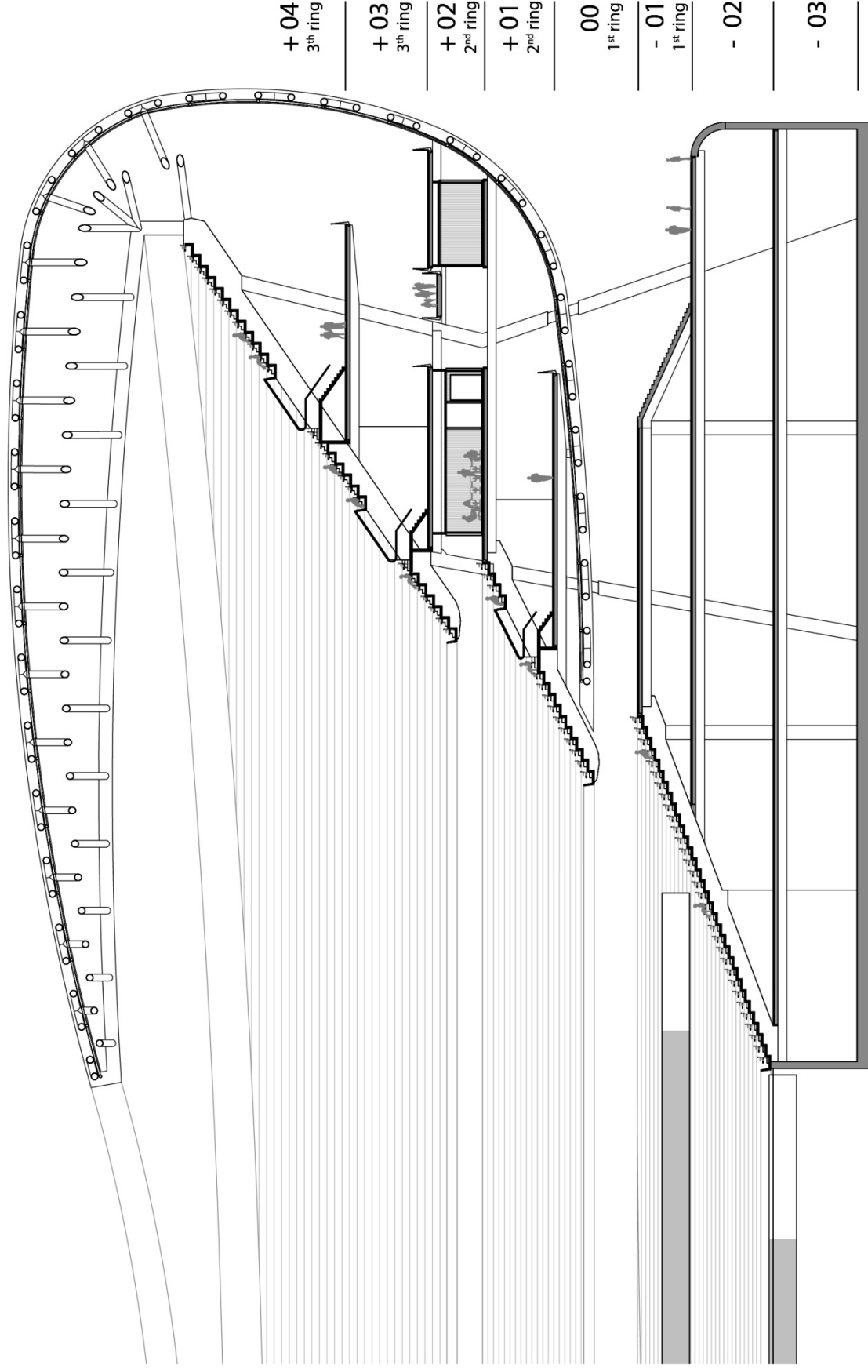
Supporters 2nd & 3th ring



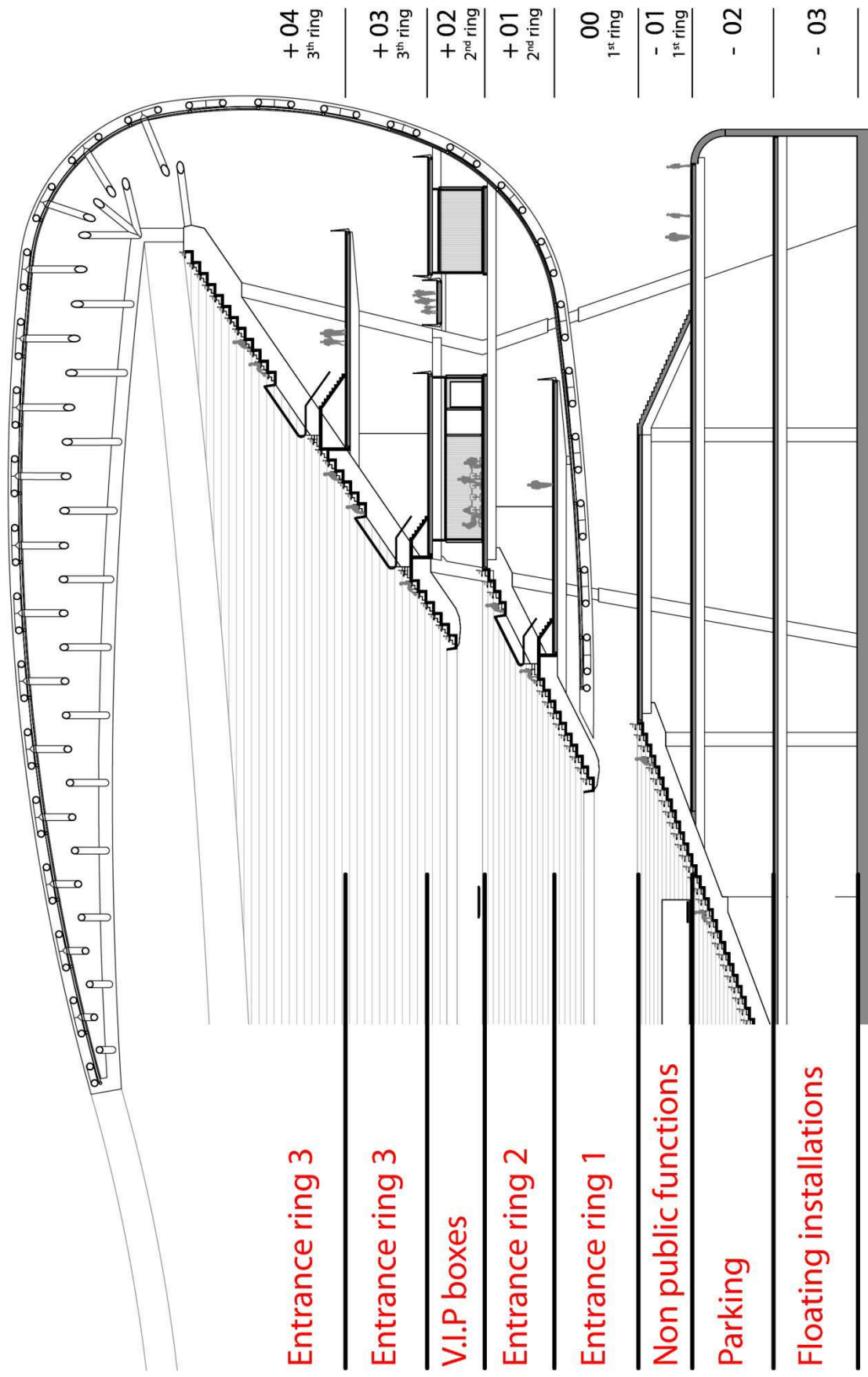
V.I.P.'s

Routing

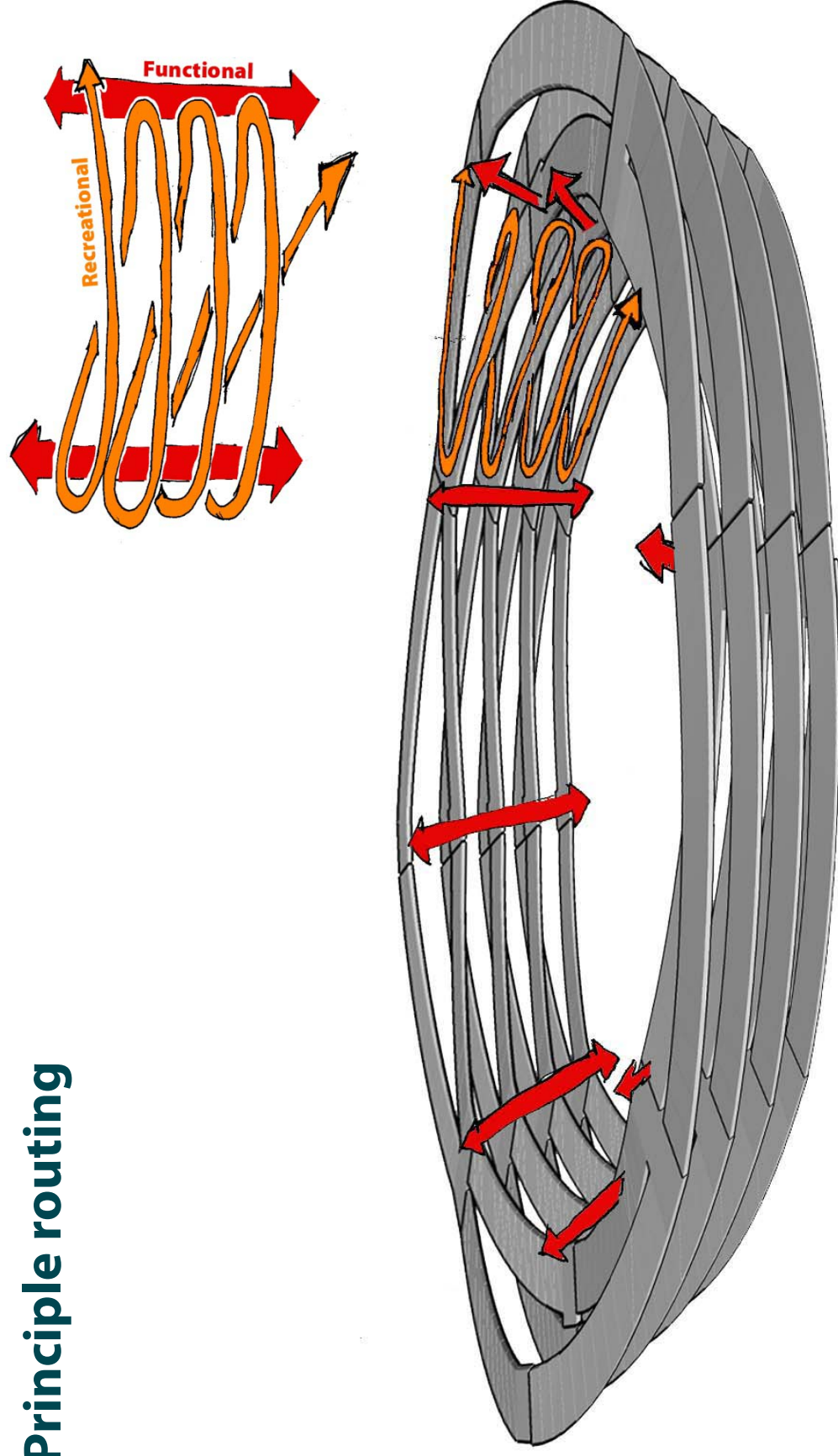
Floors



Floors



Principle routing



Routing

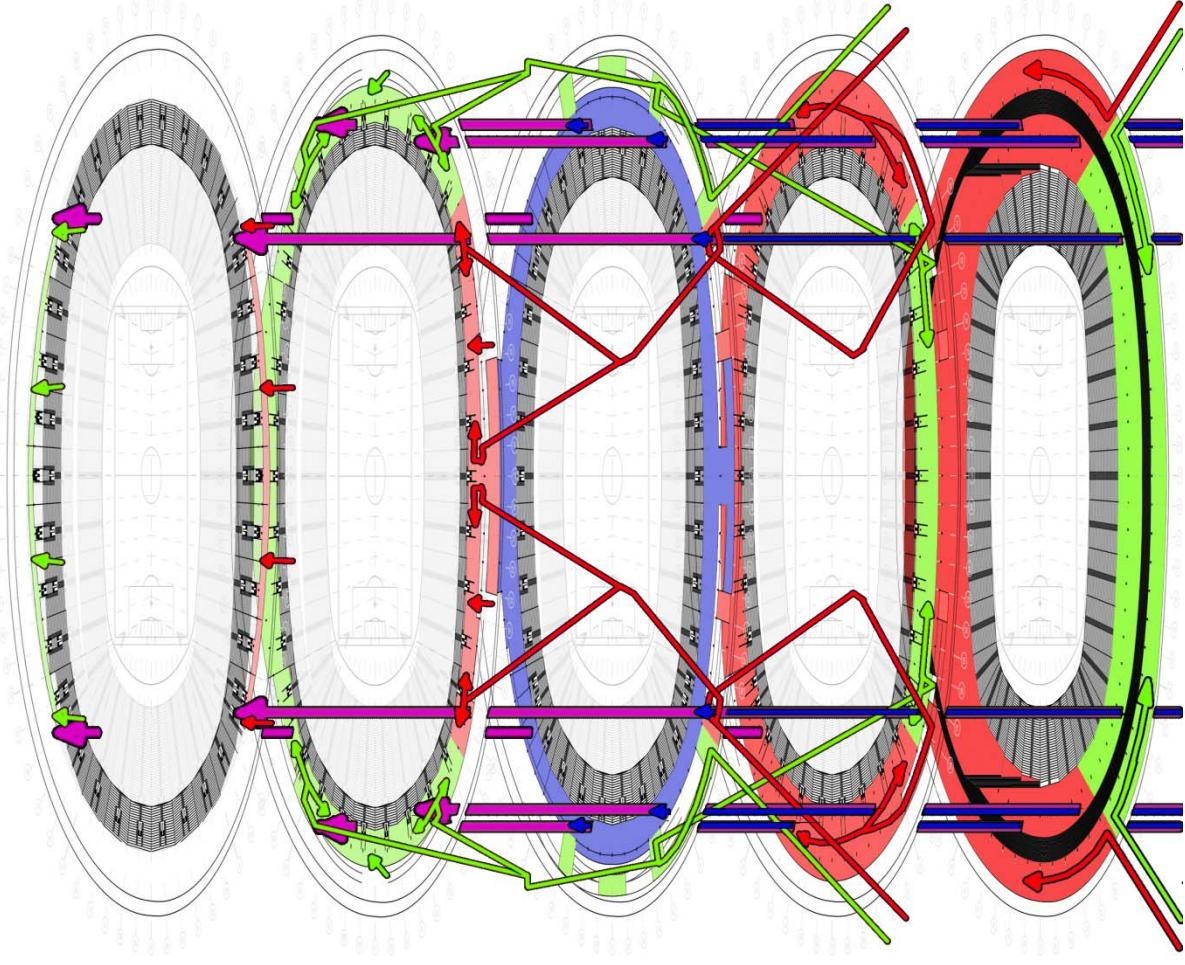
+04
3th ring

+03
3th ring

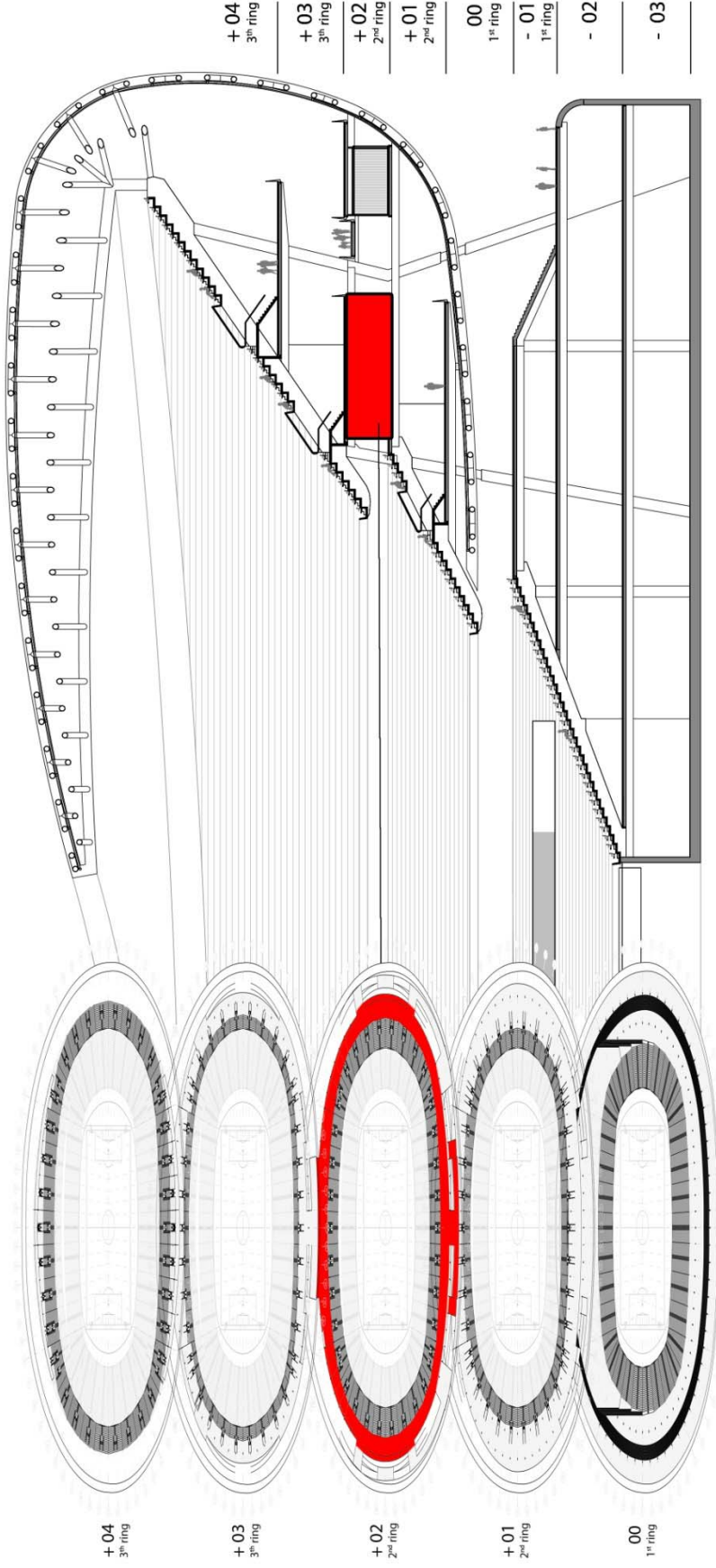
+02
2nd ring

+01
2nd ring

00
1st ring



Routing



Routing

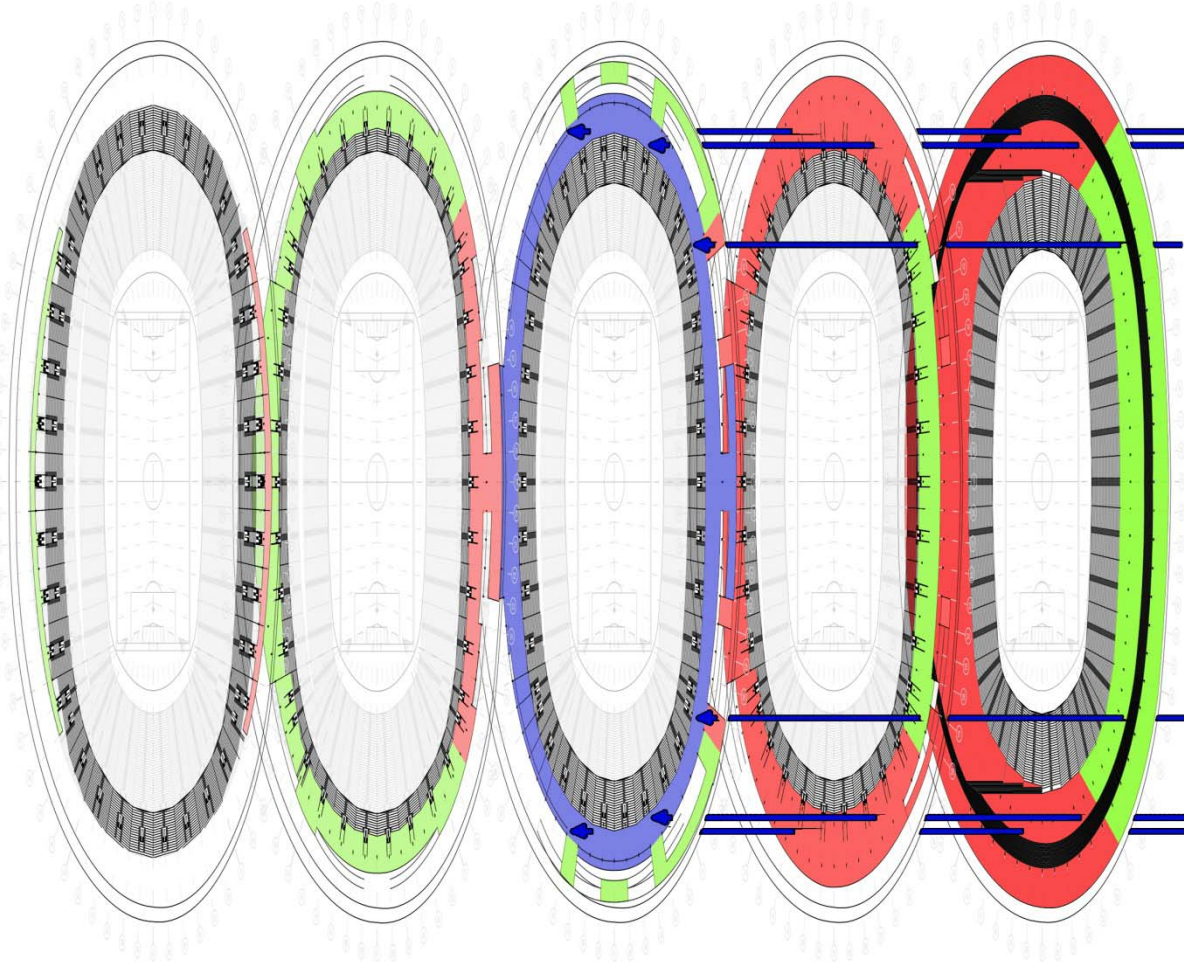
+04
3th ring

+03
3th ring

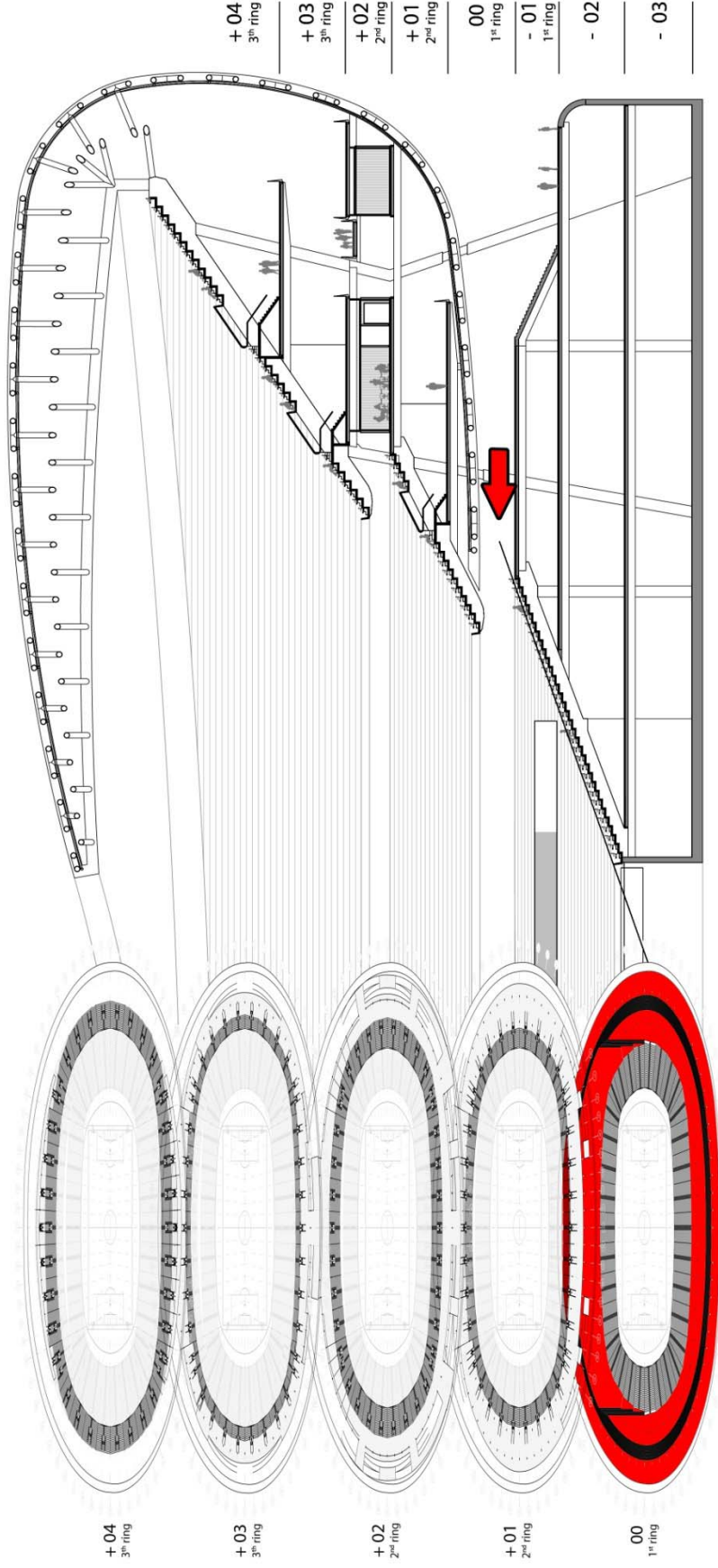
+02
2nd ring

+01
2nd ring

00
1st ring



Routing



Routing

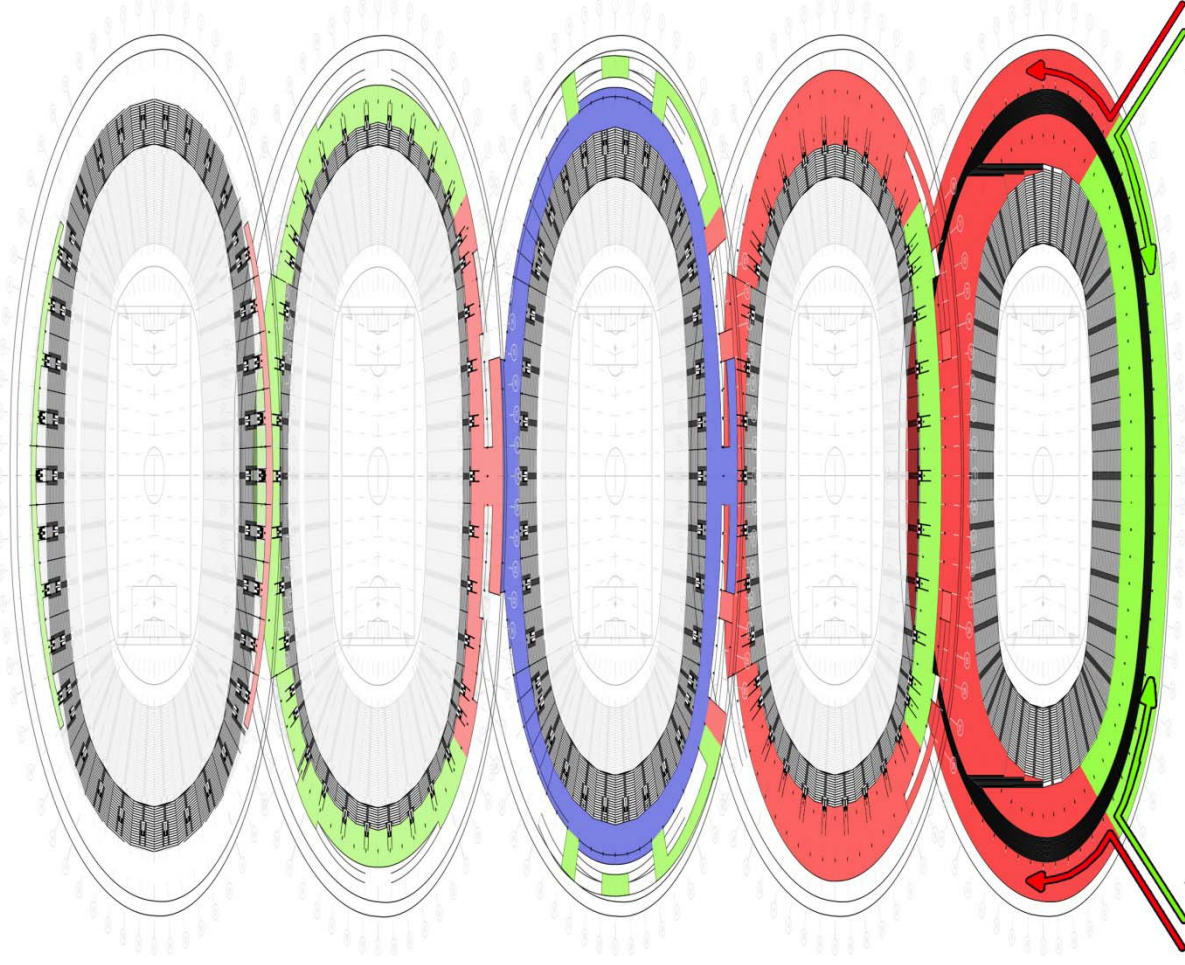
+04
3rd ring

+03
3rd ring

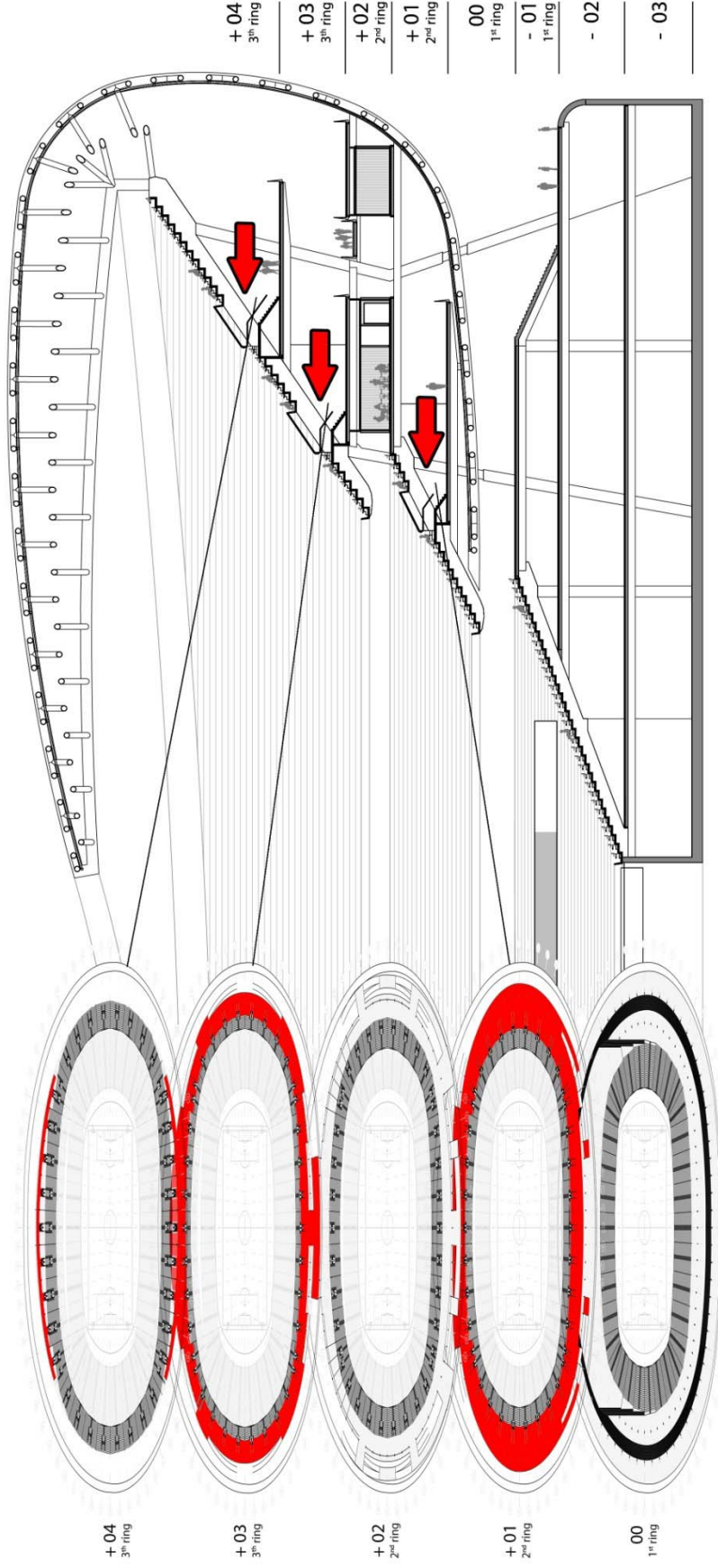
+02
2nd ring

+01
2nd ring

00
1st ring



Routing



Routing

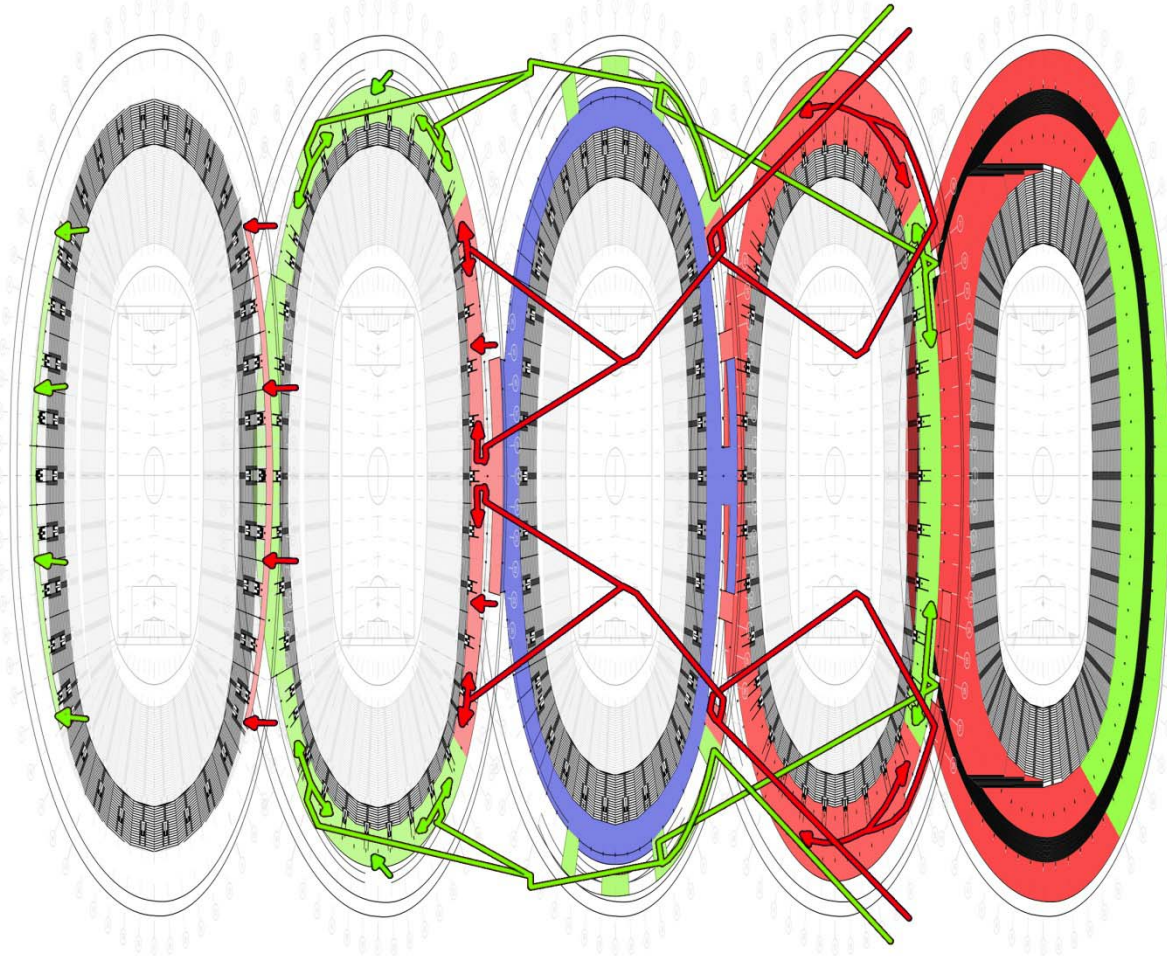
+04
3rd ring

+03
3rd ring

+02
2nd ring

+01
2nd ring

00
1st ring





Routing

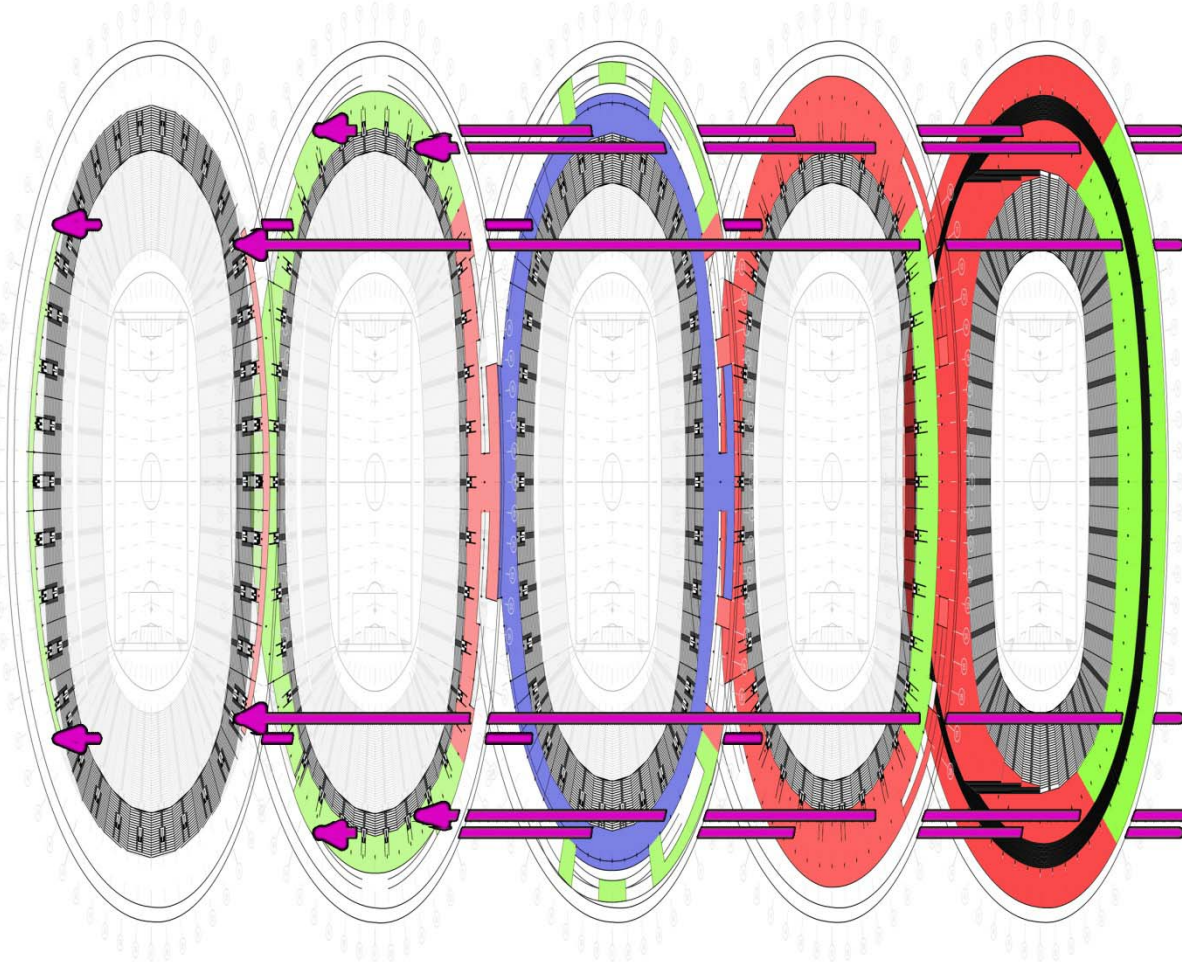
+04
3th ring

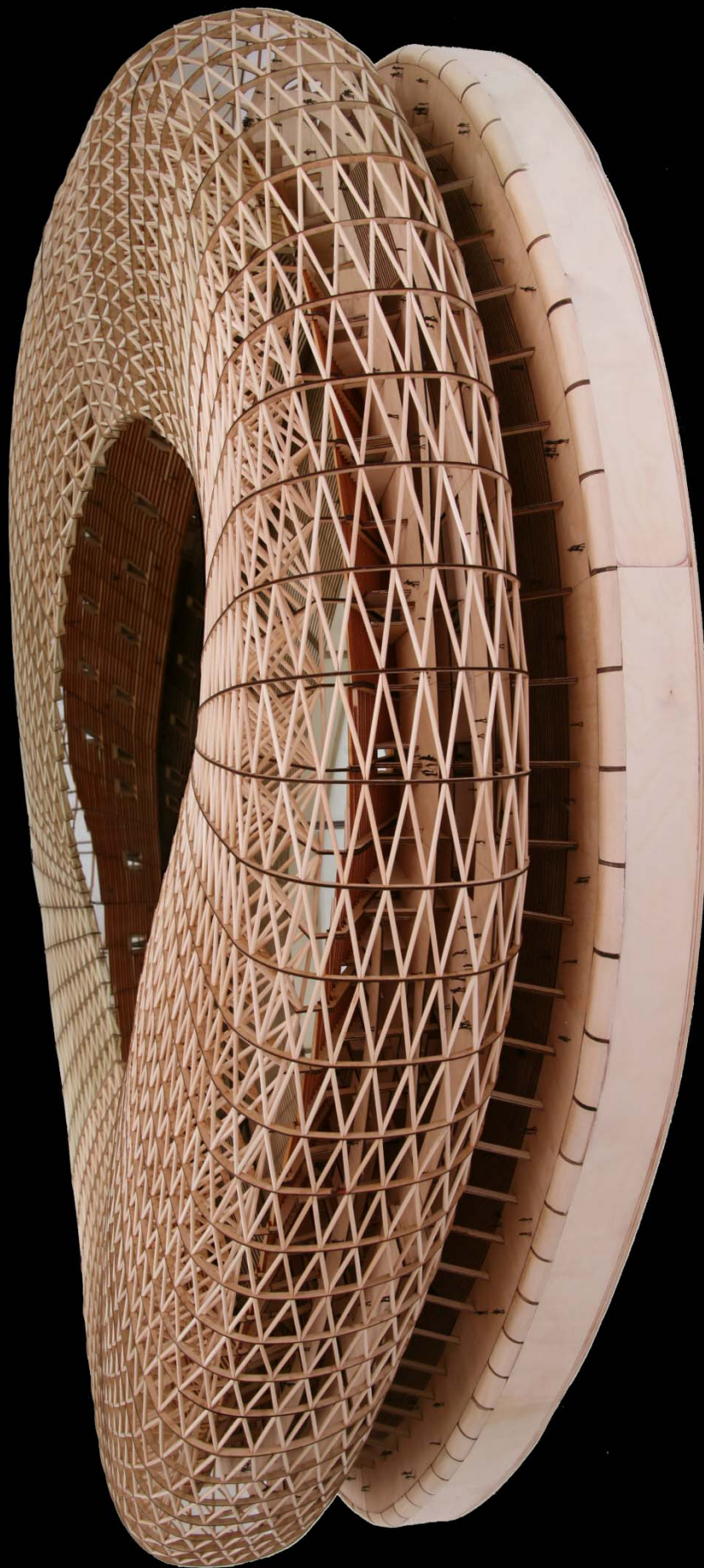
+03
3th ring

+02
2nd ring

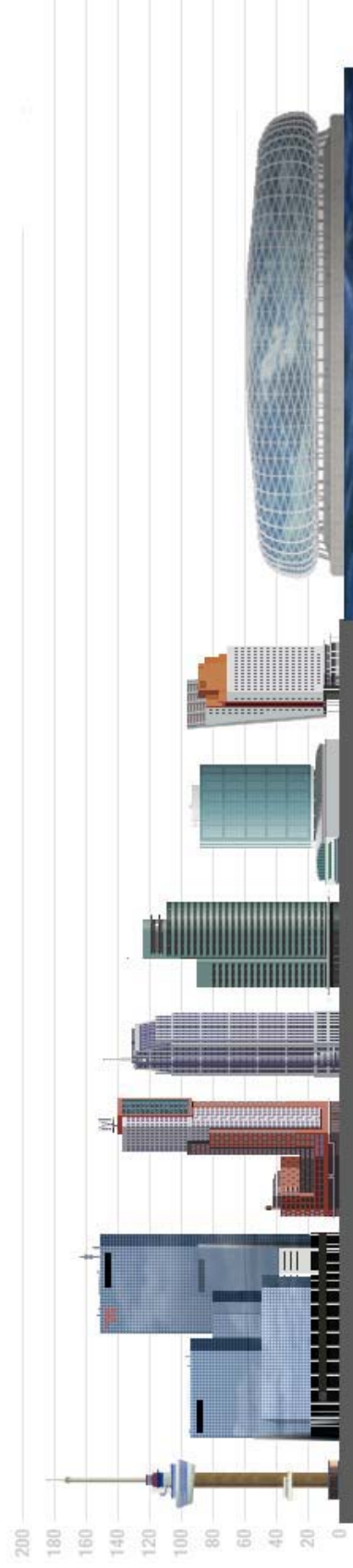
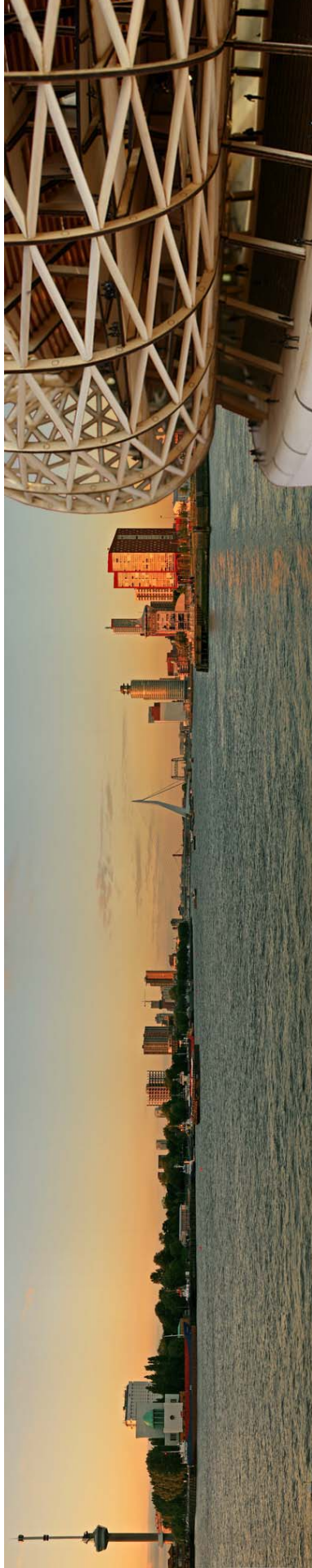
+01
2nd ring

00
1st ring





Location - Rotterdam



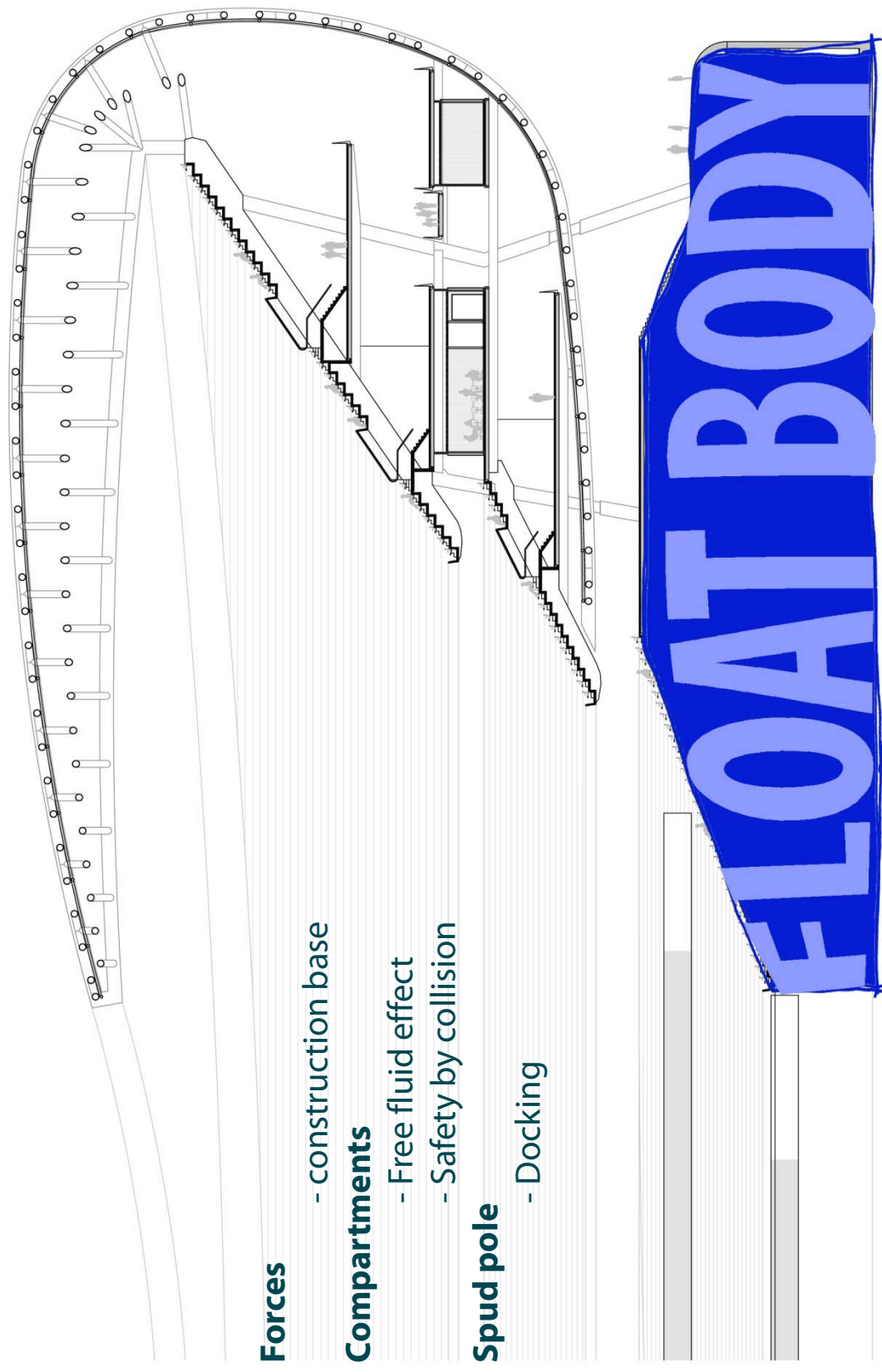
Location - Rotterdam



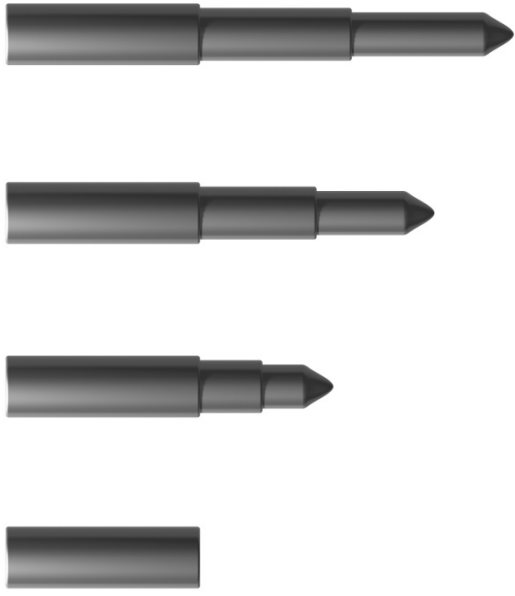
Routing – Entrance stadium



Construction - Float body



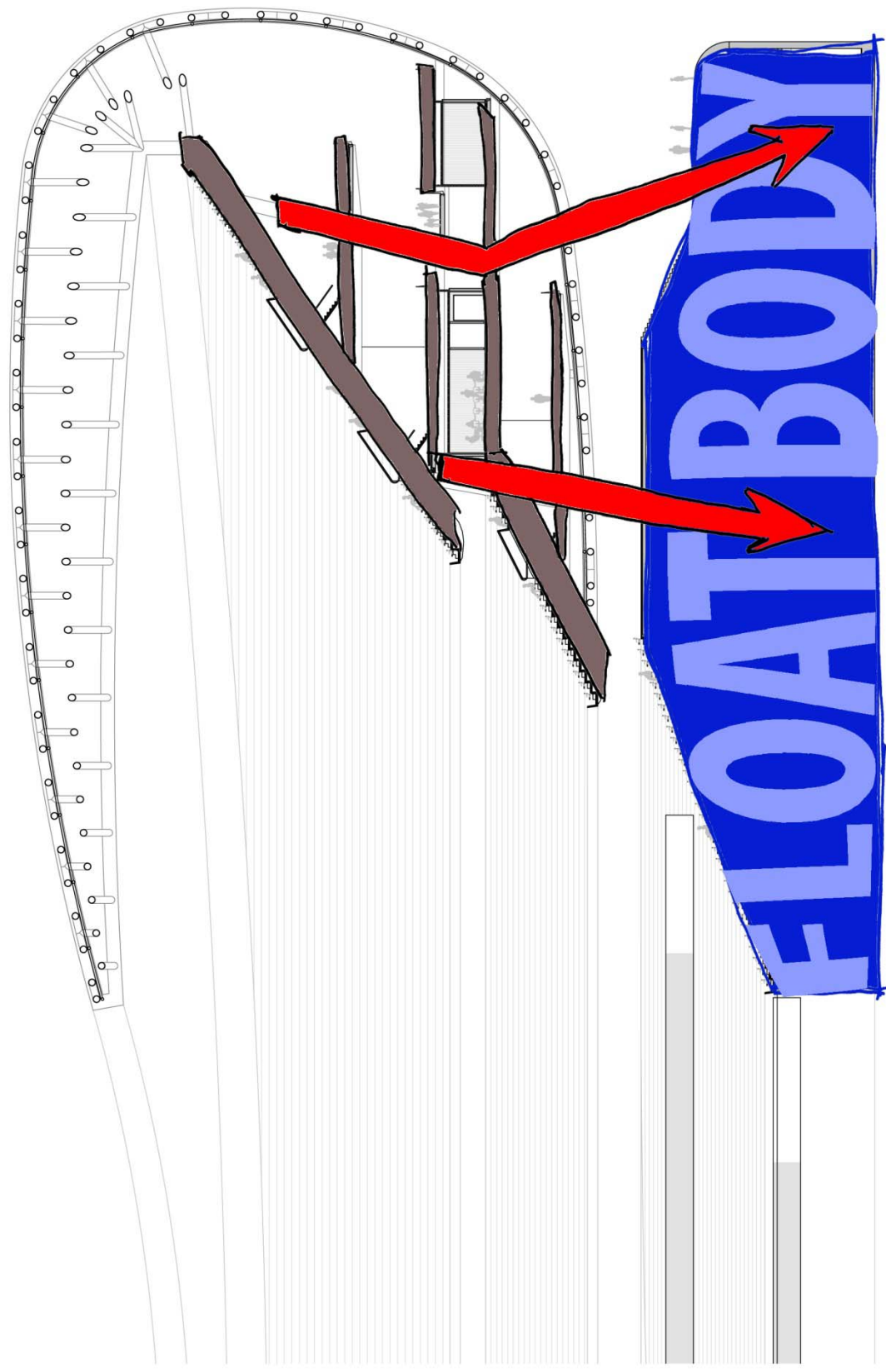
Construction - mooring



Spudpaal

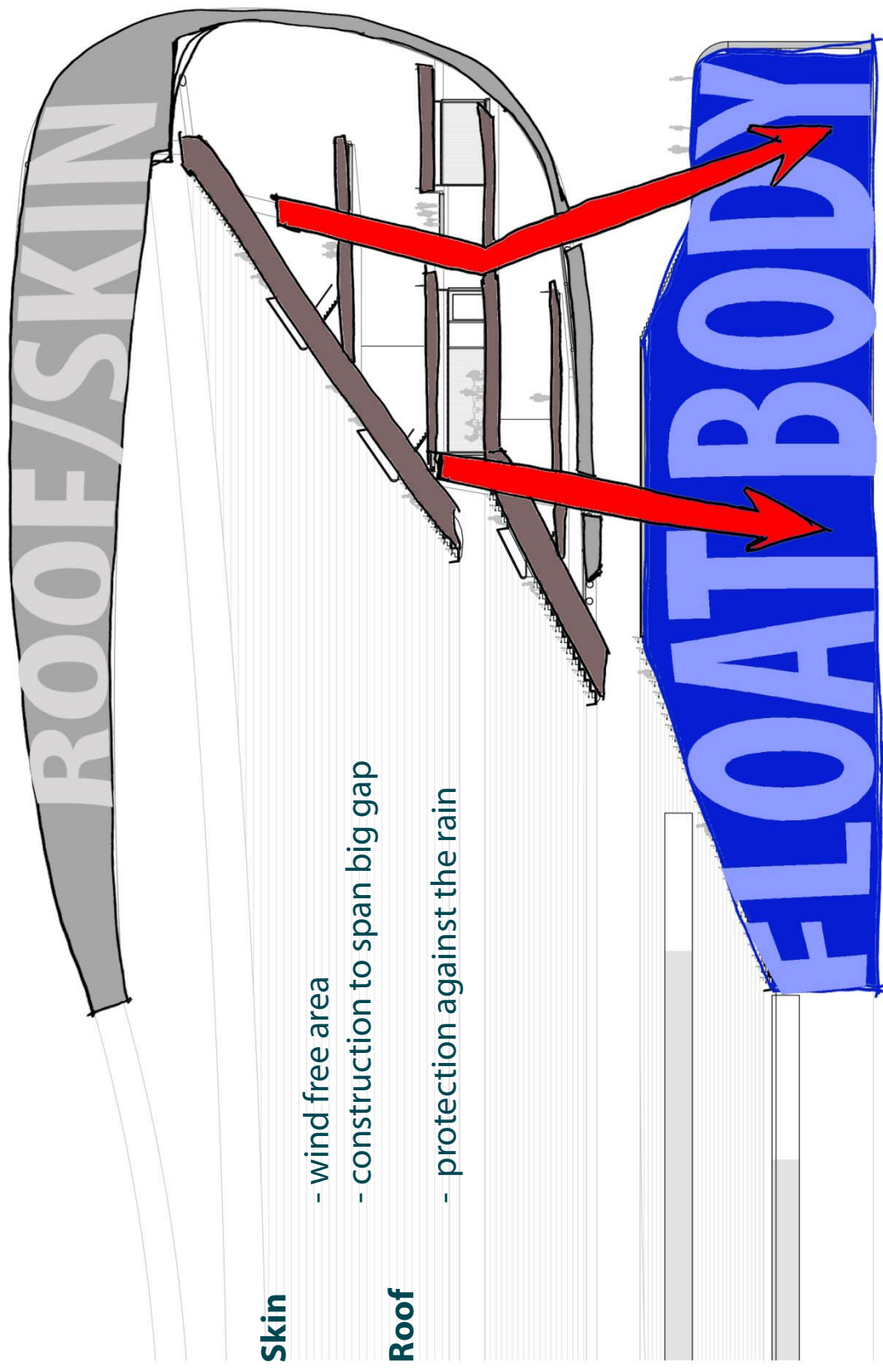
Een spudpaal is een paal of dikwandige buis die bij werkschepen gebruikt wordt om op de werkplek stevig verankerd stil te kunnen liggen. De palen, meestal één op het voorschip en één op het achterschip steken als masten boven het dek uit en kunnen op de werkplek door het dek (soms in vrije val) naar beneden gelaten worden, zodat het schip stevig vast komt te liggen. De spudpalen zijn ontworpen in samenwerking met TNO en kunnen ook op bestaande schepen vanaf 10 meter worden ingebouwd. Bovendien zijn ze onzichtbaar en benedendeks worden ze netjes weggewerkt in een kast of ombouw.

Construction - Tribune





Construction - Roof / skin



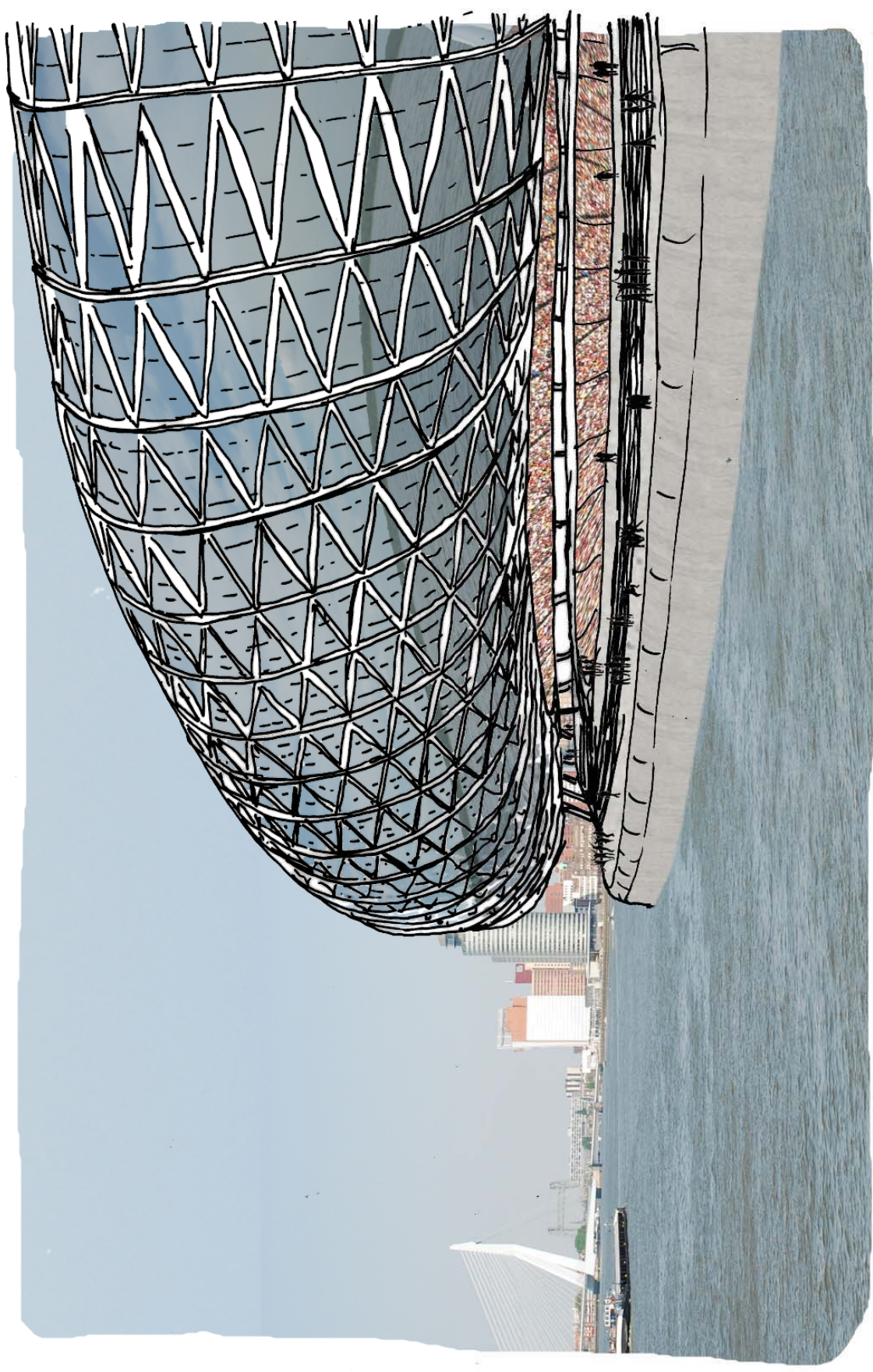
Skin

- wind free area
- construction to span big gap

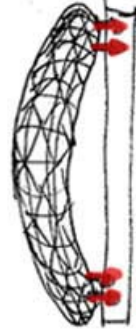
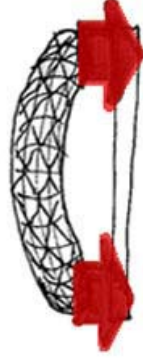
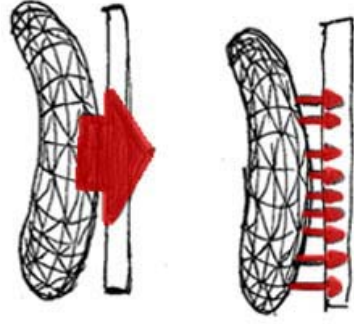
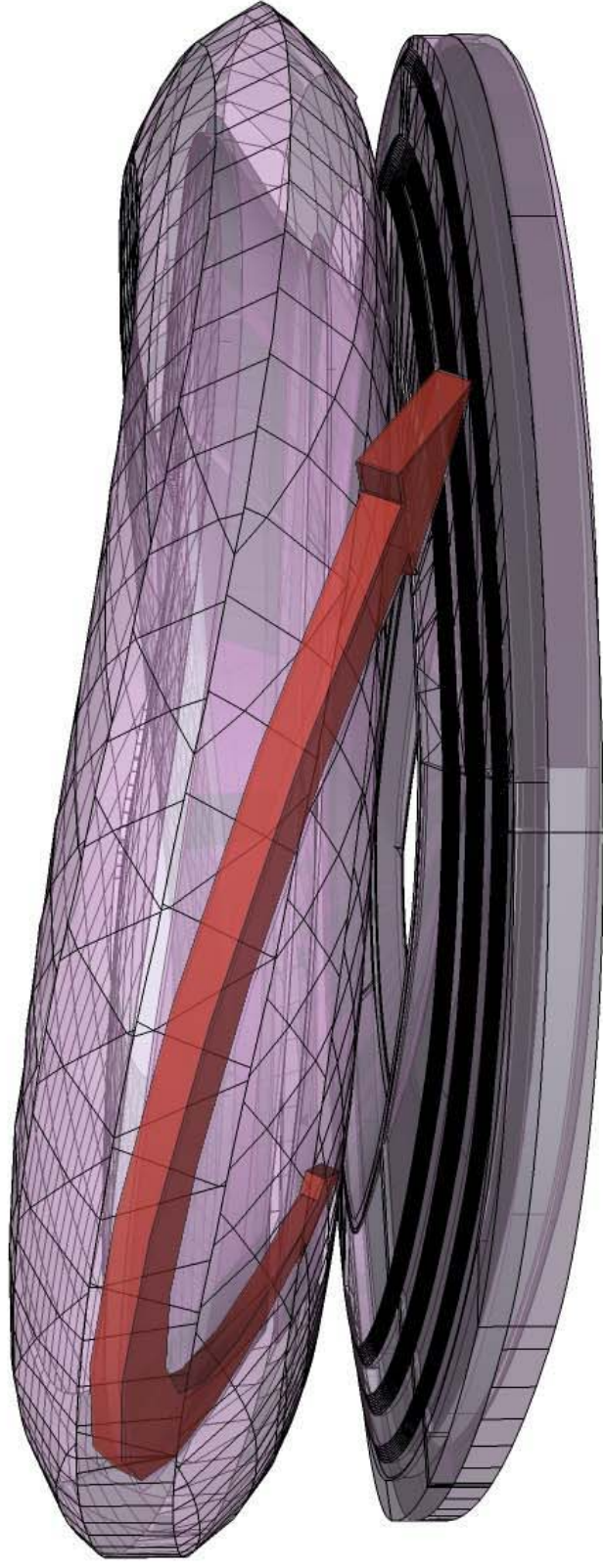
Roof

- protection against the rain

Construction - big span



Construction – big span

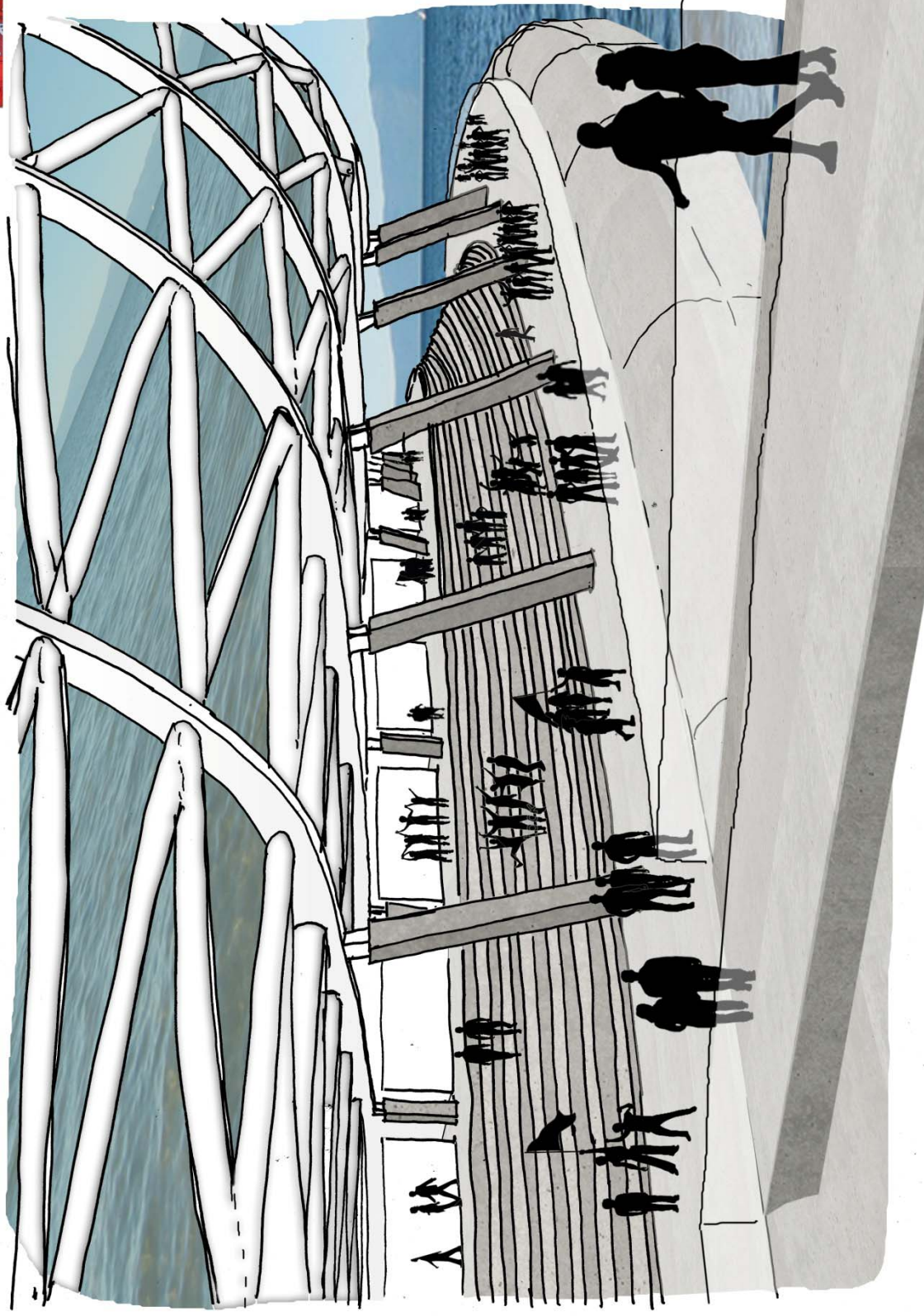






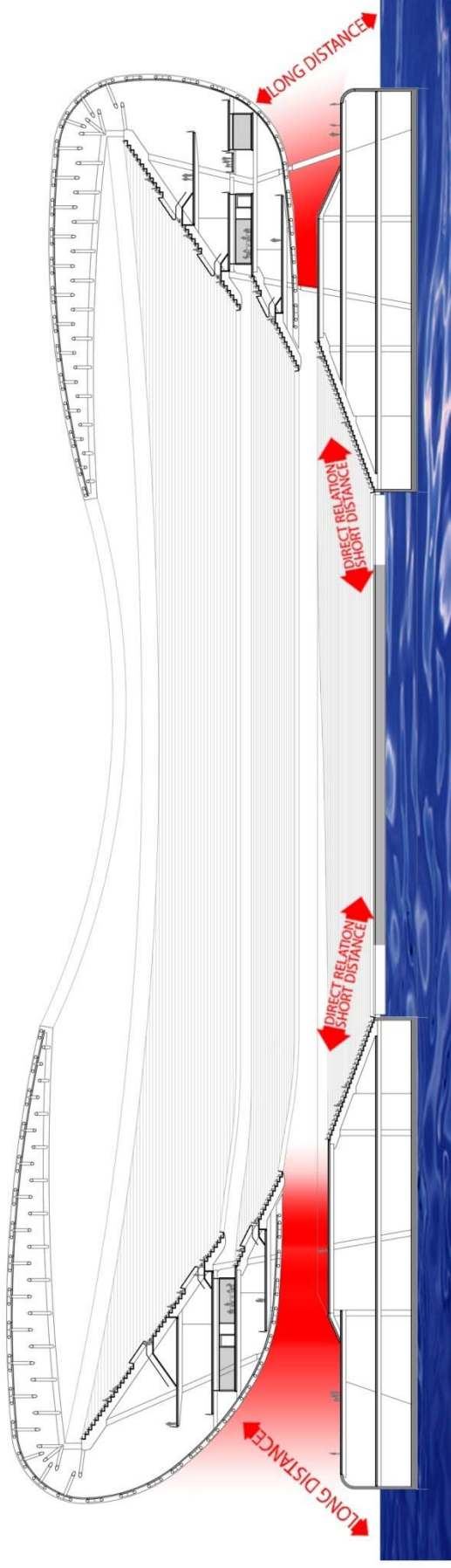
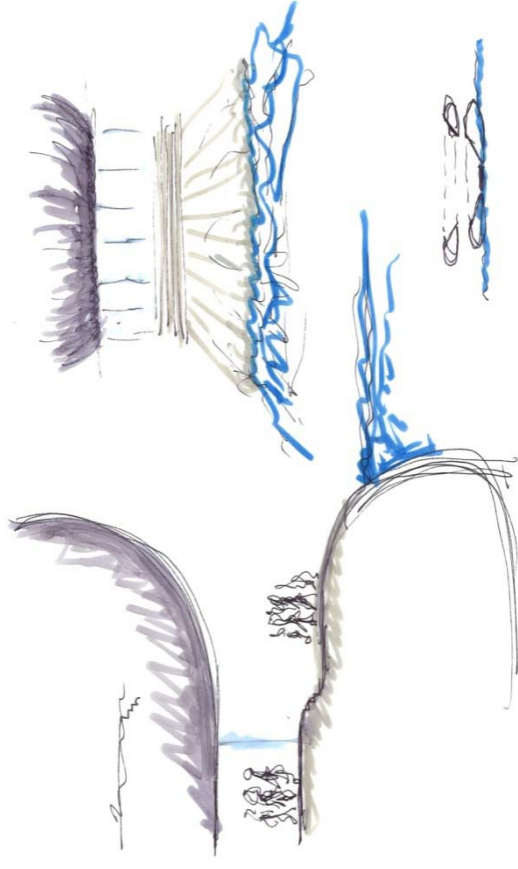


Routing – entrance stadium

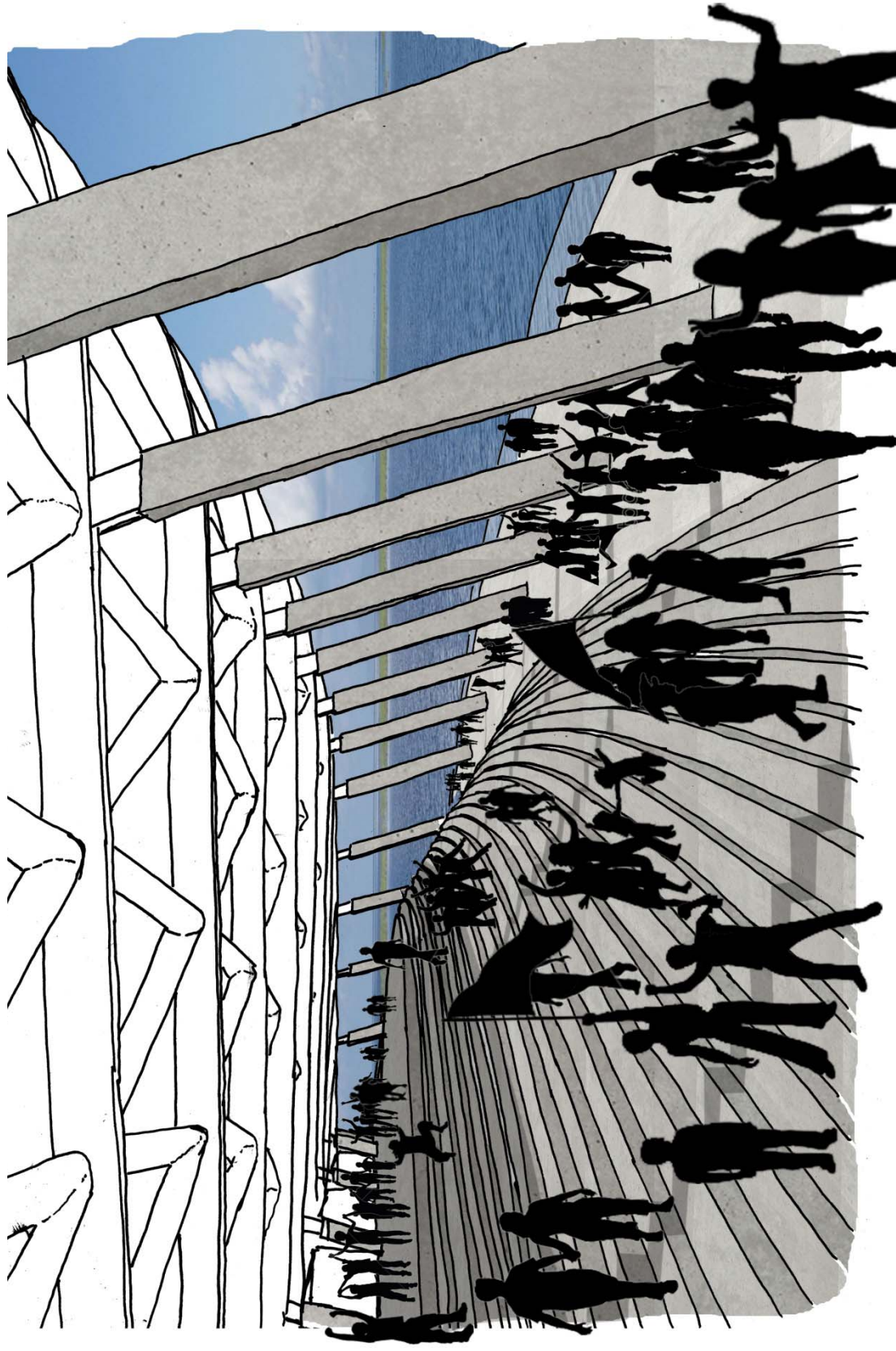




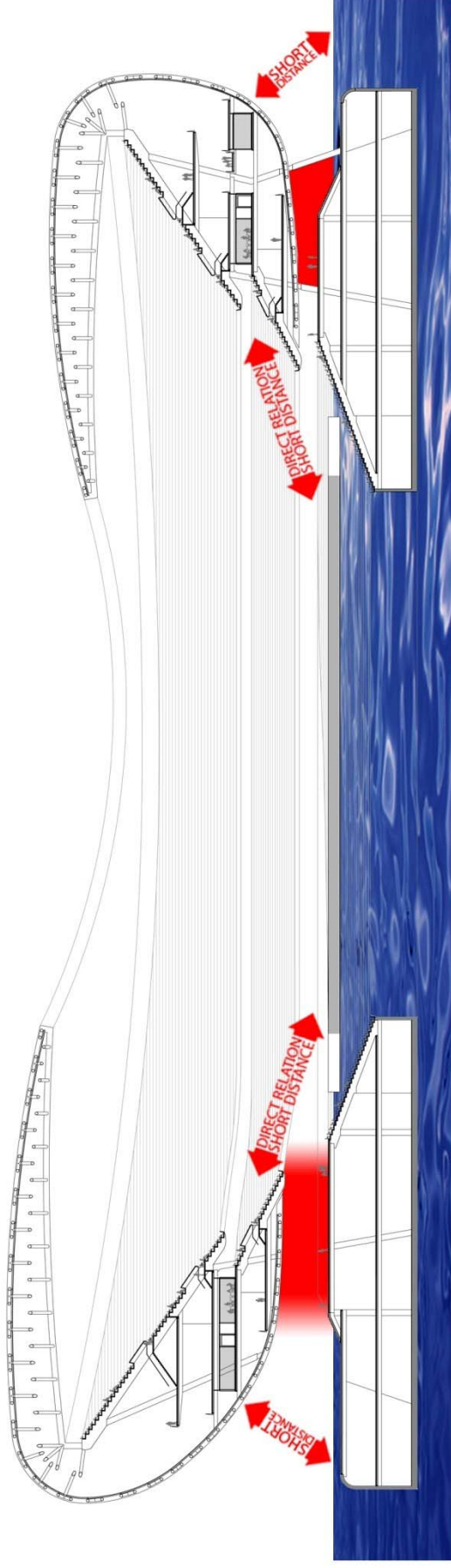
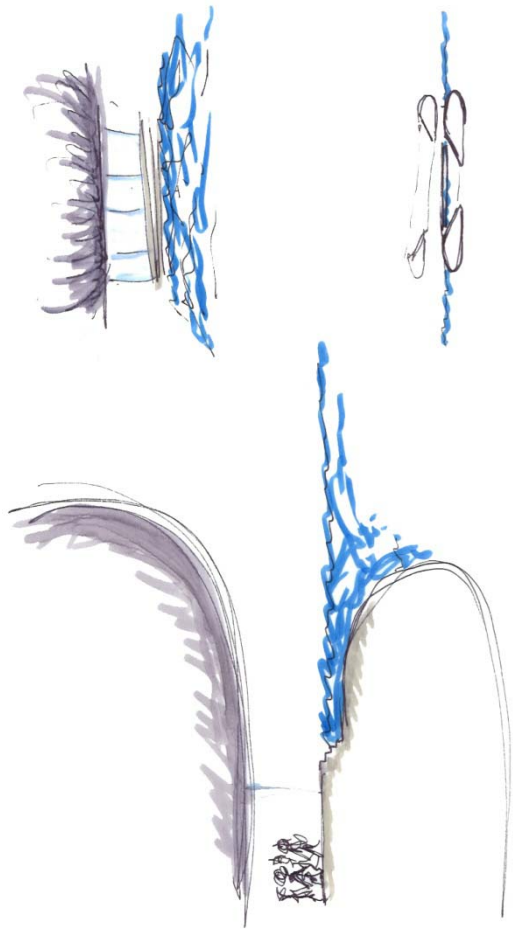
Relation with water



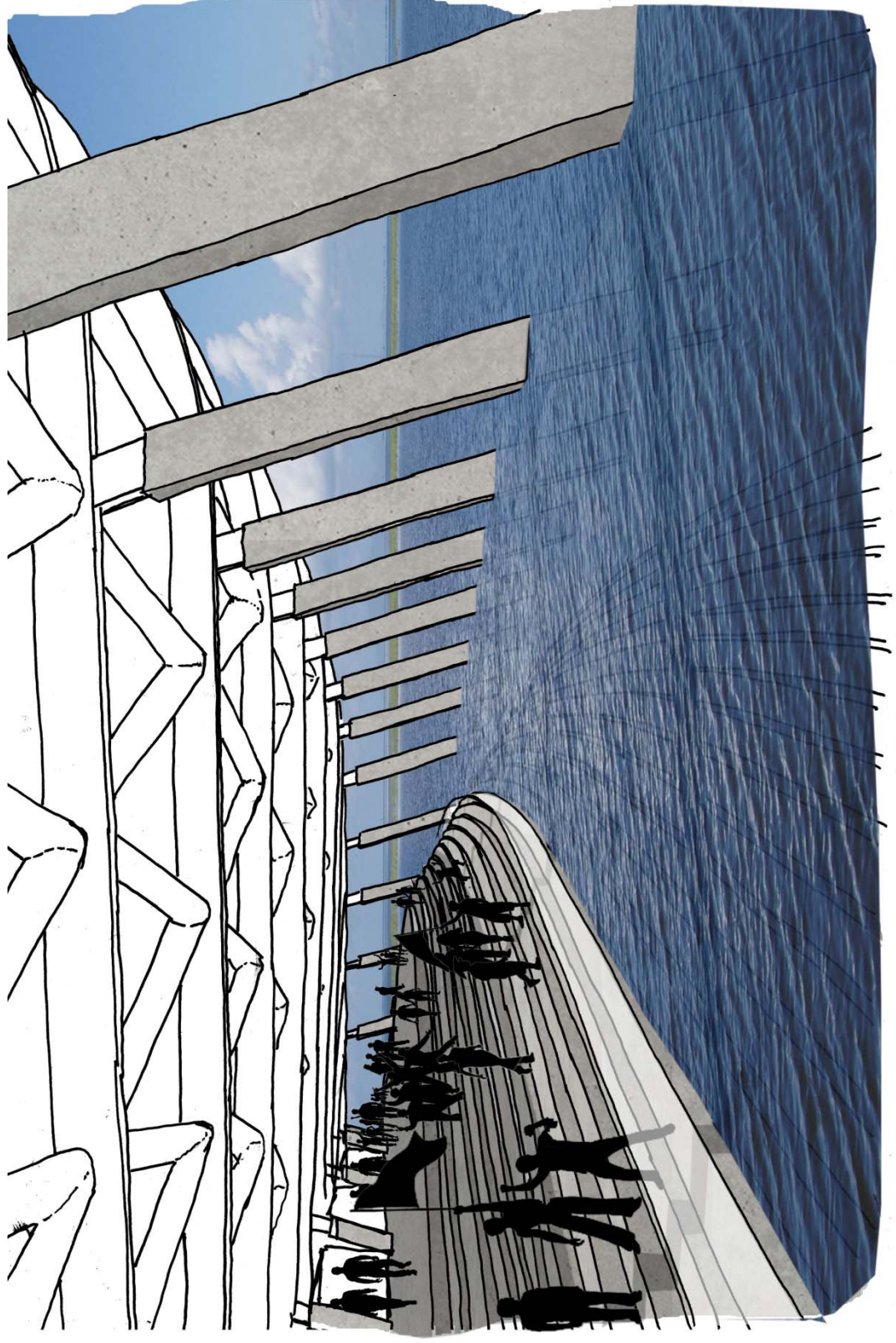
Relation with water



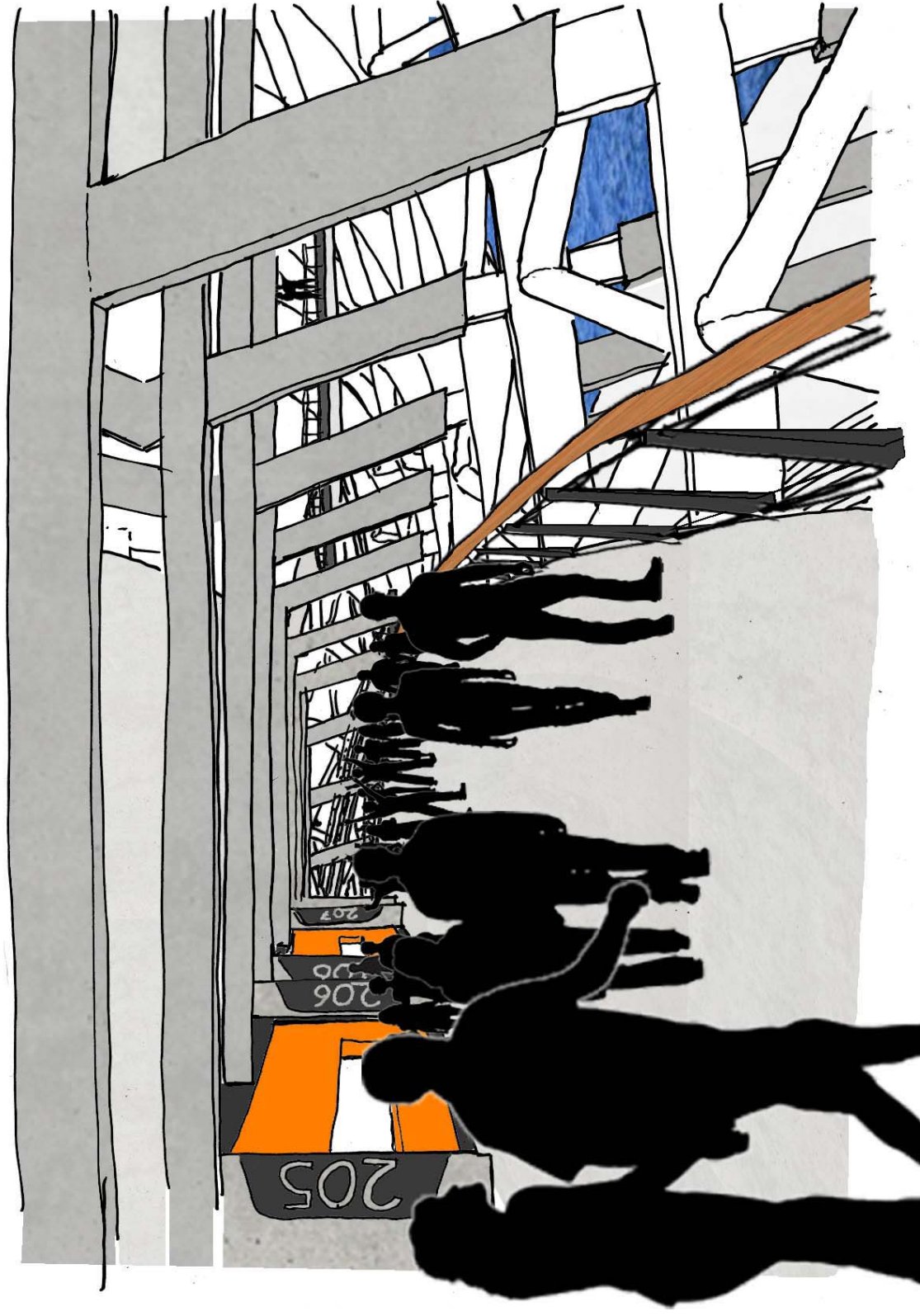
Relation with water



Relation with water



Routing – Inside stadium

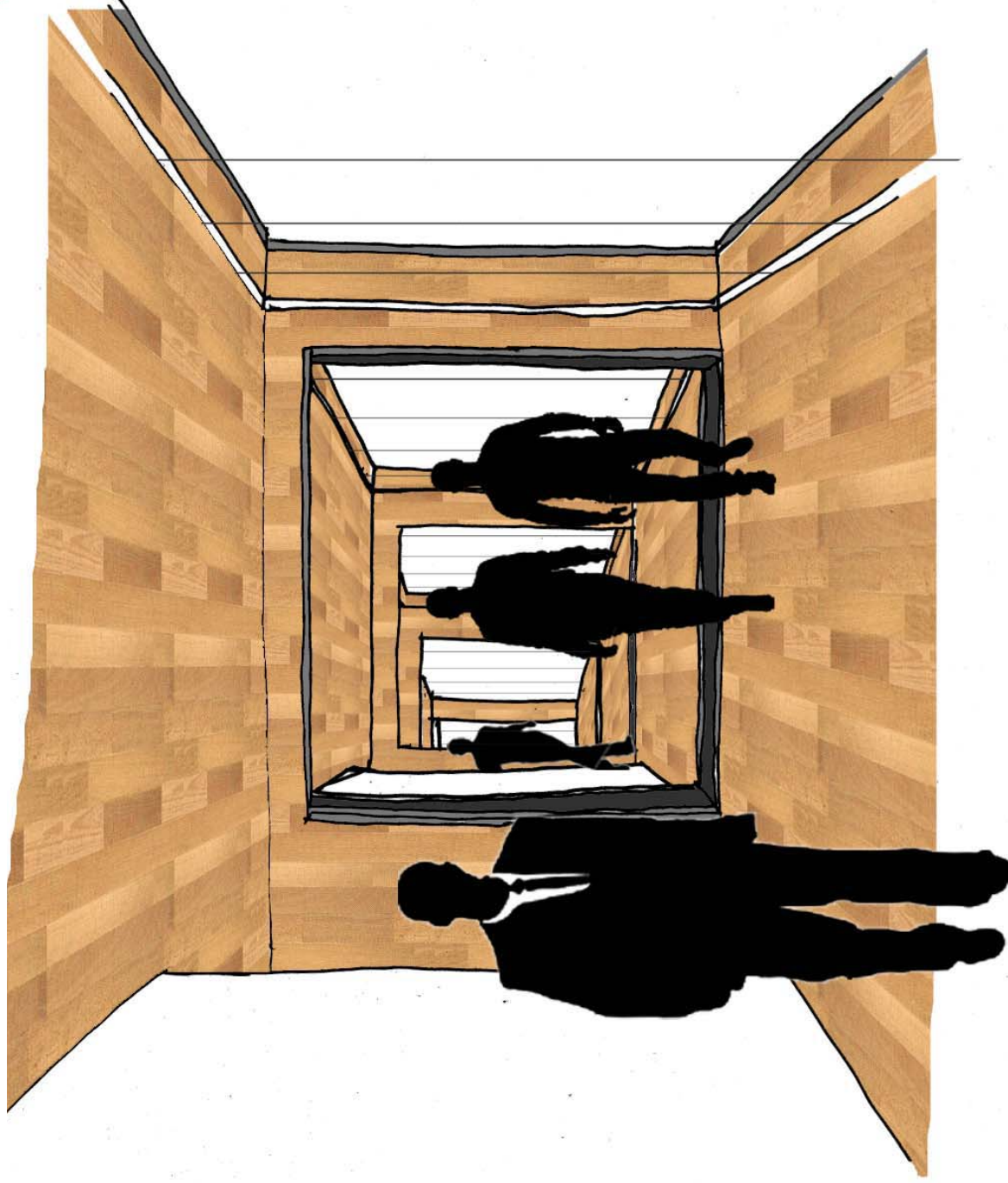




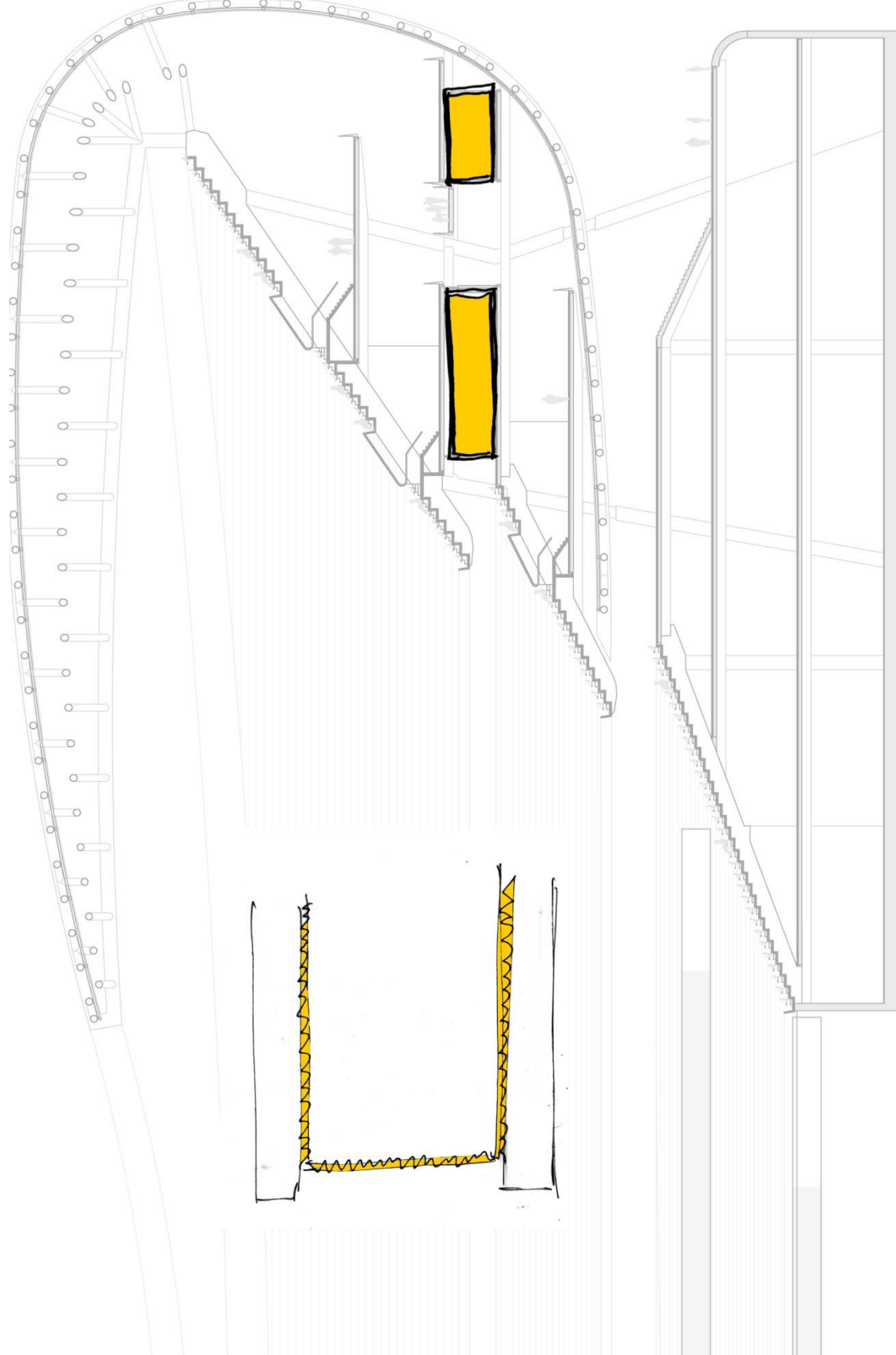
Routing – Inside stadium



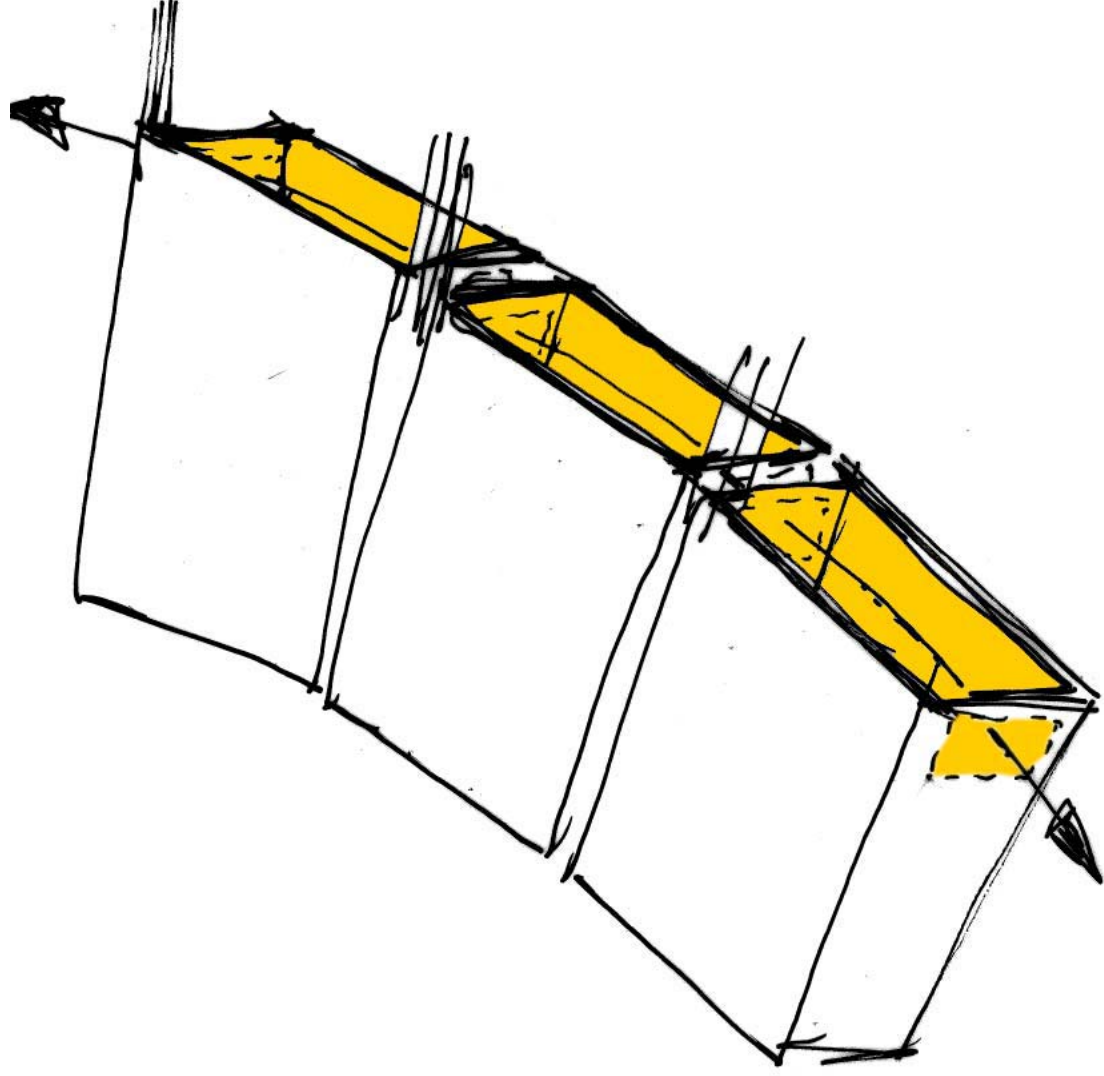
Routing – to V.I.P. box



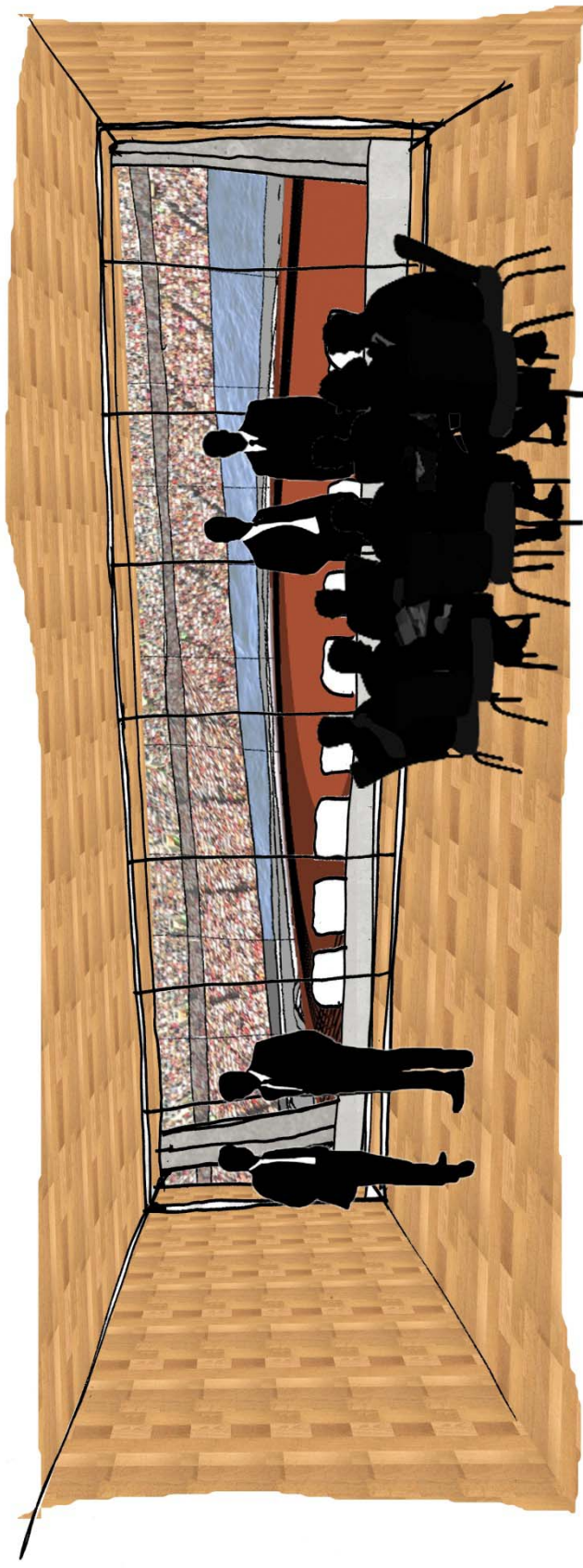
Concept – V.I.P. box



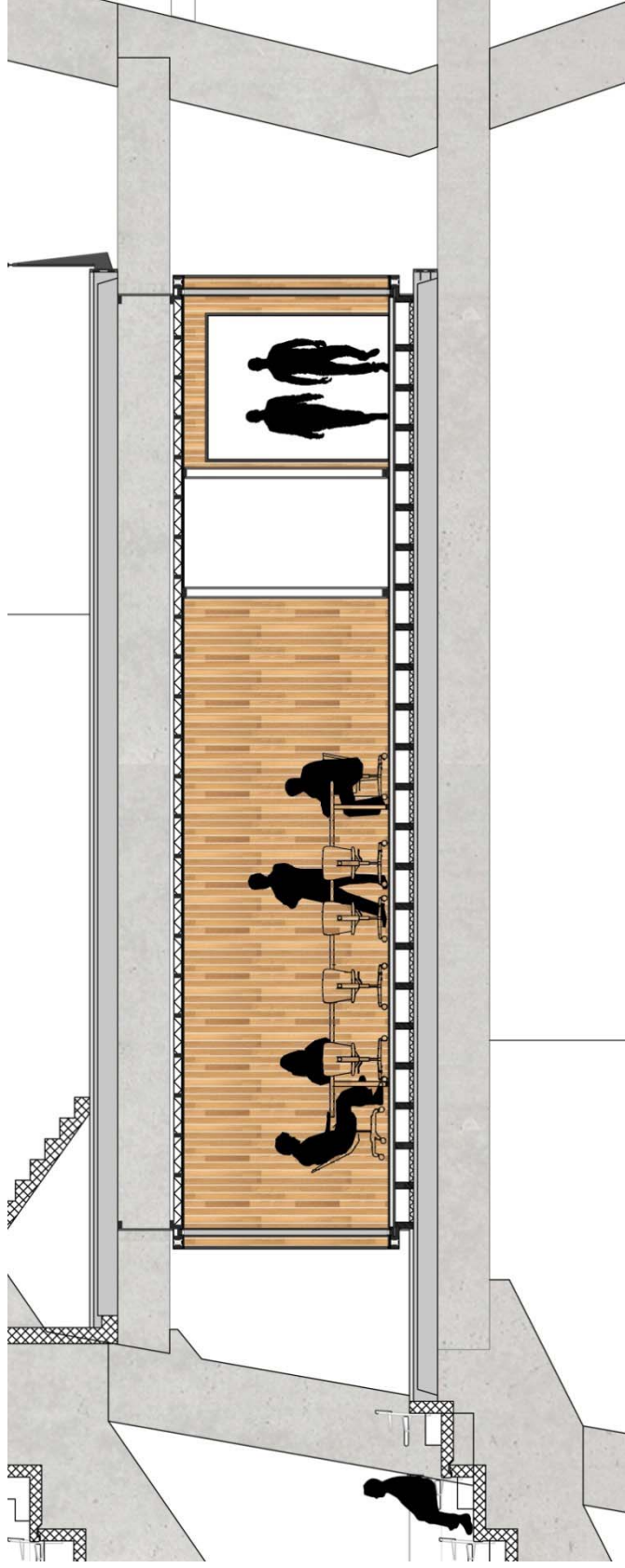
Concept – V.I.P. box



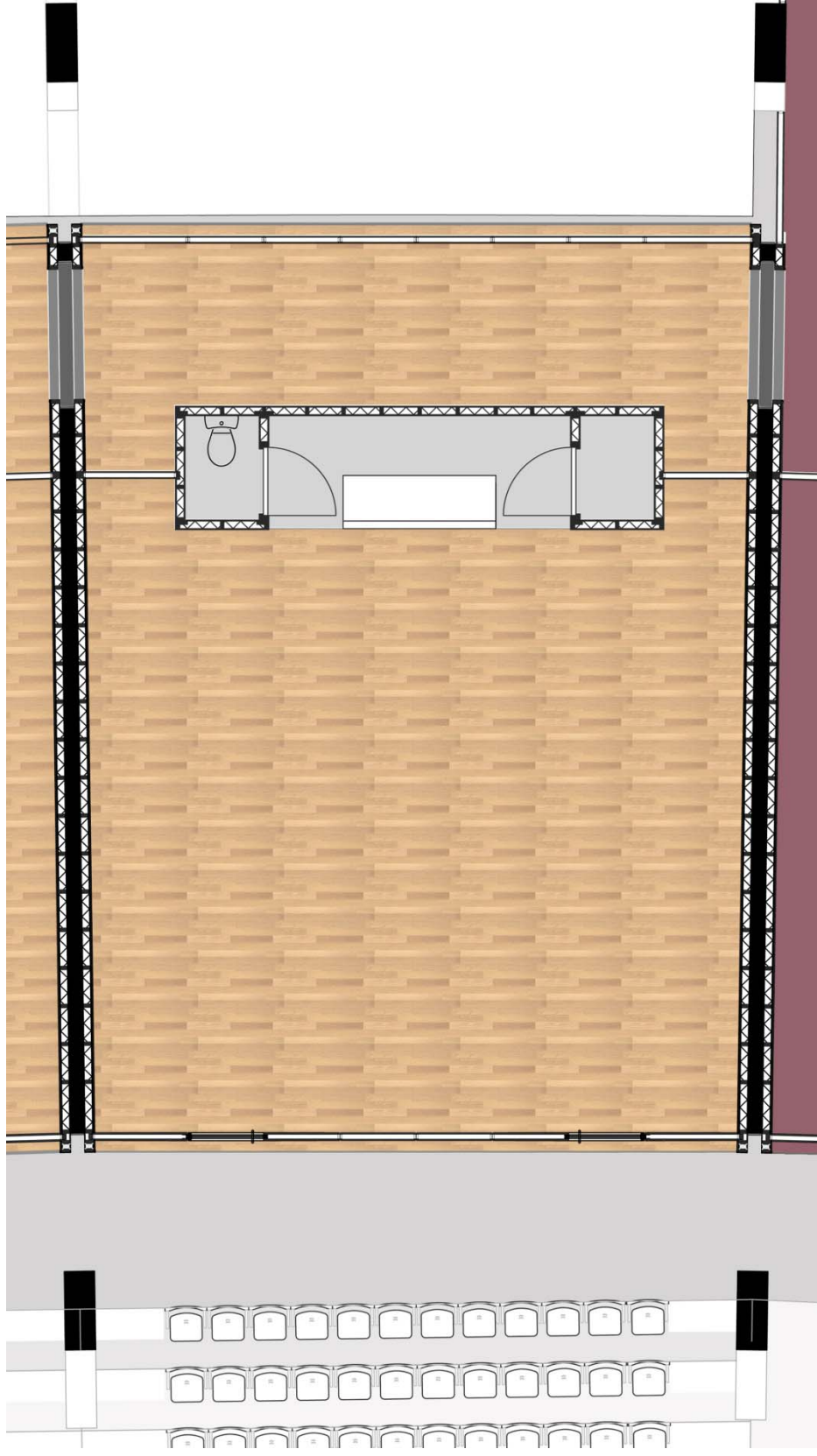
Routing – view from V.I.P. box



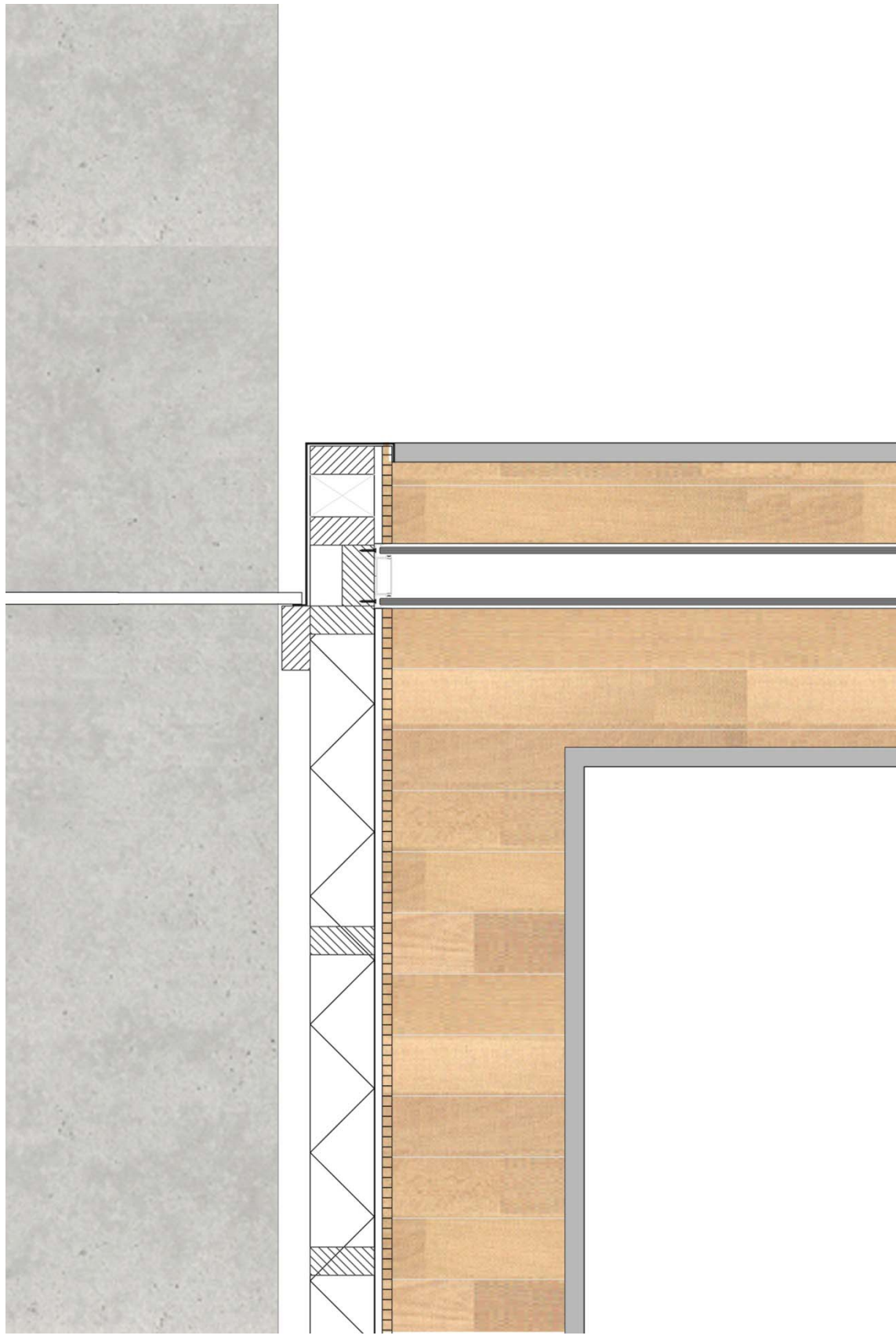
Section – V.I.P. box



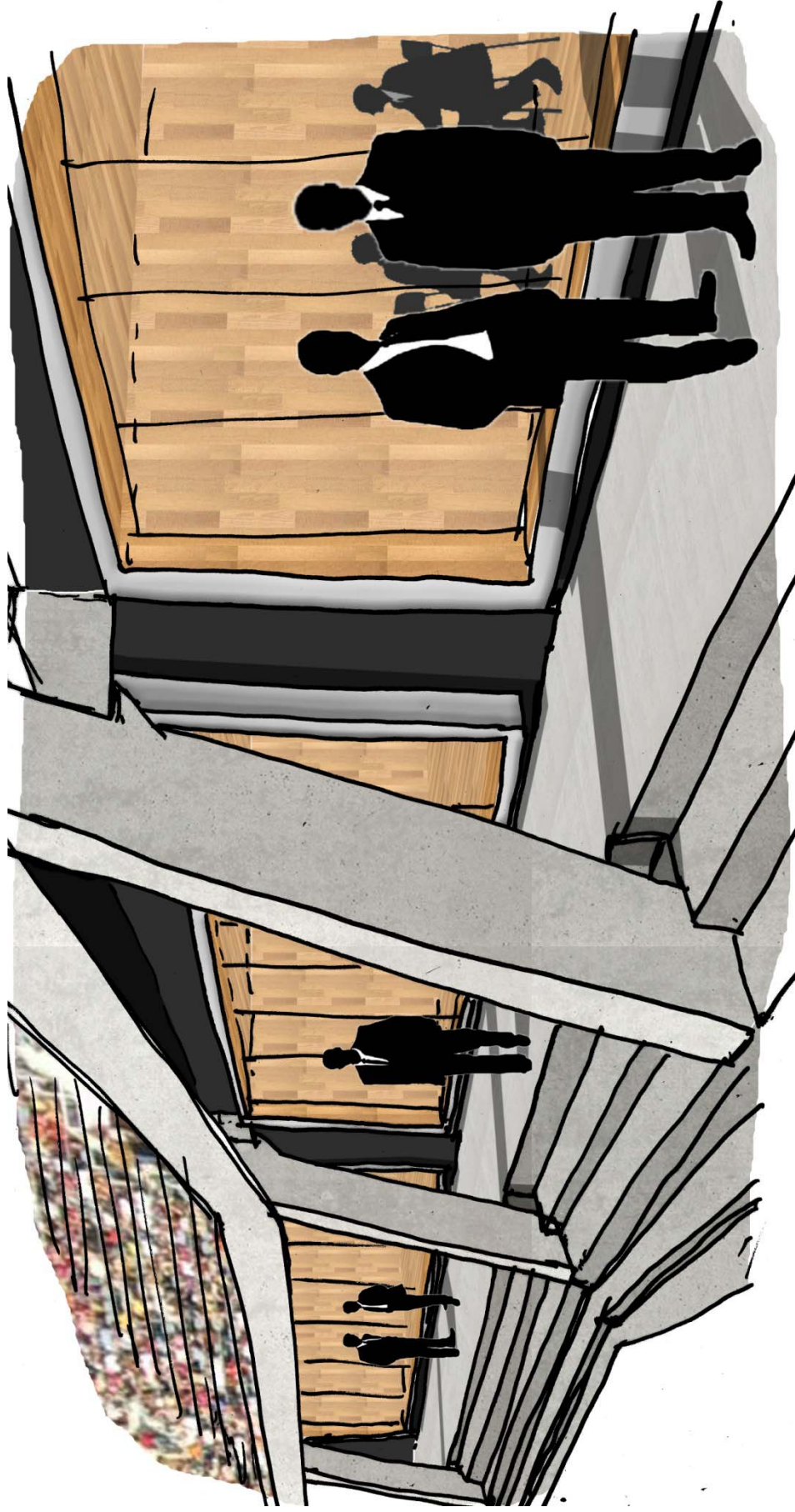
Floorplan – V.I.P. box



Detail – V.I.P. box

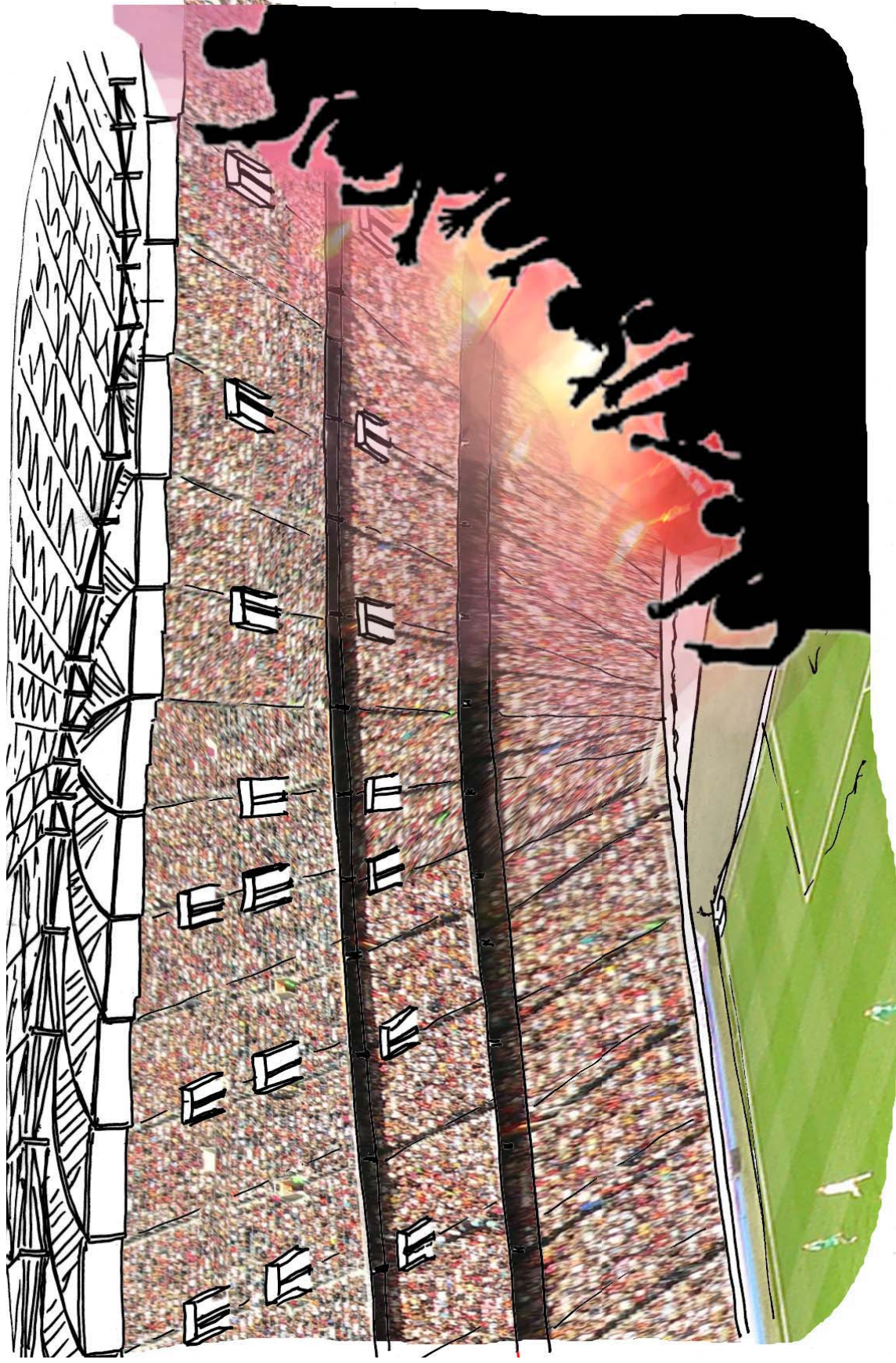


Routing – V.I.P. box

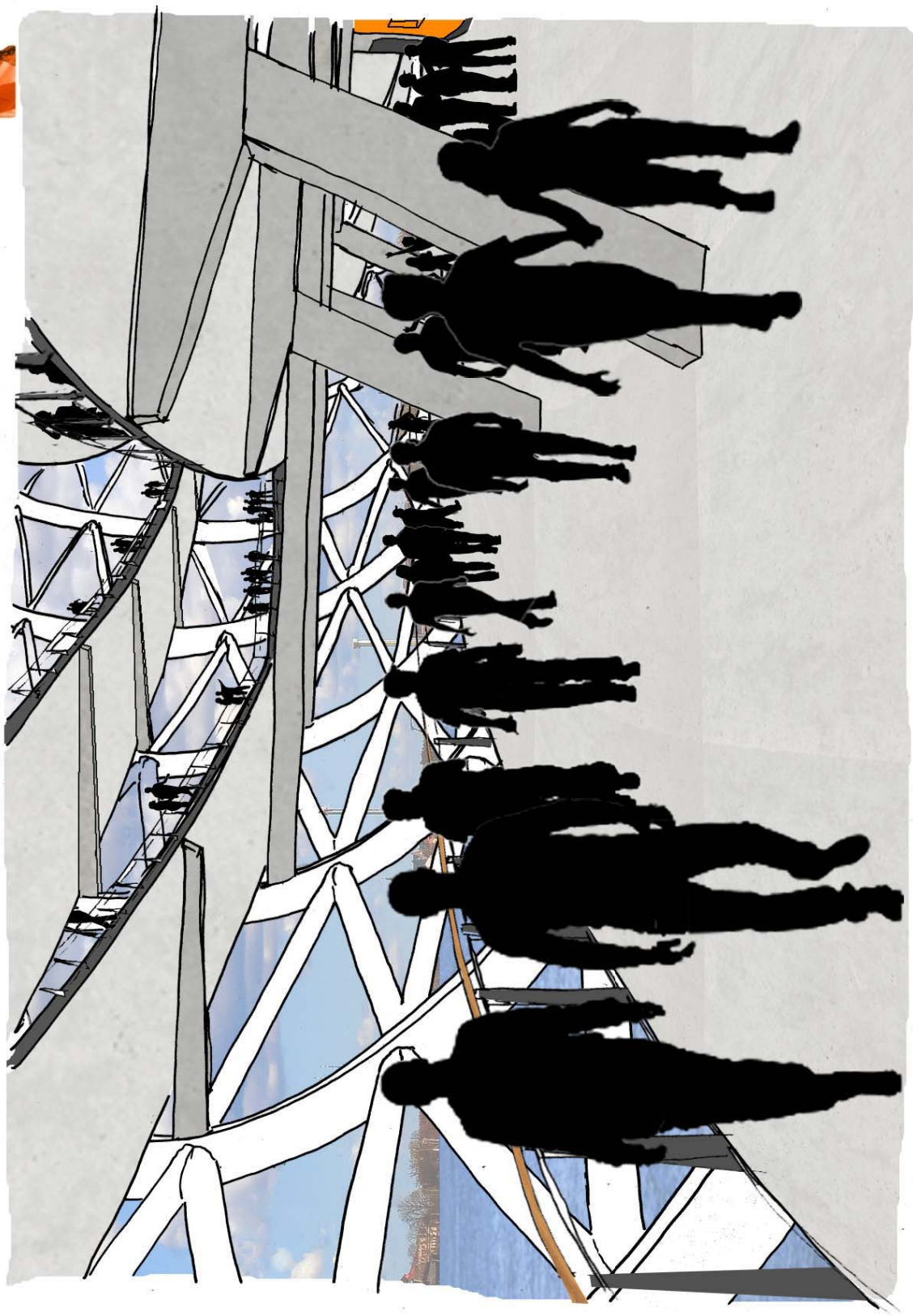




Experience – inside

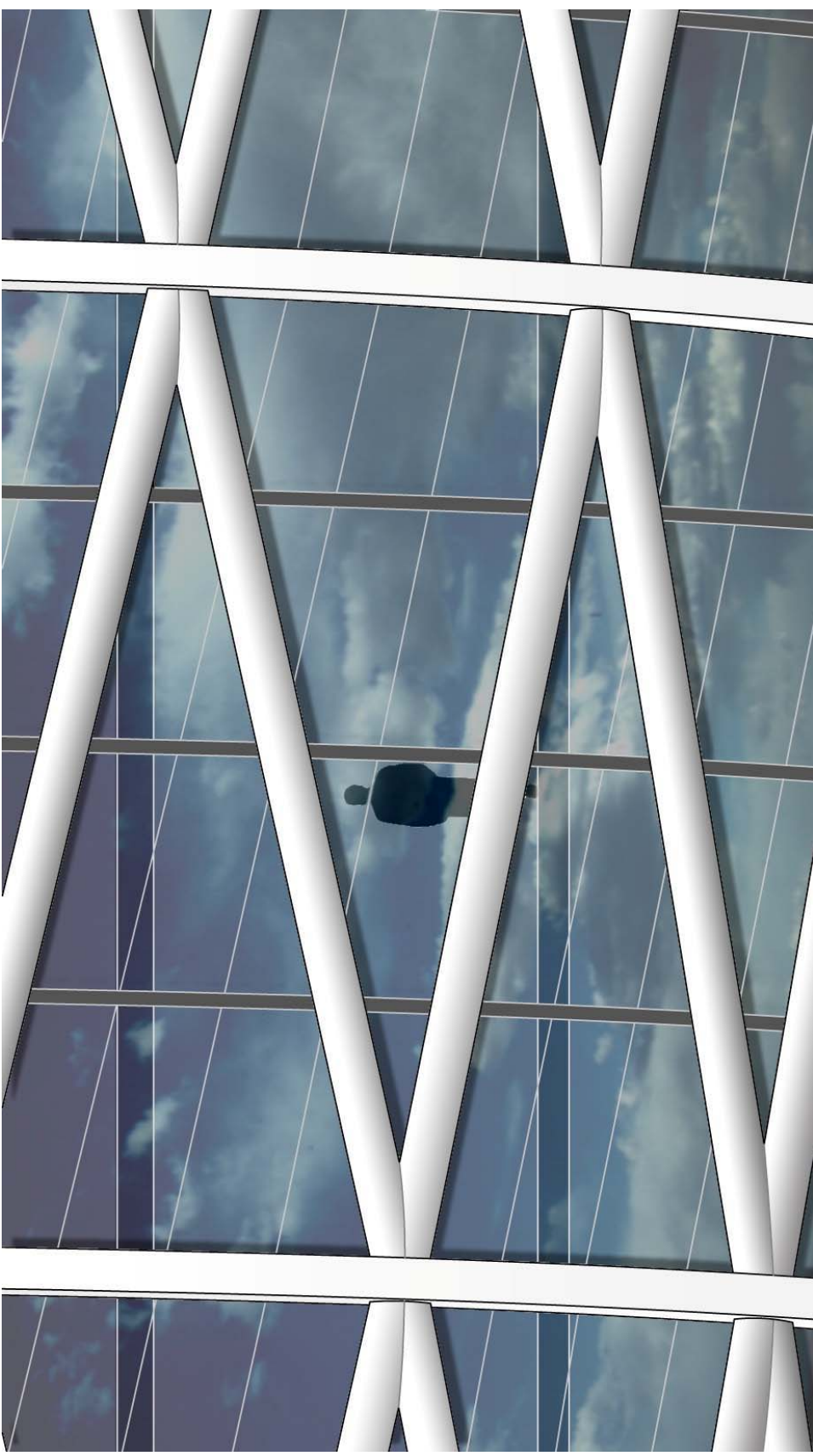


Routing – Inside stadium

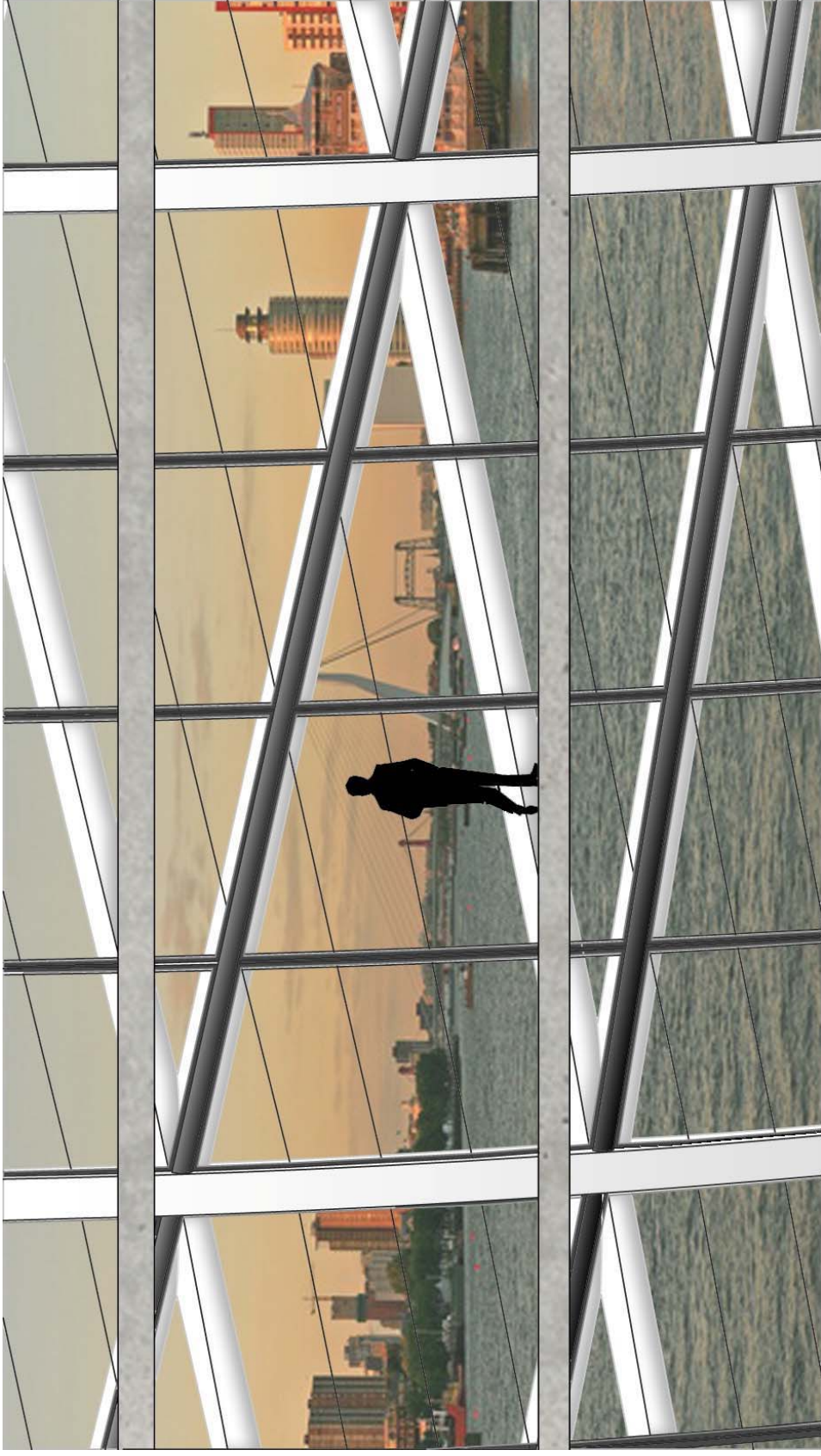




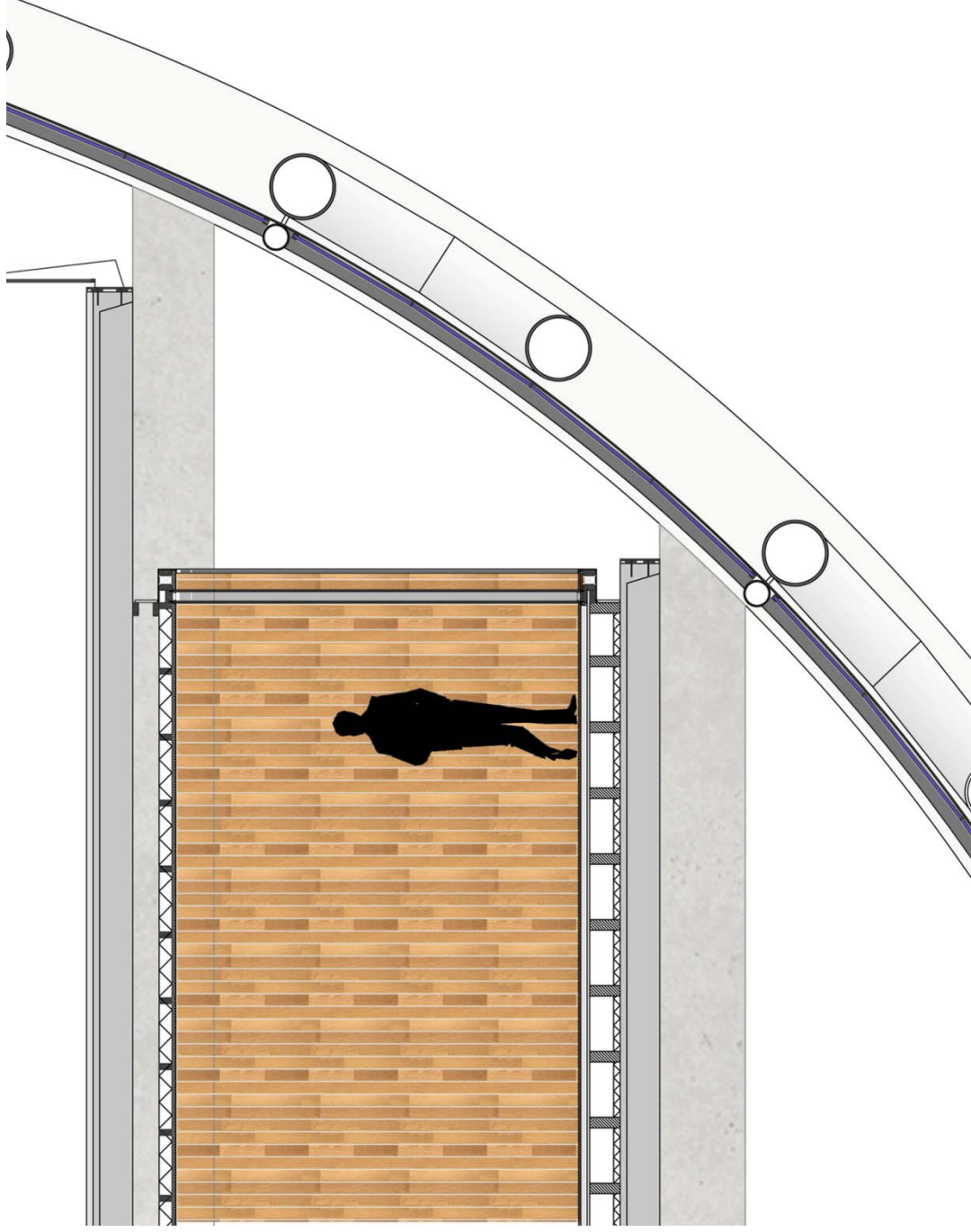
View – Outside facade



View – Inside facade



Detail – Facade



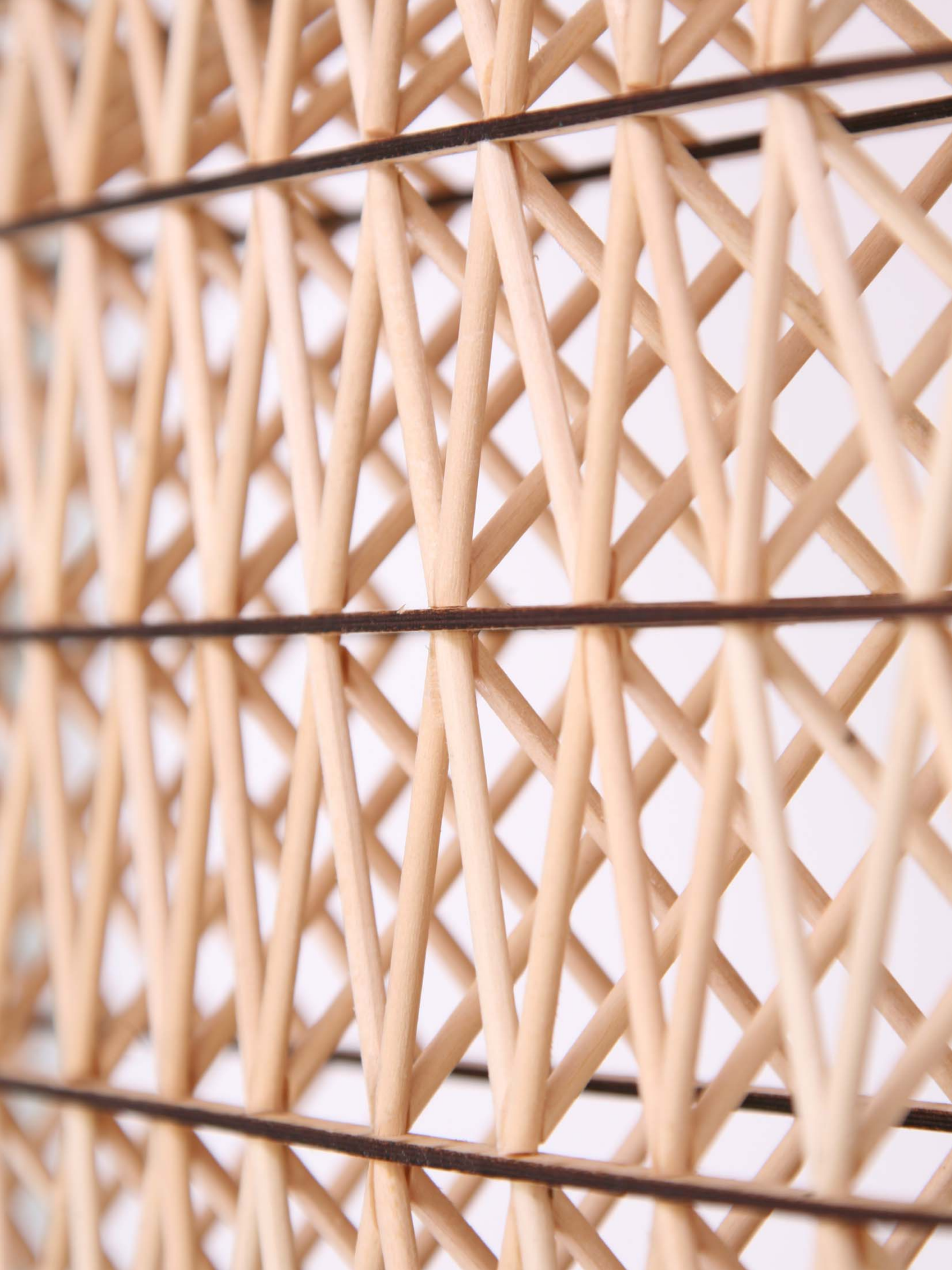


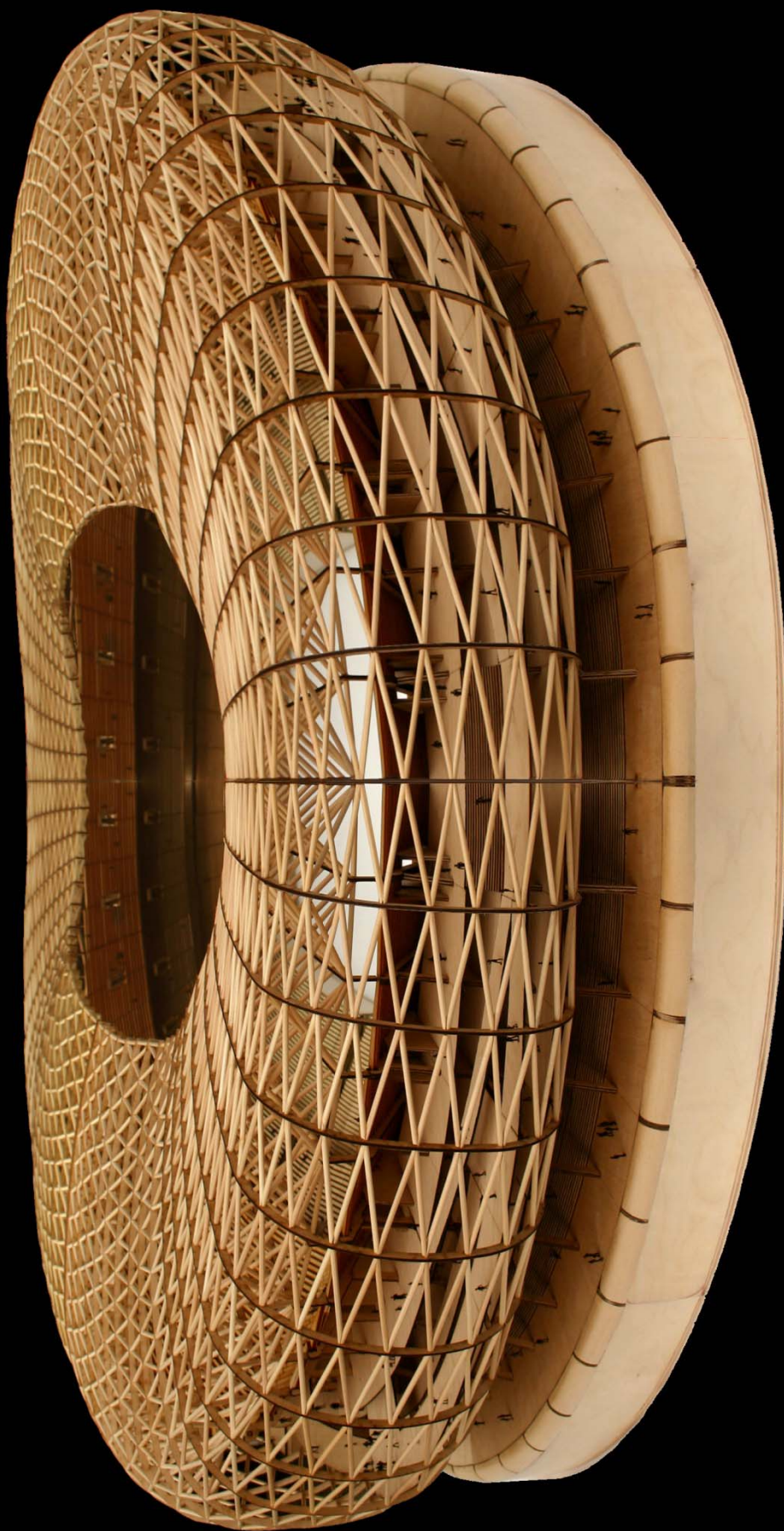




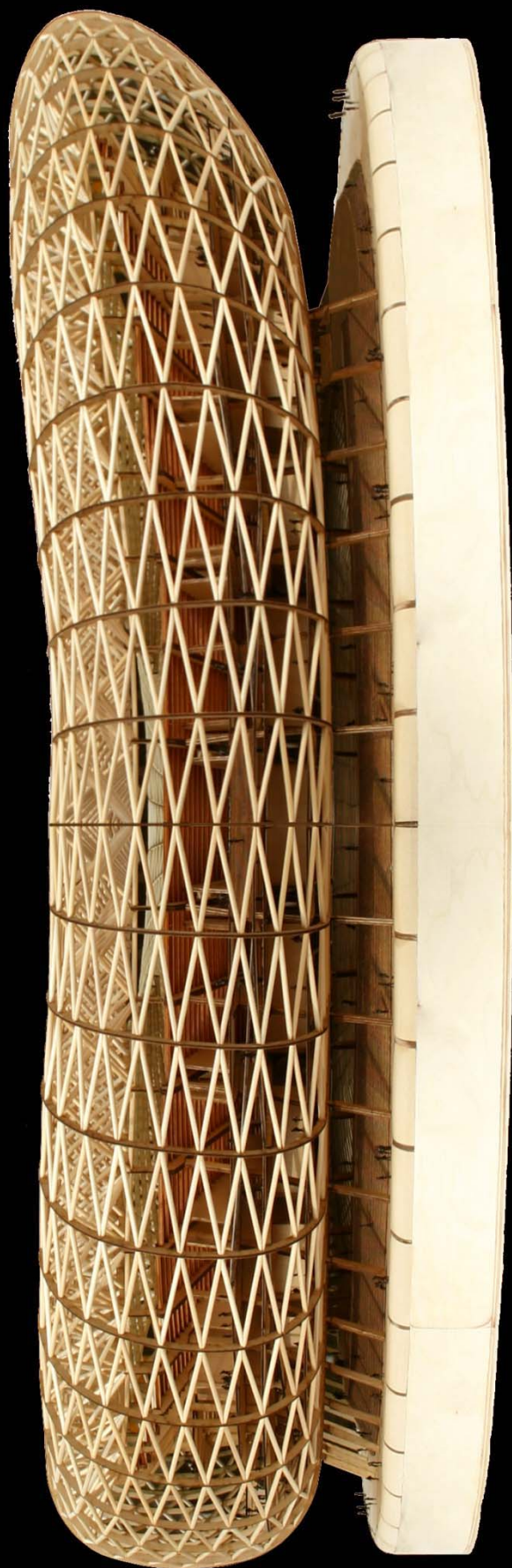




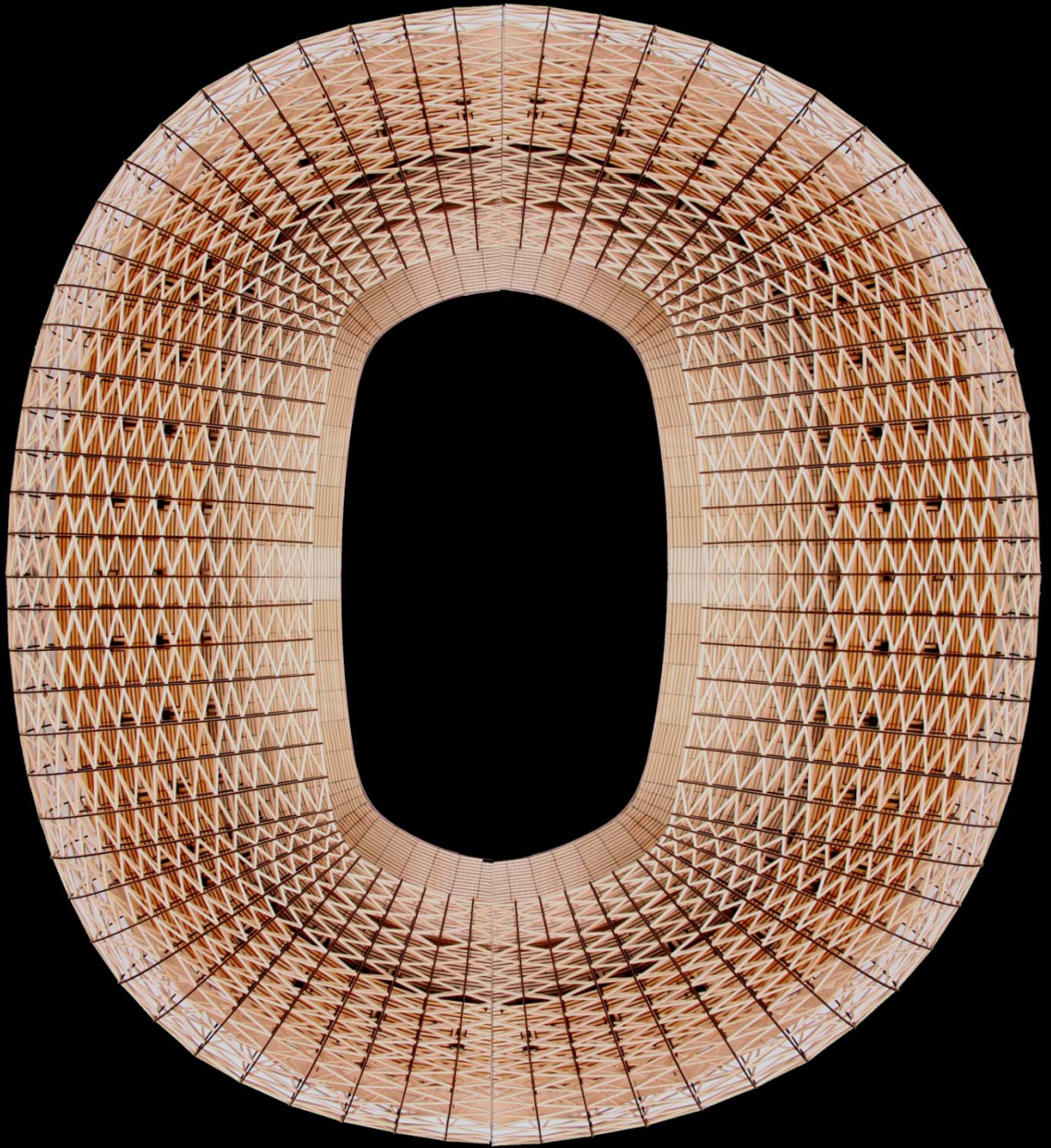




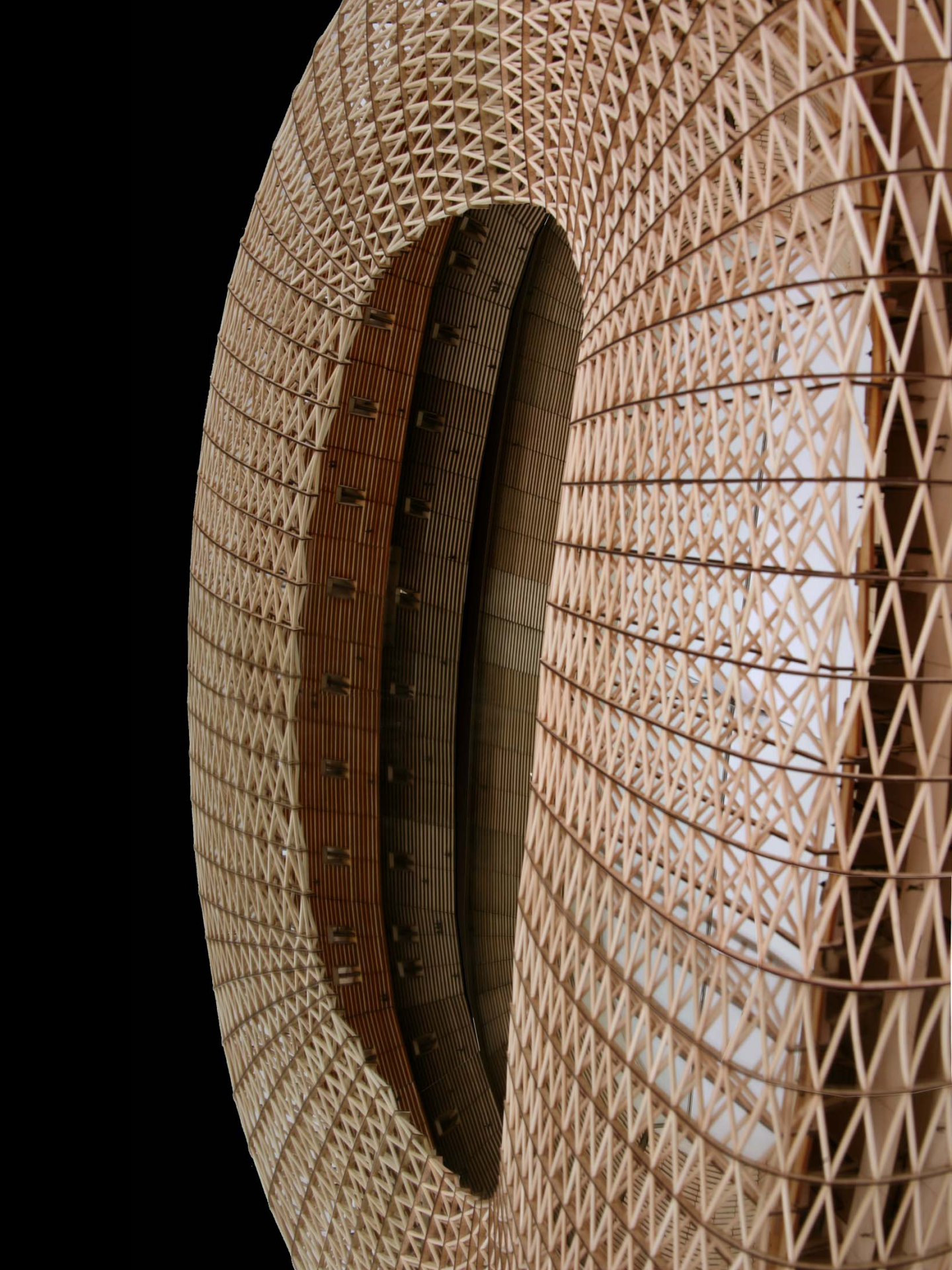














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Questions?