

4. Drawings

Drawings List

Site | 1:2000 @a2

Harbour construction:

Harbour dock | 1:20 @a1

Breakwater section | 1:500 @a3

Entrance bridge details | 1:20 @a1

North Sea Parliament architecture:

+5m Site plan | 1:2000 @a2

Plans | 1:500 @a4

Caisson box foundation plan

Assembly room plan

Entrance plan

Office 1 plan | open conversation spaces

Office 2 plan | closed conversation spaces

Dining plan

Typical hotel plan

Elevations | 1:2000 @a3

Site south elevation

Site north elevation

Site east elevation

| 1:500 @a3

South elevation - before the breakwater

South elevation - after the breakwater

Sections | 1:500 @a3

South section - Fourth wall

South section - Stage

| 1:500 @a4

East section

Entrance bridge | 1:20 @a1

Perforated screen | caisson box | 1:20 @a1

Inner courtyard | 1:20 @a1

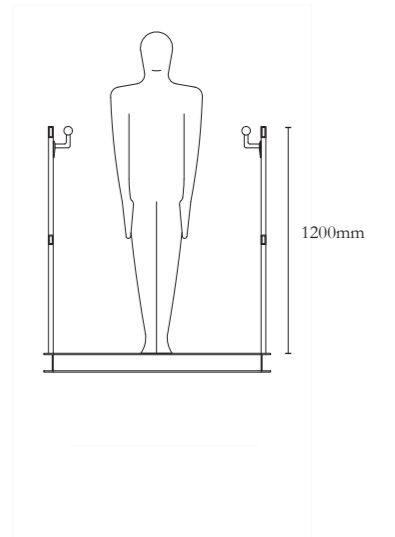
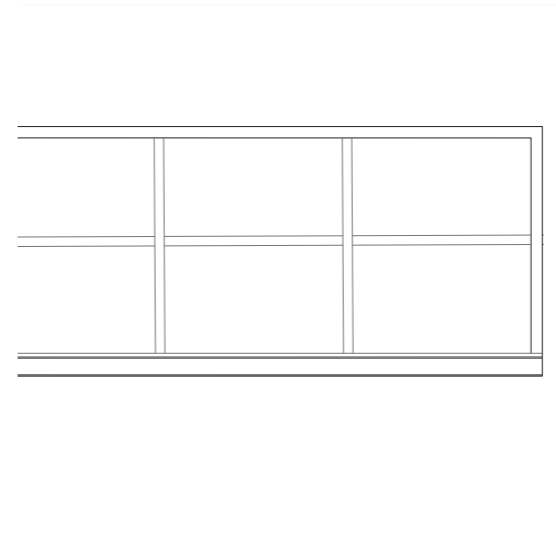
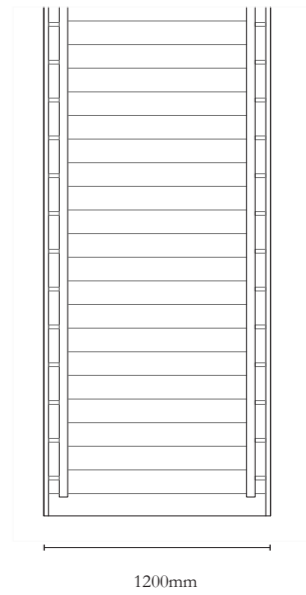
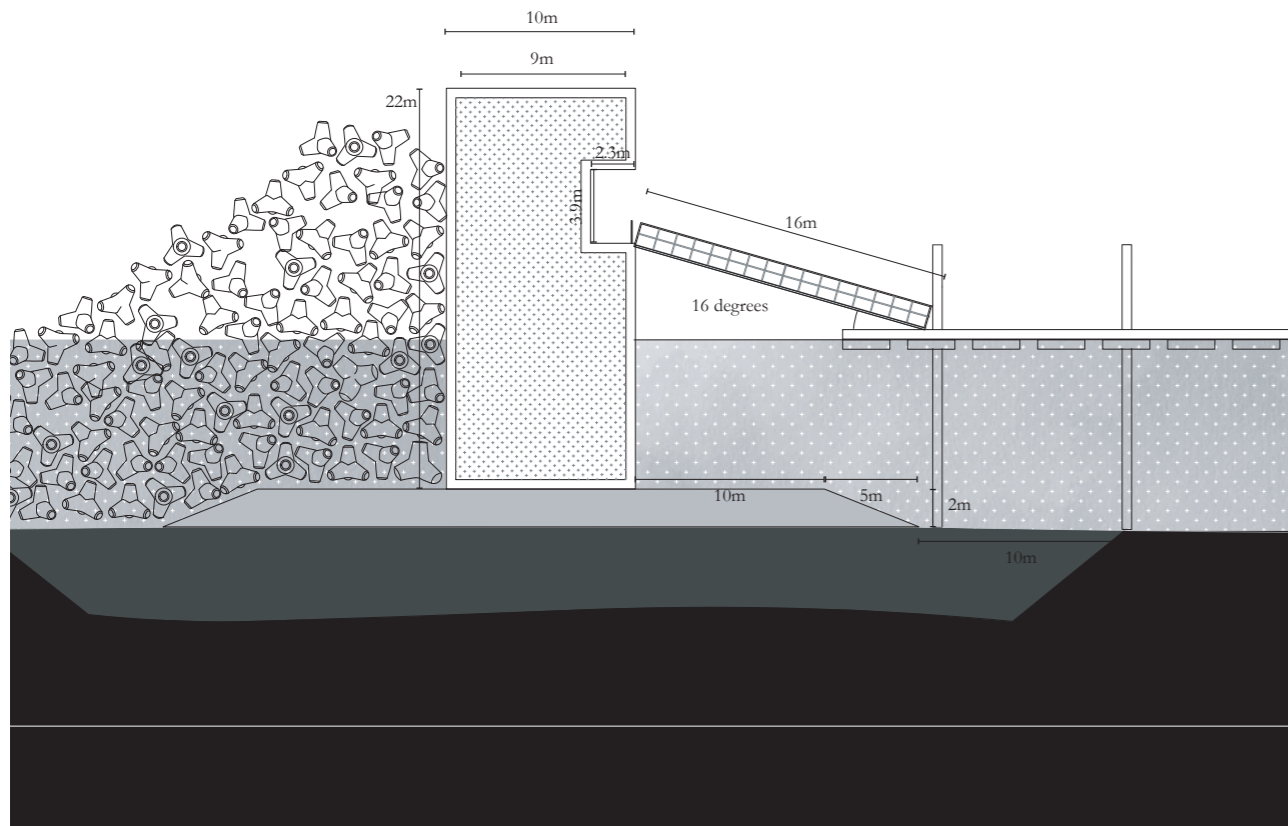
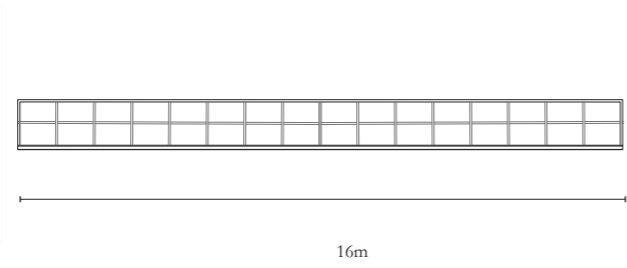
Details | 1:10 | 1:5 @a4

site plan
1:2000@a2



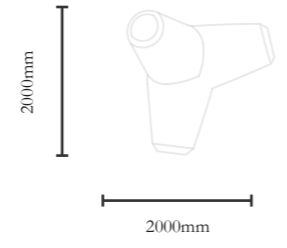
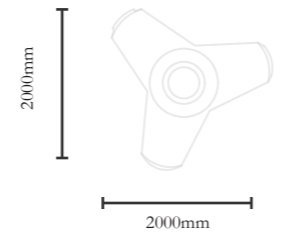
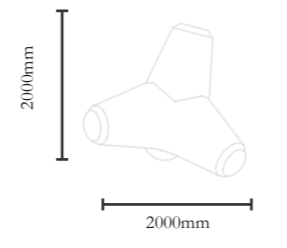
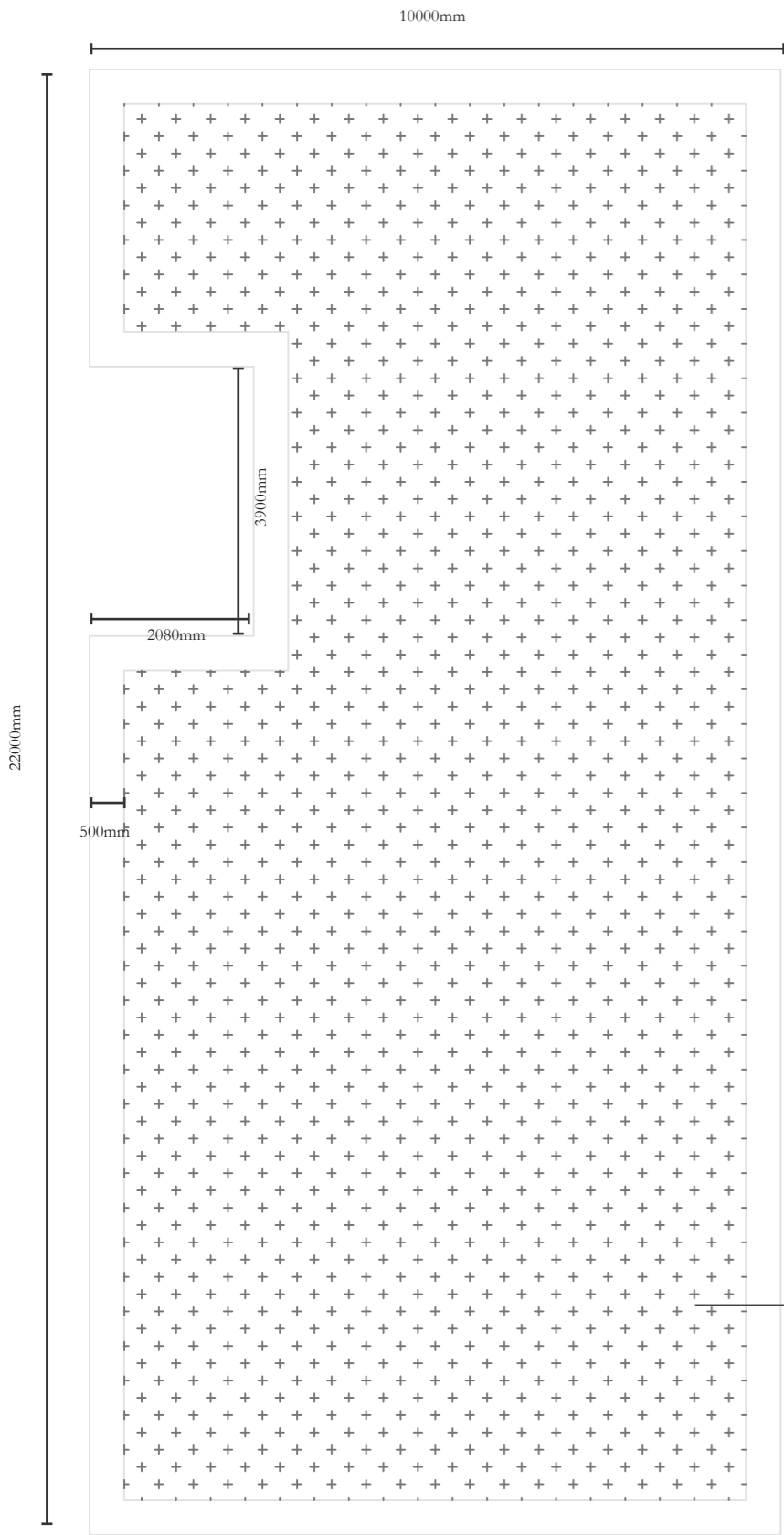
North Sea Parliament |
Site plan
Scale: 1.2000@a2



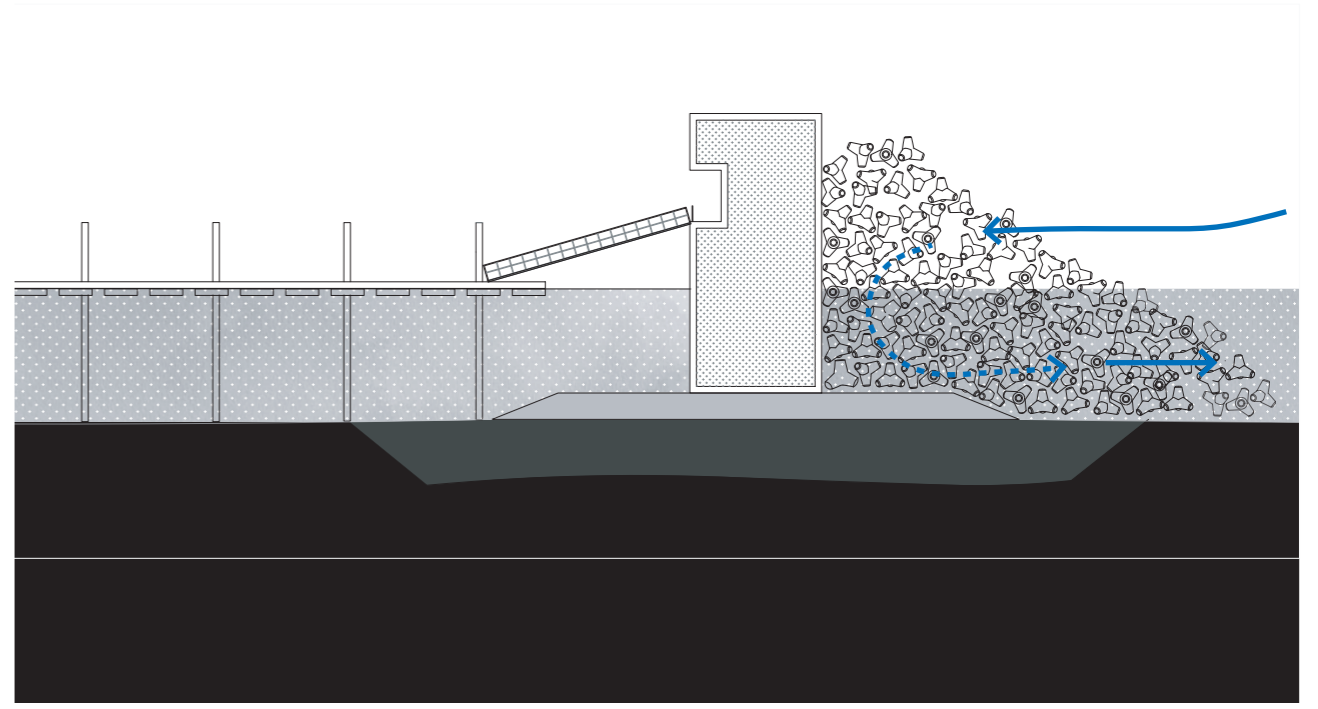


North Sea Parliament |
Harbour dock walkway
Scale: 1:20@a1 (right)
Scale: 1:100@a1 (top)

breakwater section
1:500@a3



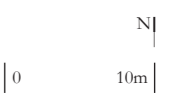
Concrete caisson box
Seawater



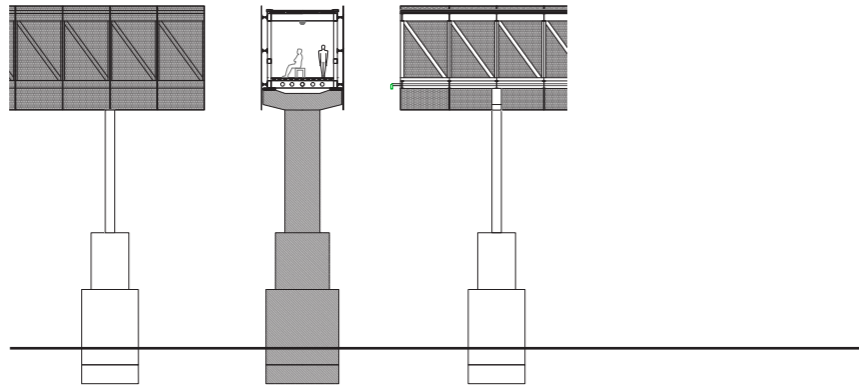
North Sea Parliament |
Breakwater section + Protection
Scale: 1:100@a3



North Sea Parliament |
Breakwater section
Scale: 1:500@a3

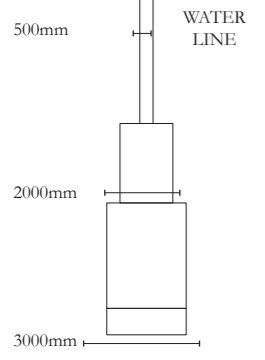
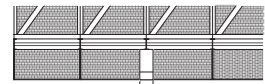


entrance bridge details
1:20 @a1



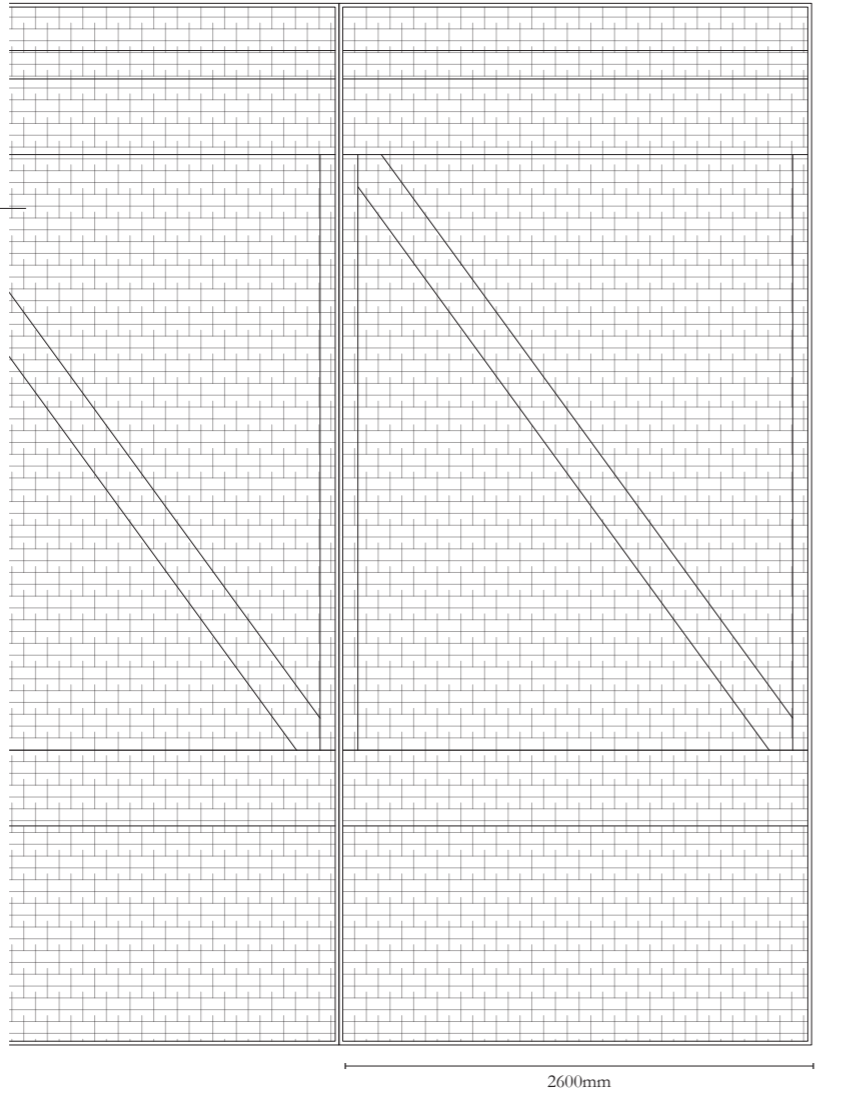
Elevation fragment

Perforated facade (same as parliament) attached onto truss bridge



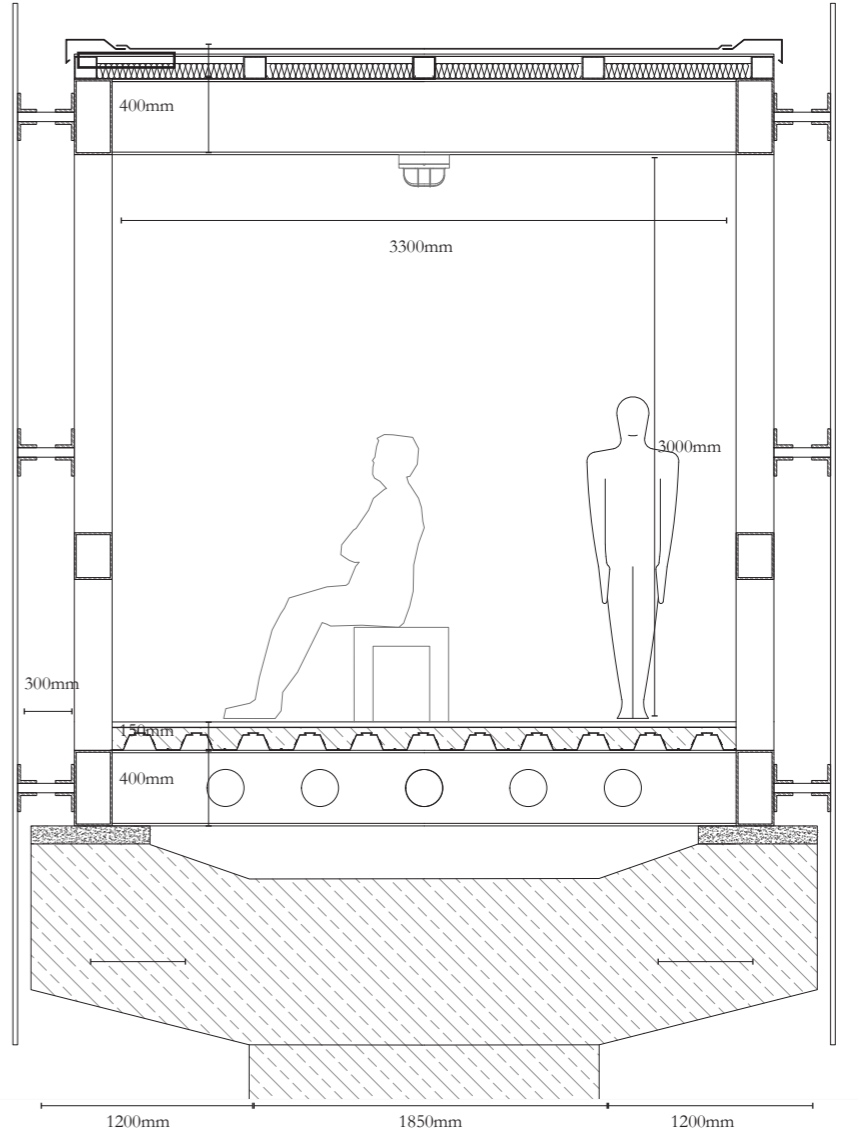
SEABED

Spread footing foundation



North Sea Parliament |
Harbour bridge to parliament

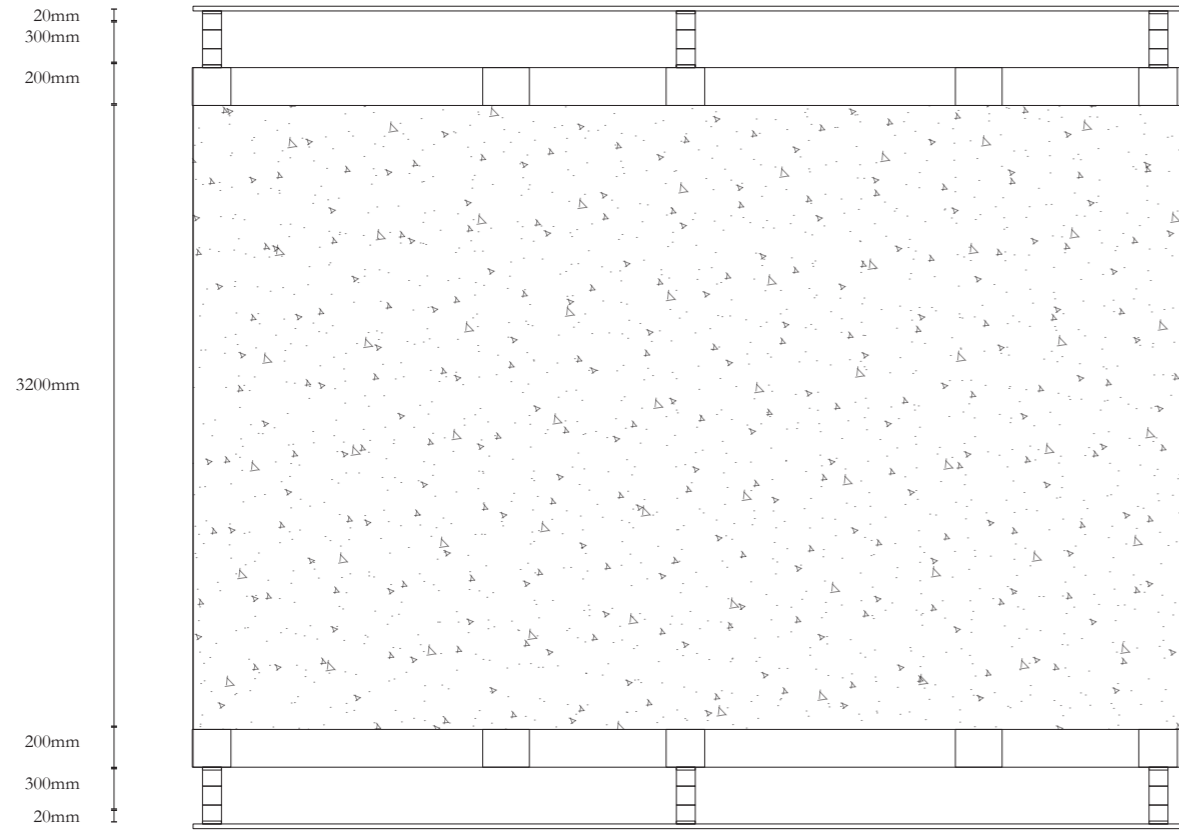
Scale: 1.20@a1
Scale: 1.200@a1 (top elevation + section)



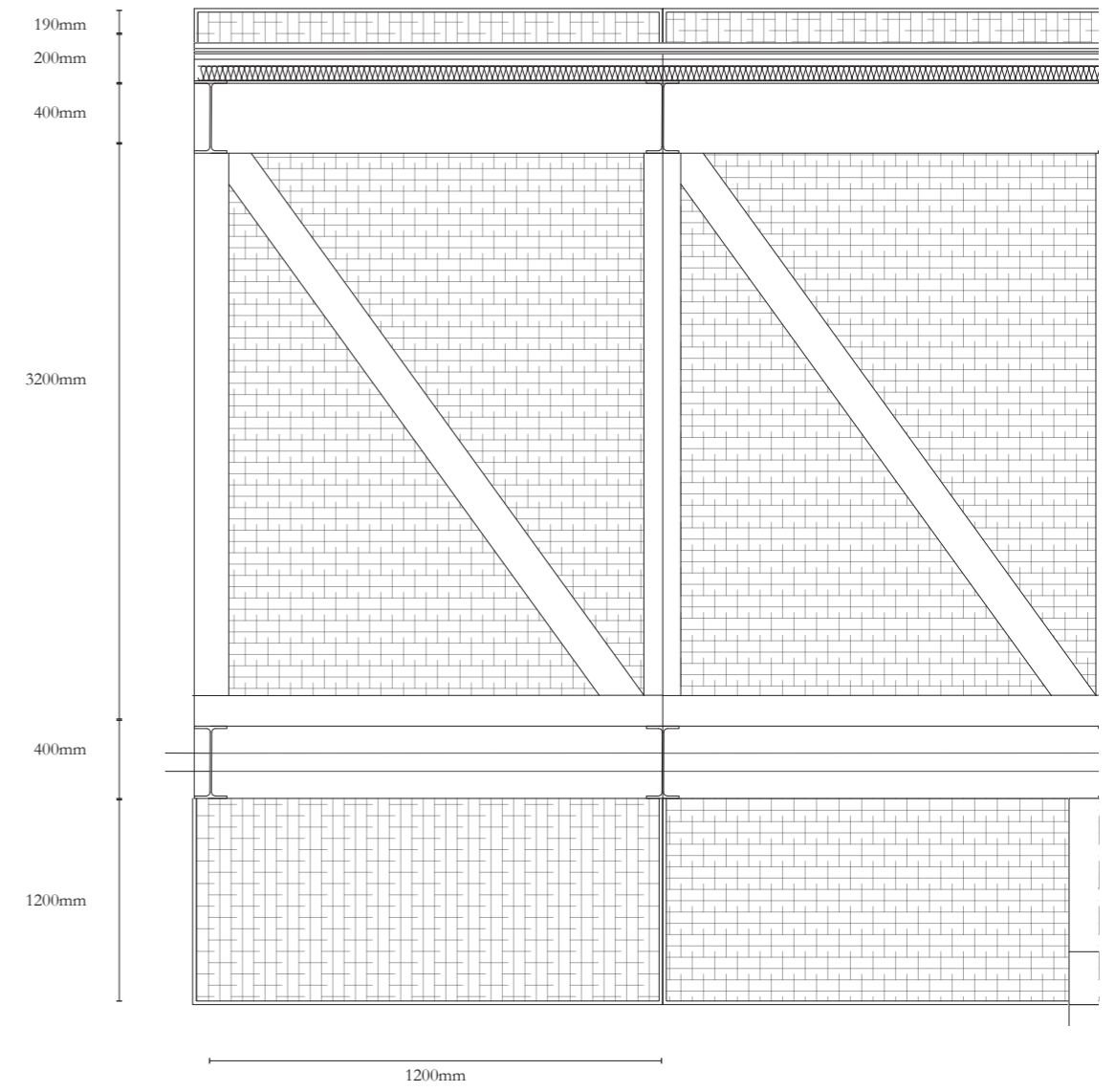
Roof plan

Section

Pan fragment of truss bridge

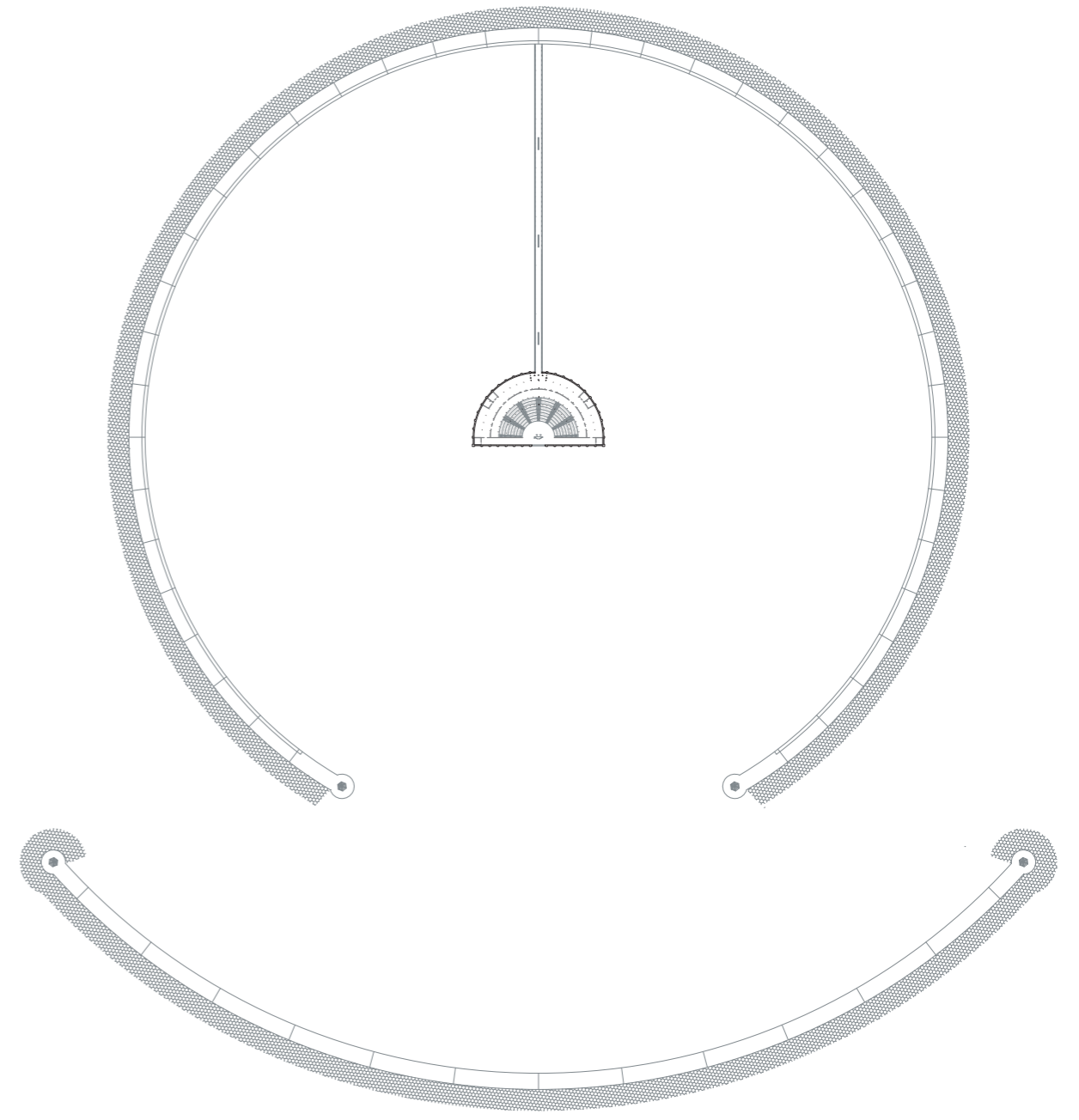


Section fragment of truss bridge



North Sea Parliament |
Harbour bridge to parliament
Scale: 1.20@a1

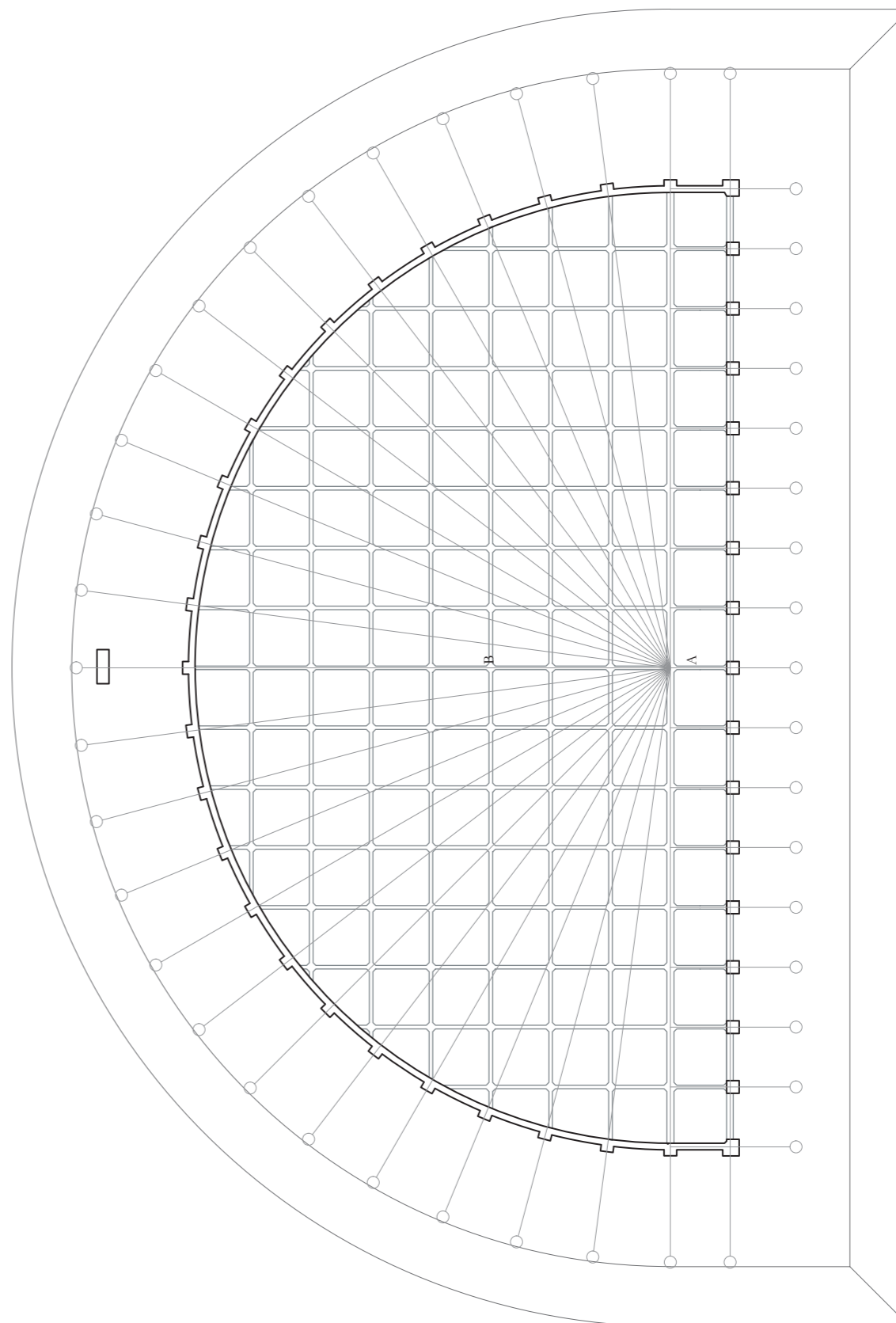




North Sea Parliament
Ground site plan
Scale: 1:2000@a2



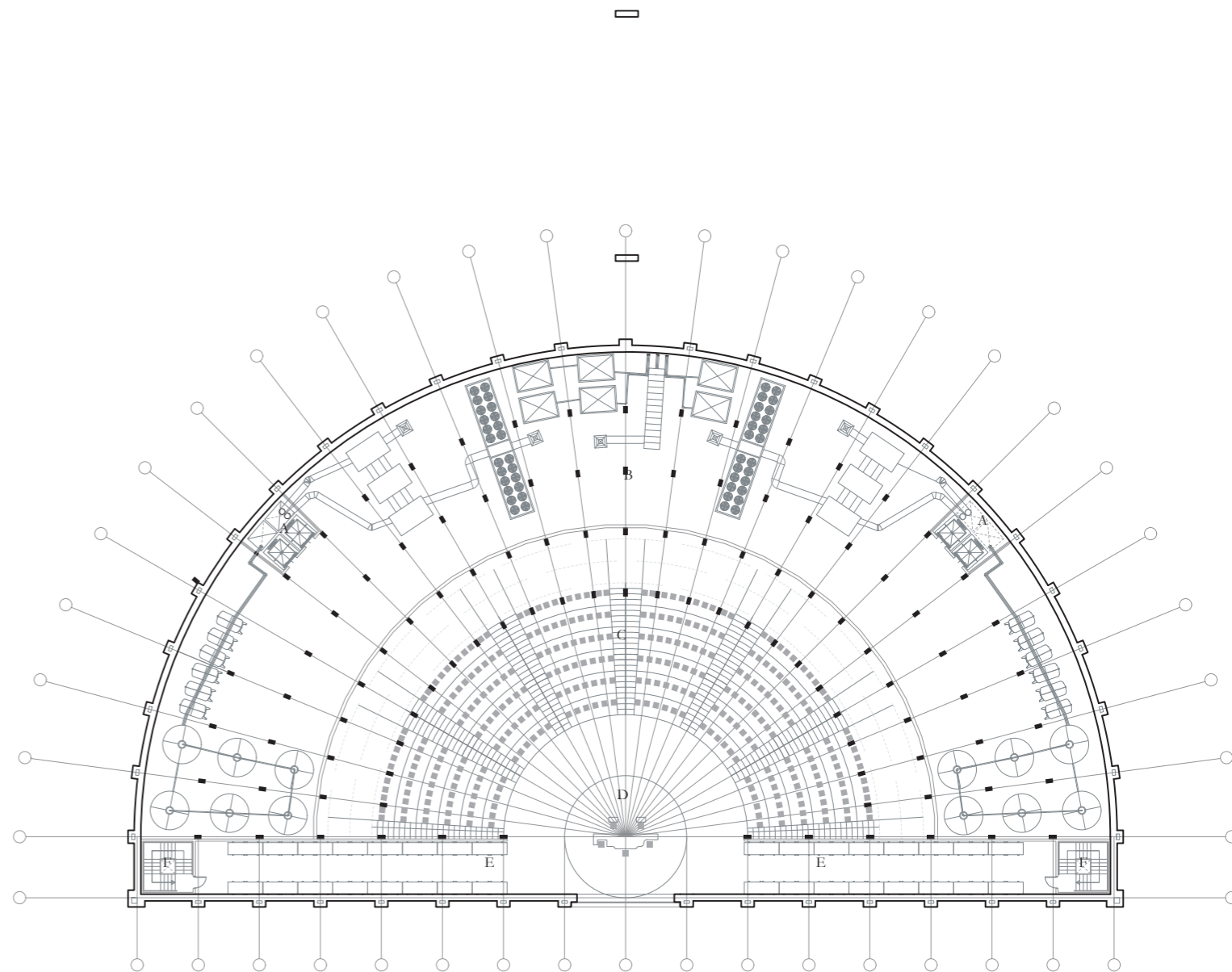
A - Open caisson box compartments
B - Closed caisson box compartments



North Sea Parliament | Plan
-10m Caisson box foundation plan
Scale: 1:500@a4



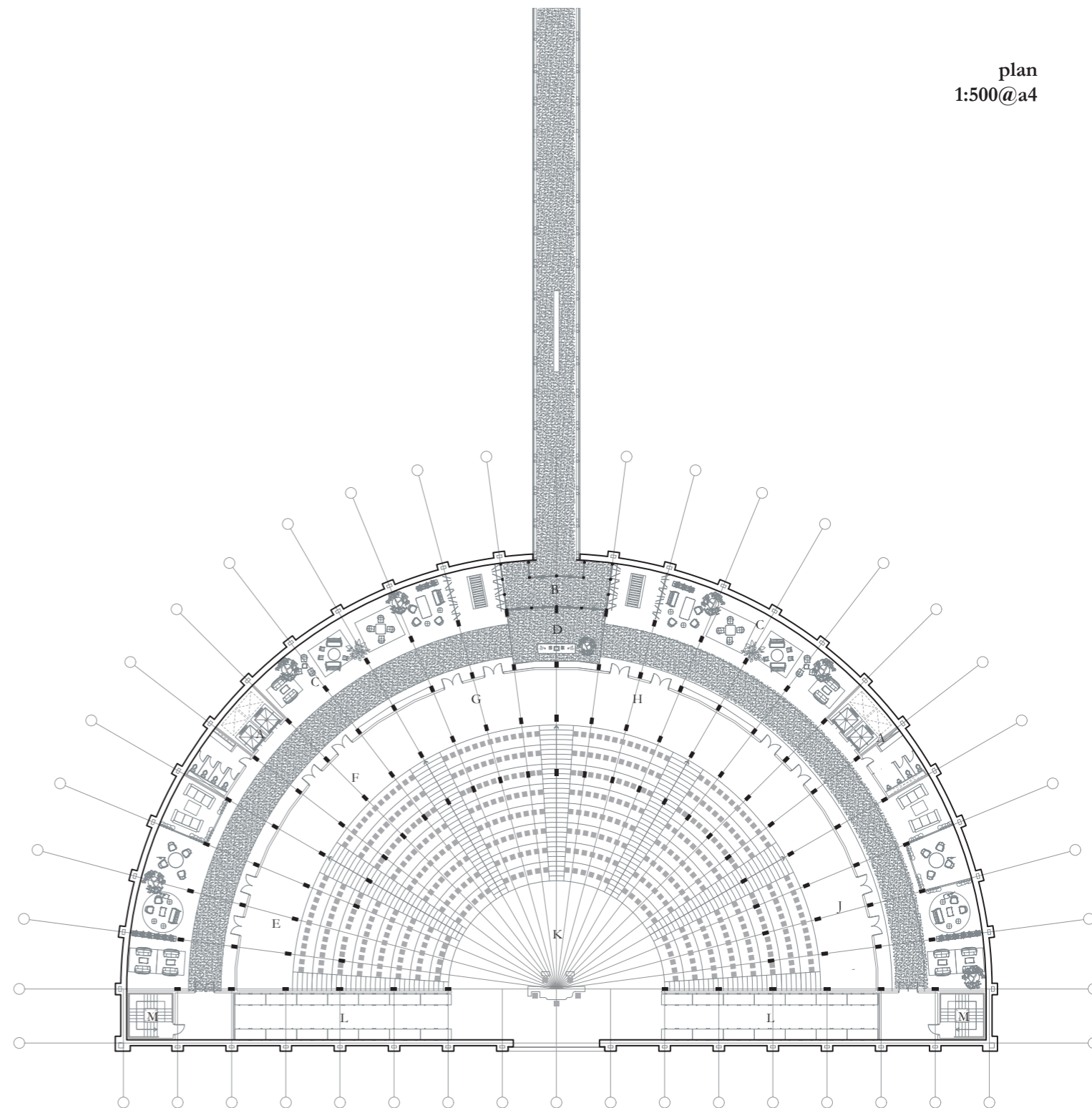
- A - Core
- B - Plant room
- C - Assembly stairs
- D - Stage
- E - Backstage
- F - Stairs



North Sea Parliament | Plan
0m Assembly room plan
Scale: 1:500@a4



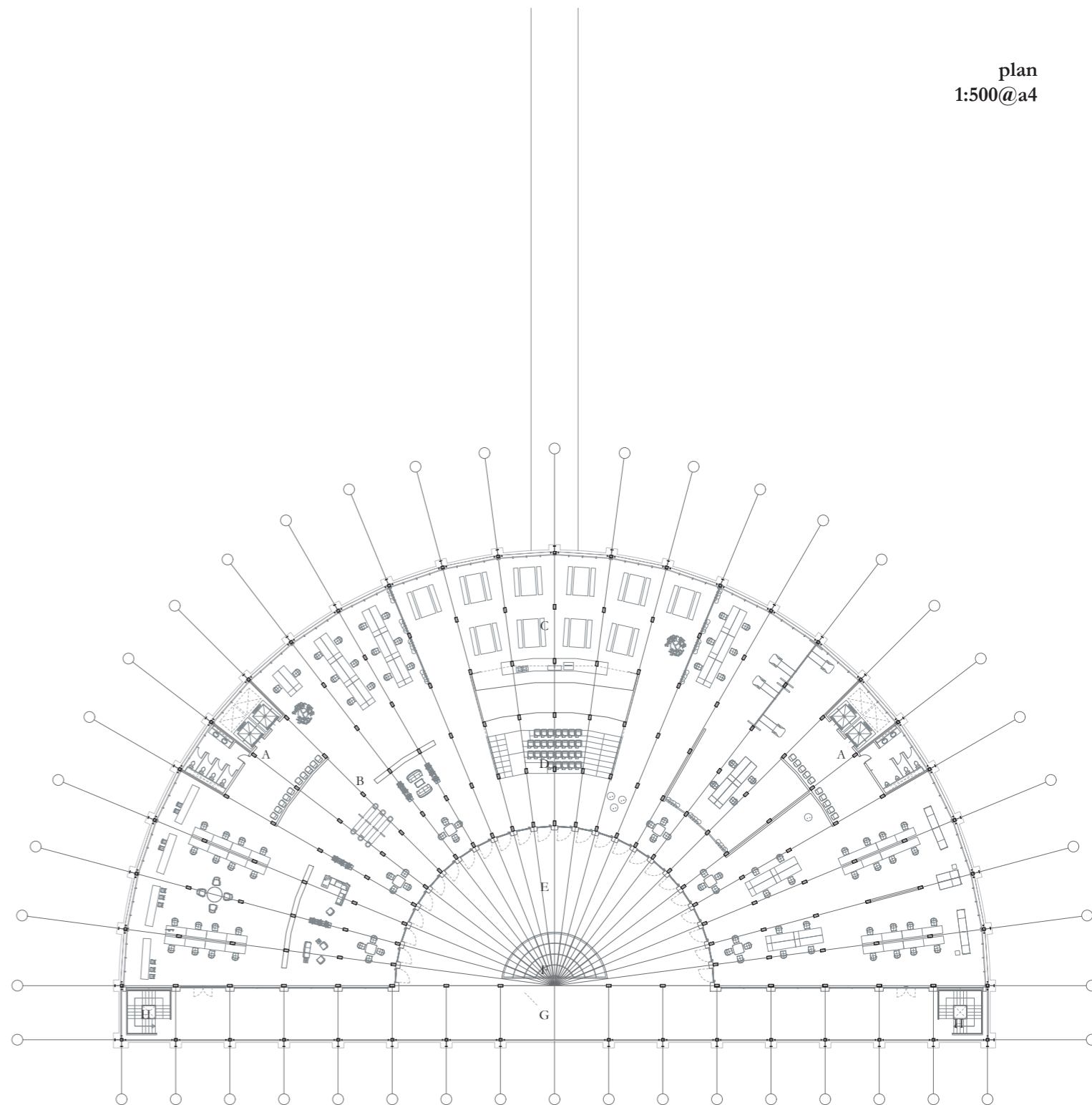
- A - Core
- B - Entrance lobby
- C - amenity
- D - Informal conversation corridor
- E - Extractivism entrance and seating zone
- F - Energy entrance and seating zone
- G - Logistics entrance and seating zone
- H - Ecology entrance and seating zone
- I - Protein entrance and seating zone
- J - Migration entrance and seating zone
- K - Stage
- L - Back stage
- M - Stairs



North Sea Parliament | Plan
+5m Entrance plan
Scale: 1.500@a4



- A - Core
- B - Open plan work space shared amongst all claims
- C - Kitchenette, eating zone
- D - Stairs/mini performance stairs
- E - Courtyard
- G - Screen
- H - Stairs

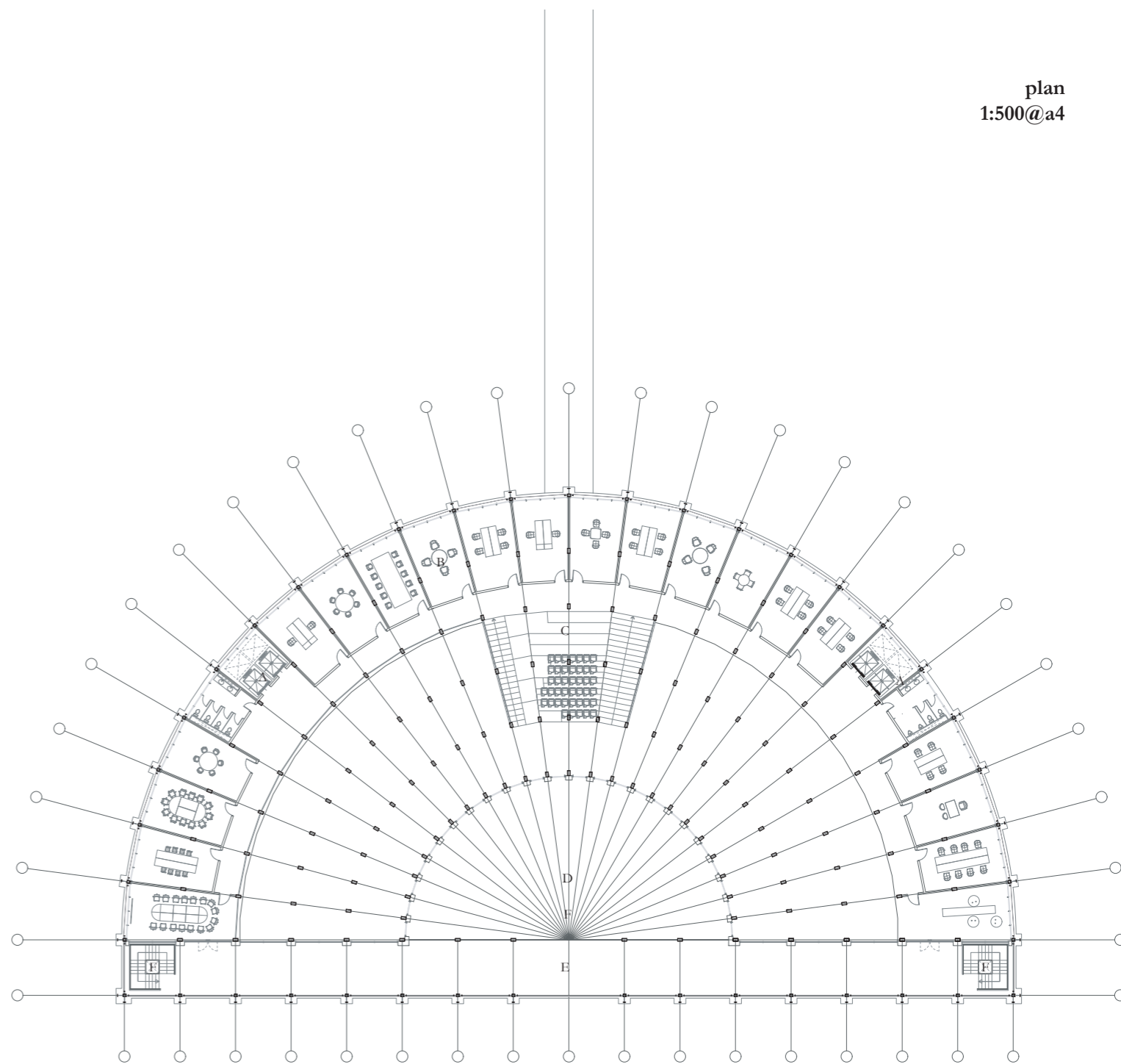


North Sea Parliament | Plan
Office plan | Open conversation spaces
Scale: 1:500@a4

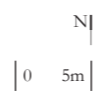


plan
1:500@a4

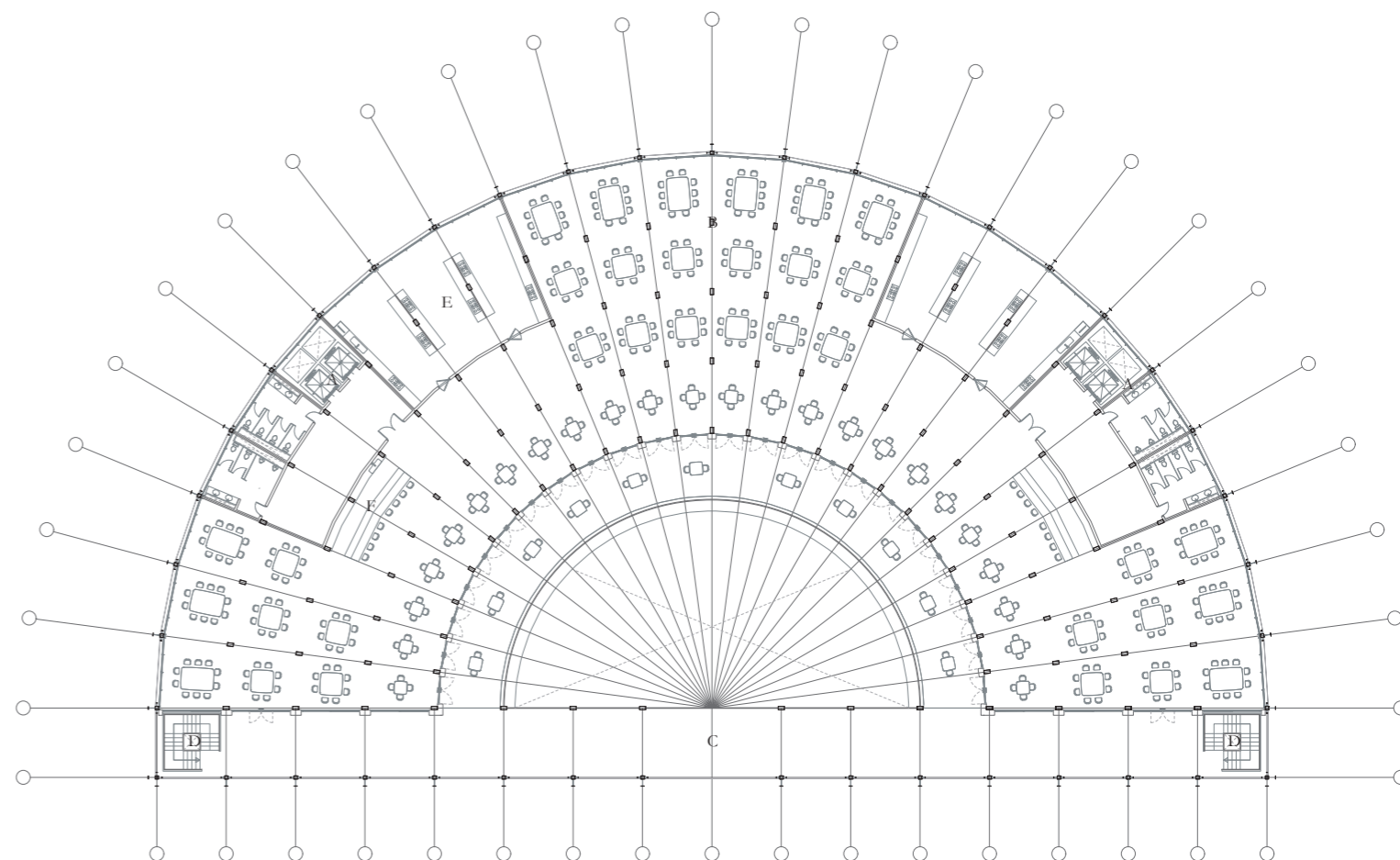
- A - Core
- B - Closed offices for claims
- C - Stairs/mini performance stairs
- D - Courtyard
- E - Screen
- F - Stairs



North Sea Parliament | Plan
Office plan | Closed conversation spaces
Scale: 1:500@a4



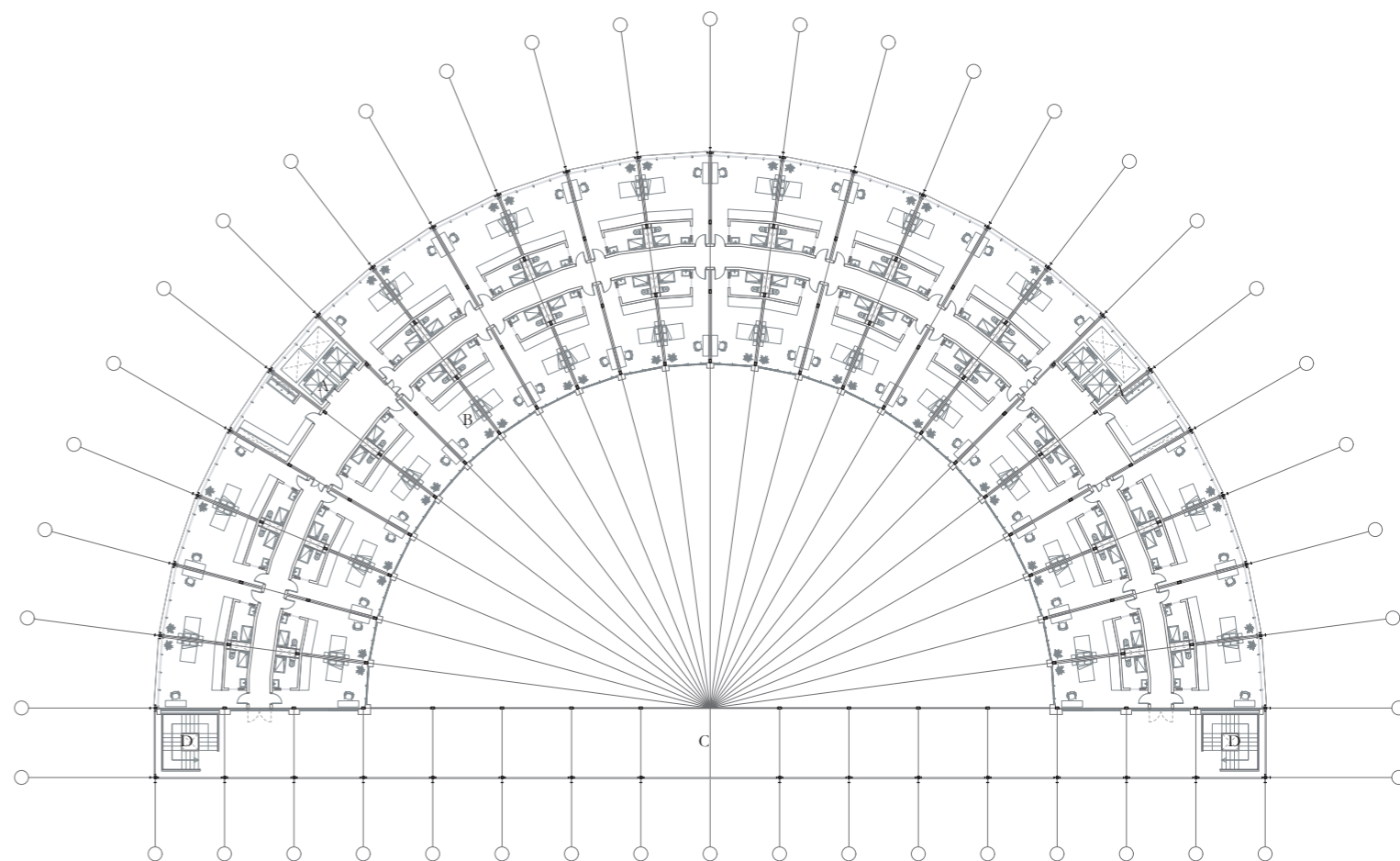
- A - Core
- B - Dining
- C - Screen
- D - Stairs
- E - Kitchen
- F - Bar



North Sea Parliament | Plan
Dining plan
Scale: 1:500@a4

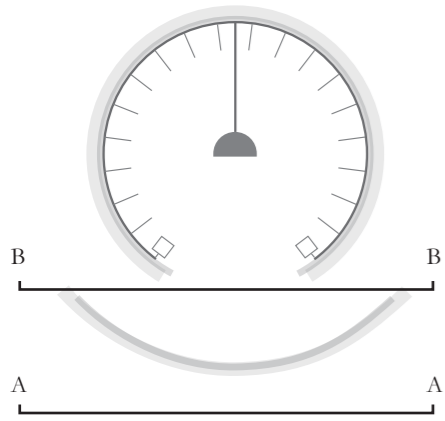


- A - Core
- B - Hotel rooms
- C - Screen
- D - Stairs



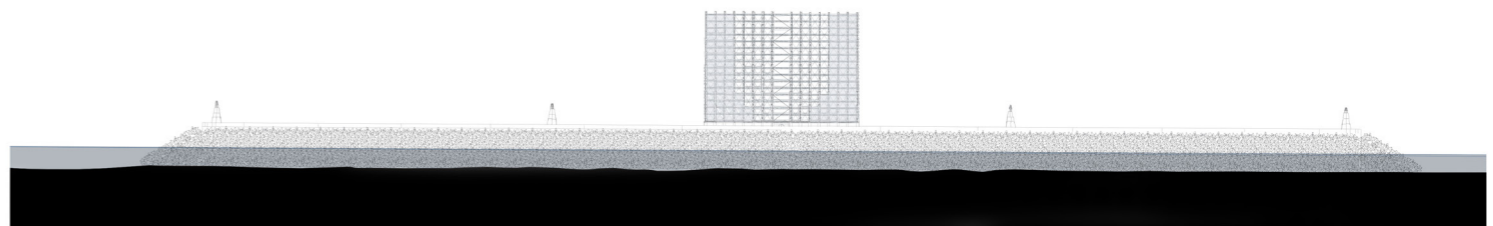
North Sea Parliament | Plan
Typical hotel plan
Scale: 1.500@a4



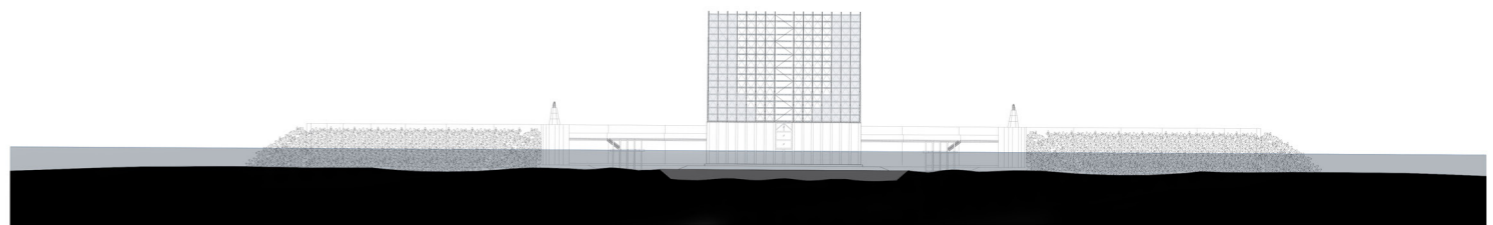


site elevation
1:2000@a3

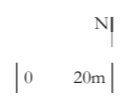
A-A

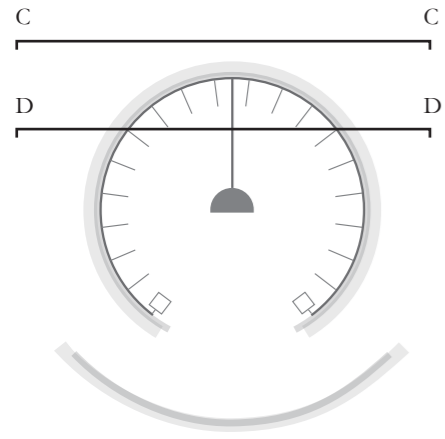


B-B



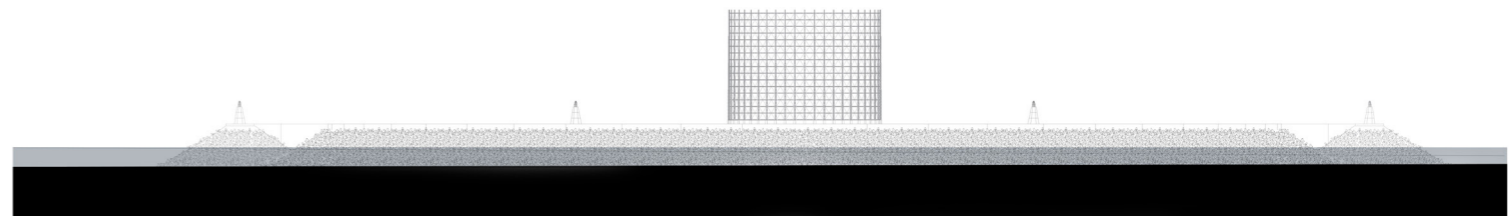
North Sea Parliament
South elevation
Scale: 1.2000@a3



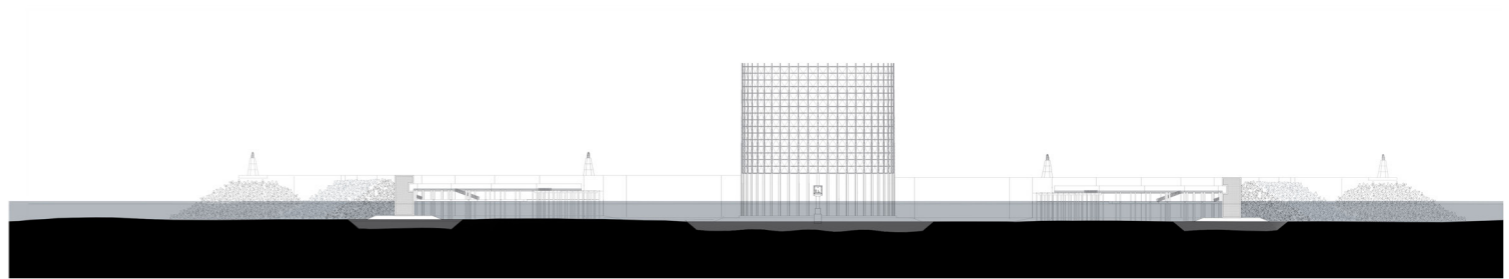


site elevation
1:2000@a3

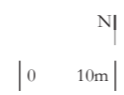
C-C

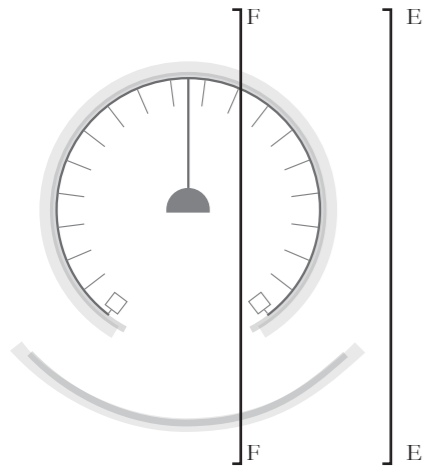


D-D



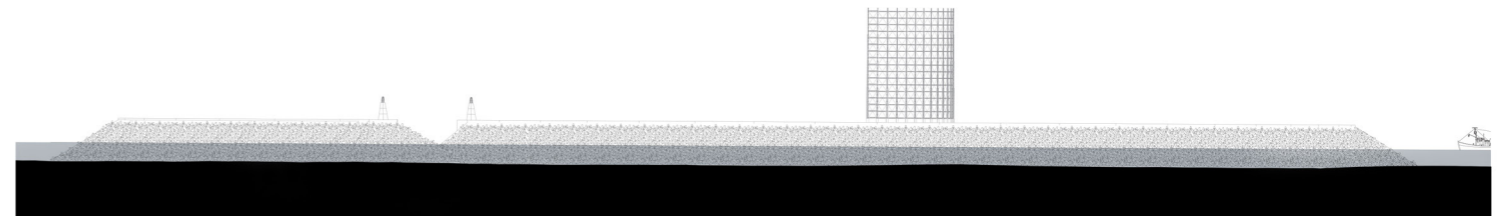
North Sea Parliament
North elevation
Scale: 1:2000@a3



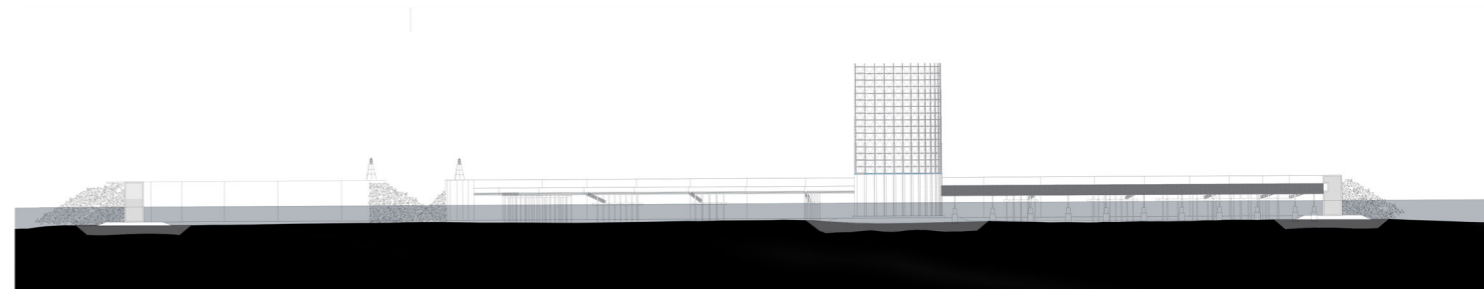


site elevation
1:2000@a3

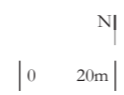
E-E

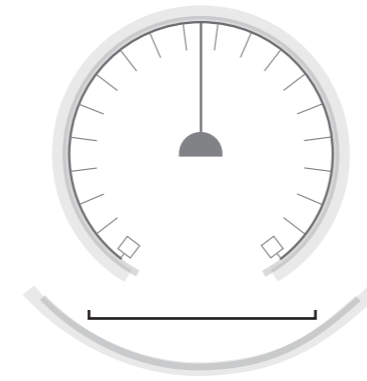


F-F

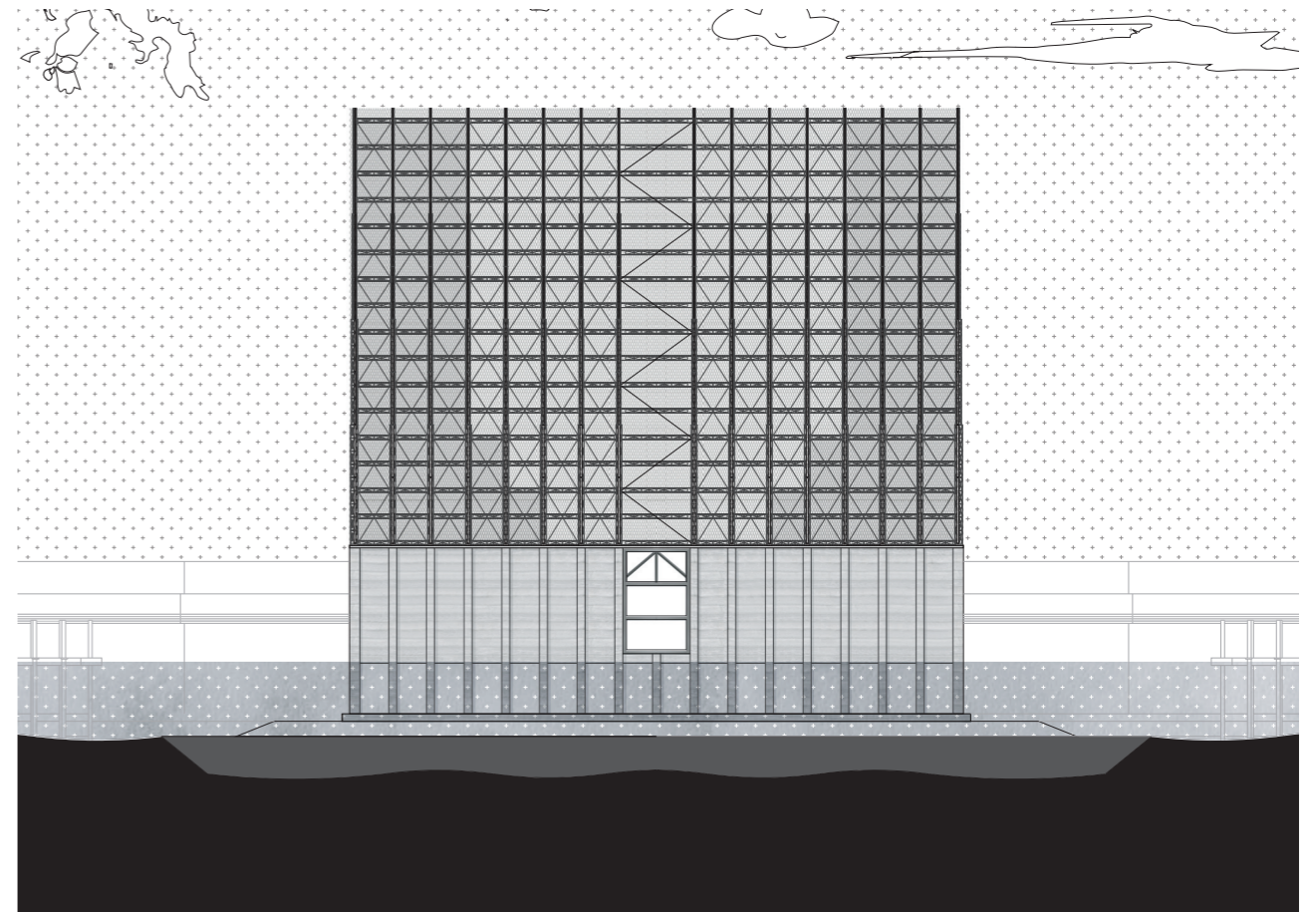
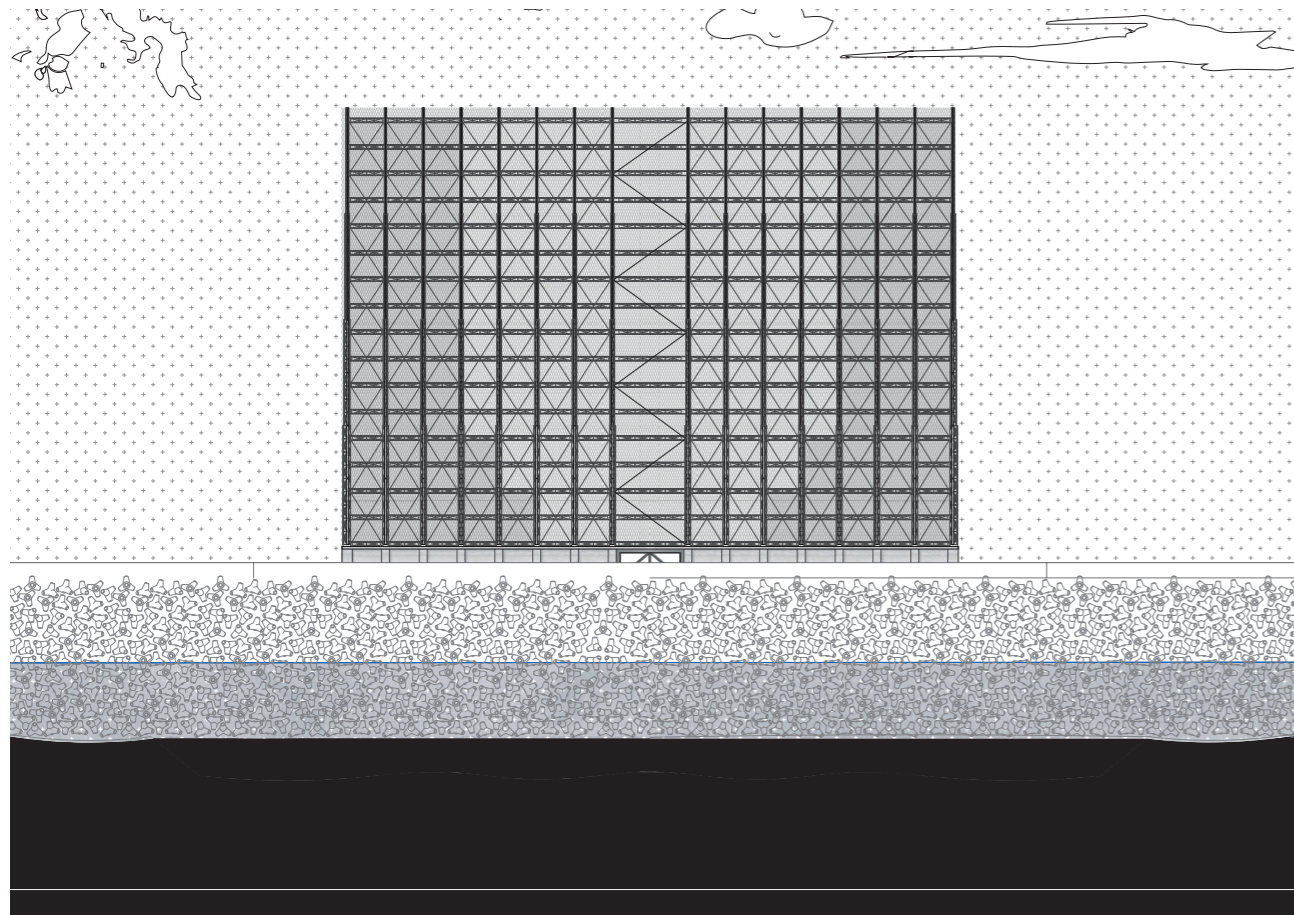


North Sea Parliament
East elevation
Scale: 1:2000@a3





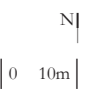
elevation
1:500@a3



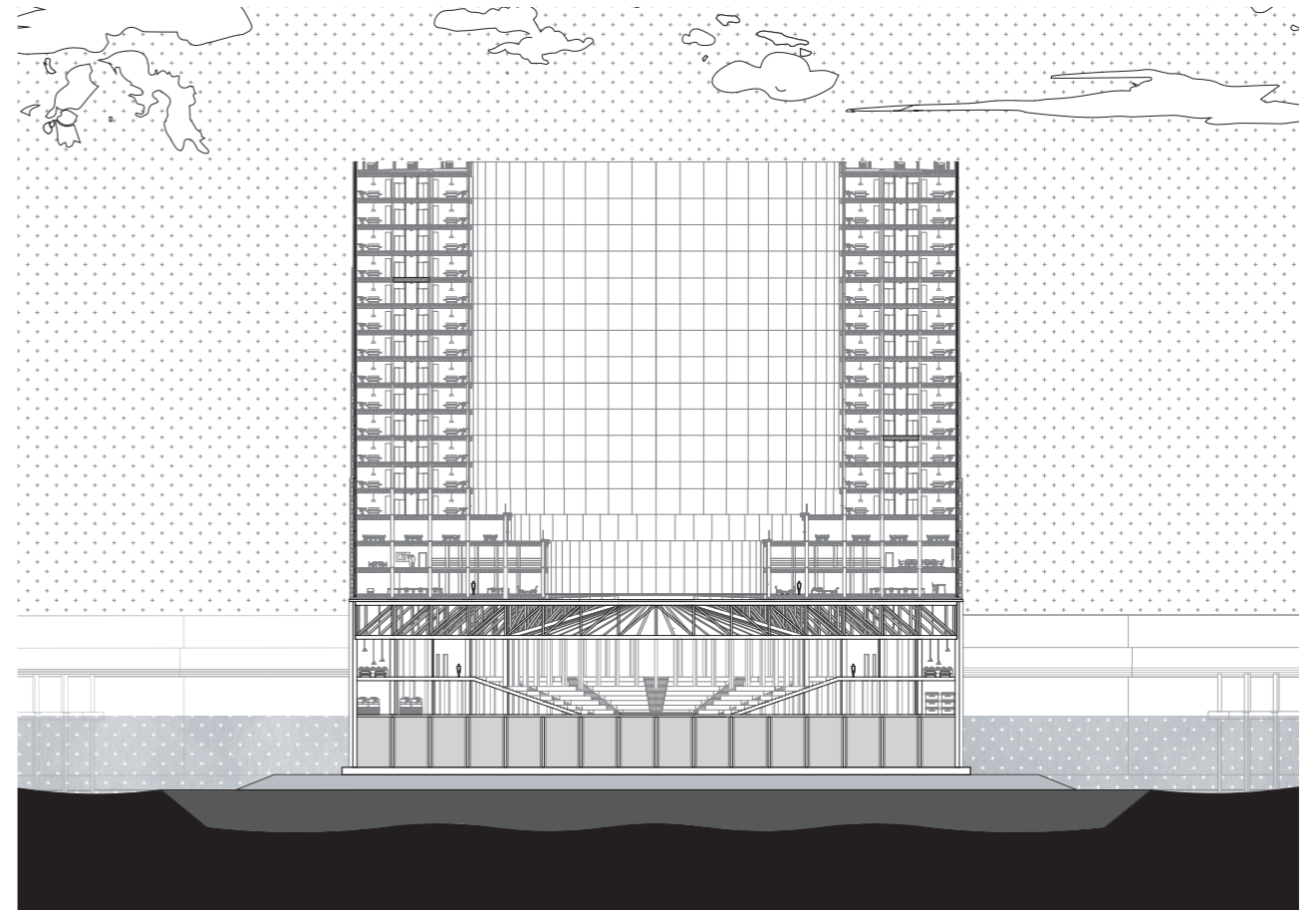
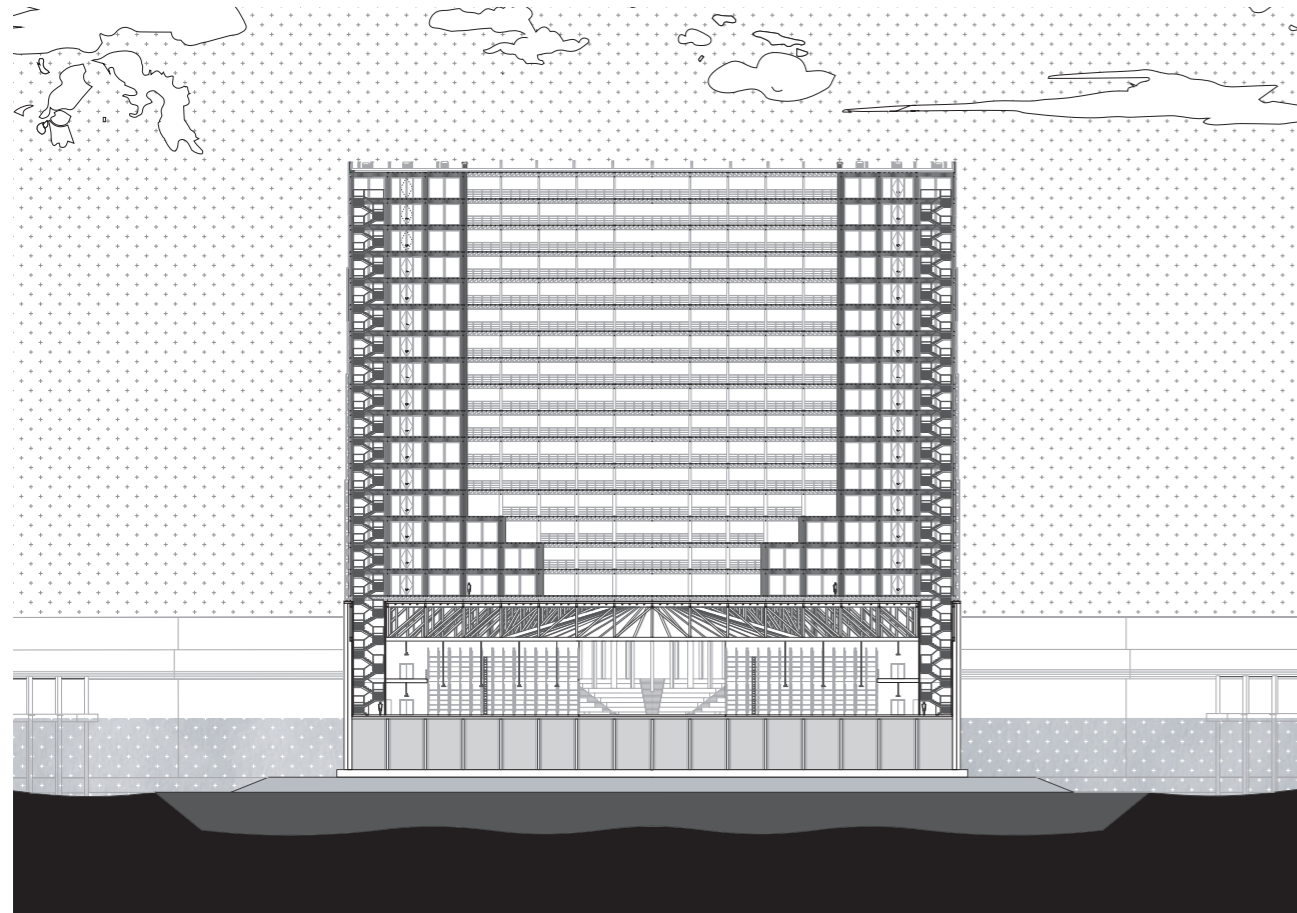
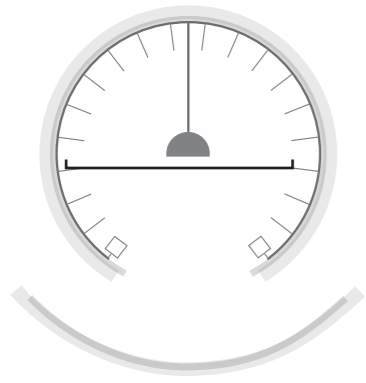
North Sea Parliament
South elevation - before the breakwater
Scale: 1.500@a3



North Sea Parliament
South elevation - after the breakwater
Scale: 1.500@a3



section
1:500@a3

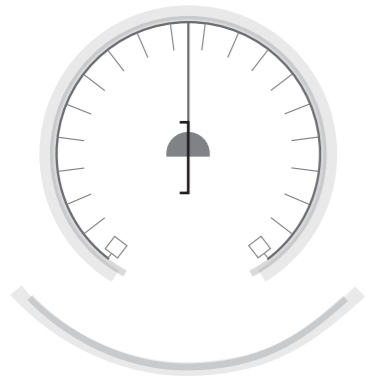


North Sea Parliament
South section - Fourth wall
Scale: 1.500@a3

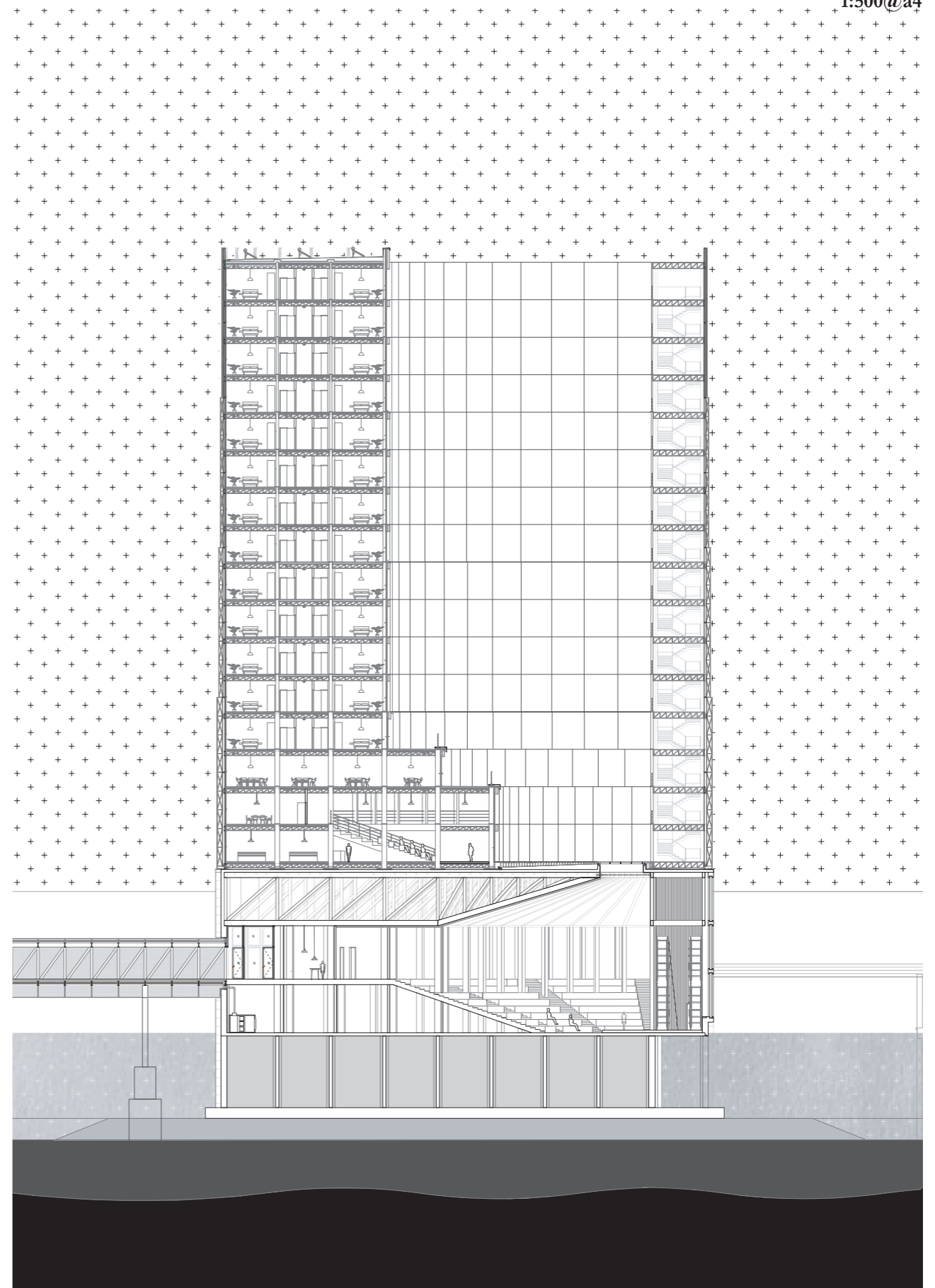


North Sea Parliament
South section - Stage
Scale: 1.500@a3

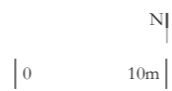




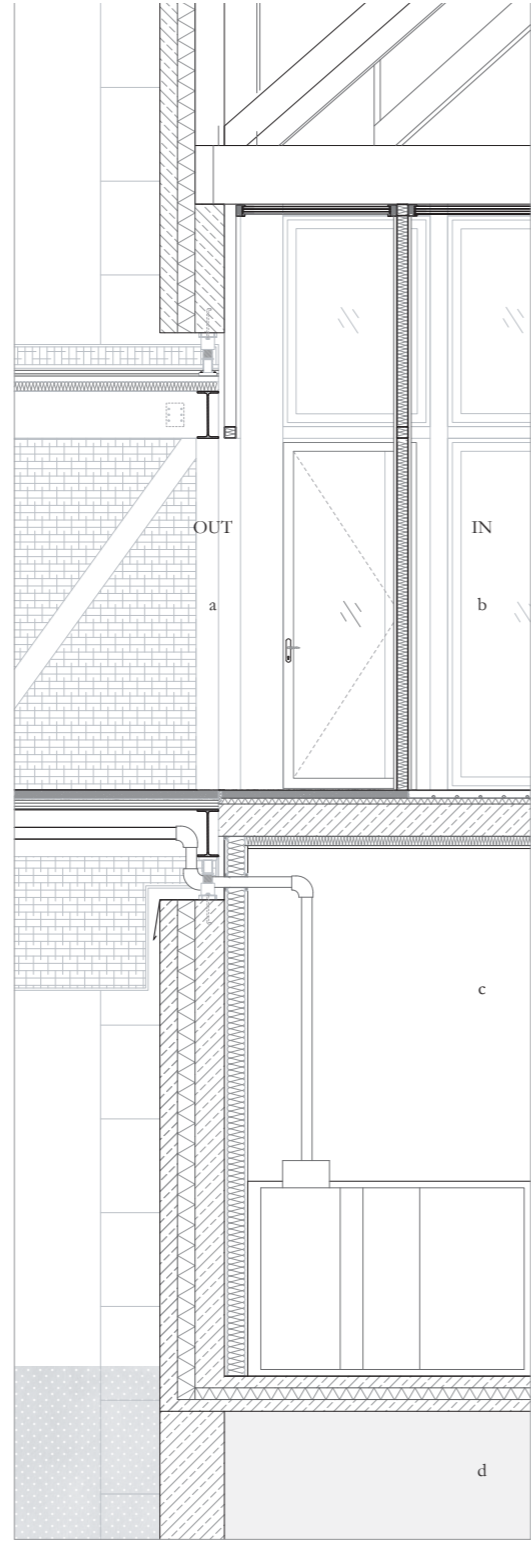
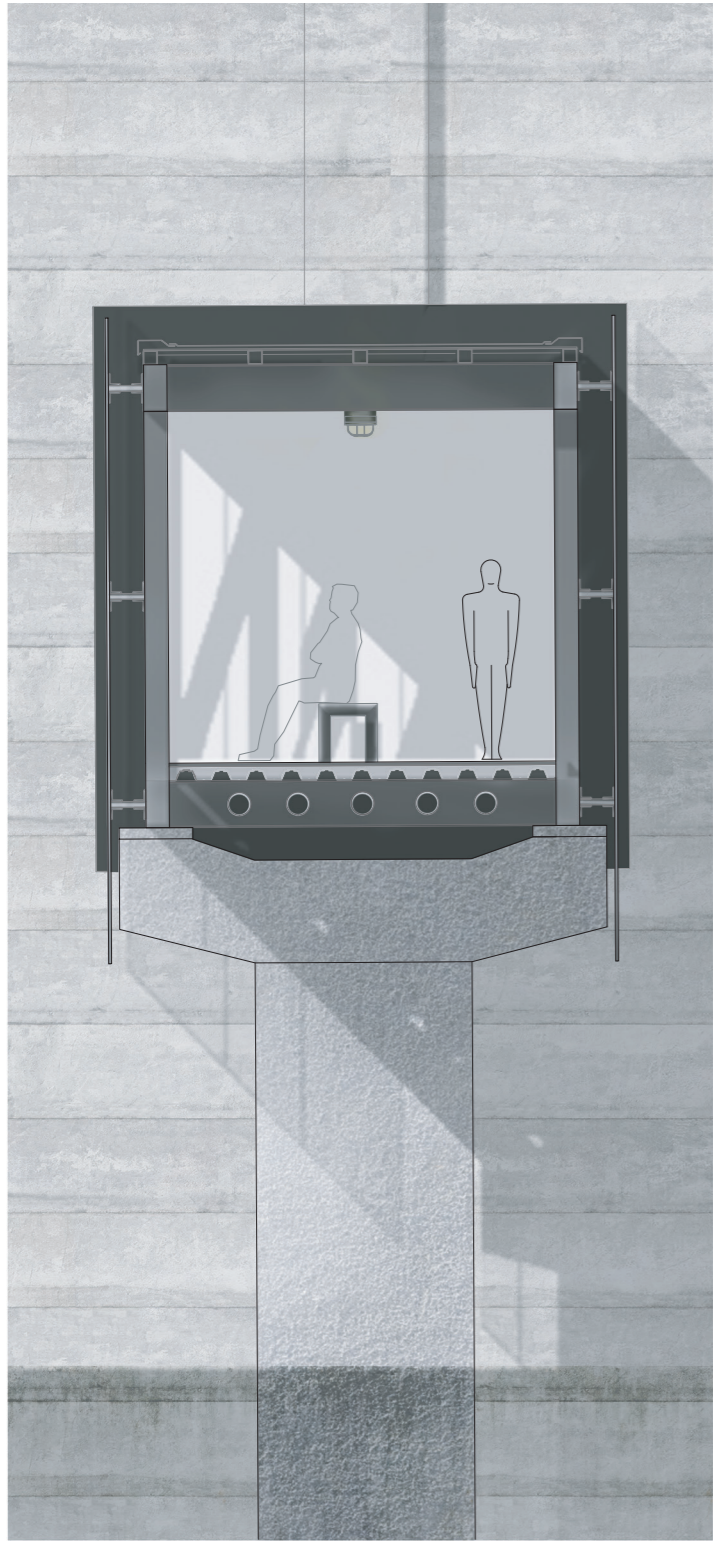
section
1:500@a4



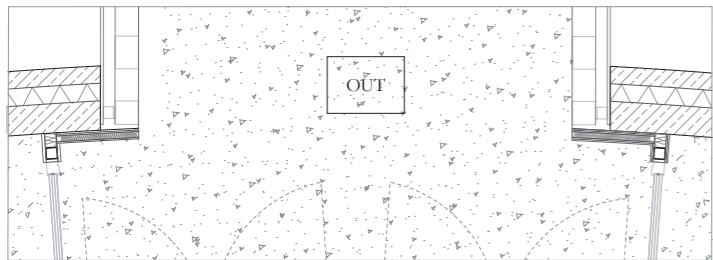
North Sea Parliament
East section
Scale: 1:500@a4



Entrance bridge
1.20@a1

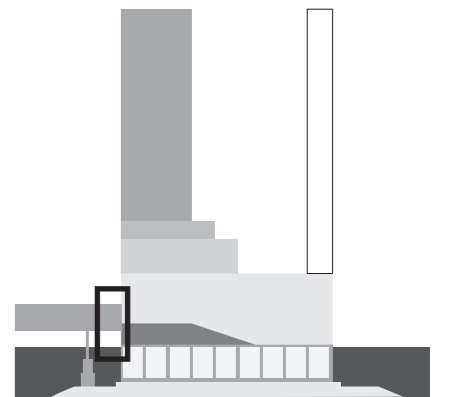


- a - Entrance bridge
- b - Inner Foyer
- c - Plant room
- d - Water foundation

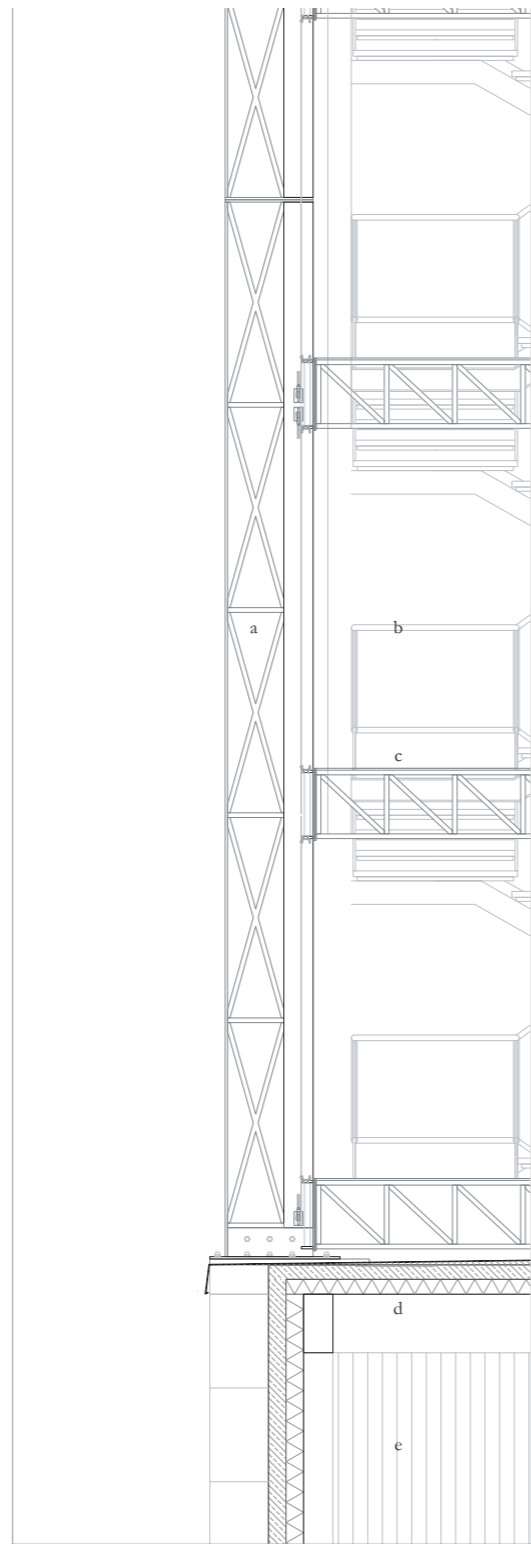
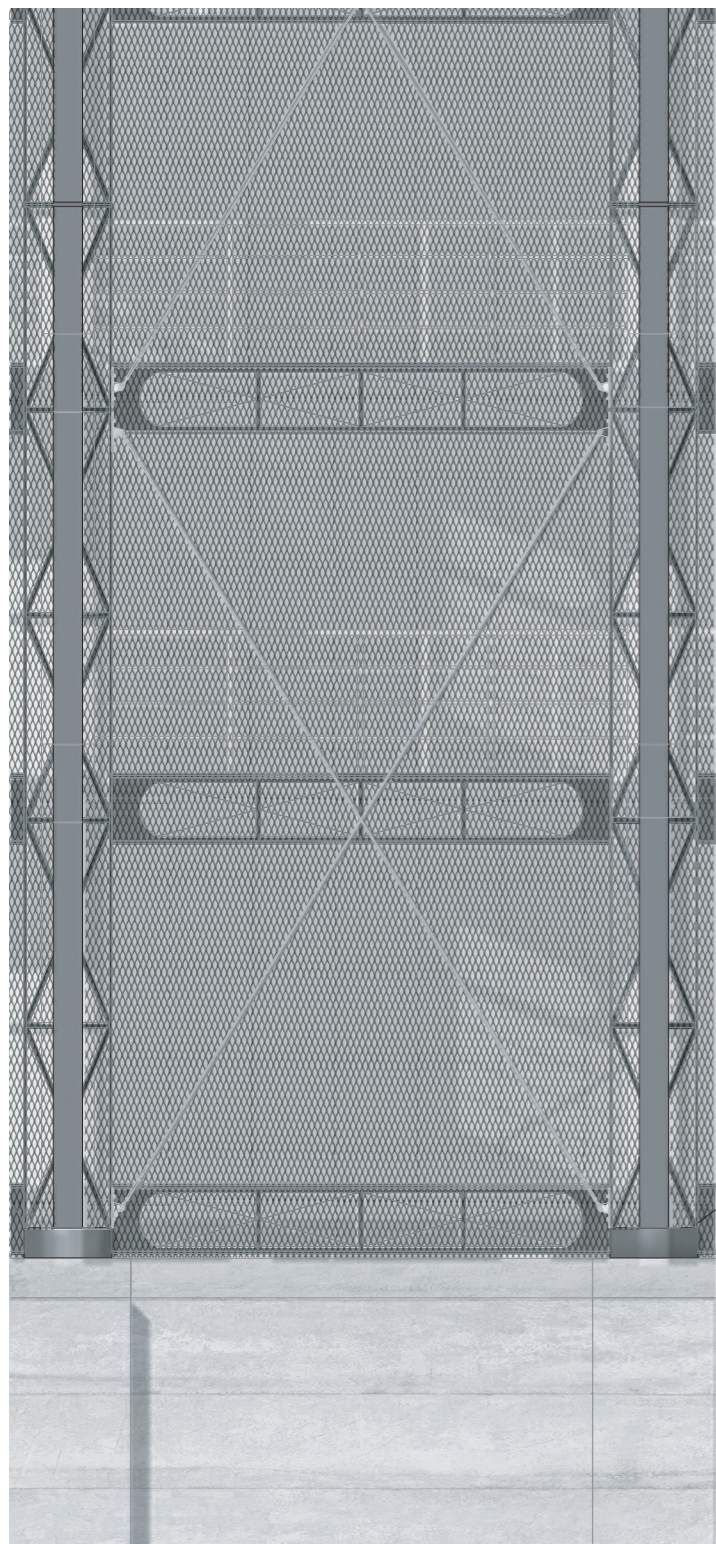


North Sea Parliament
Entrance bridge
Scale: 1.20@a1

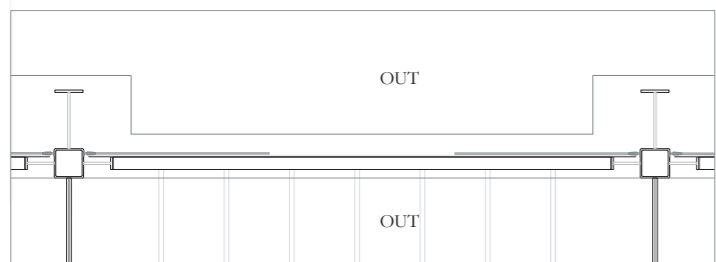
N
| 0 1m |



Perforated screen | caisson box
1.20@a1

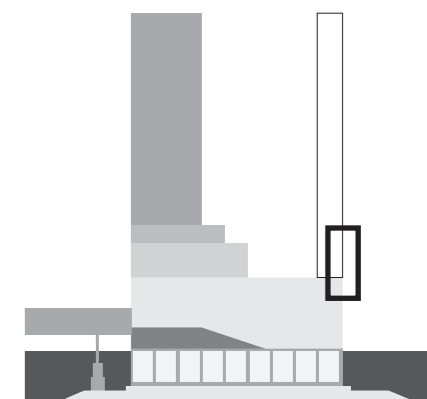


- a - Gasholder column
- b - Screen stairs
- c - Screen perforated metal deck
- d - Assembly truss
- e - Screen Stairs encasement to seal the outside stairs from interior caisson box space

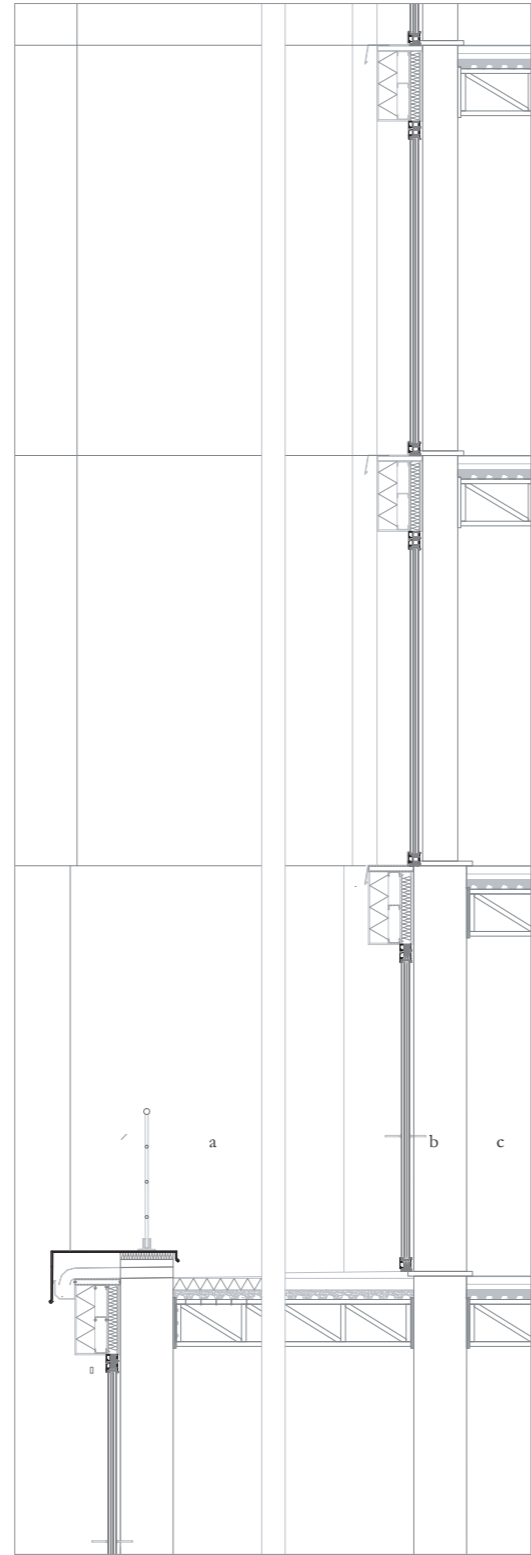
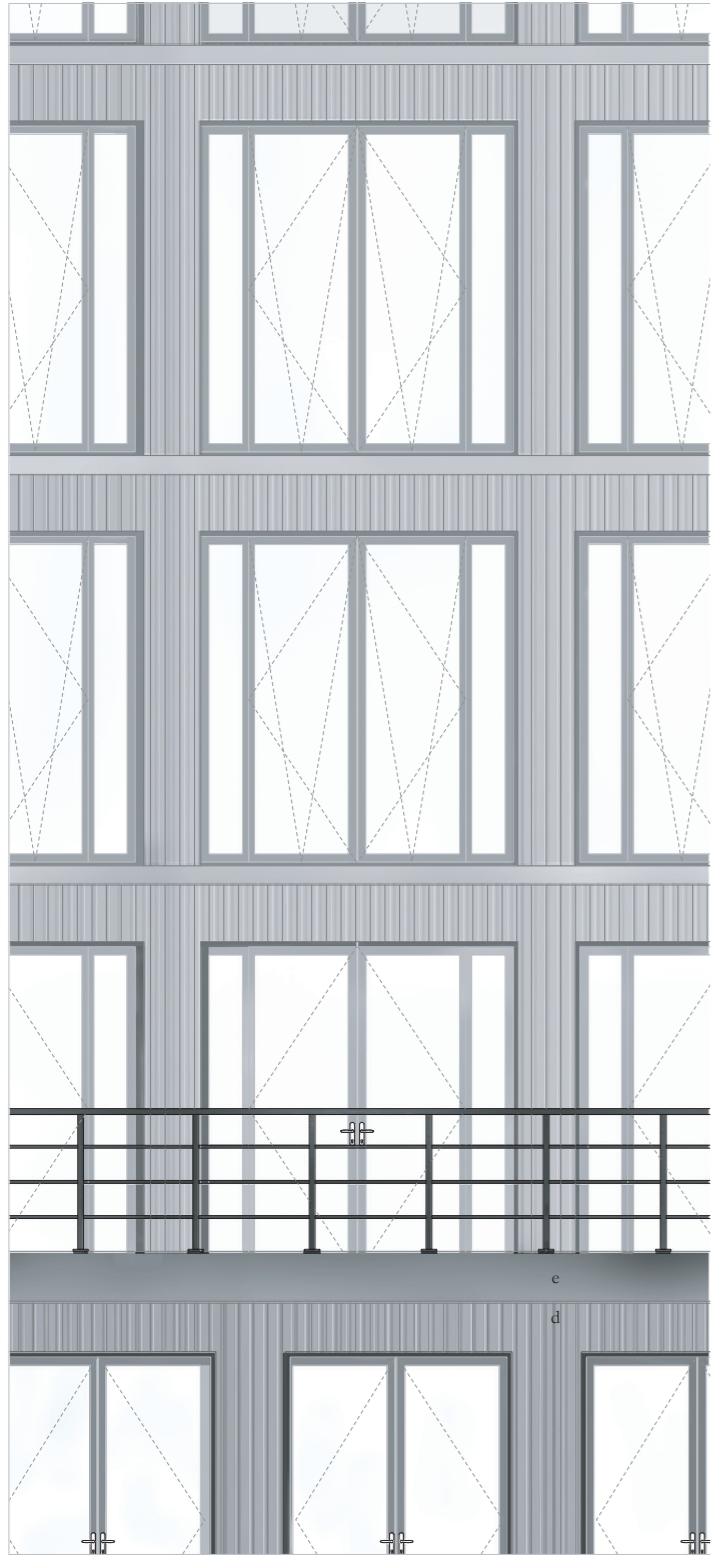


North Sea Parliament
Perforated screen | caisson box
Scale: 1.20@a1

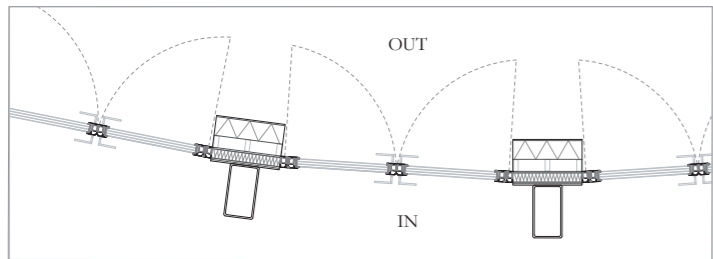
N
| 0 1m |



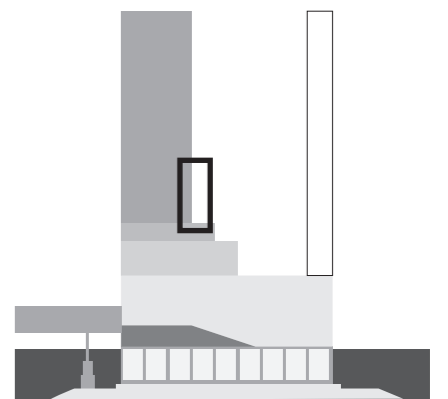
Inner courtyard
1.20@a1

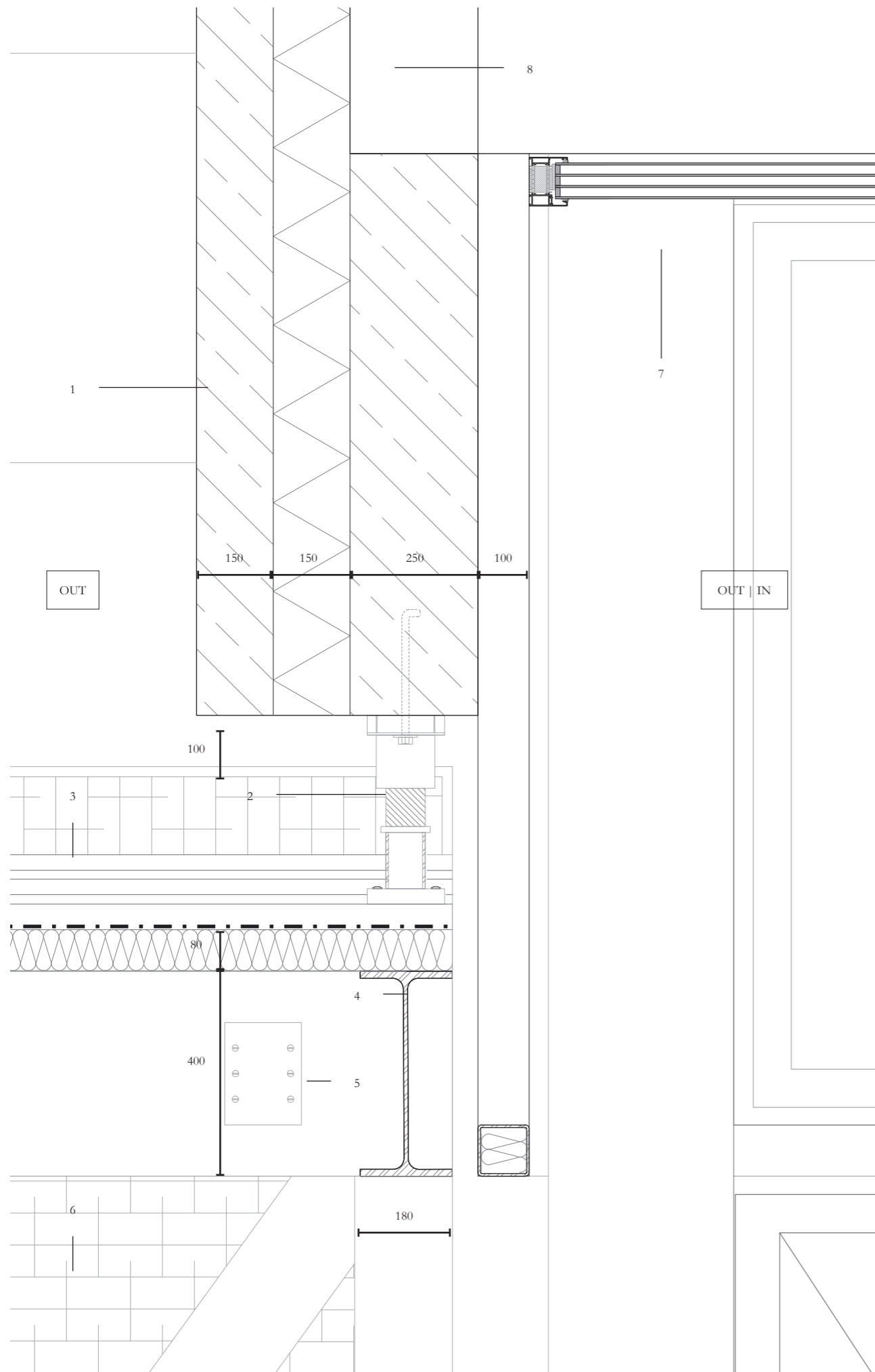


- a - Balcony
- b - Steel structure column
- c - Interior space - hotel
- d - Corrugated metal façade
- e - metal trim - to hide gutter



North Sea Parliament
Inner courtyard
Scale: 1.20@a1

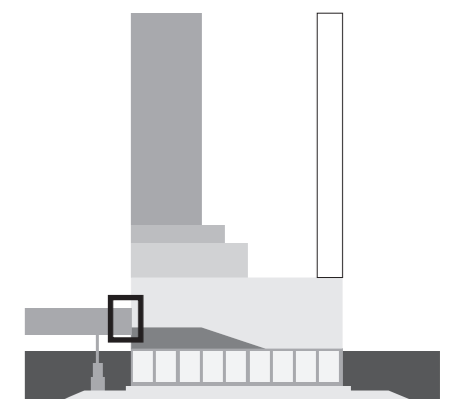


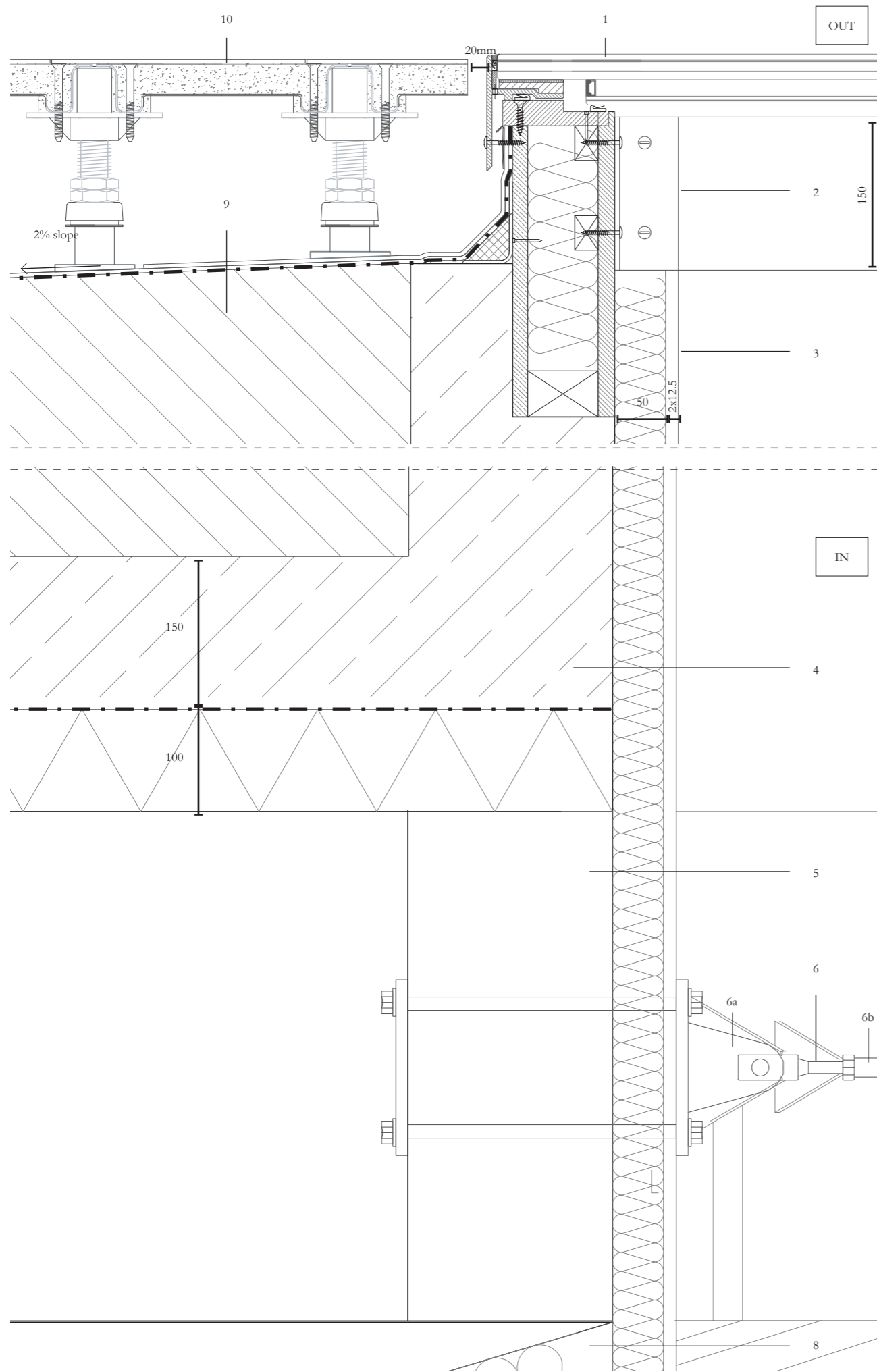


detail 01
1.10@a4

North Sea Parliament | Detail
Caisson box: footbridge connection detail

- 1 - Caisson box
 - 150 mm reinforced concrete
 - 150 mm rigid insulation
 - 250 mm reinforced concrete
- 2 - Loading jack (connection between footbridge and caisson box)
- 3 - Cold flat roof
 - Preformed edge detail
 - Waterproof membrane
 - 15 mm plywood sheet
 - Steel box joists
 - 12.5 mm gypsum board
- 4 - 400x180mm I beam
- 5 - Loading jack connection plate
- 6 - Perforated mesh panel
- 7 - Glass vestibule lobby (thermal transition space between outside footbridge and inside caisson box) quad-pane insulated glass panel in steel framed box
- 8 - 5000 mm height cantilevered assembly truss

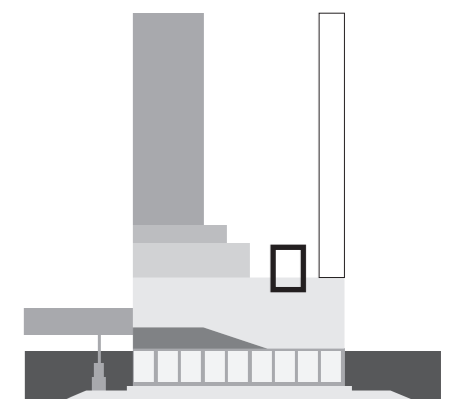


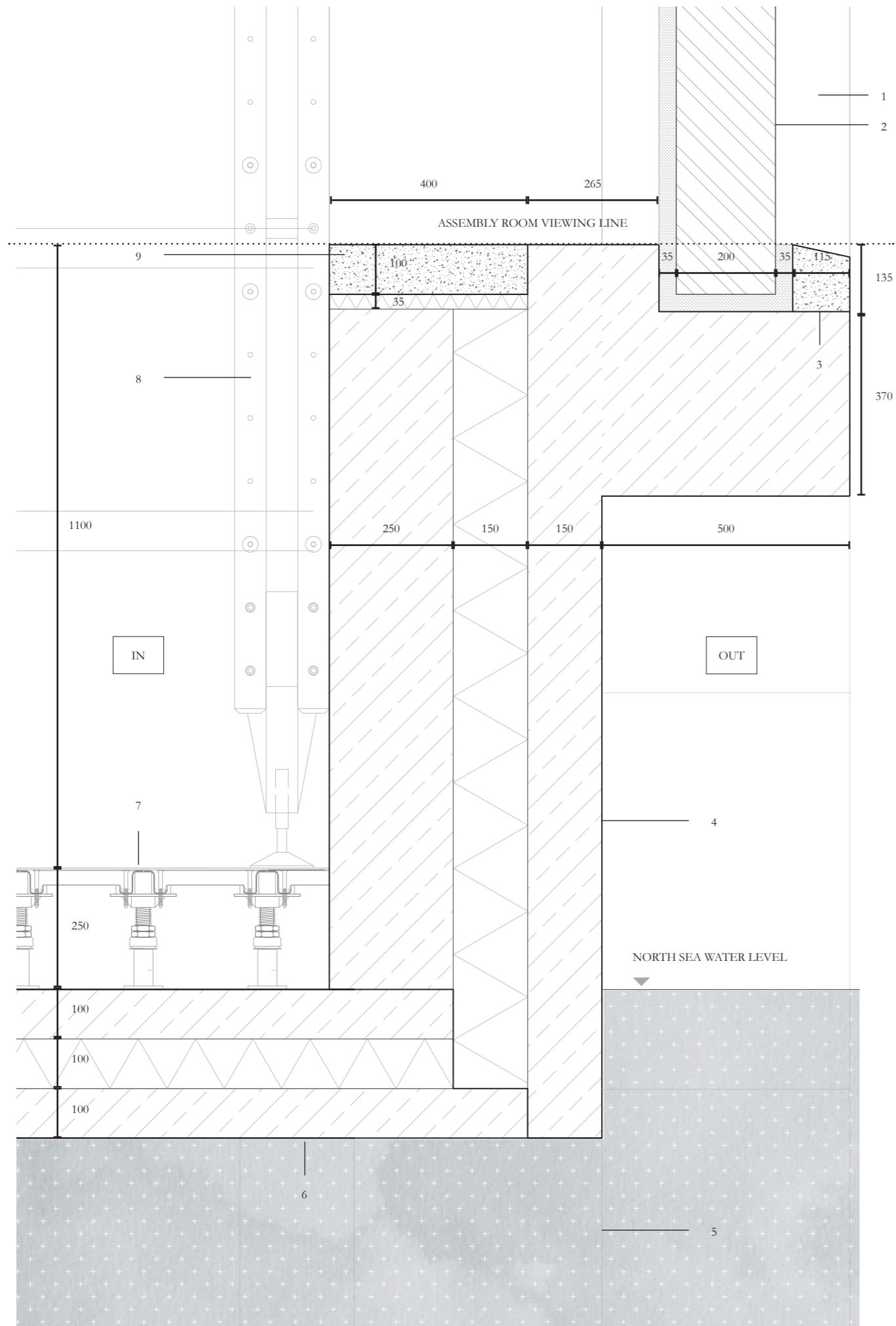


detail 02
1.10 @ a 4

North Sea Parliament | Detail
Caisson box: roof window

- 1 - Glass walk-on roof, triple glazed pane laminated stepped glass unit with 6mm double glazed panel attached
- 2 - Structural glass fin to support glass walk on assembly room roof (1)
- 3 - 50mm soft insulation
2x12.5 mm plasterboard
- 4 - Reinforced concrete caisson box "cap"
150 mm reinforced concrete
Waterproof membrane
100 mm rigid insulation
- 5 - 5000 mm height cantilevered assembly truss
- 6 - Tension rod (additional support to tie lock the assembly trusses to the screen and prevent unwanted horizontal movement)
6a - Turn buckle set
6b - S bracket
- 7 - Assembly room interior ceiling
120 mm soft insulation
2x12.5 mm plasterboard
- 8 - Acoustic insulation for assembly room
- 9 - Caisson box roof
Concrete infill for grading of incline at 2%
Roof membrane
Waterproof membrane
- 10 - Raised exterior floor, with 20 mm gap for water to run off to gutter. Rain water to be collected for grey water cycle.





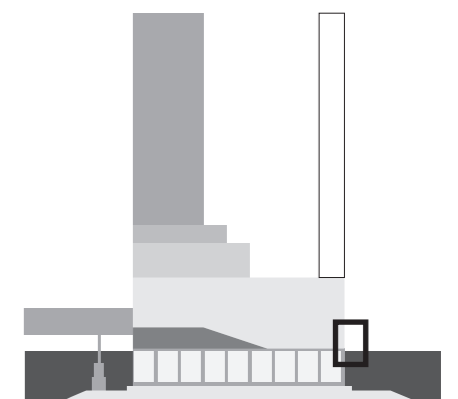
detail 03
1.10@a4

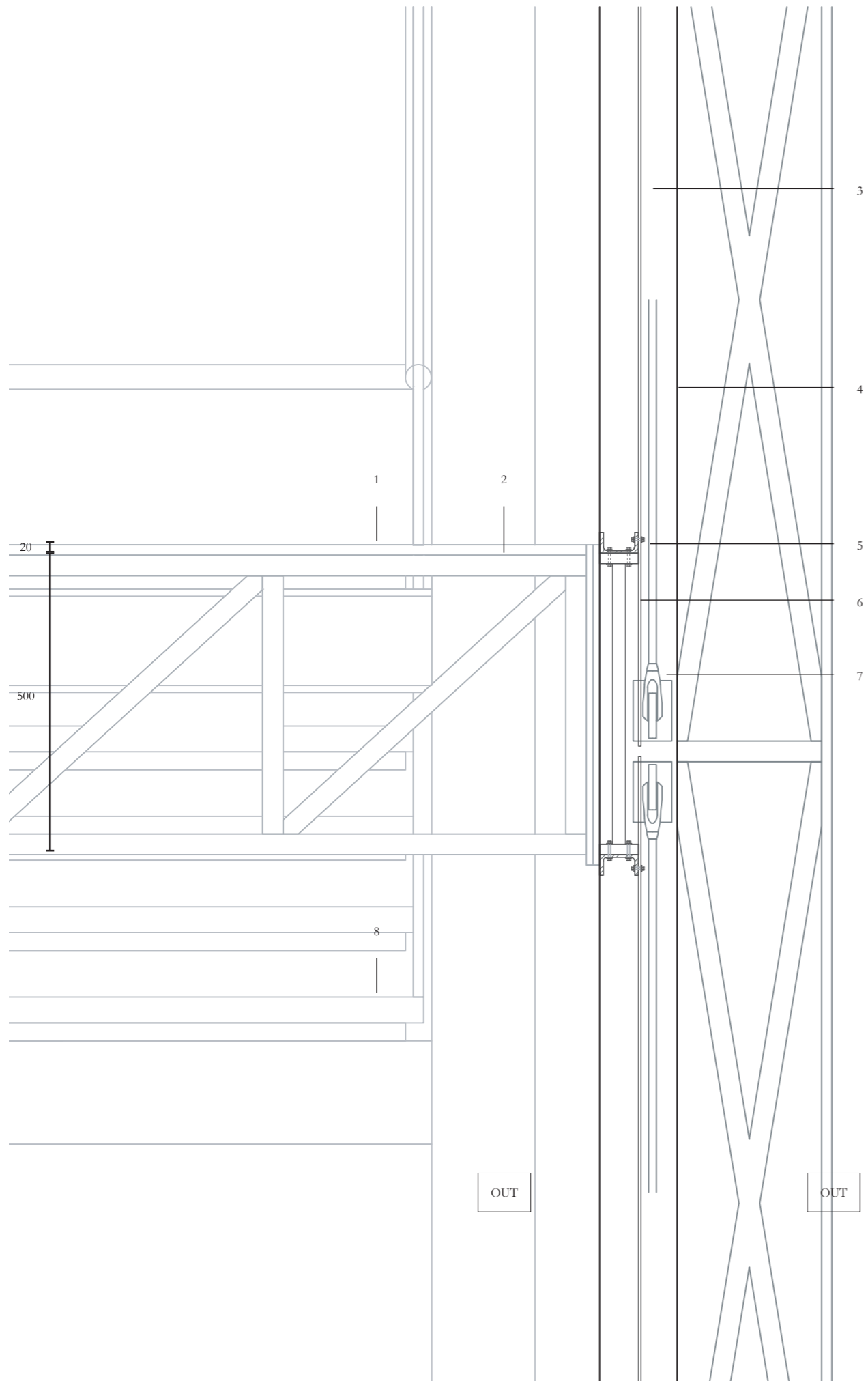
North Sea Parliament | Detail
Caisson box: assembly room window

- 1 - Caisson box outer edge
- 2 - Assembly room window
200 mm acrylic glass
30 mm sealant
5 mm epoxy resin, to waterproof concrete
- 3 - Concrete window sill, to be added after installation of assembly window
- 4 - Caisson box wall build-up
250 mm reinforced concrete
150 mm insulation
150 mm reinforced concrete
- 5 - Open caisson box foundation compartment
- 6 - Caisson box floor build-up
100 mm reinforced concrete
100 mm rigid insulation
100 mm reinforced concrete
- 7 - Raised access "stage" floor
- 8 - Backstage bookcase
- 9 - Interior window sill
100 mm concrete window sill
35 mm insulation

Installation of assembly room window (on floating dock)

1. Check the concrete is completely dry
2. Apply 5mm if epoxy waterproof treatment on the surface frame of the window, let this dry completely
3. Check the waterproof coating is correct, lift the acrylic glass panel into place, if the bottom of the slot is not completely flat, adjust with a pad then fill the sealant between the concrete and acrylic glass.
4. After 1 week the window is waterproof
5. Add the window sill to finish the exterior.

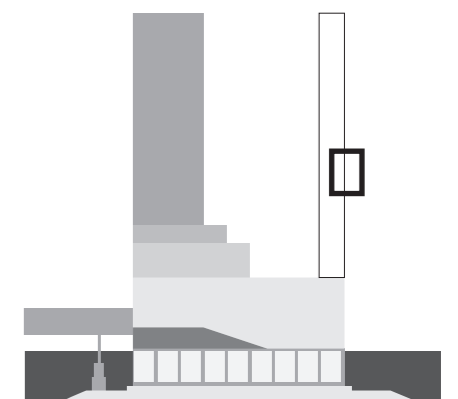




detail 04
1.10 @ a 4

North Sea Parliament | Detail
Steel structure: screen balcony

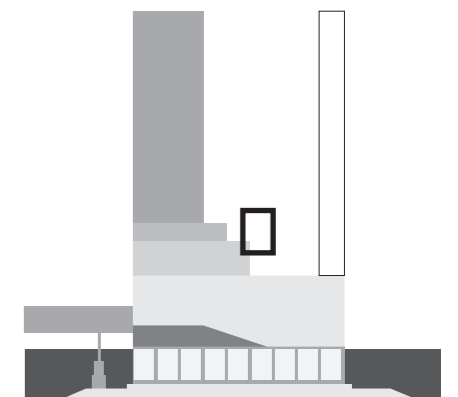
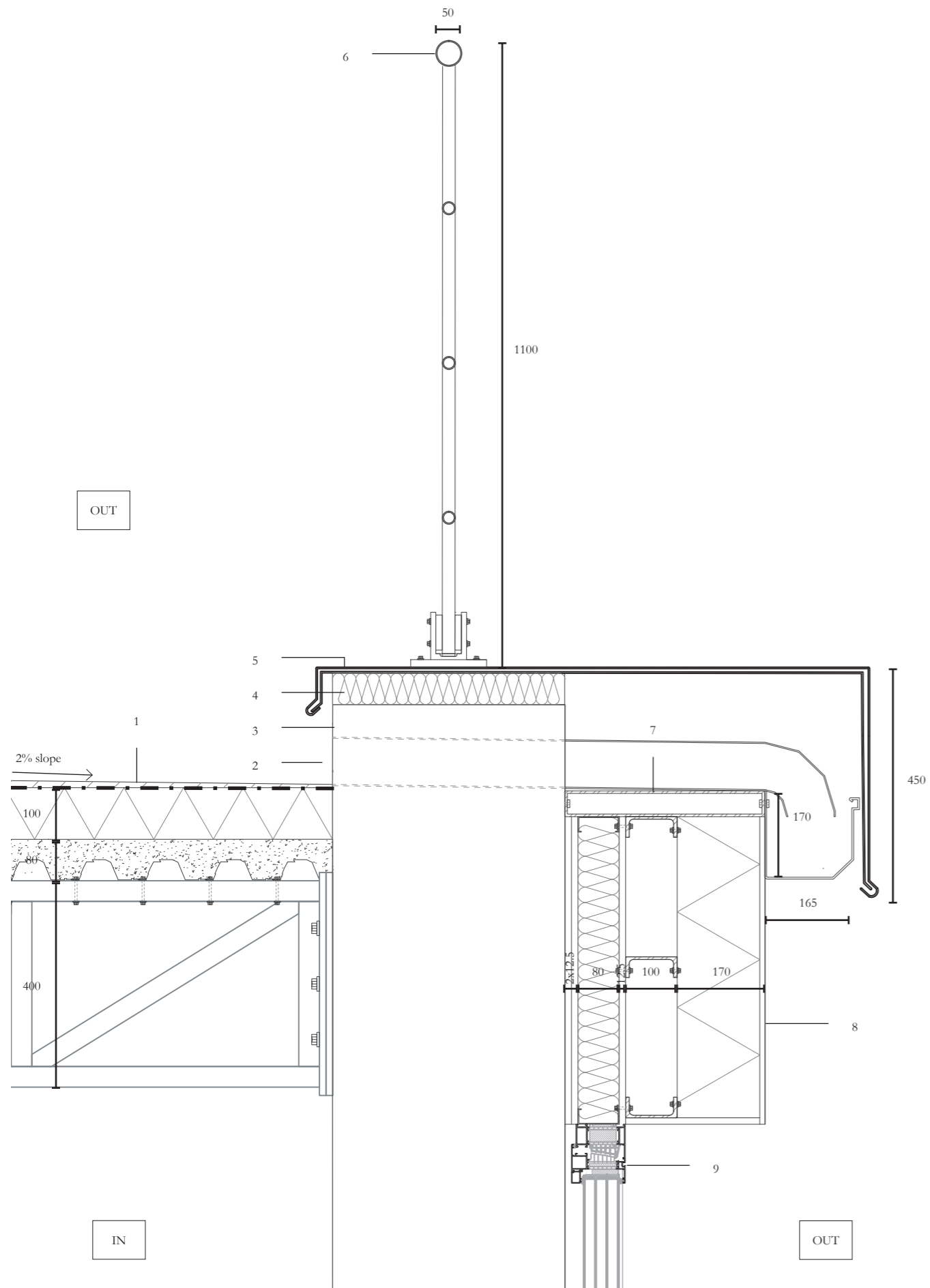
- 1 - 20 mm perforated steel deck
- 2 - 500 mm gasholder screen pratt truss, secondary structure
- 3 - 5 mm perforated metal mesh façade panel
- 4 - 7000 mm gasholder structure column
- 5 - 40x75 mm c channel fixing to perforated façade and gasholder truss
- 6 - 500 mm I beam open web design, gasholder truss secondary structure
- 7 - 15 mm tension rod cable between each gasholder column
- 8 - Stairs

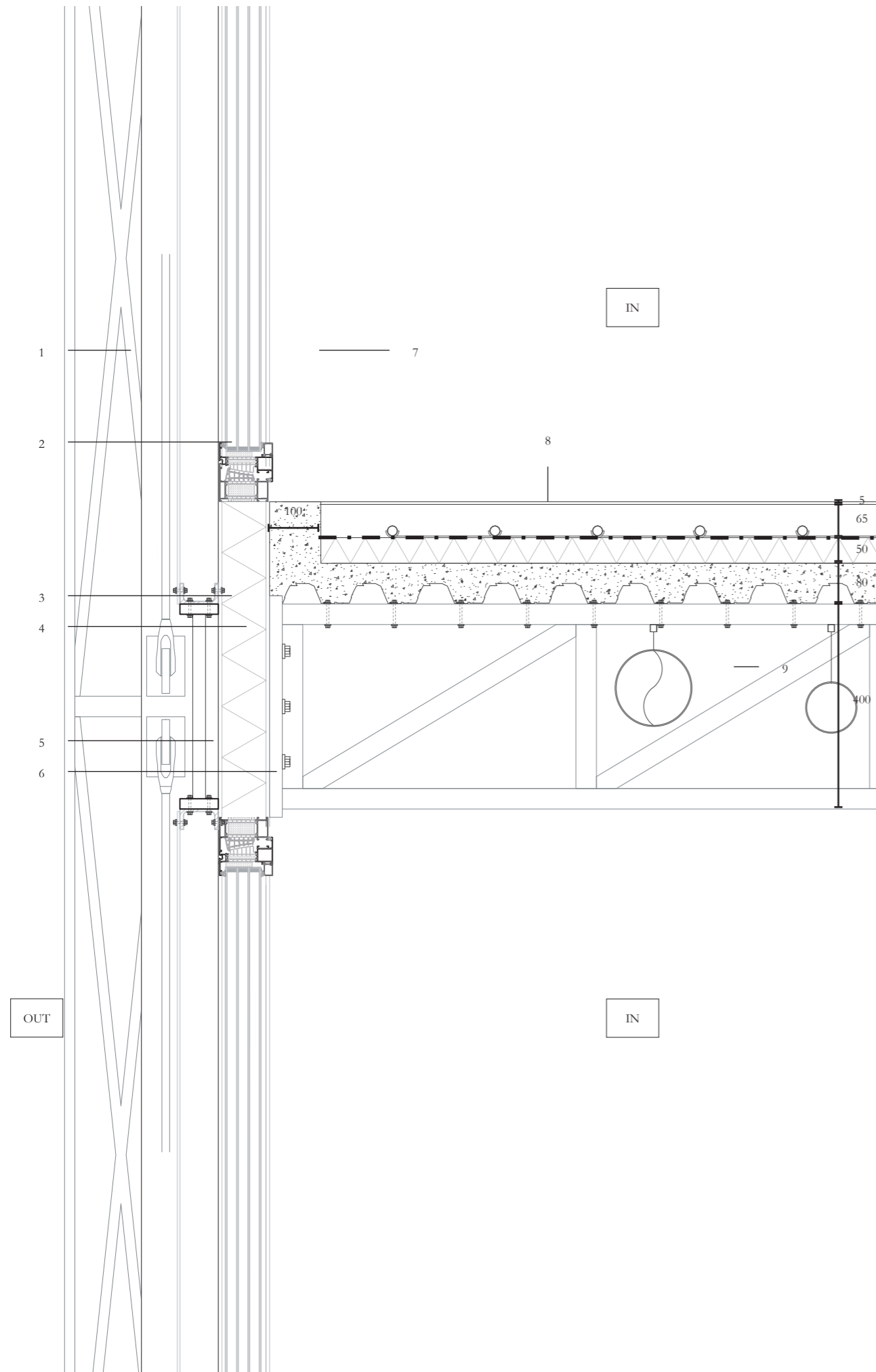


detail 05
1.10@a3

North Sea Parliament | Detail
Steel structure: Courtyard balcony

- 1 - Balcony roof build up
 Concrete infill for grading of incline at 2%
 Waterproof membrane
 100 mm rigid insulation
 80 mm reinforced concrete deck
 400 mm pratt truss
- 2 - \varnothing 90 mm rainwater pipe (attached to RHC)
- 3 - Rectangular hollow column (RHC), size varies between levels
- 4 - 60 mm insulation cap
- 5 - Aluminium galvanised parapet coping
- 6 - 1100 mm steel tube balcony
- 7 - Steel box to attach for gutter support
- 8 - Typical exterior courtyard wall build-up
 2x12.5 mm plasterboard
 80 mm soft insulation
 100 mm c channel façade fixing
- 9 - Outward swing door
 M3-104 passive aero quad
 70 mm quad pane insulative glass with 3 E-coatings
 Sound protection
 Draft and water resistance
 High thermal insulation for passive house

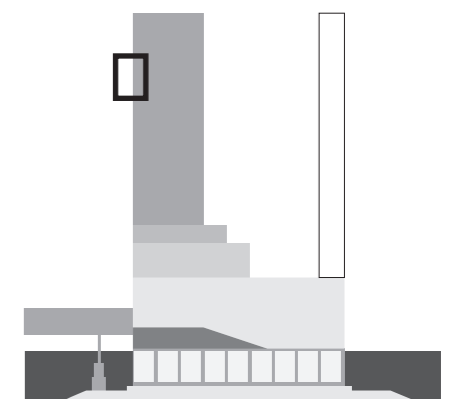


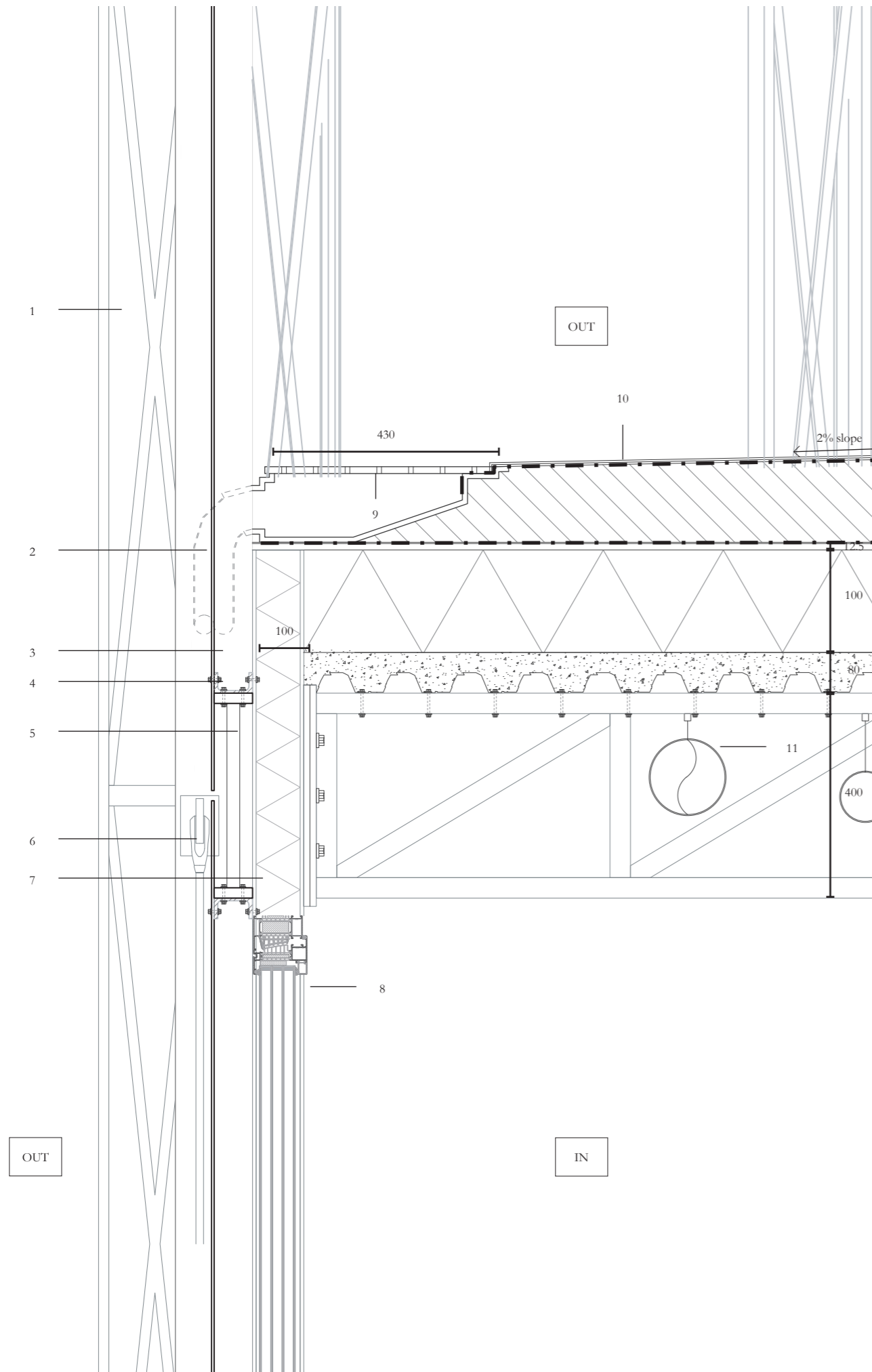


detail 06
1.10@a4

North Sea Parliament | Detail
Steel structure: floor-wall section detail

- 1 - 7000 mm gasholder column, primary structure
- 2 - 5 mm perforated metal mesh façade panel
- 3 - 40x75 mm c channel fixing to perforated façade and gasholder truss
- 4 - 400 mm gasholder typical pratt truss, secondary structure
- 5 - Tension rod
- 6 - Window structure
 100 mm I column
 100 mm insulation connection
- 7 - Quad pane insulative glass tilt/turn window
- 8 - Typical floor build up
 5 mm finish material
 65 mm screed
 ø 25 mm UFH pipes
 Cliprail
 Waterproof membrane
 80 mm reinforced concrete deck
 400 mm pratt truss
- 9 - Service ducts





detail 07
1.10@a4

North Sea Parliament | Detail
Steel structure: Roof detail

- 1 - 7000 mm gasholder column, primary structure
- 2 - ø 80 mm rainwater collection pipe, placed within the gasholder columns to the caisson box for the building's grey water cycle
- 3 - 5 mm perforated metal mesh façade panel
- 4 - 40x75 mm c channel fixing to perforated façade and gasholder truss
- 5 - 400 mm gasholder typical pratt truss, secondary structure
- 6 - Tension rod
- 7 - Window structure
 - 100 mm I column
 - 100 mm insulation connection
- 8 - Quad pane insulative glass tilt/turn window
- 9 - 430 mm rainwater collection gutter
- 10 - Typical roof build up
 - Roof membrane
 - Waterproof membrane
 - Concrete infill for grading of incline at 2%
 - Waterproof membrane
 - 12.5 mm gypsum board
 - 200 mm rigid insulation
 - 80 mm reinforced concrete deck
 - 400 mm pratt truss
- 11 - Service ducts

