BJORN VAN DIJK
P5
17 APRIL 2020



GOOGLE CAMPUS



MIDTOWN



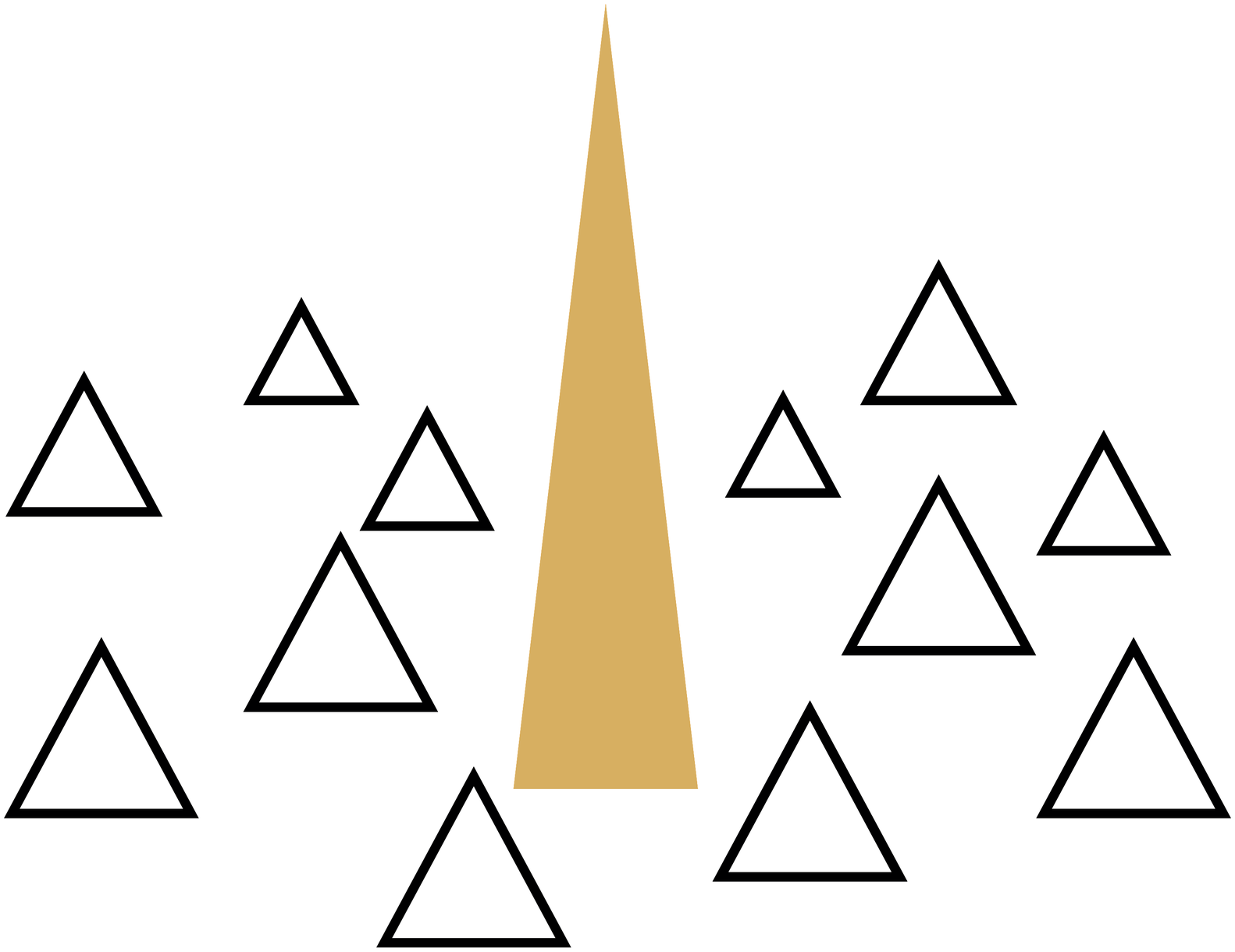

MetLife
MARINE & AVIATION
PIER 40
MARINE & AVIATION
PIER 40

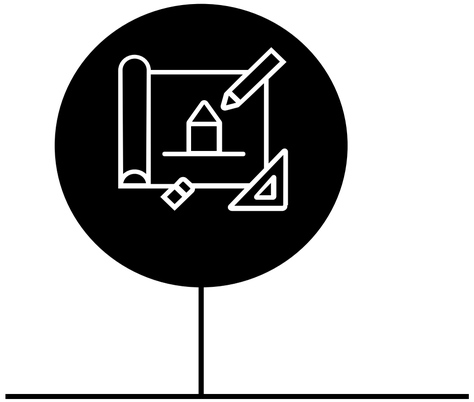



STARK

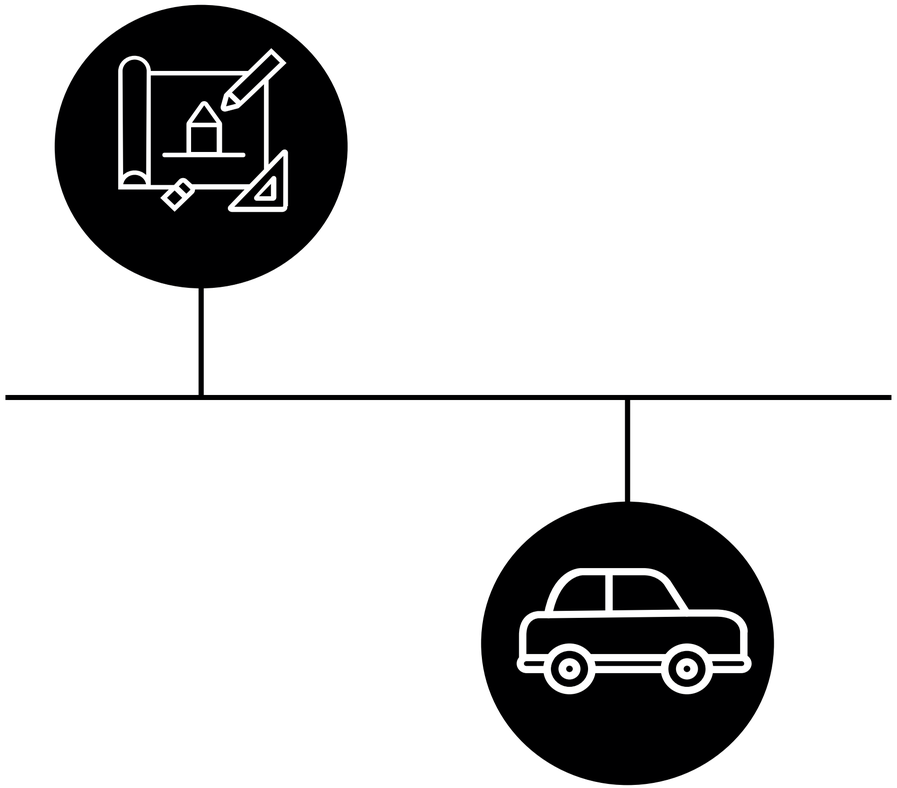



ONE HUDSON YARDS
RELATED RENTALS
RENT NOW
500.0800
EUGENE

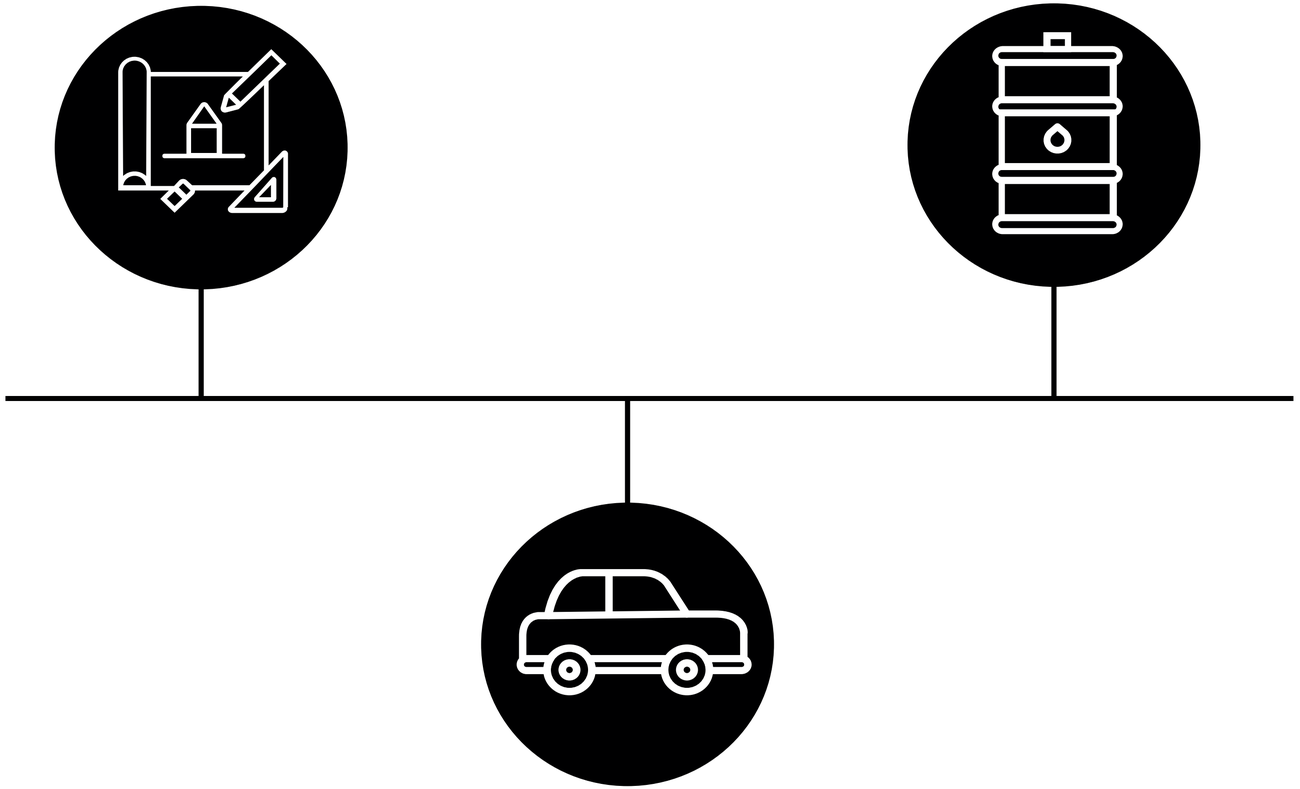




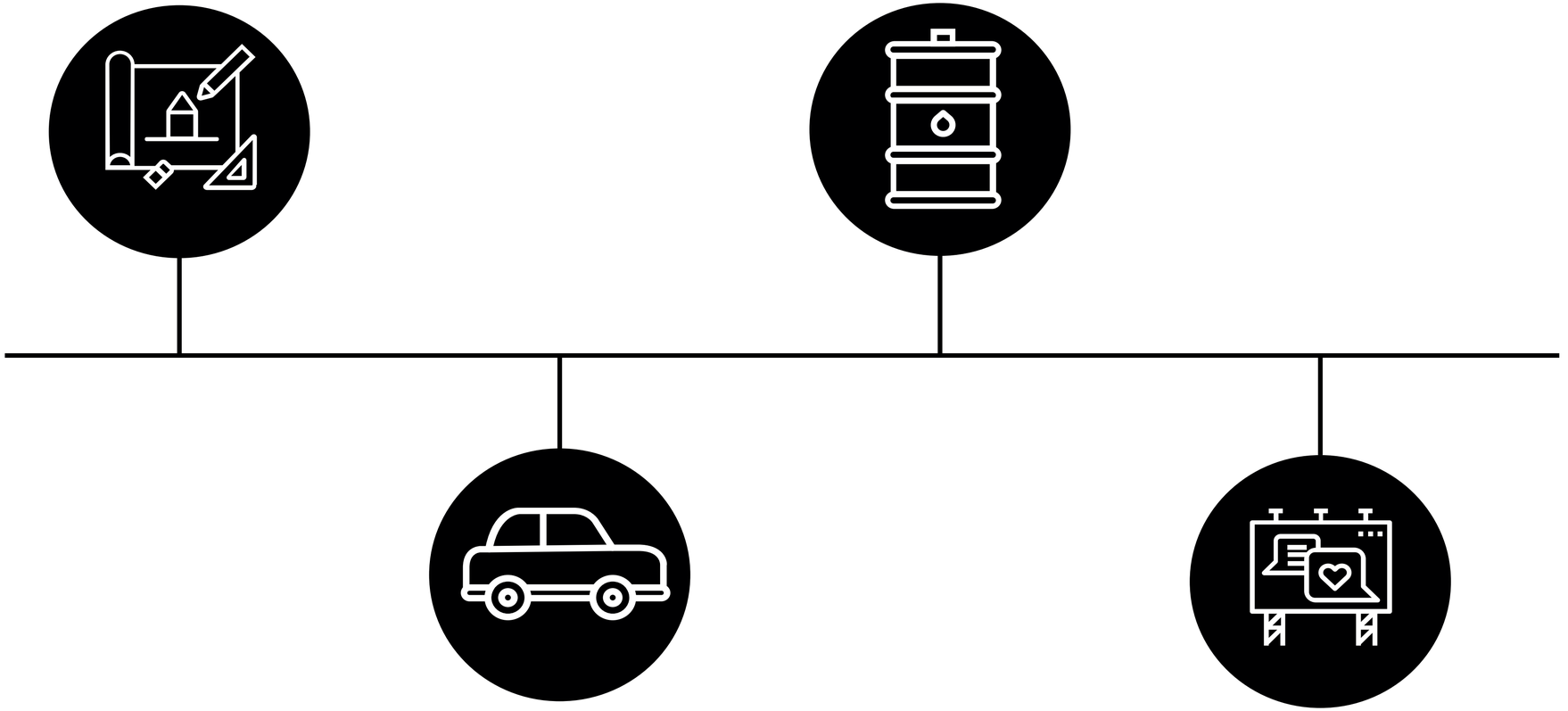

SOMEONE'S BEEN TO THE KOHLER EXPERIENCE CENTER
KOHLER
Shot on iPhone



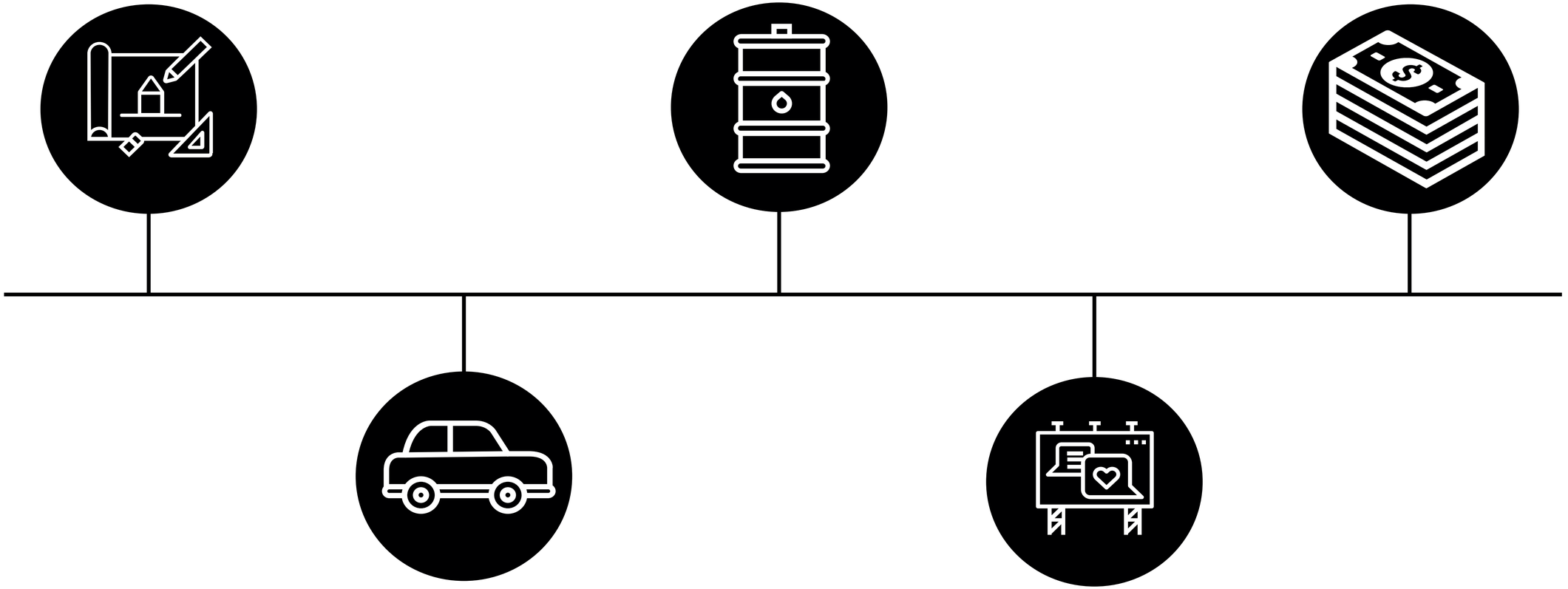




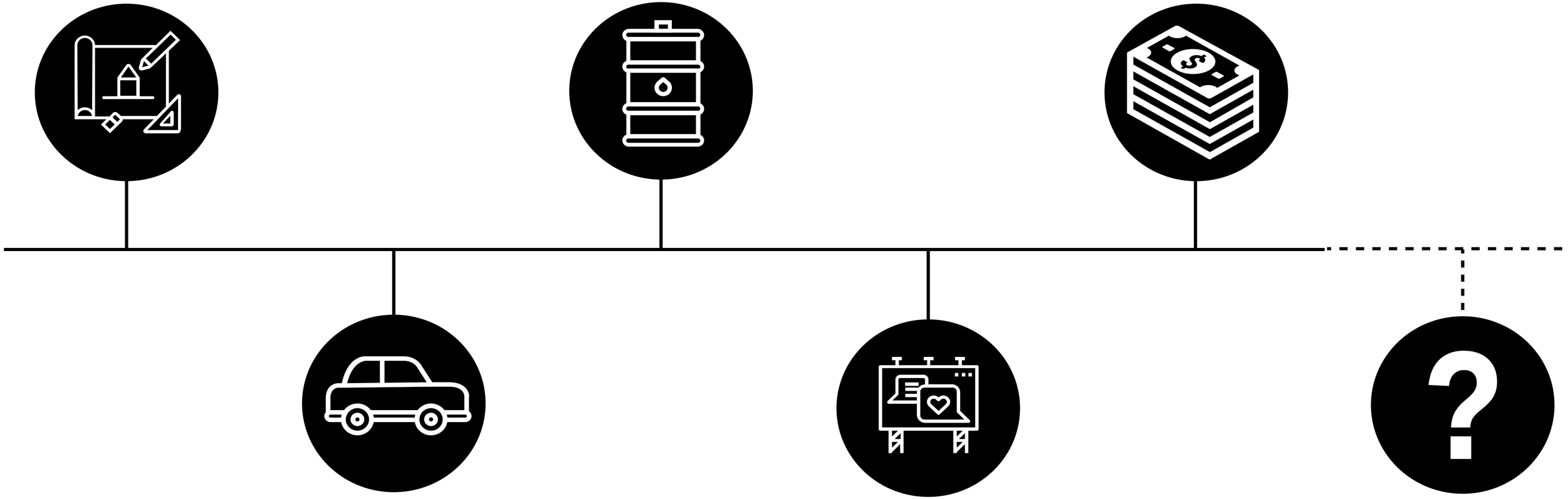

BUSES ONLY
MICHAEL KORS
COLE HAAN




IBM
IBM



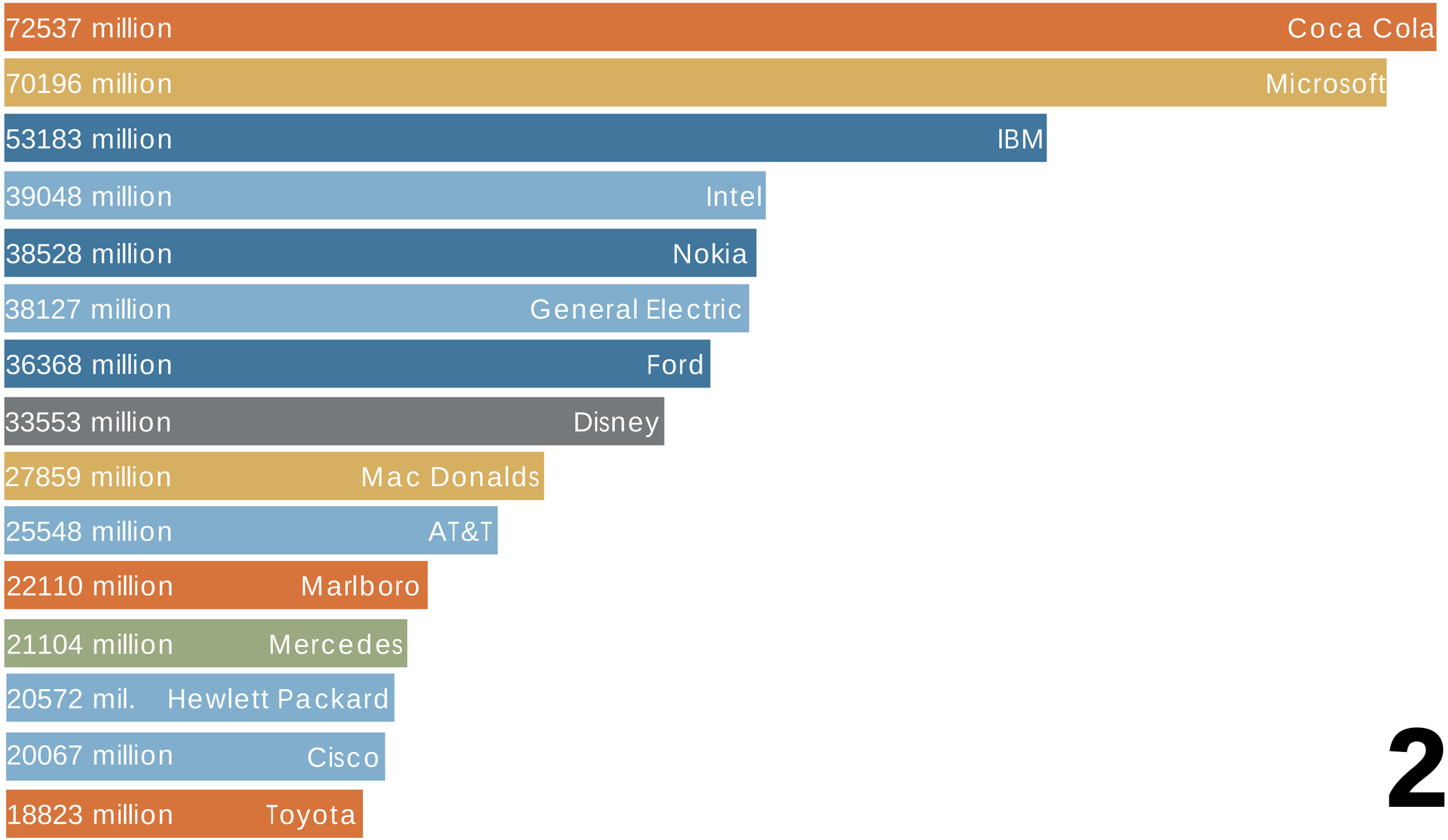





WHO’S NEXT?

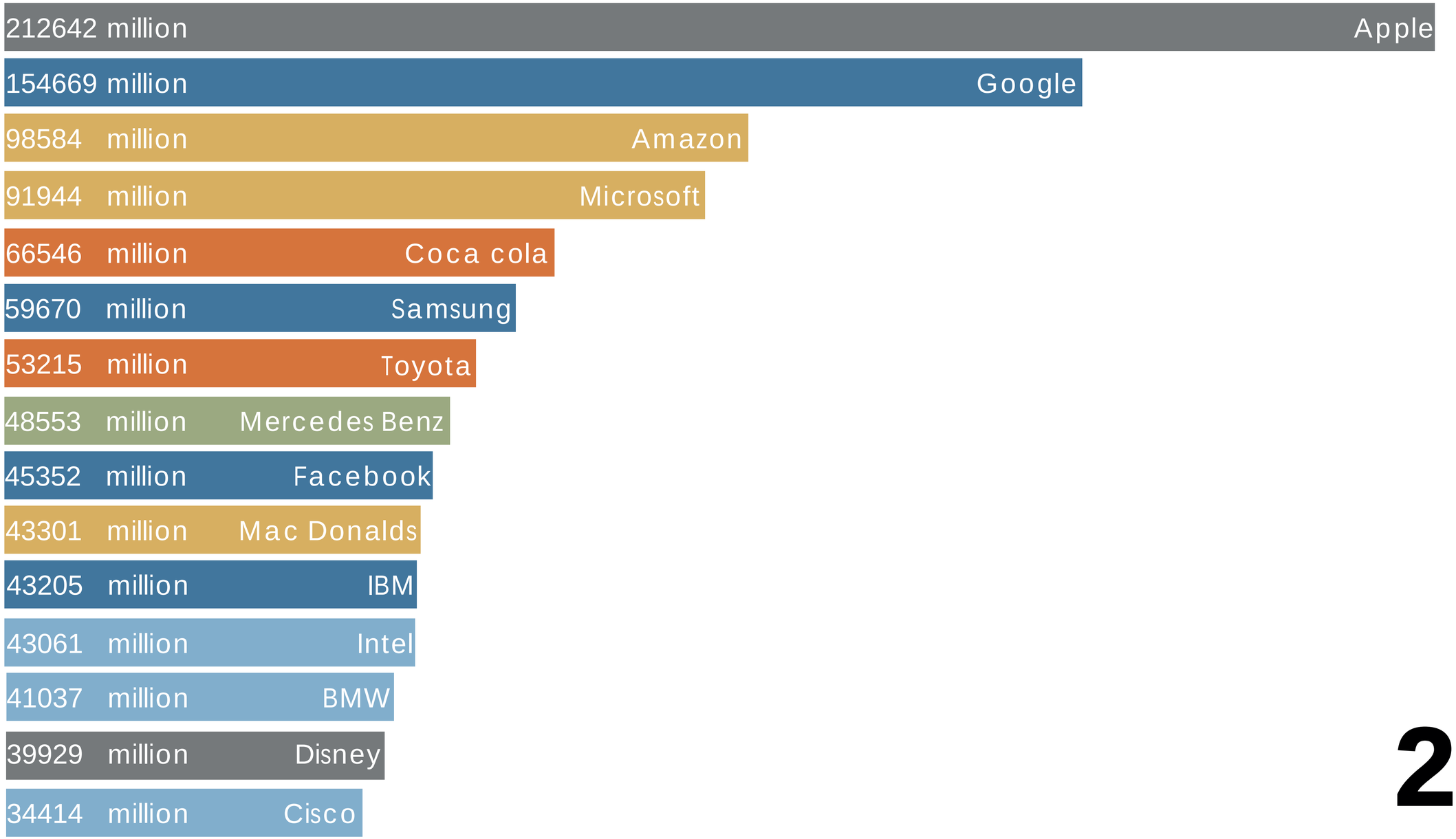

TECHNOLOGY

TOP 15 GLOBAL BRANDS



2000

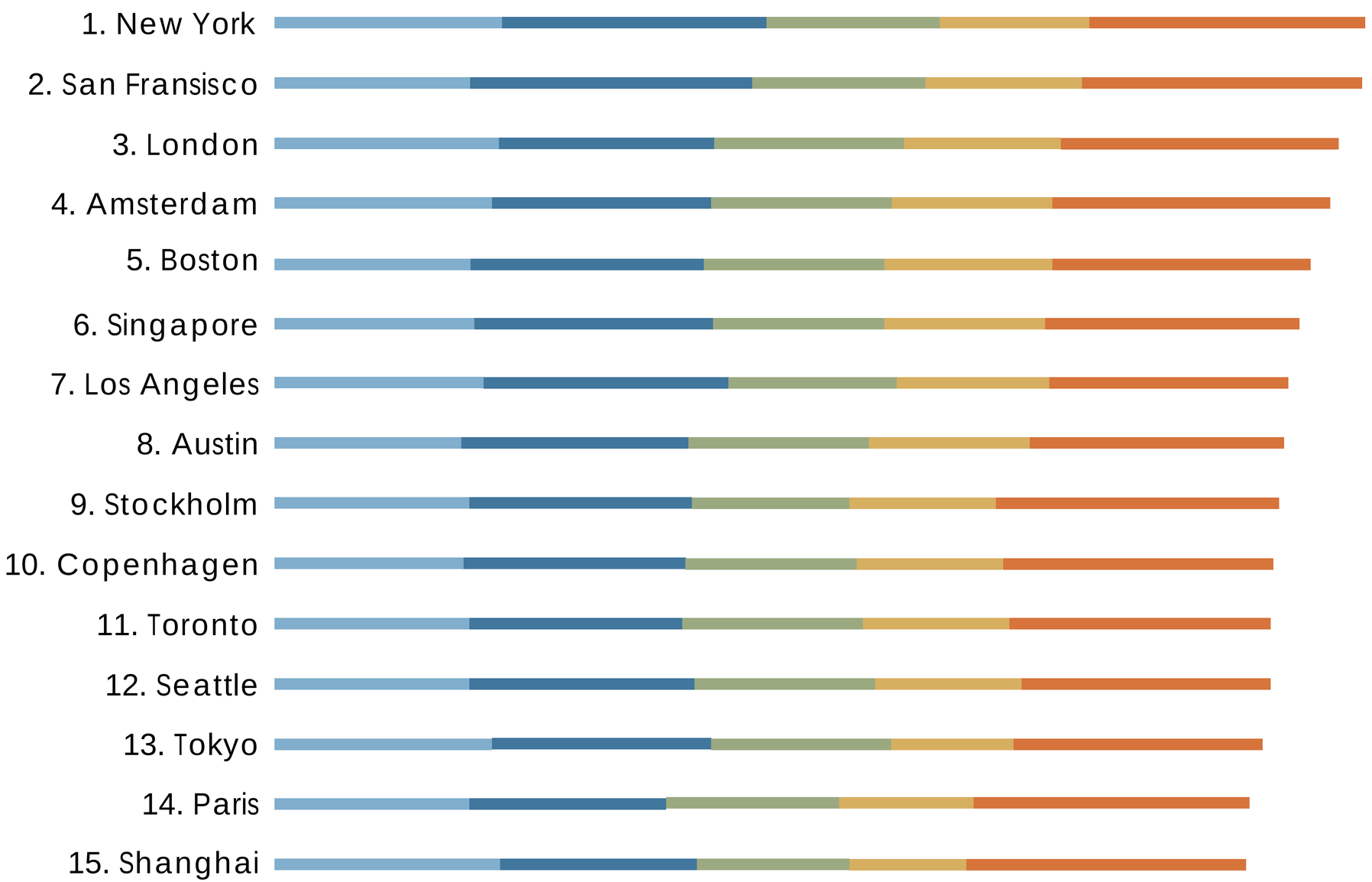
TOP 15 GLOBAL BRANDS



2018




The goal, Mr. Robertson said, was to ‘‘build a talent engine’’ that would help make the city a magnet for coders and companies.


1. New York
2. San Fransisco
3. London
4. Amsterdam
5. Boston
6. Singapore
7. Los Angeles
8. Austin
9. Stockholm
10. Copenhagen
11. Toronto
12. Seattle
13. Tokyo
14. Paris
15. Shanghai



Most venture capital investements



Most venture capital investements



Large tech talent pool



Most venture capital investements

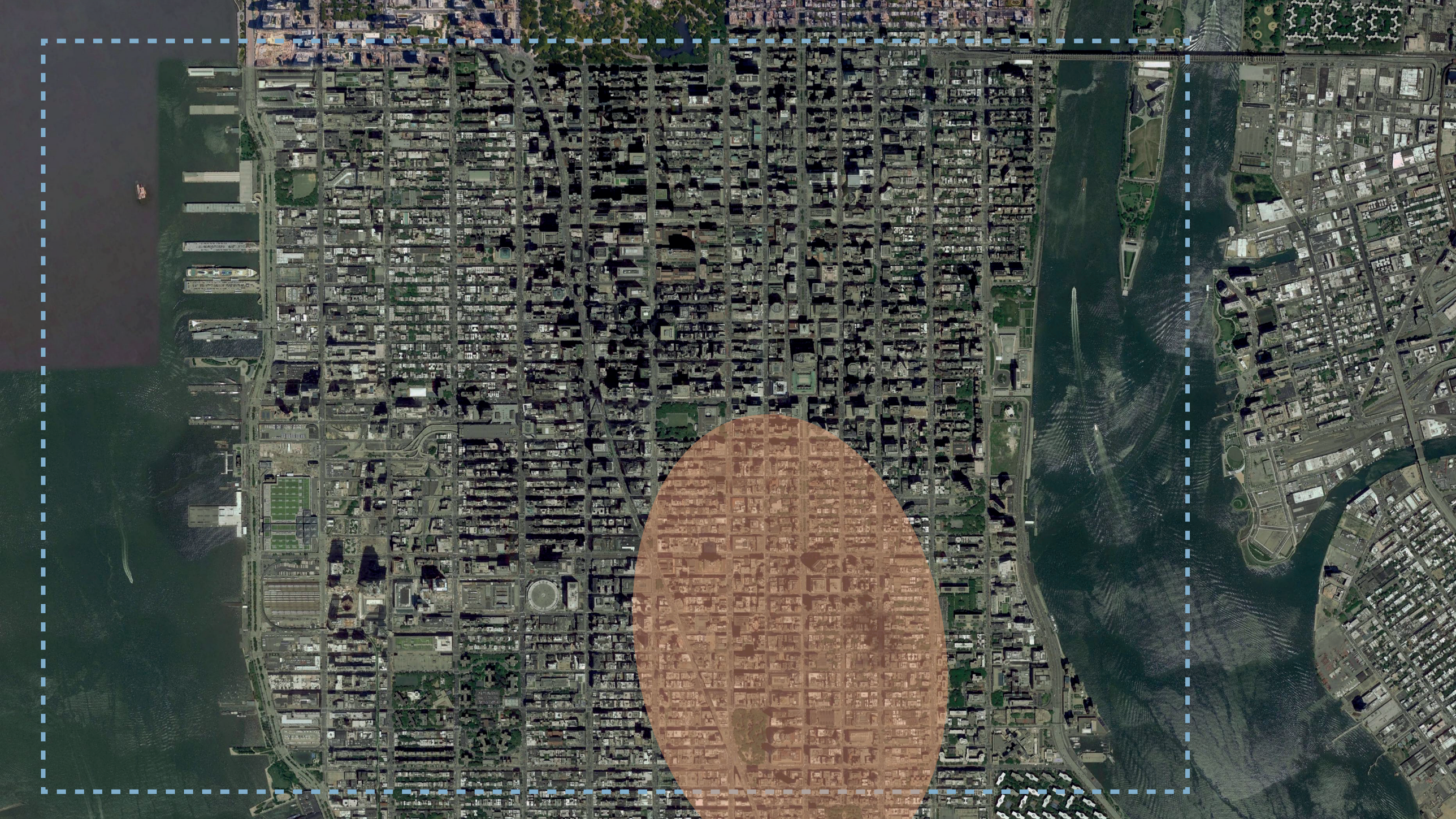


Large tech talent pool



Concentrated tech hub and incubators


DoubleClick
Welcomes you to
SILICON
ALLEY
www.doubleclick.n
:DCLK
6
ORIGIN

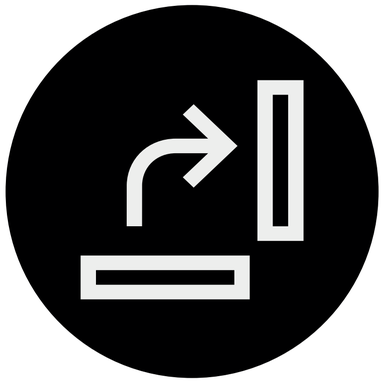




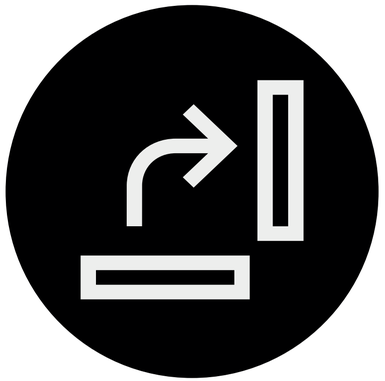








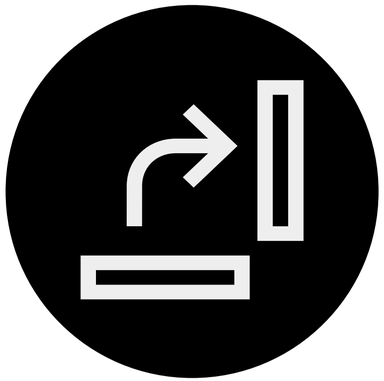
Adopt horizontal program



Adopt horizontal program



Google as catalyst for silicon alley



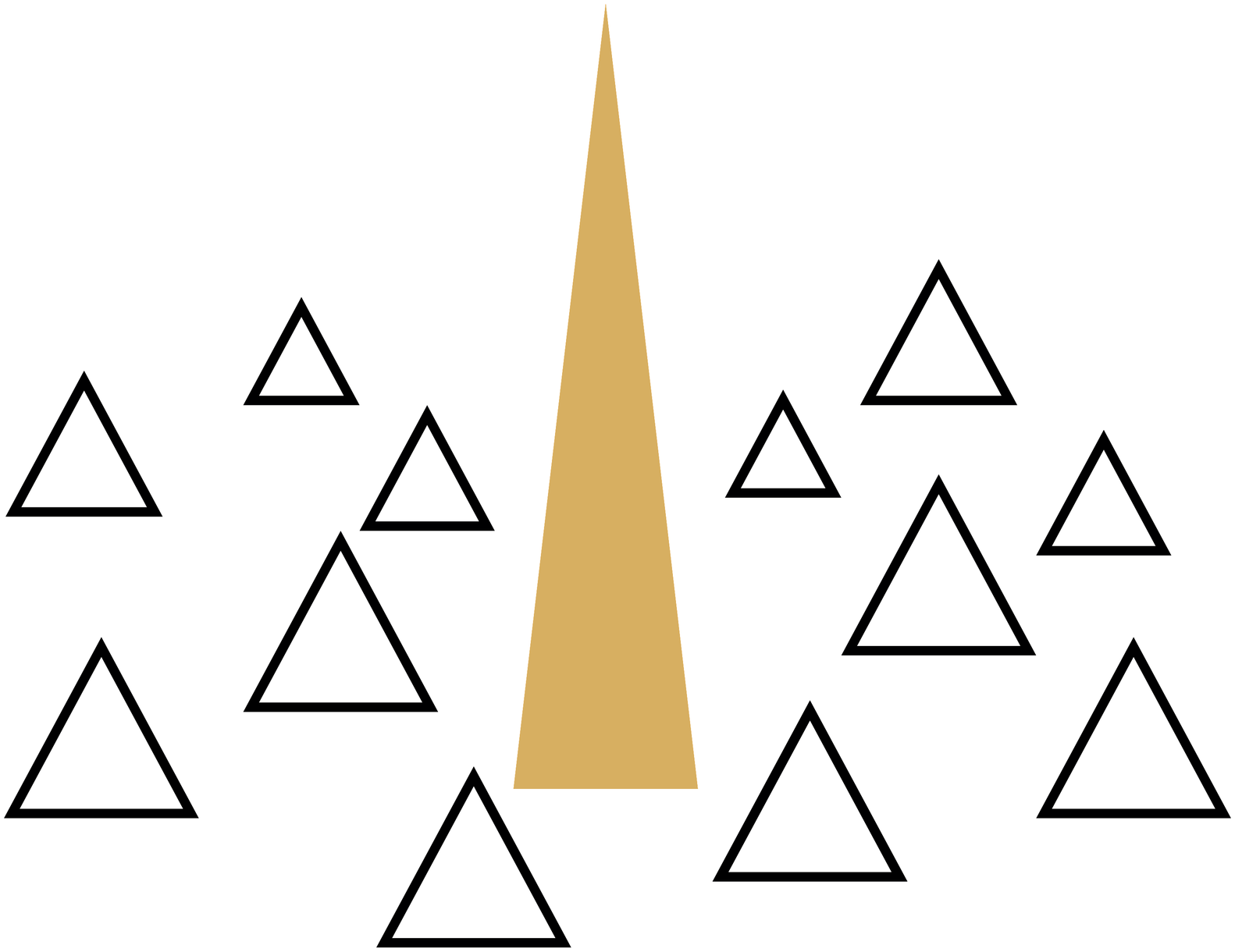
Adopt horizontal program



Google as catalyst for silicon alley

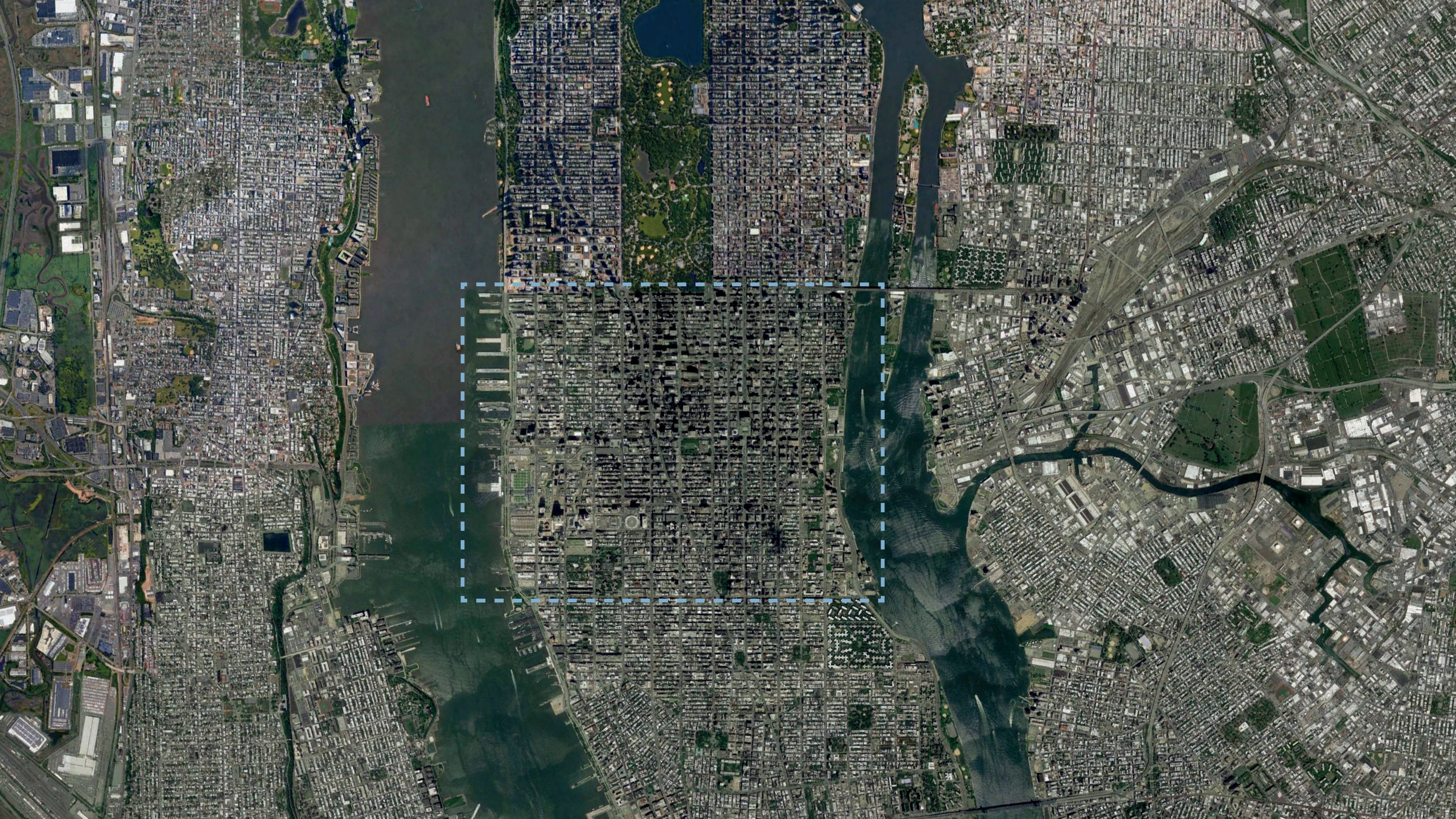


Promotion of Google within NYC

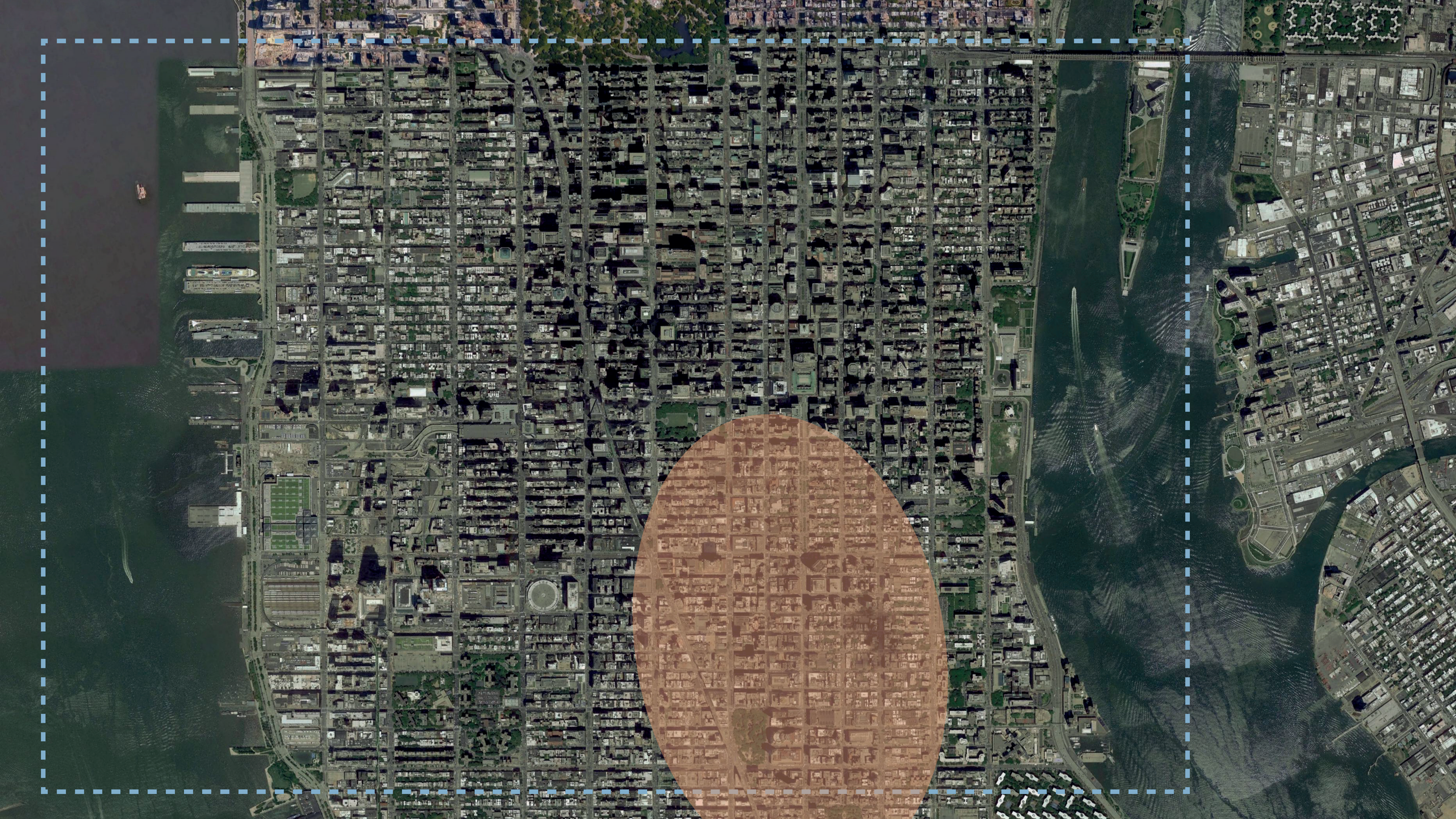


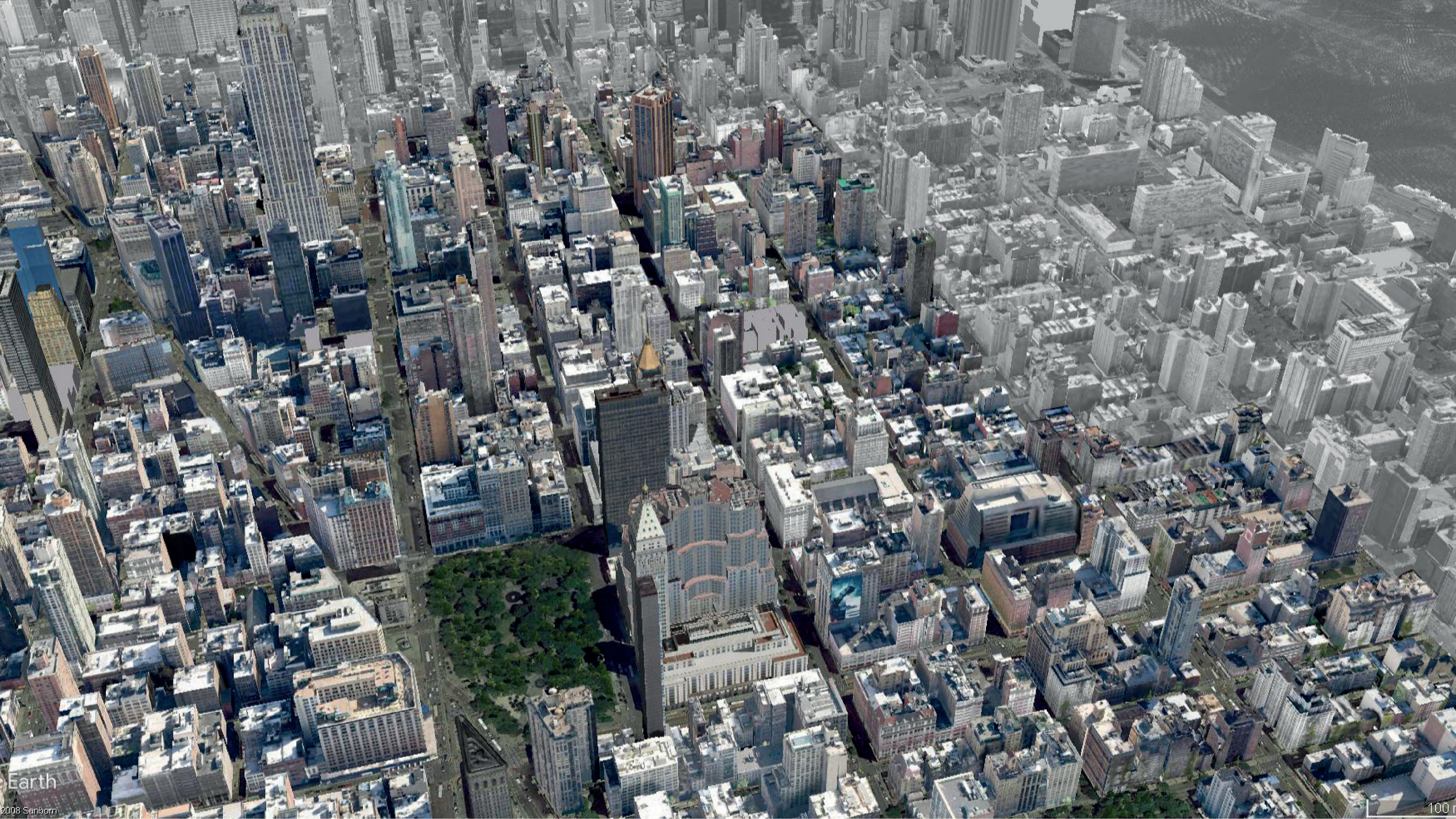

MetLife
MARINE & AVIATION
PIER 40
MARINE & AVIATION
PIER 40


Google





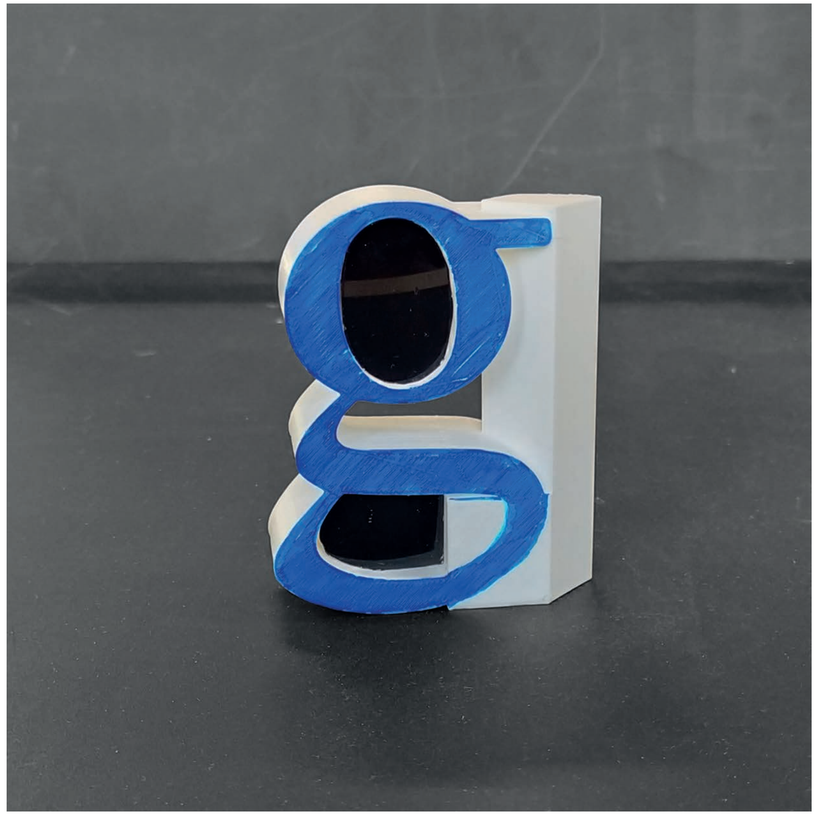


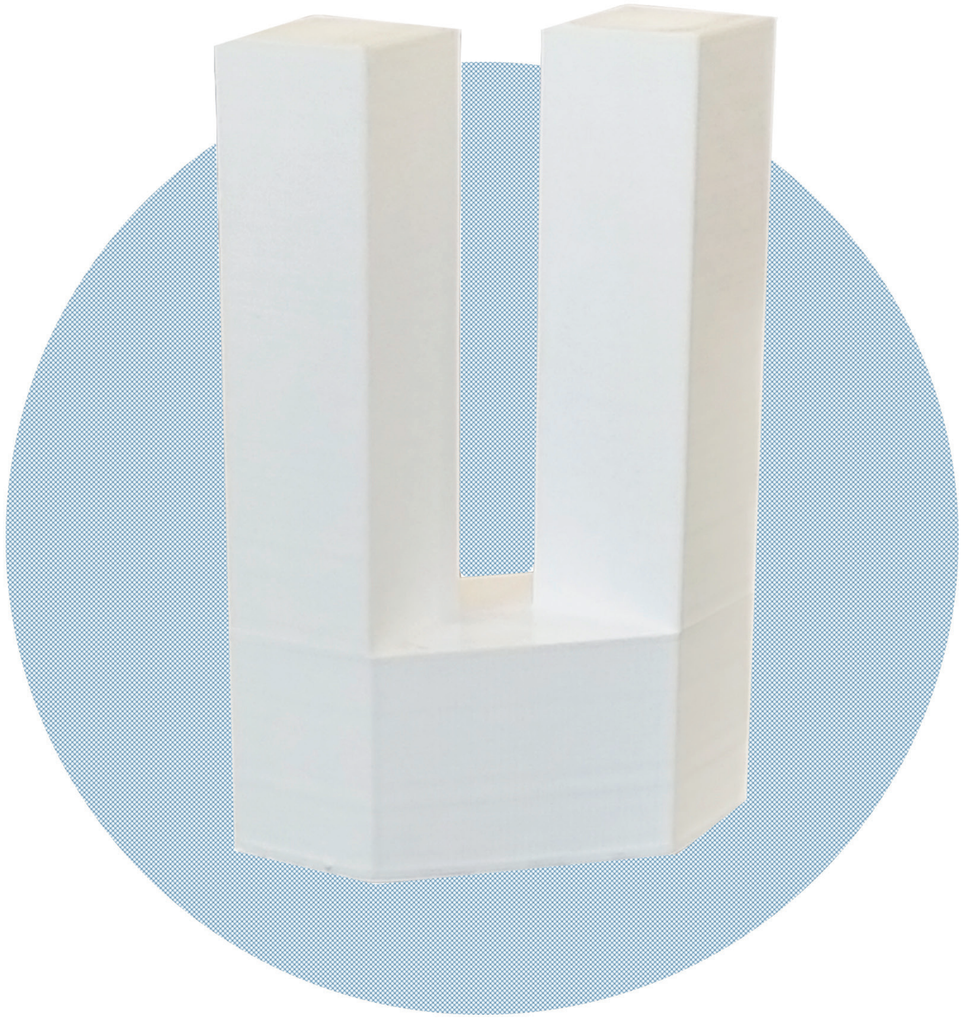

Earth
2008 Sanborn
100


Earth
2008 Sanborn
100









GOOGLE CAMPUS

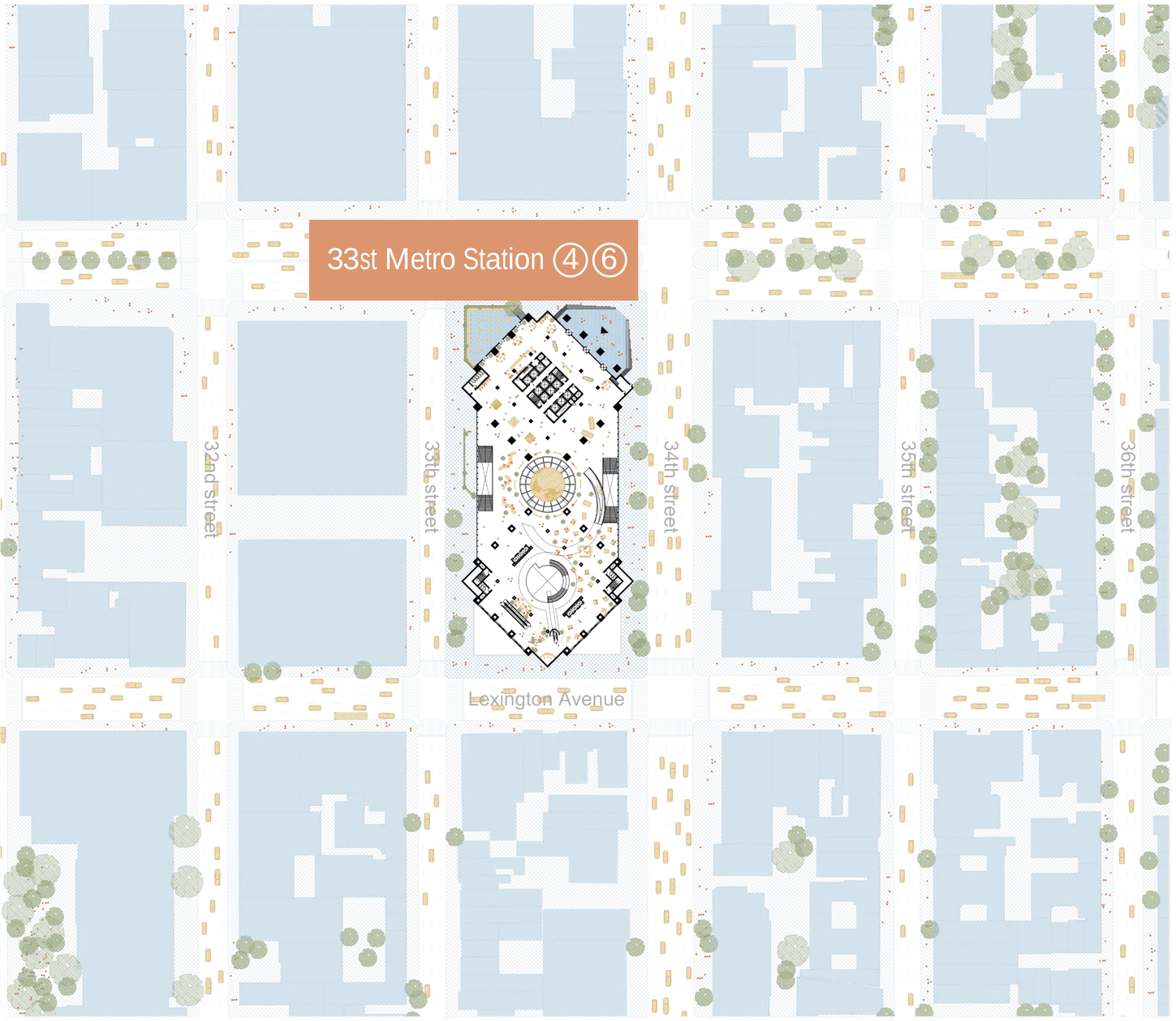
Roofplan



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 2000

36th street
35th street
34th street
Park Avenue
Lexington Avenue
33th street
32nd street


33st Metro Station ④⑥
32nd street
33th street
34th street
35th street
36th street
Lexington Avenue

PROGRAM

Alphabet



Calico
Research over life longevity. Life quality and expansion.

Nest
Smart Homes. IOT.

SideWalk
Urban Innovation. Smart cities. Solving urban problems.

GV
Venture Capital

X
Secretive Moonshots

Jigzaw
Technology Incubator por geopolitical challenges

Verily
Health Care and prevention research technologies

Deepmind
Artificial Intelligence research

Waymo
Self driving cars

Capital
Equity funds for portfolio companies

Access & Energy
Energy and Internet Access. Google Fiber

Google



- **Ads**
  - Search
  - Adwords
  - Adsense
- **Cloud**
  - GSuite
  - Maps
- **Youtube**
- **Android**
- **Hardware**
  - Home | Pixel
  - Chromecast
  - ATAP
- **Infrastructure**



Incedental meeting



Incedental meeting



Secondary activities



Incedental meeting



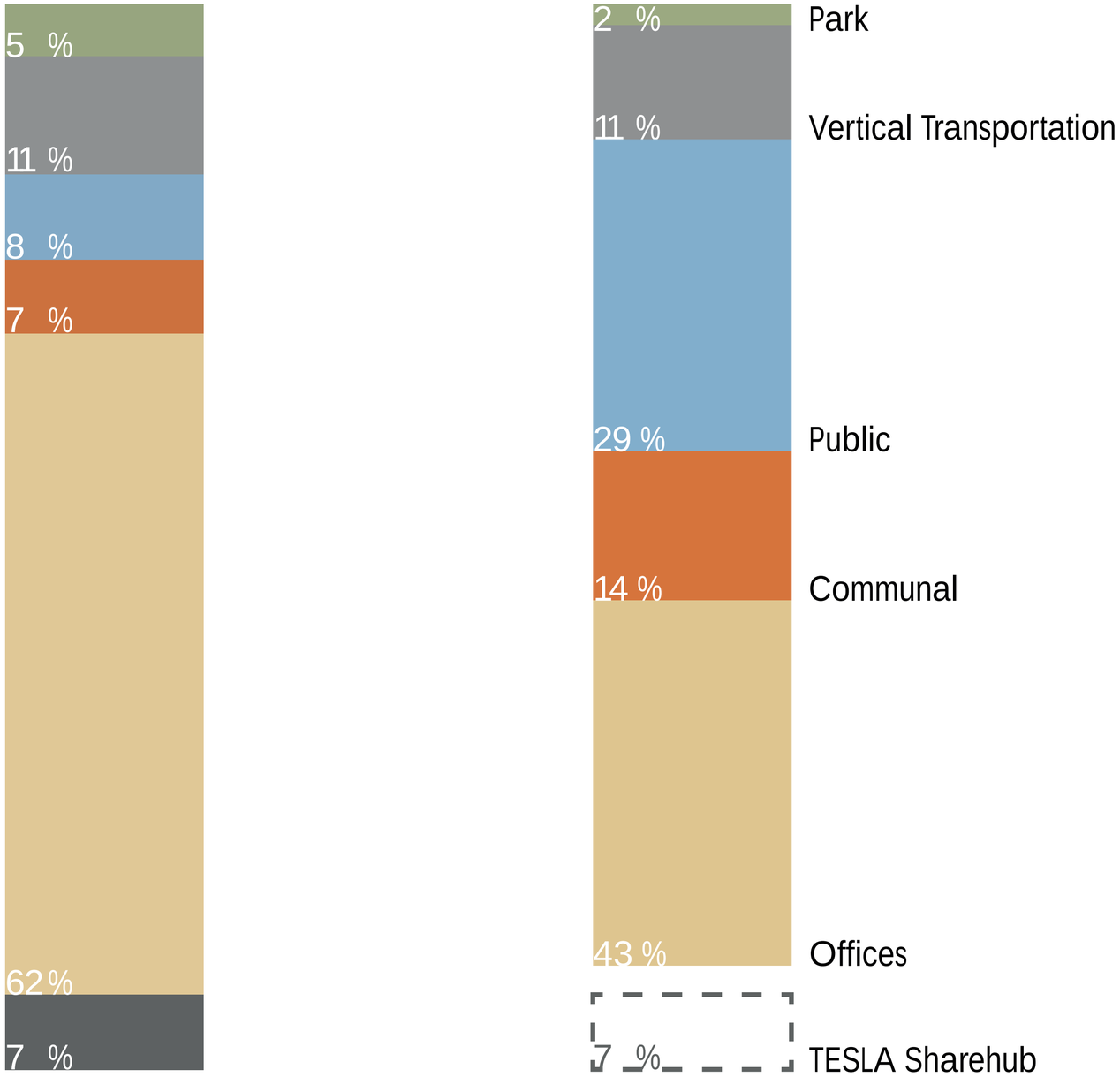
Secondary activities

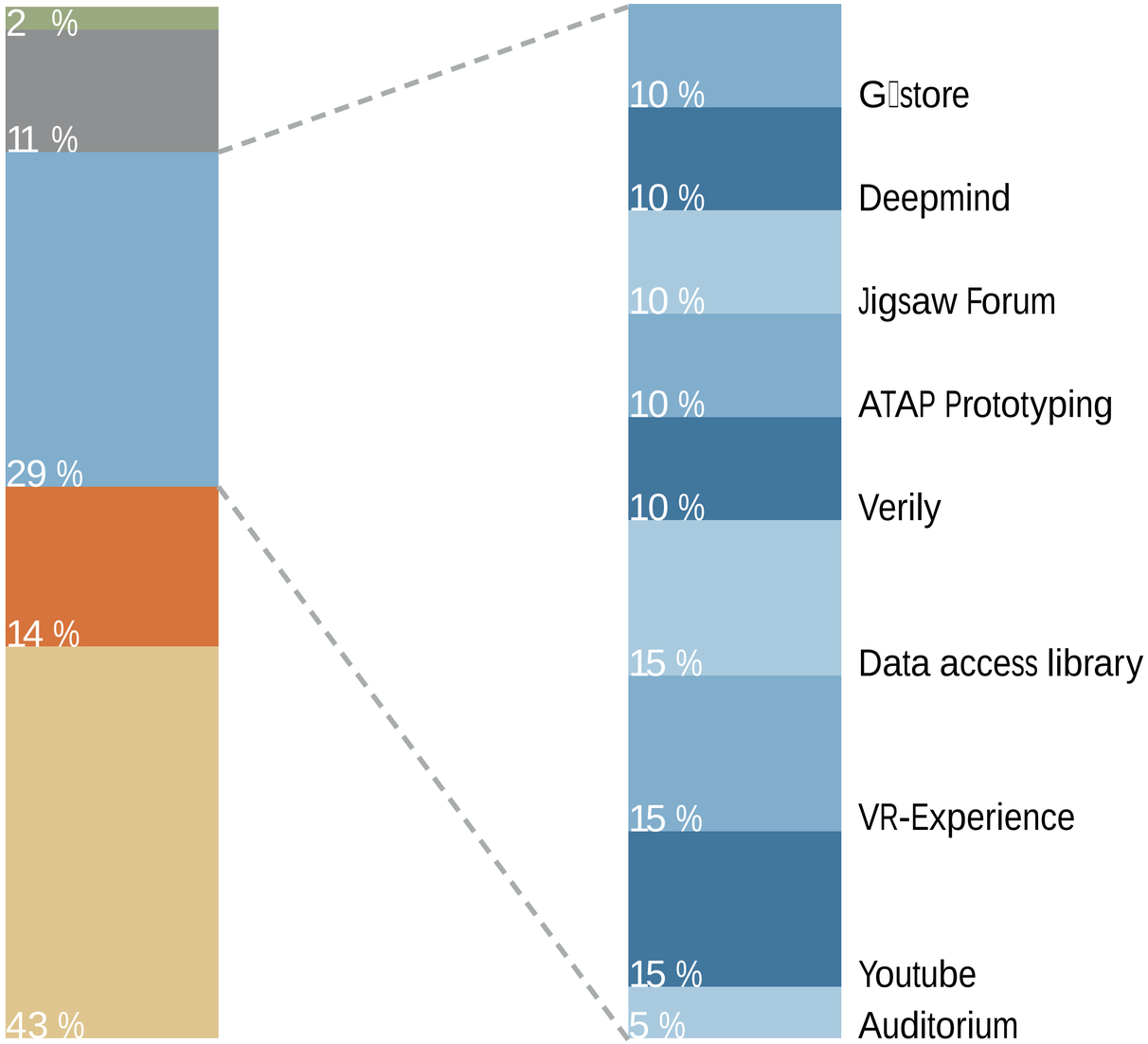


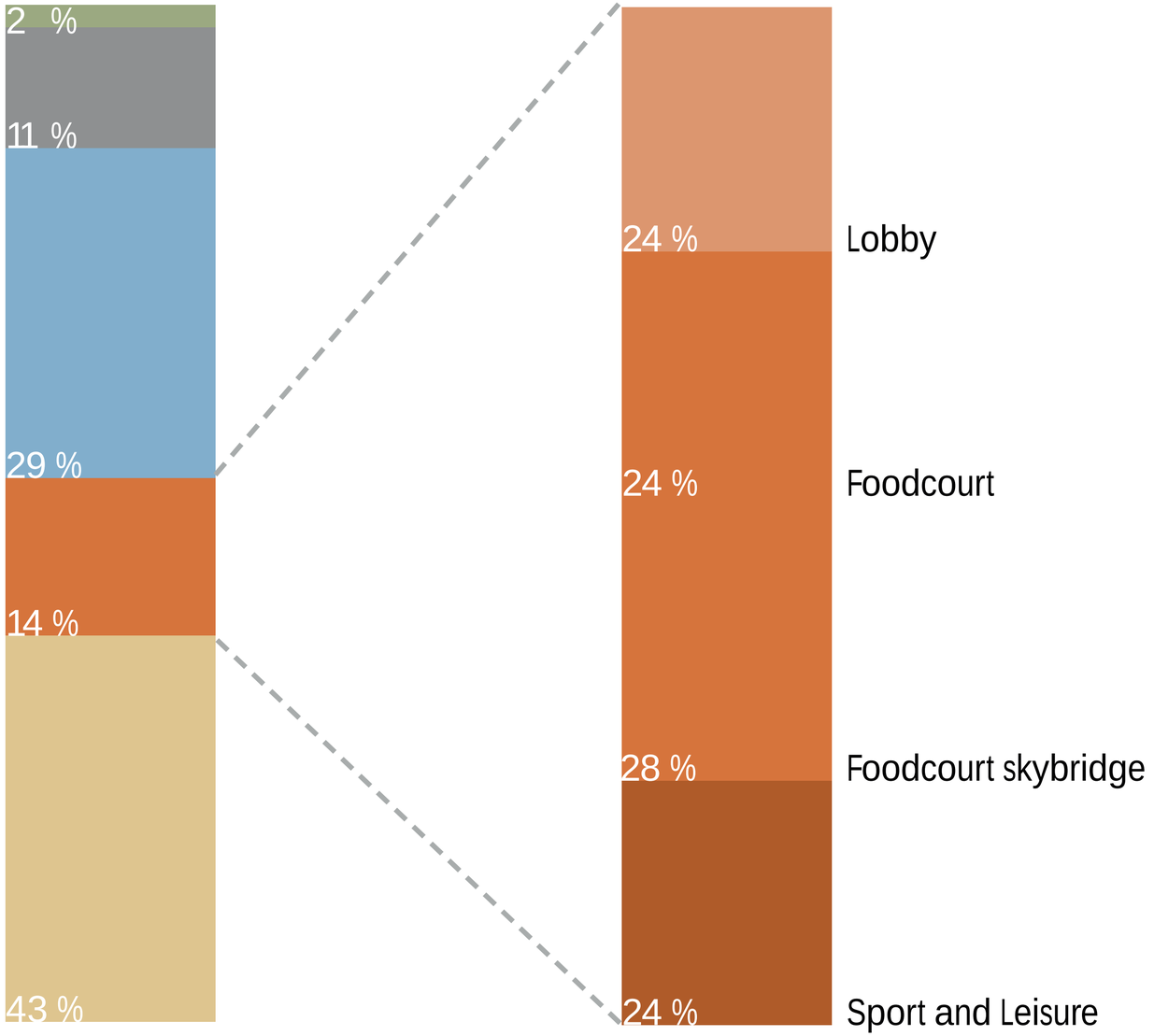
Nutrition

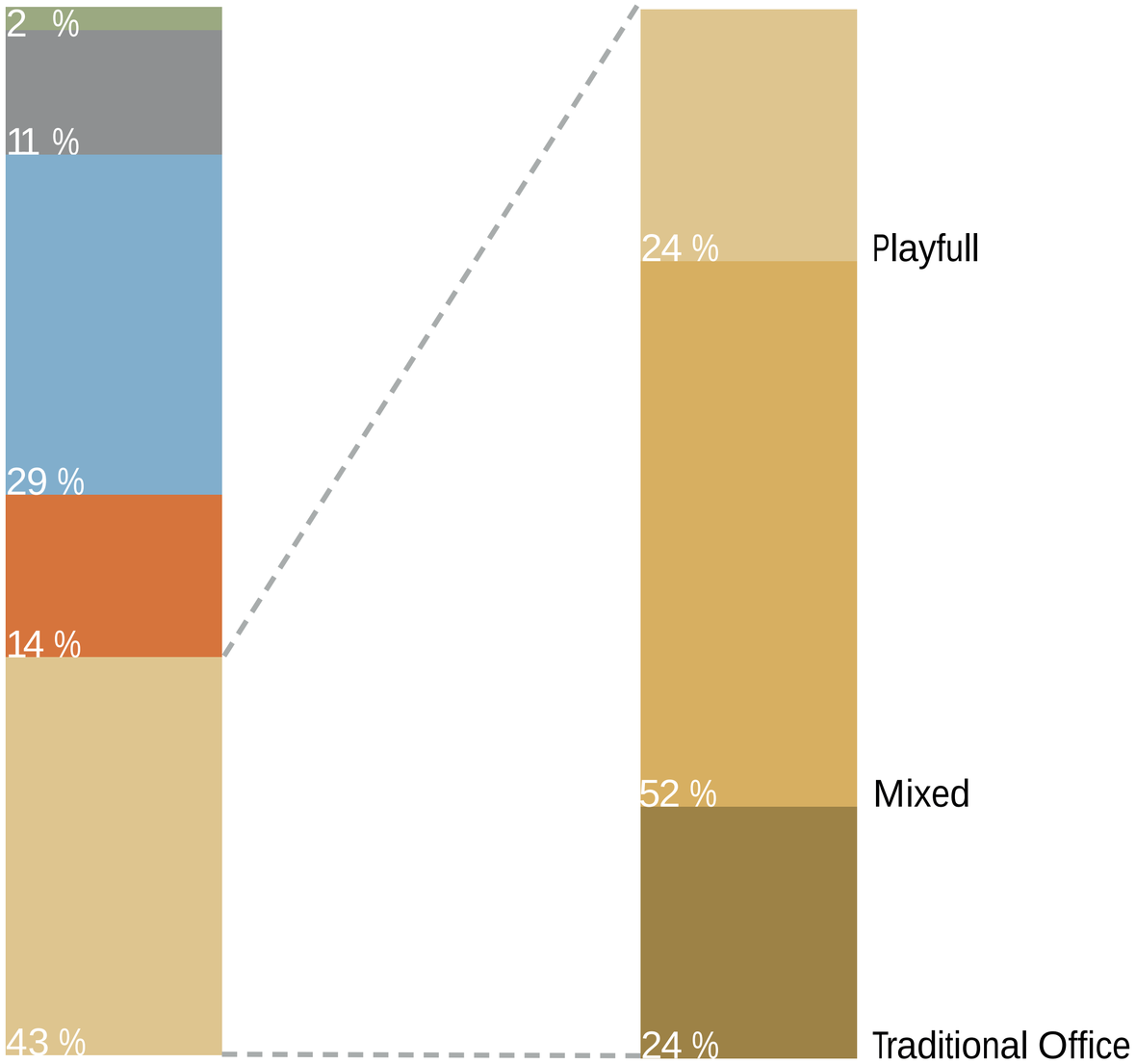
TO ORGANISE THE WORLD'S INFORMATION AND MAKE IT UNIVERSALLY ACCESSIBLE AND USEFULL

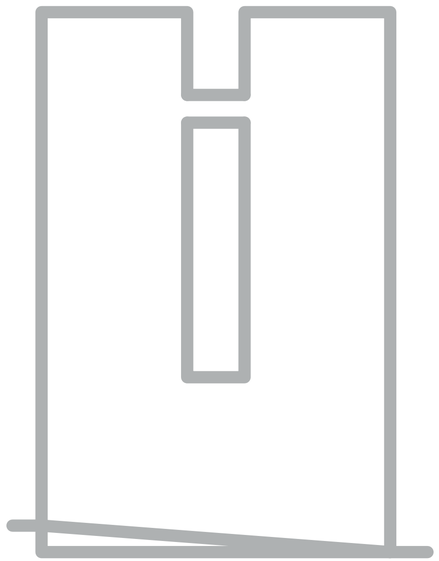
TO ORGANISE THE WORLD'S INFORMATION AND MAKE IT UNIVERSALLY ACCESSIBLE AND USEFULL

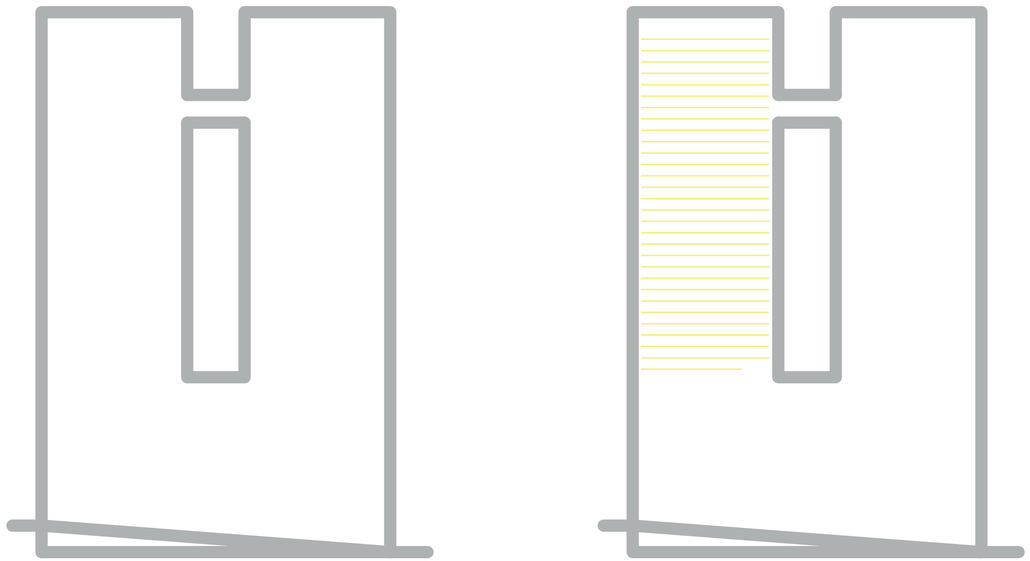

5 %
11 %
8 %
7 %
62 %
7 %
2 %
Park
11 %
Vertical Transportation
29 %
Public
14 %
Communal
43 %
Offices
7 %
TESLA Sharehub

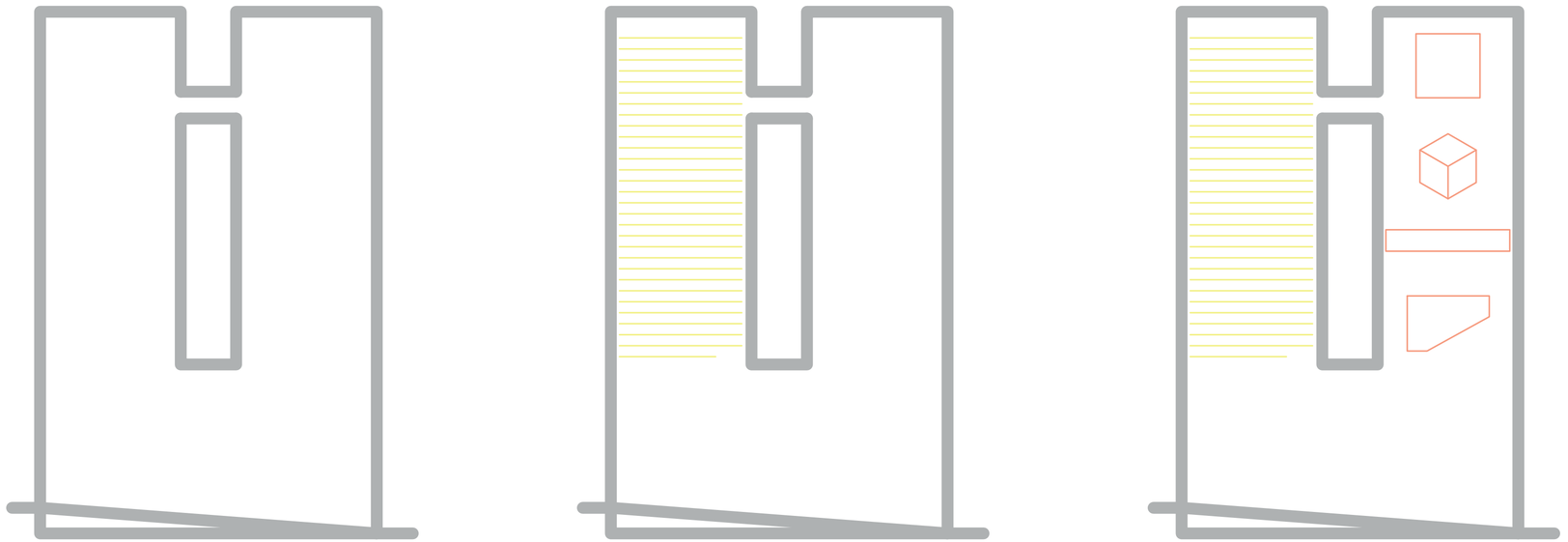

2 %
11 %
29 %
14 %
43 %
10 %
G□store
10 %
Deepmind
10 %
Jigsaw Forum
10 %
ATAP Prototyping
10 %
Verily
15 %
Data access library
15 %
VR-Experience
15 %
Youtube
5 %
Auditorium

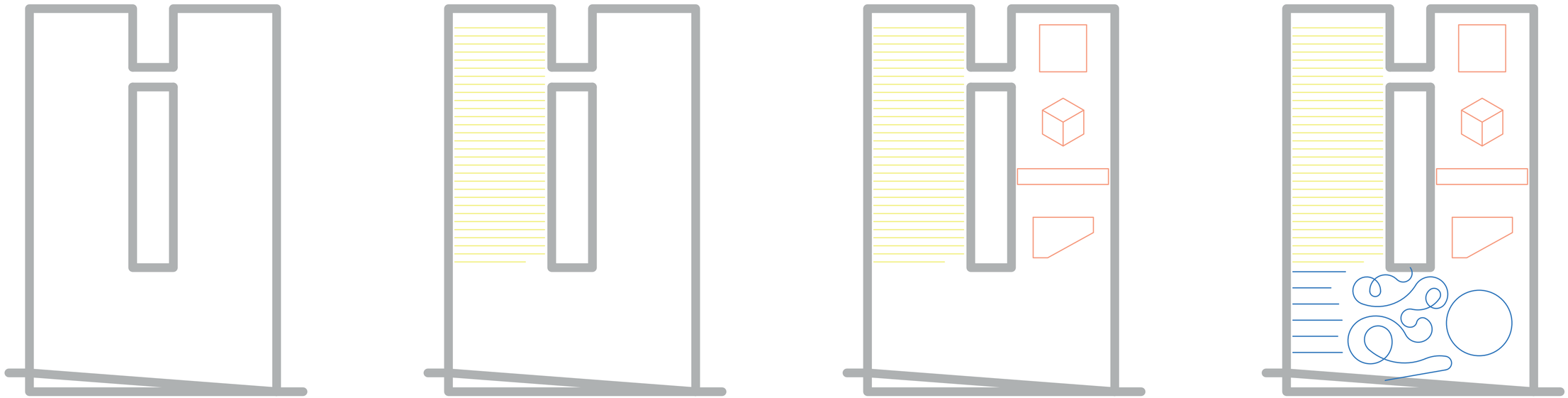

2 %
11 %
29 %
14 %
43 %
24 %
Lobby
24 %
Foodcourt
28 %
Foodcourt skybridge
24 %
Sport and Leisure

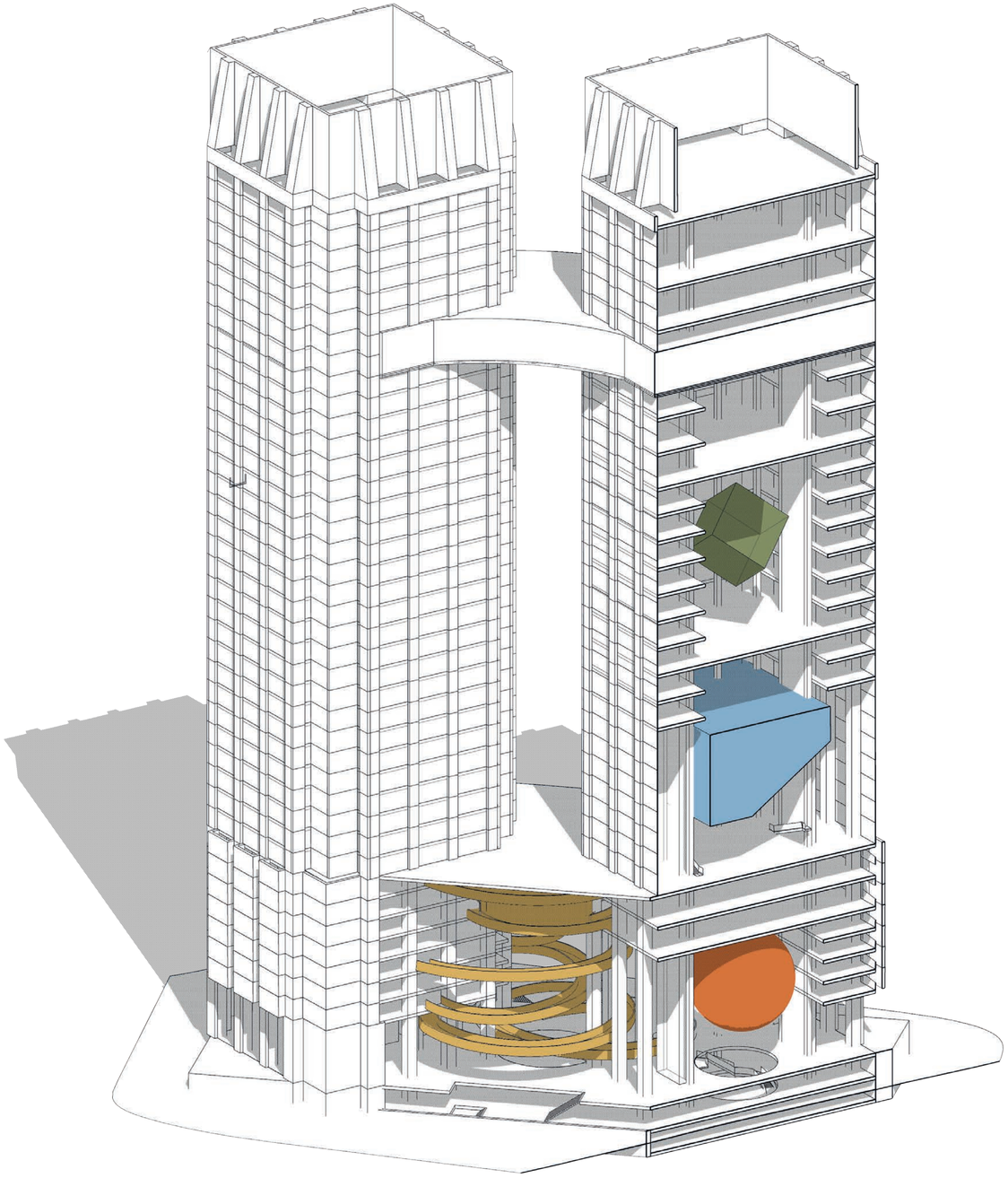

2 %
11 %
29 %
14 %
43 %
24 %
52 %
24 %
Playfull
Mixed
Traditional Office



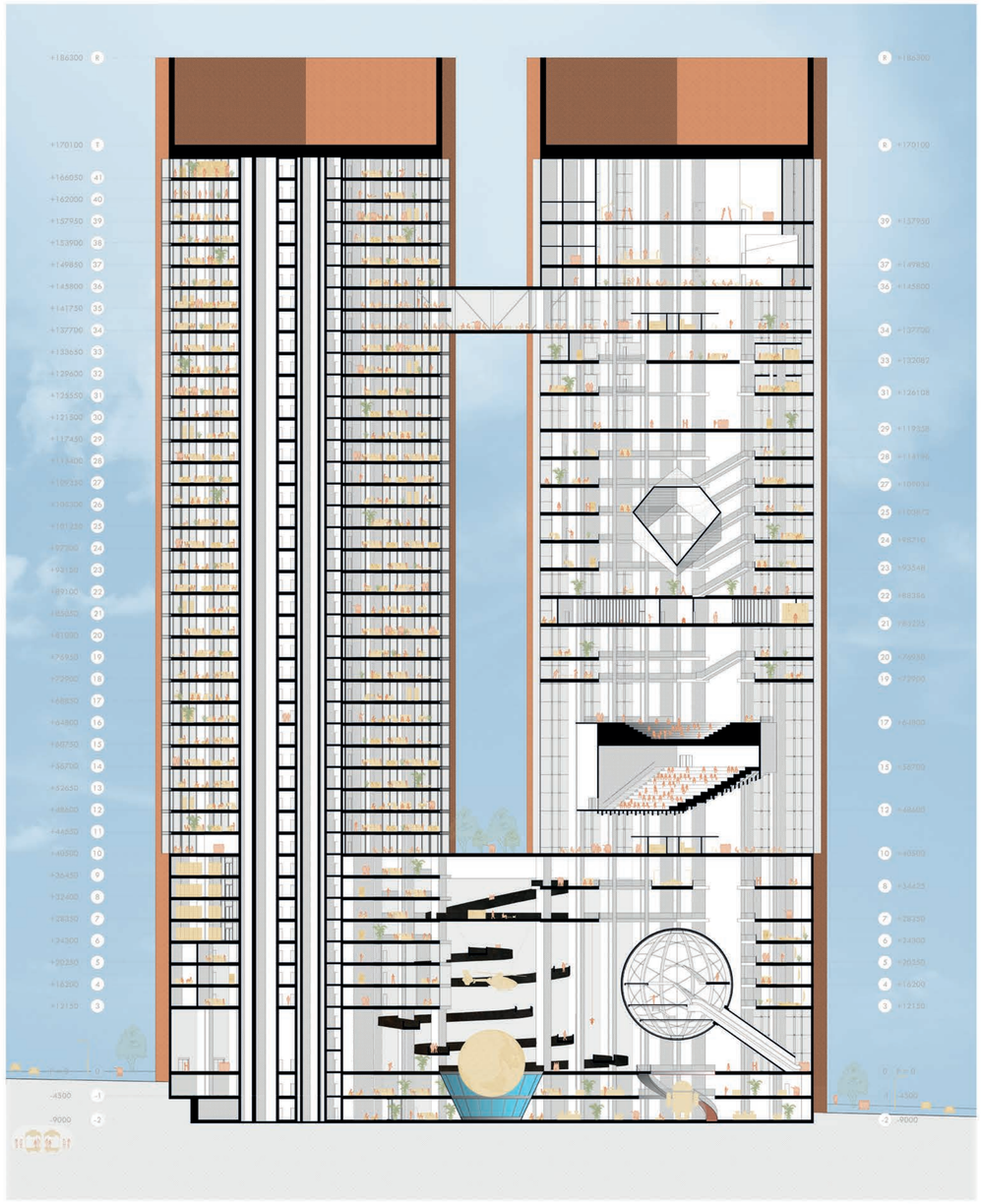








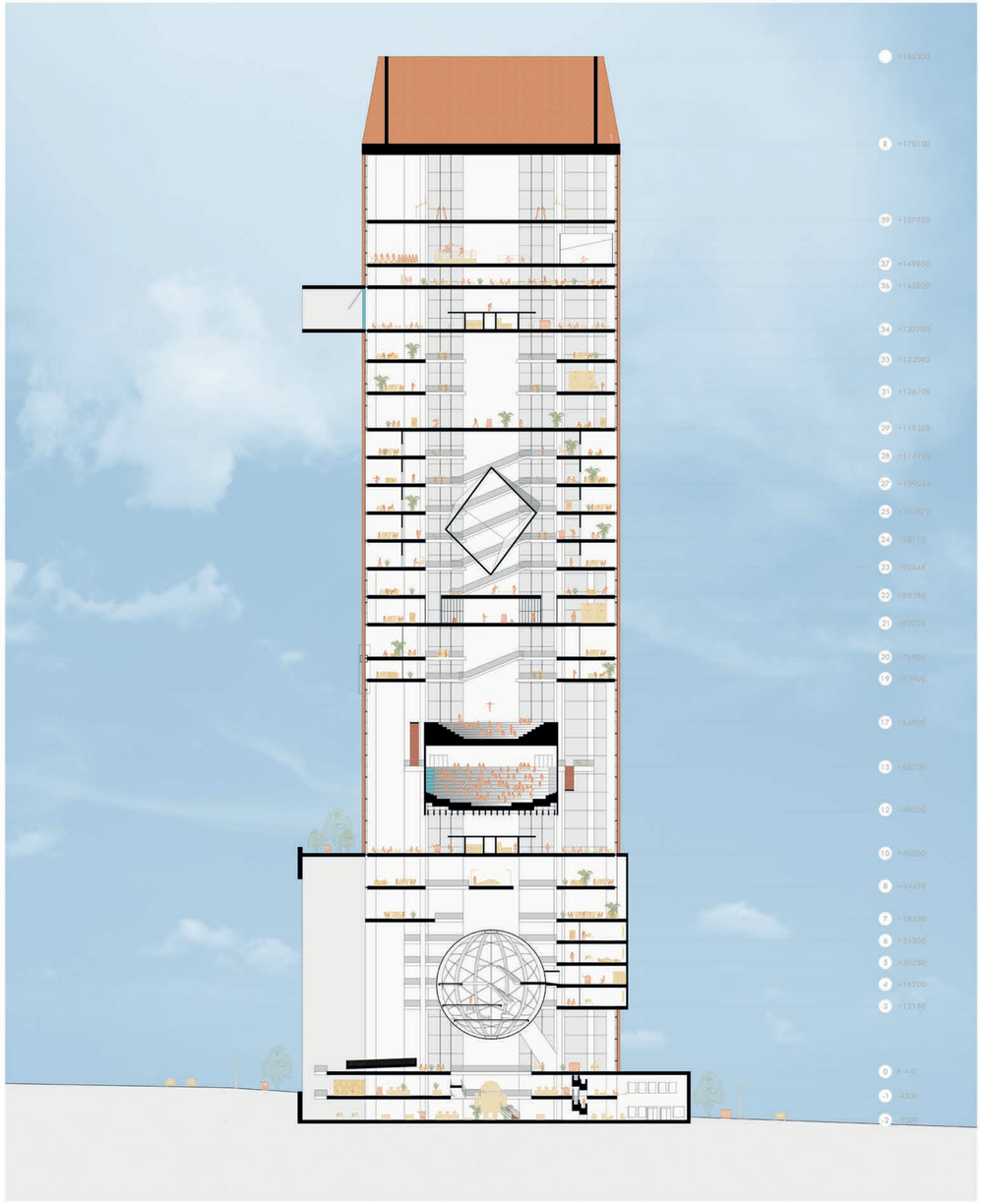
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250

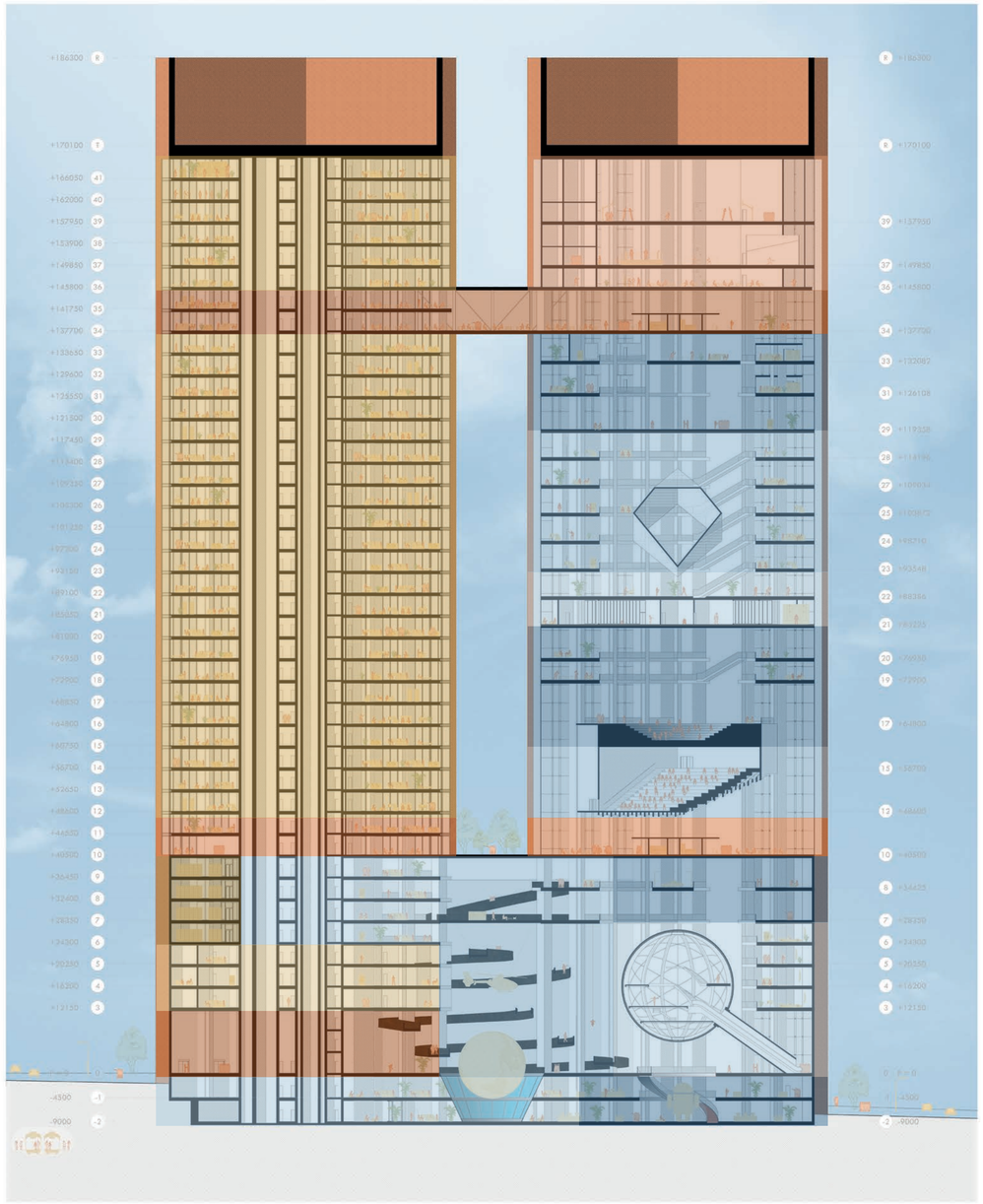
Section BB'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250

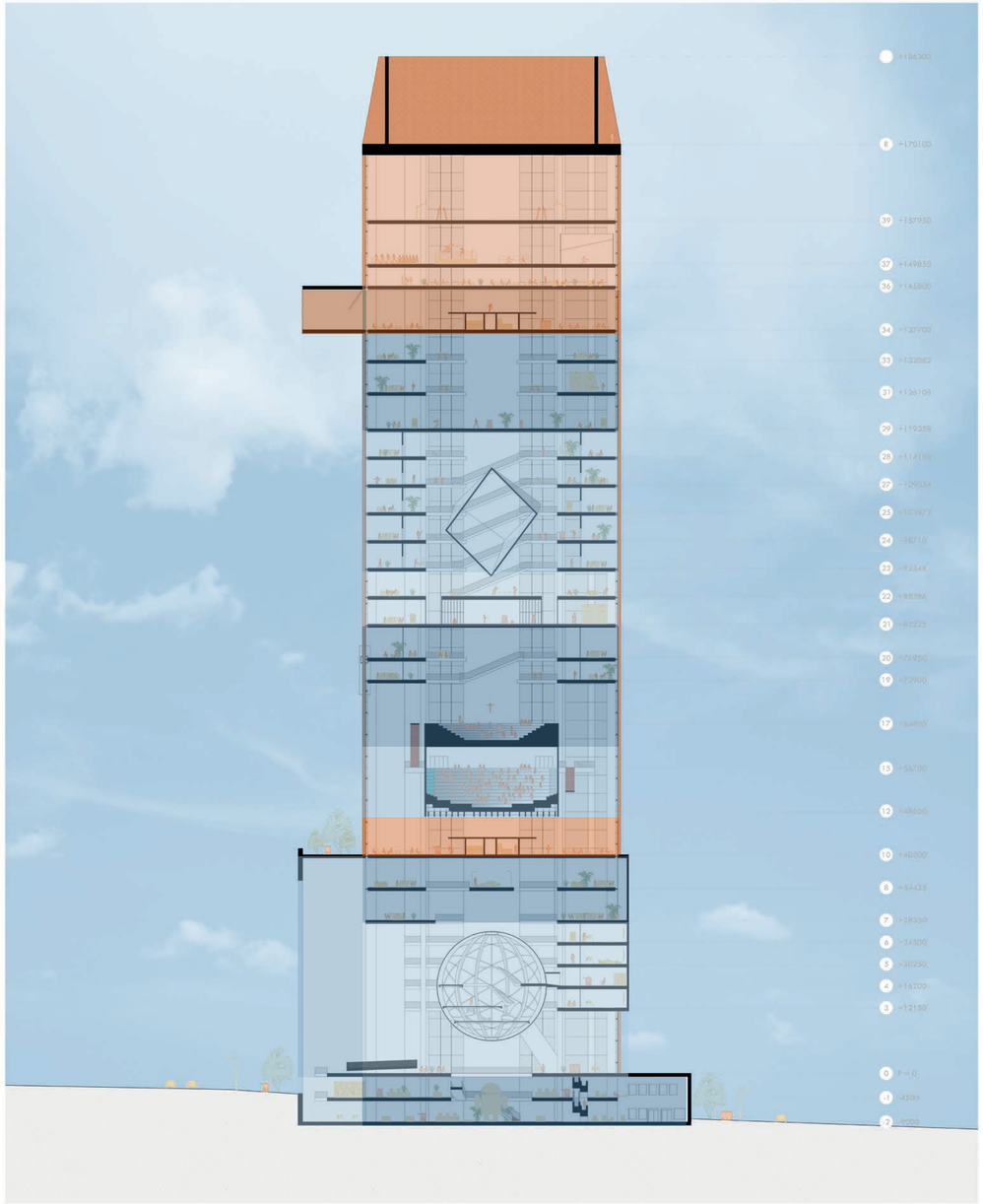
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250

Section BB'

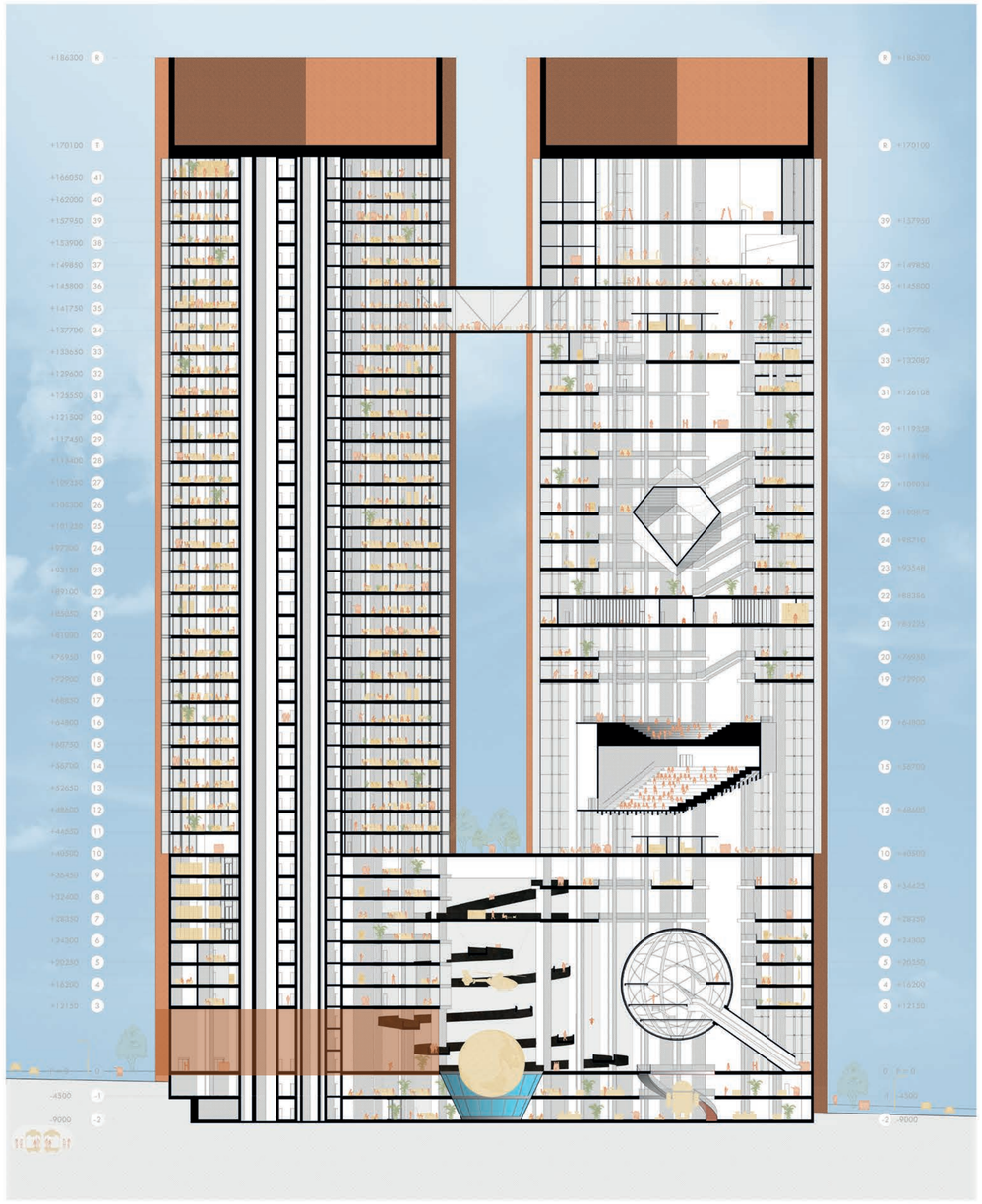


Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250

MAIN ENTRANCE

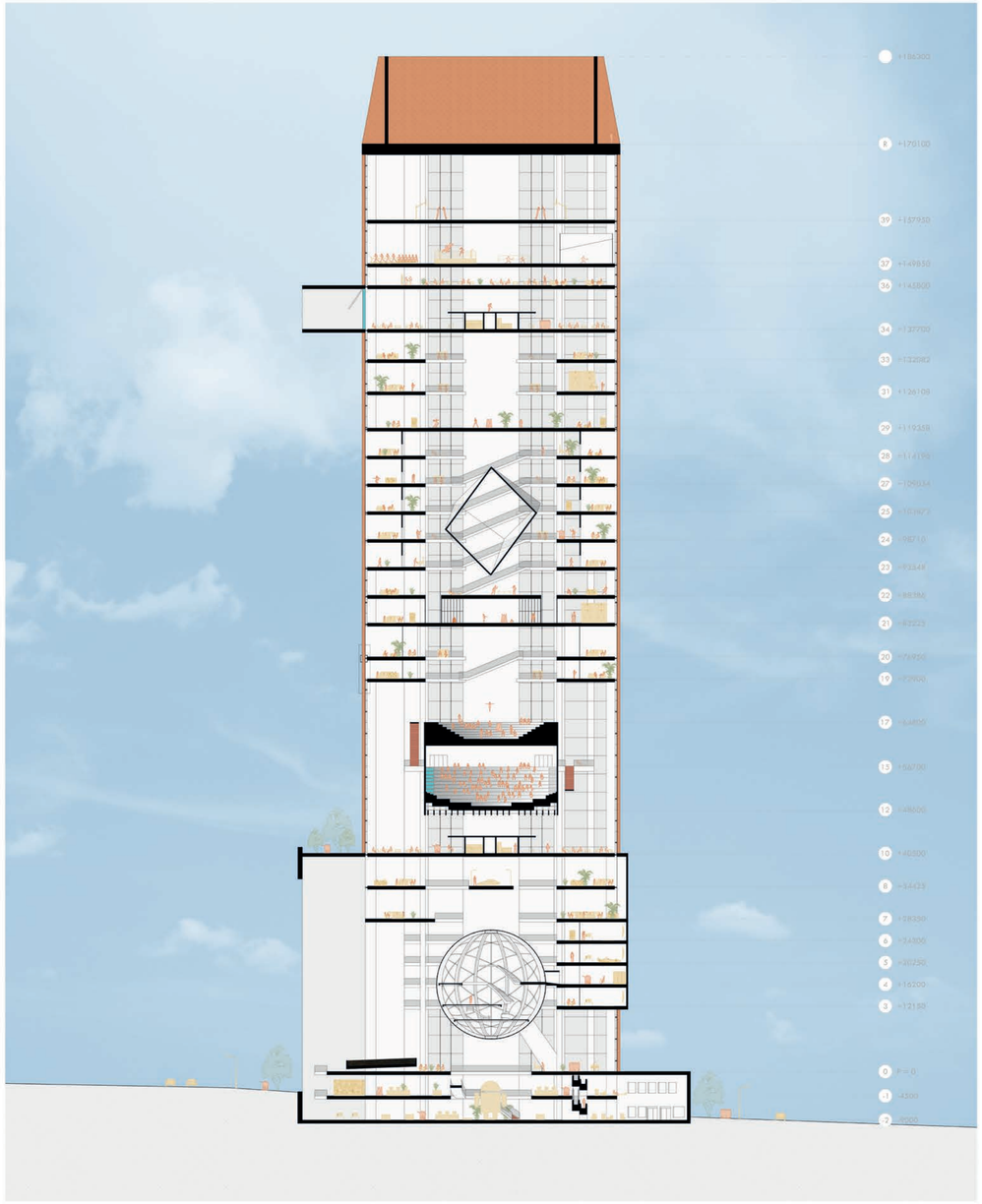
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

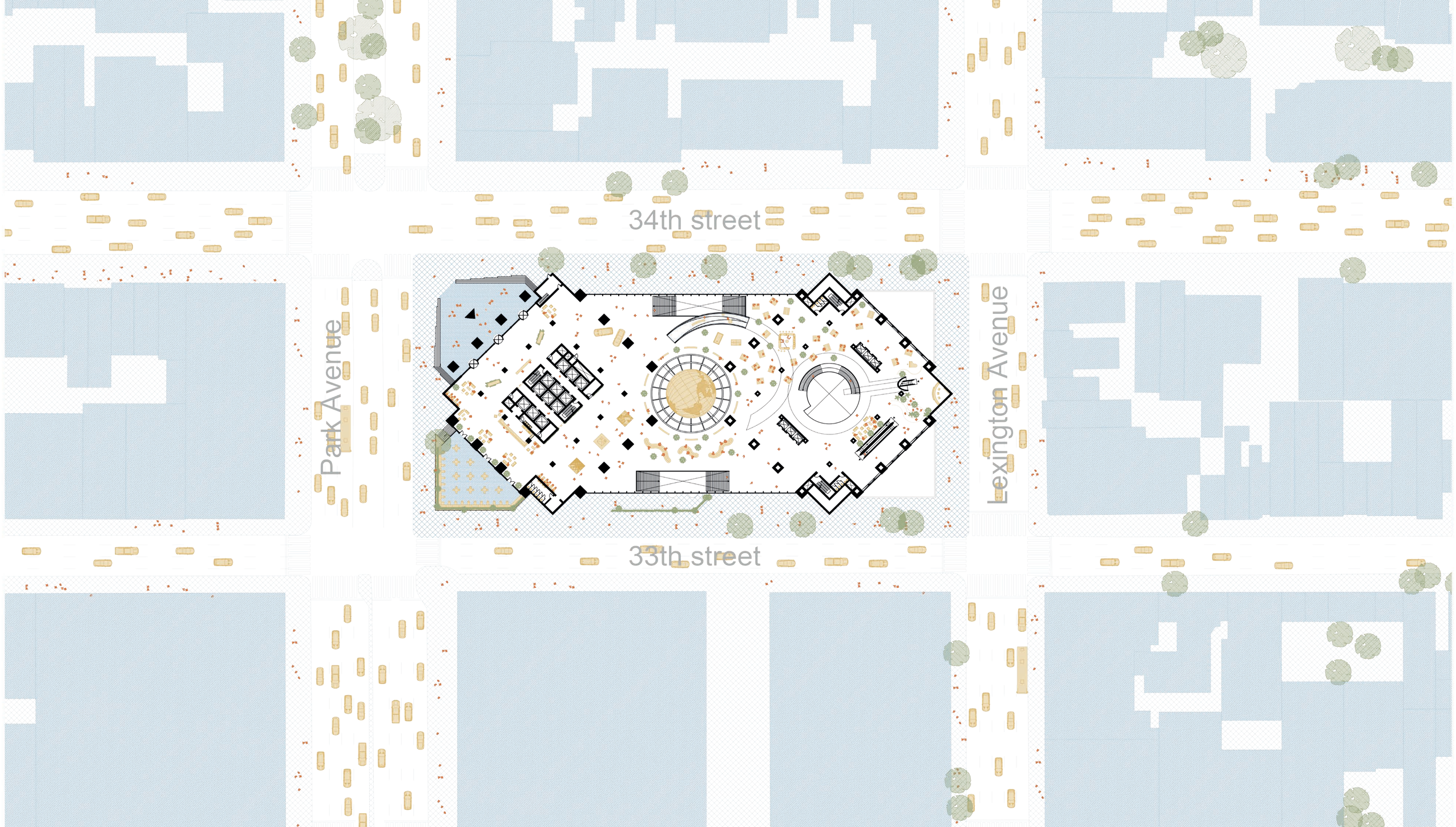
1 : 250

Section BB'

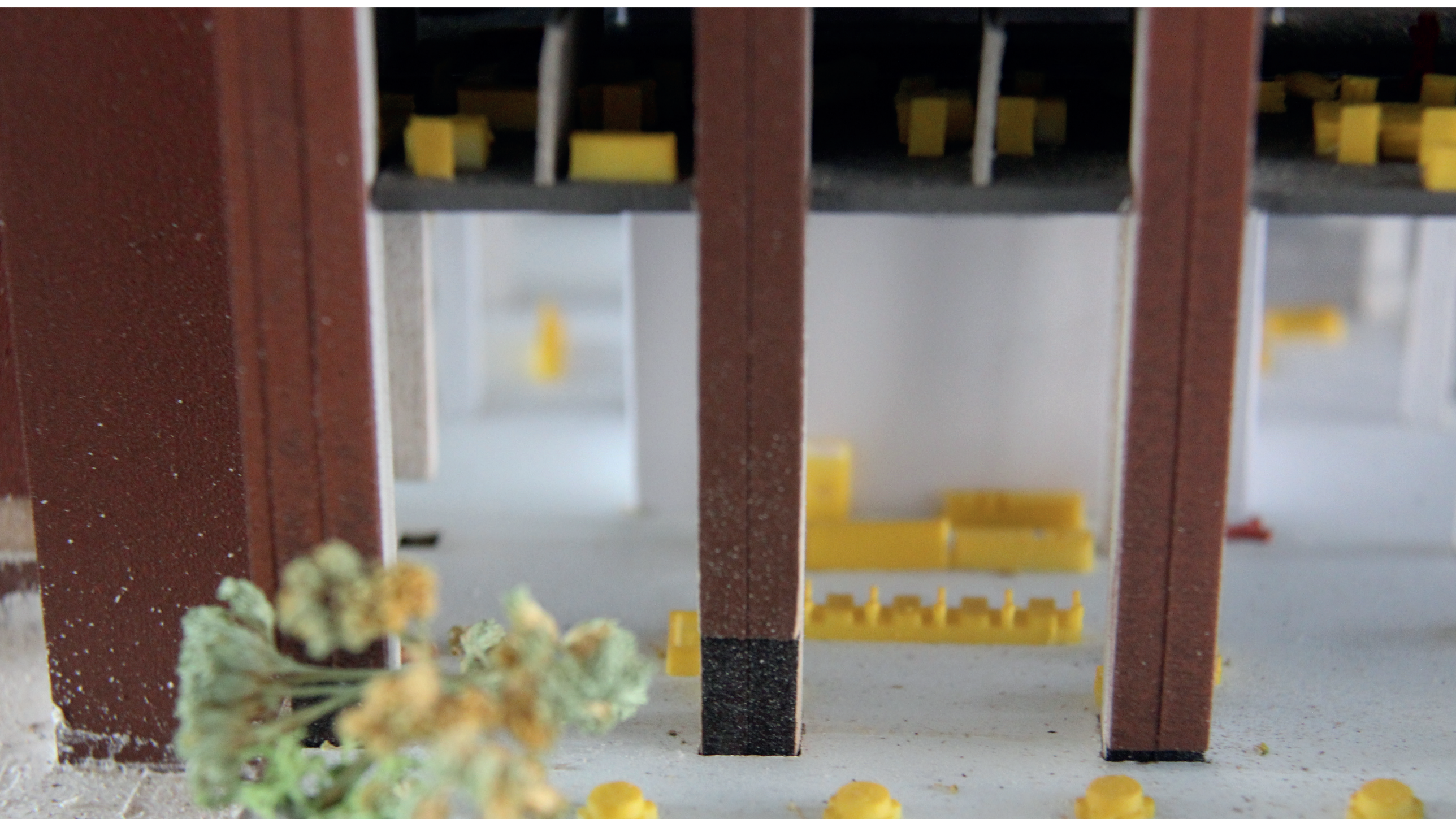


Bjorn van Dijk
4295501
New York Midtown Graduation studio

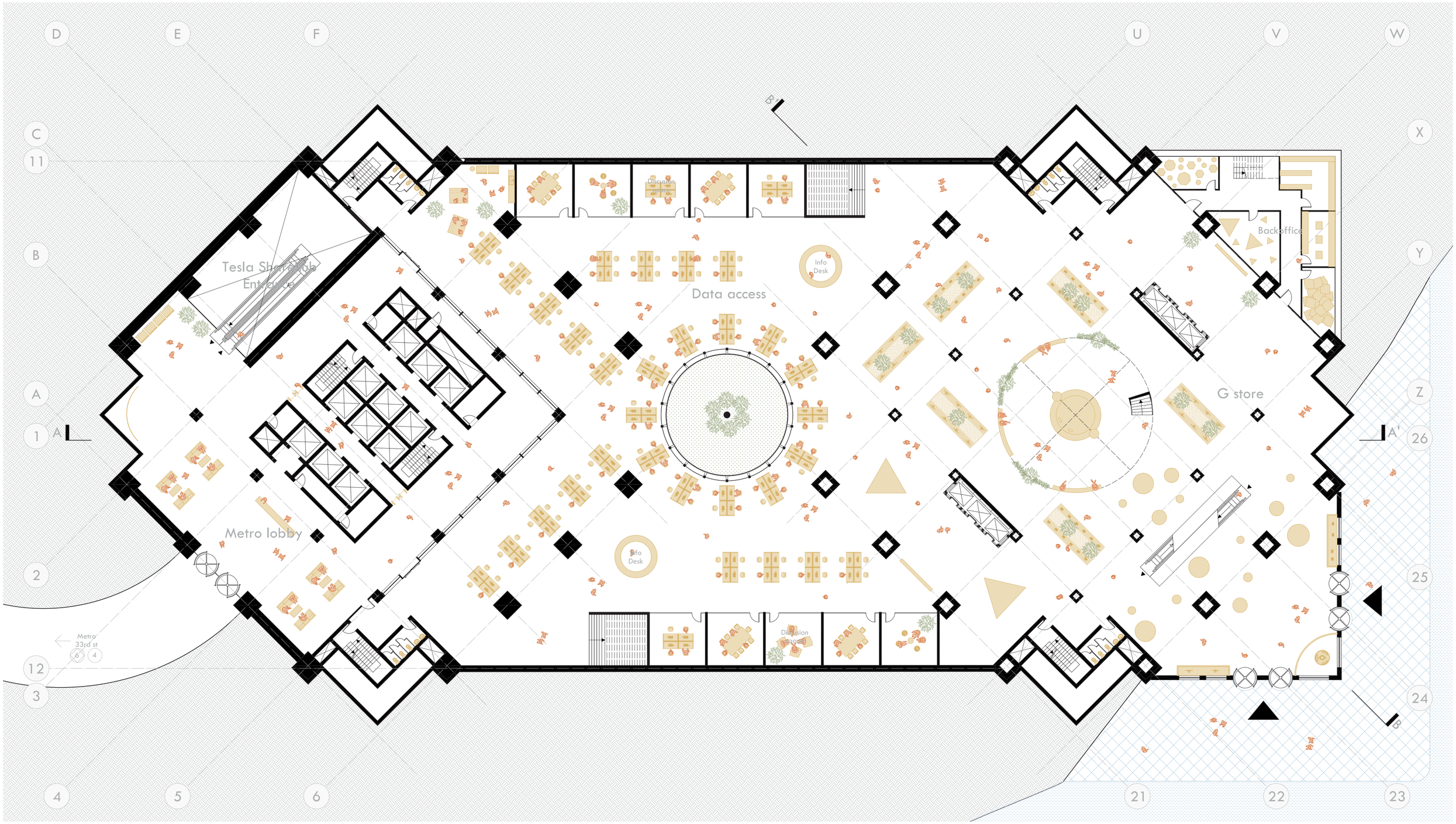
1 : 250

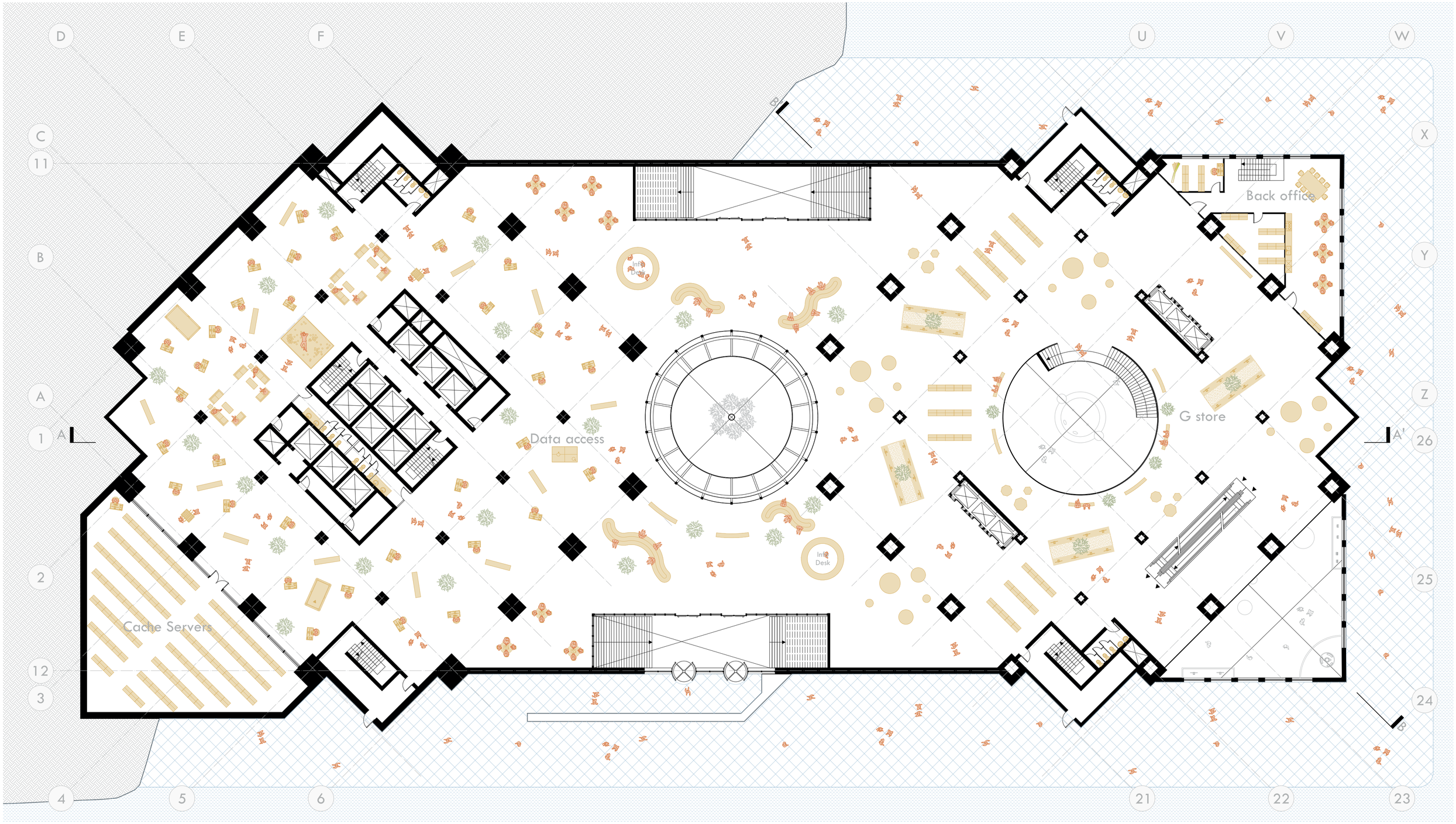

34th street
Park Avenue
Lexington Avenue
33th street



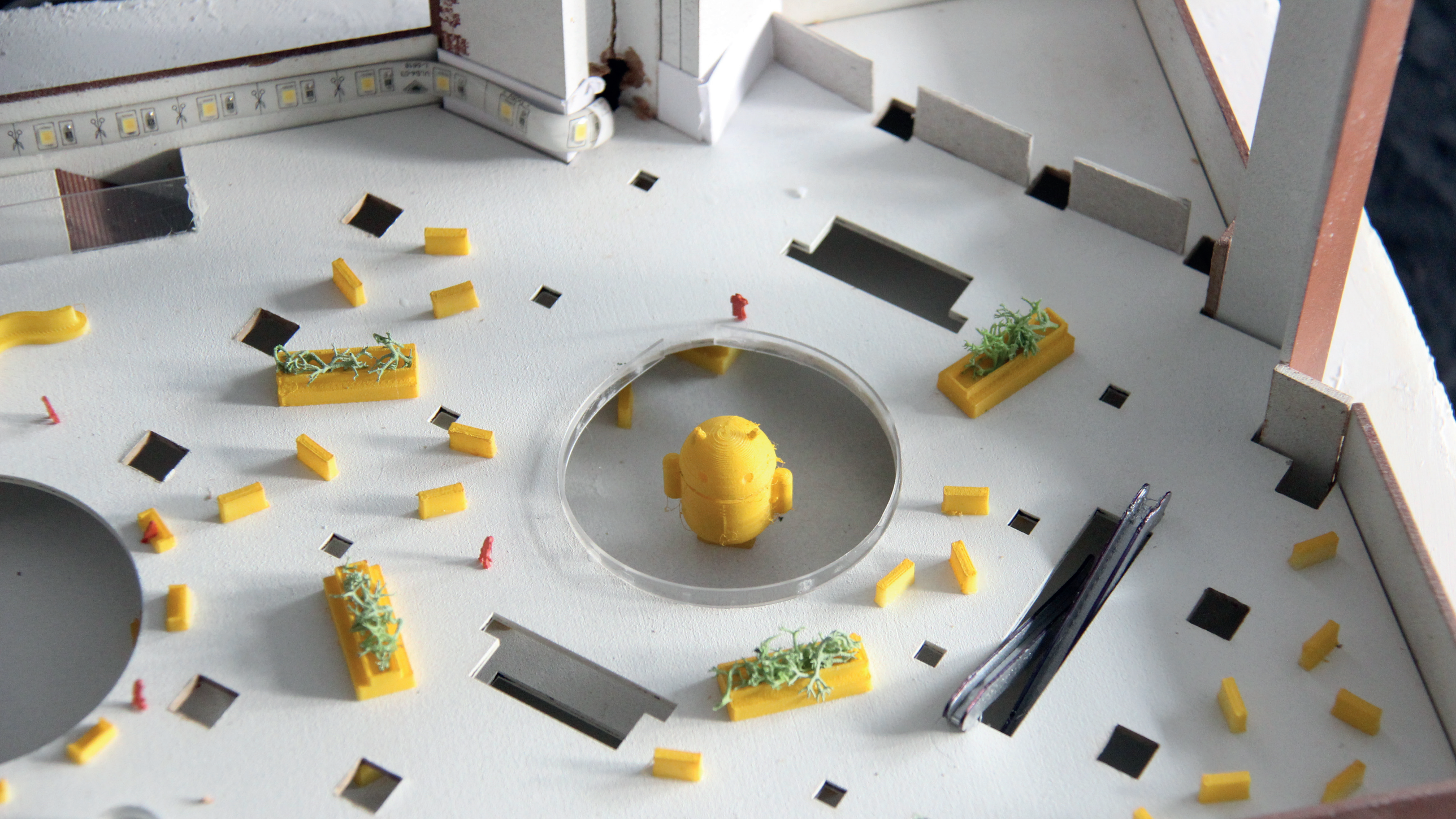


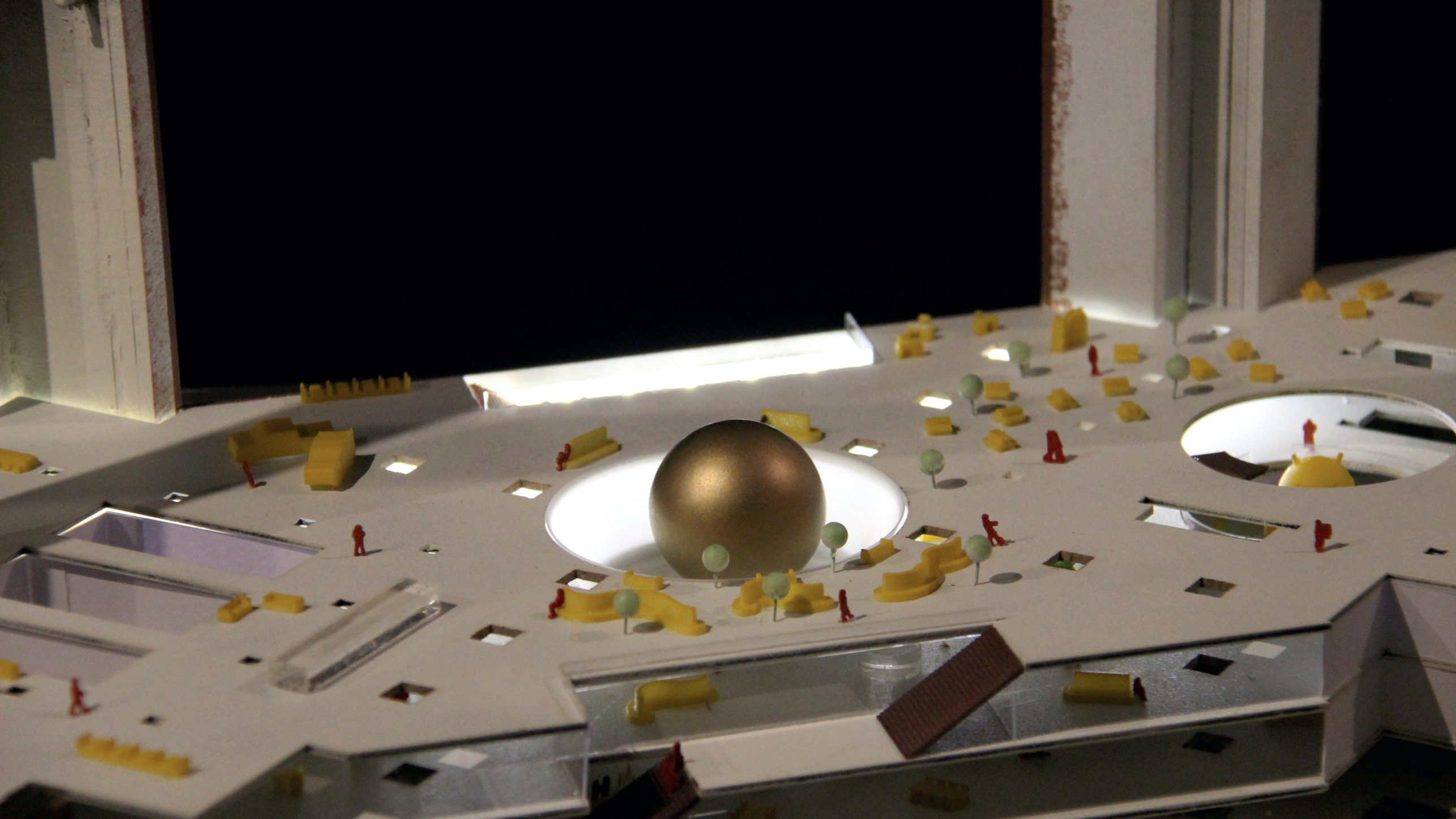
G□STORE
DATA ACCESS LIBRARY


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Tesla Showroom
Entrance
Data access
Info Desk
Backoffice
G store
Metro lobby
Info Desk
Discussion area
Discussion area
Metro
33rd st
6
4

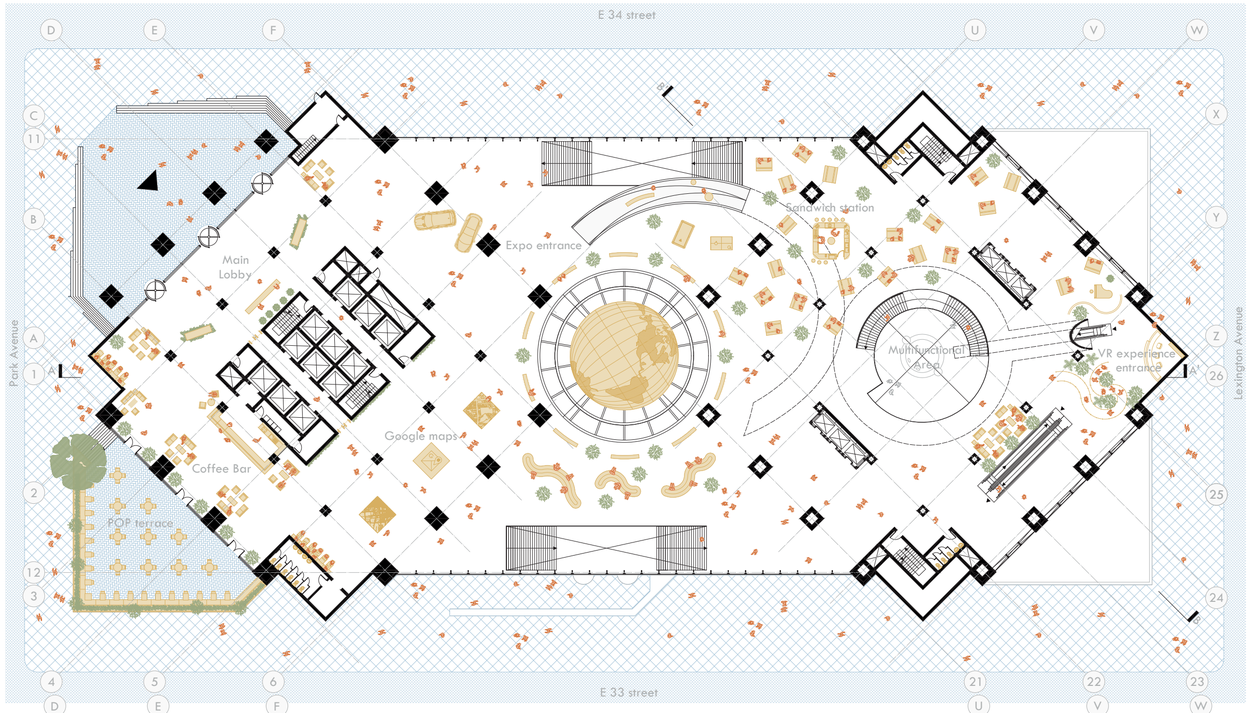

D
E
F
U
V
W
C
11
X
B
Back office
Y
A
1
A
Data access
G store
A'
Z
26
2
25
Cache Servers
12
3
24
B
4
5
6
21
22
23

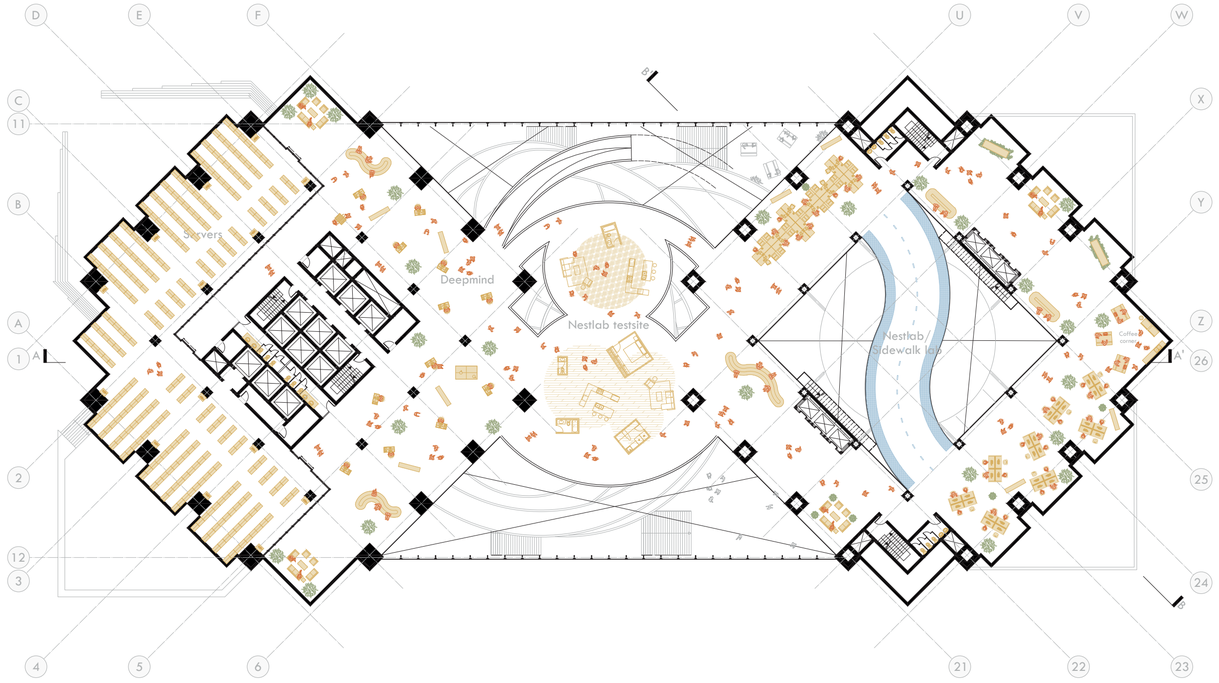


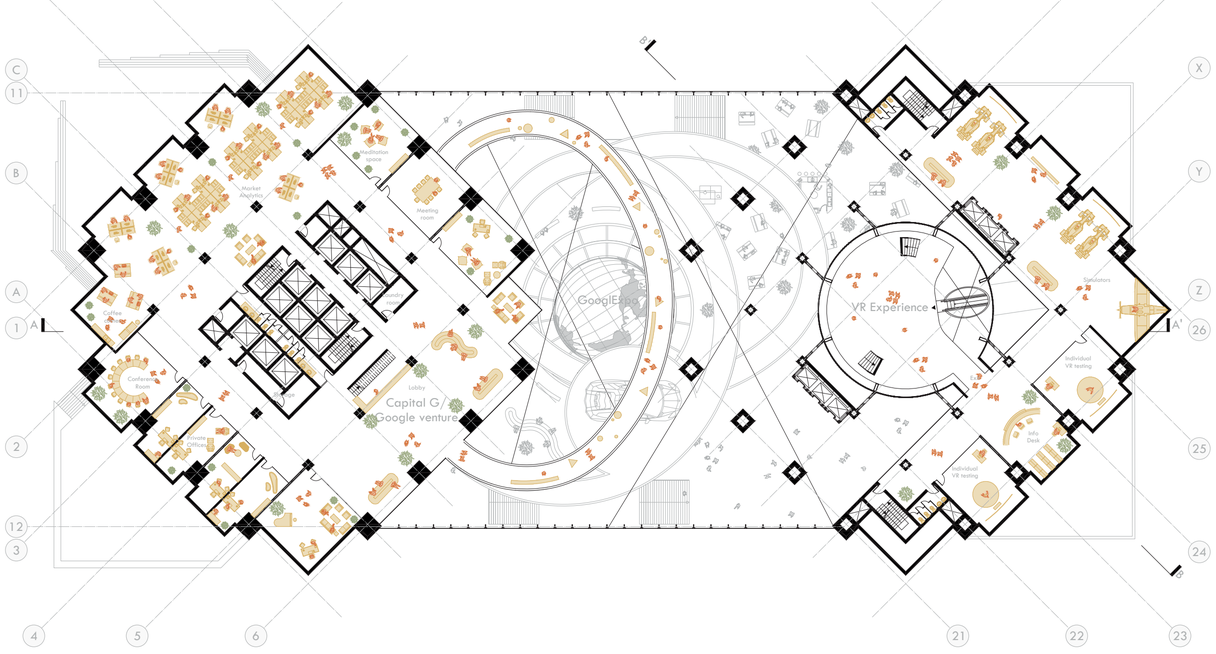




EXPO

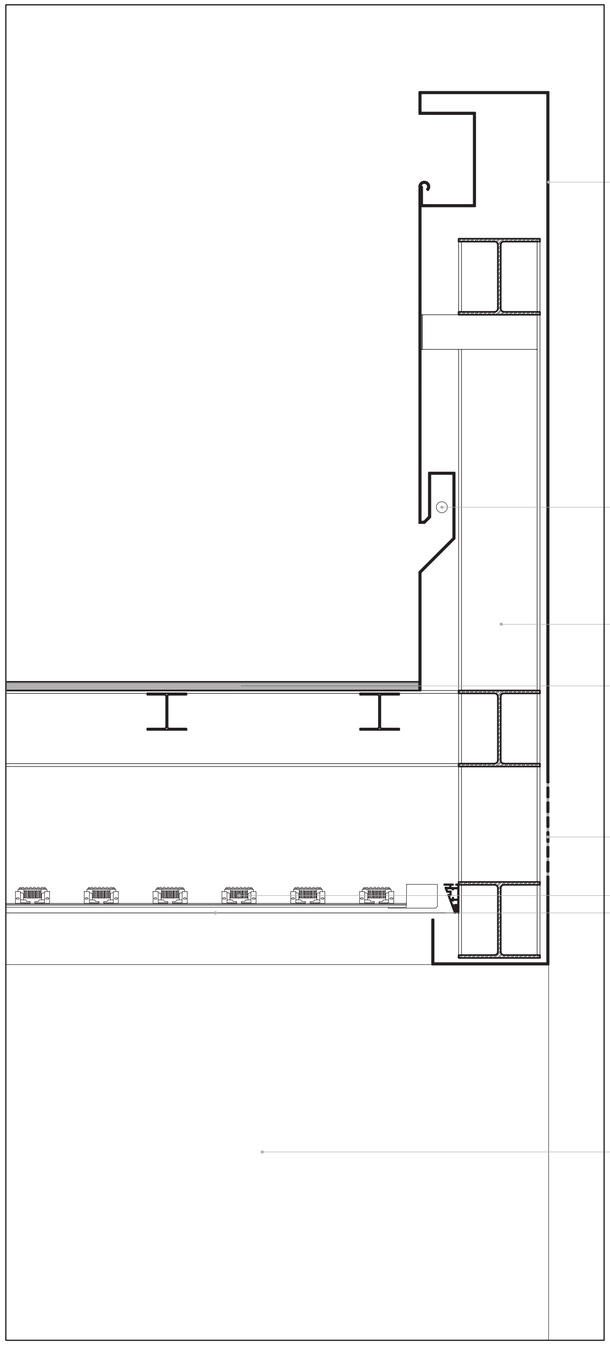

E 34 street
E 33 street
Park Avenue
Lexington Avenue
Main Lobby
Expo entrance
Sandwich station
Multifunctional area
VR experience entrance
Google maps
Coffee Bar
POP terrace

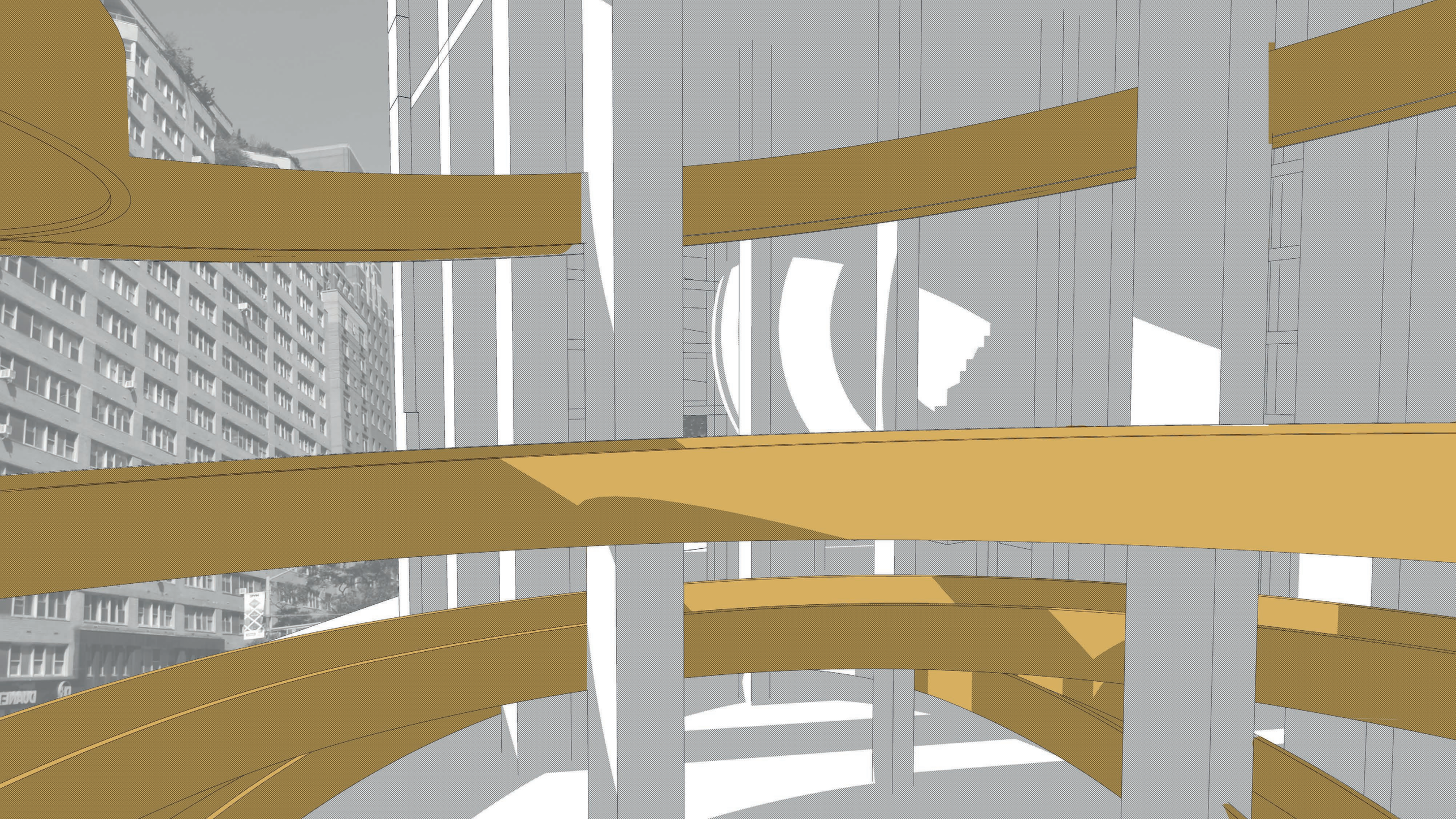

Movers
Deepmind
Nestlab testsite
Nestlab / Sidewalk lab


GoogleEarth
VR Experience
Capital G / Google ventures



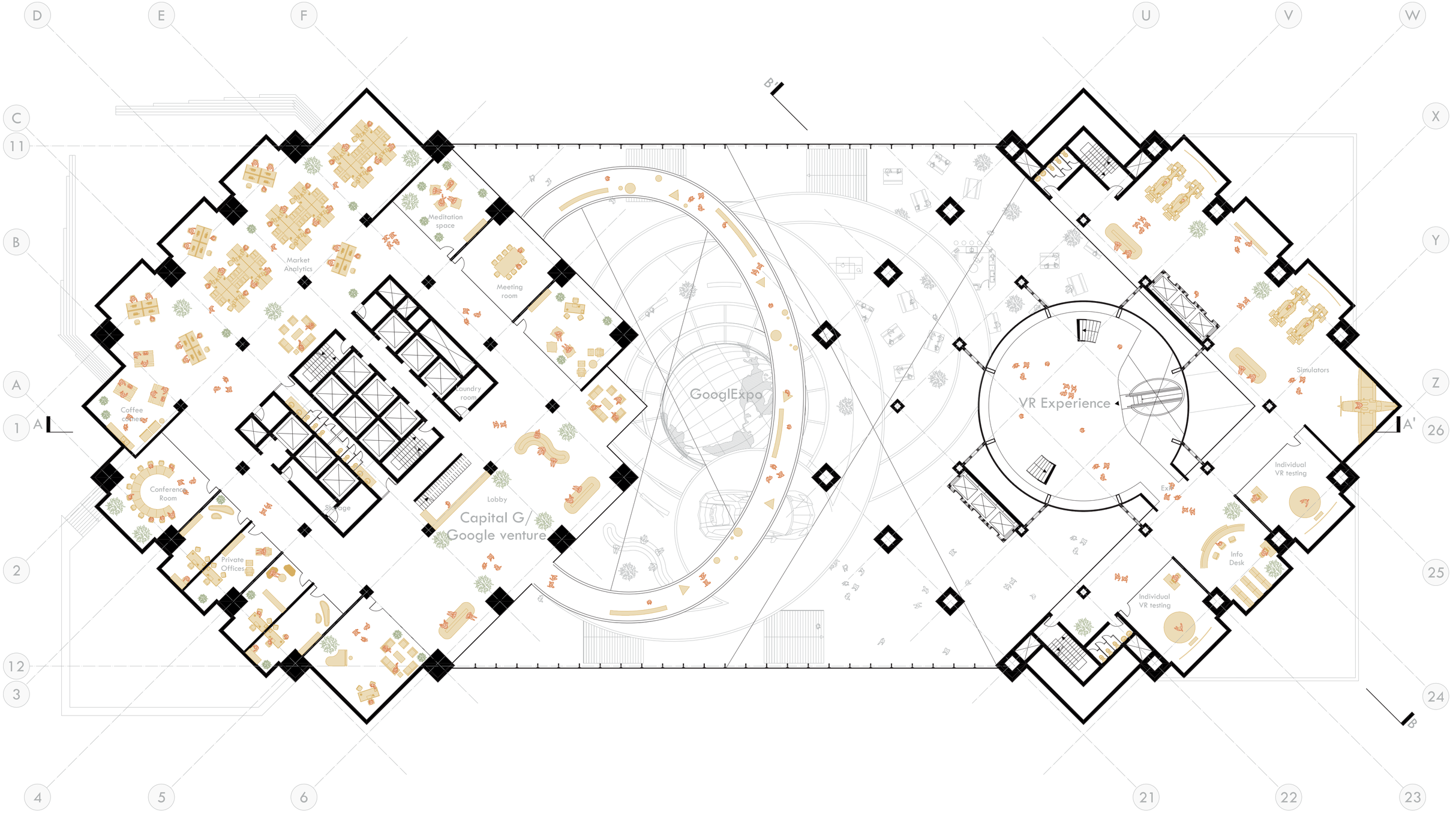



46
195
660
100
1823
1500
230
20
160
245
60
107
Steel Cladding
Foot Light
Steel Truss
Woodel Panel Flooring
(individualy removable to acces ramp Plenum)
Perforated Metal Cladding
LED Lighting
BARISOL LUMIERE Span Ceiling
Concrete Console
207
170

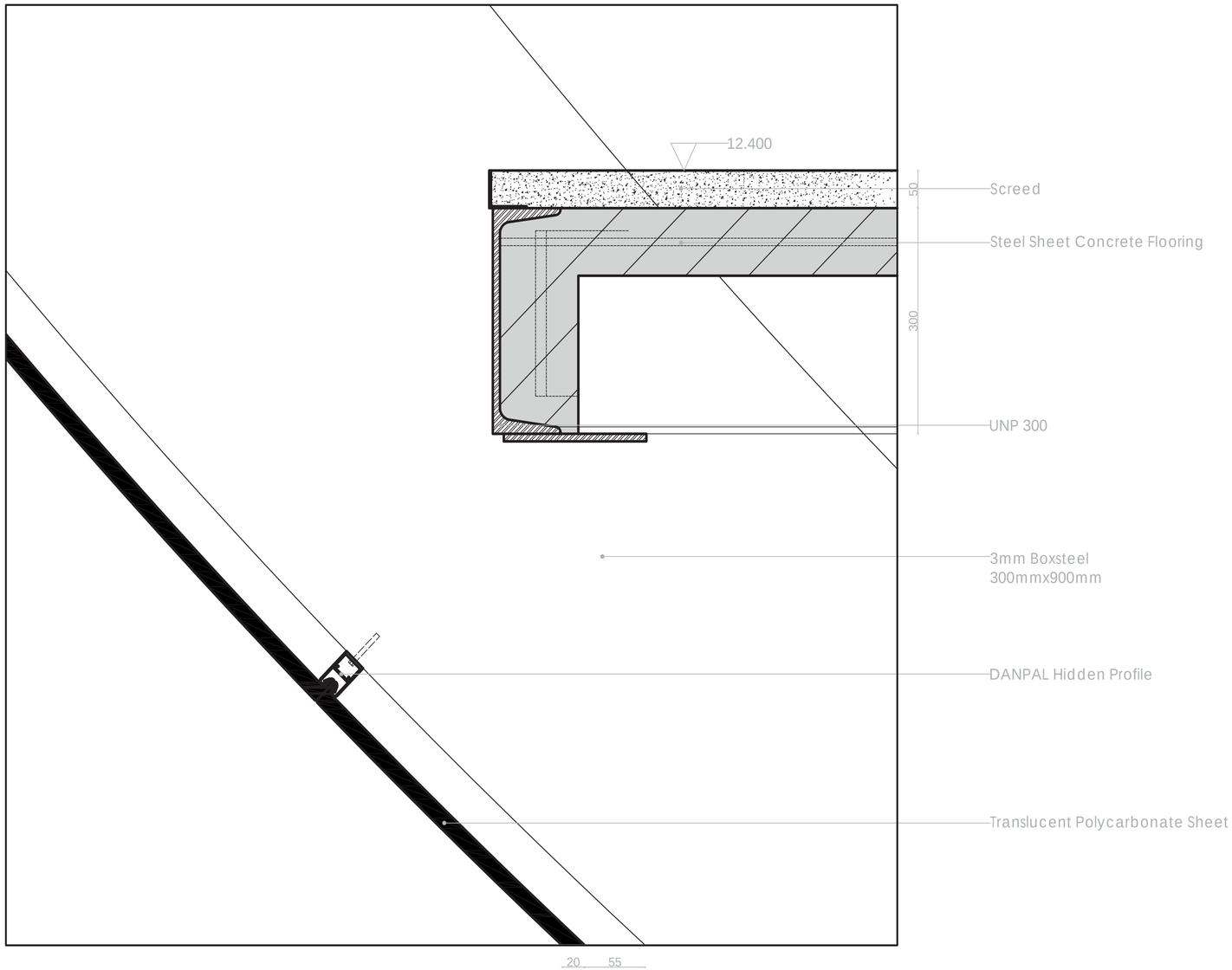




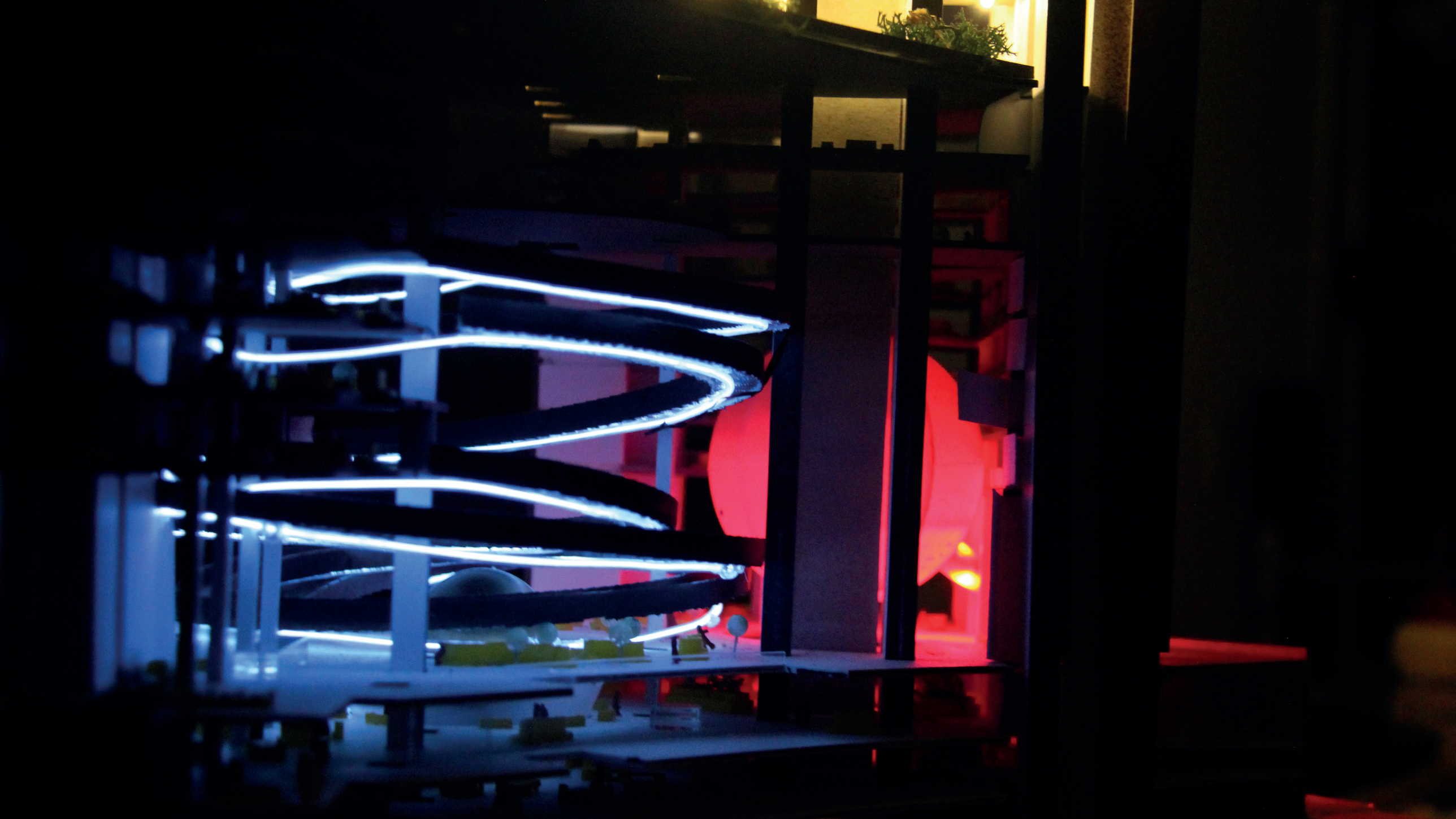
VIRTUAL REALITY EXPERIENCE


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Meditation space
Market Analytics
Meeting room
Laundry room
Coffee corner
Conference Room
Storage
Lobby
Capital G/
Google venture
Private Offices
GoogleExpo
VR Experience
Simulators
Individual VR testing
Info Desk
Individual VR testing


7 PARK AVENUE
NYC

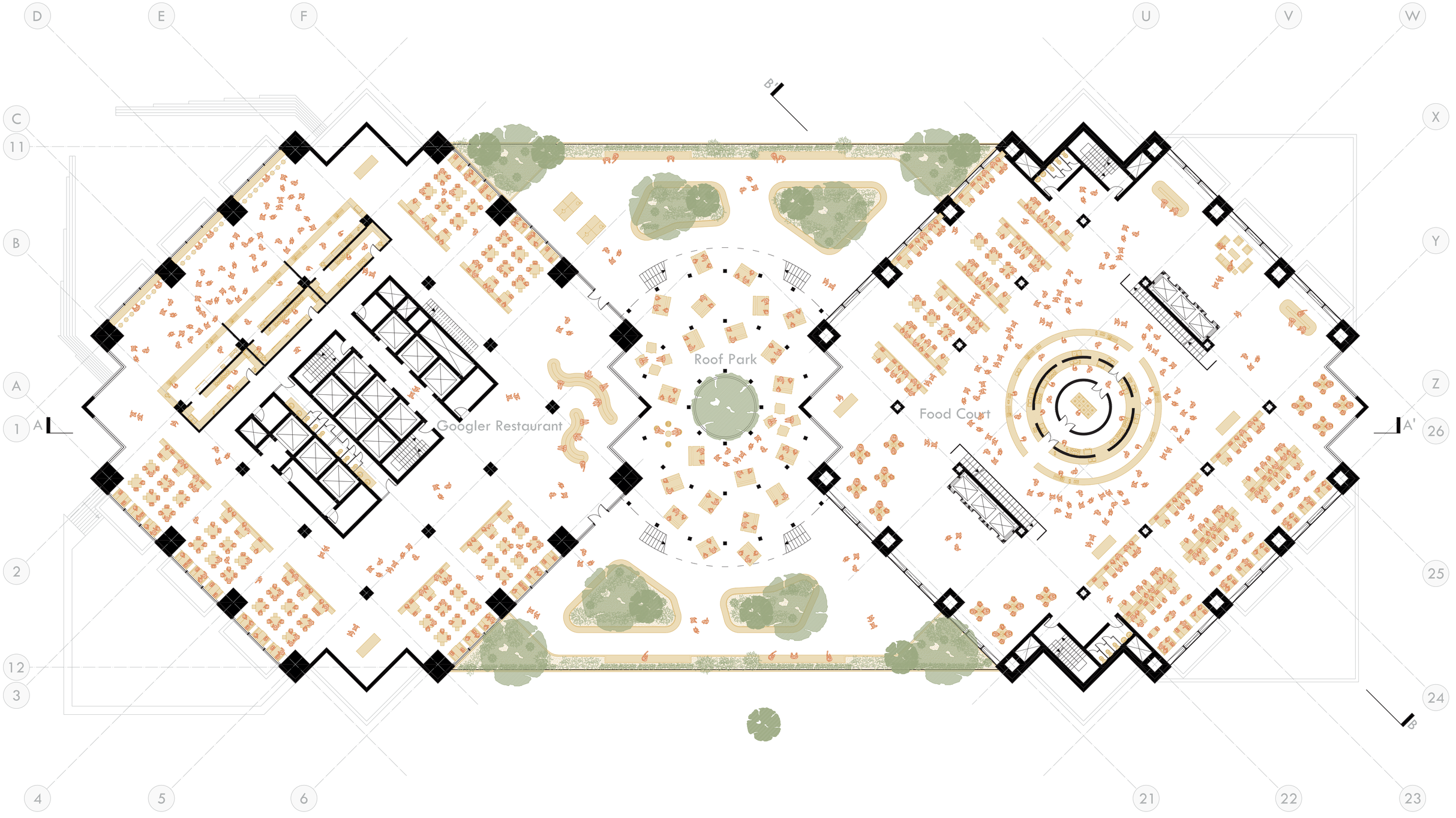

12.400
50
300
Screed
Steel Sheet Concrete Flooring
UNP 300
3mm Boxsteel
300mmx900mm
DANPAL Hidden Profile
Translucent Polycarbonate Sheet
20
55

D_04

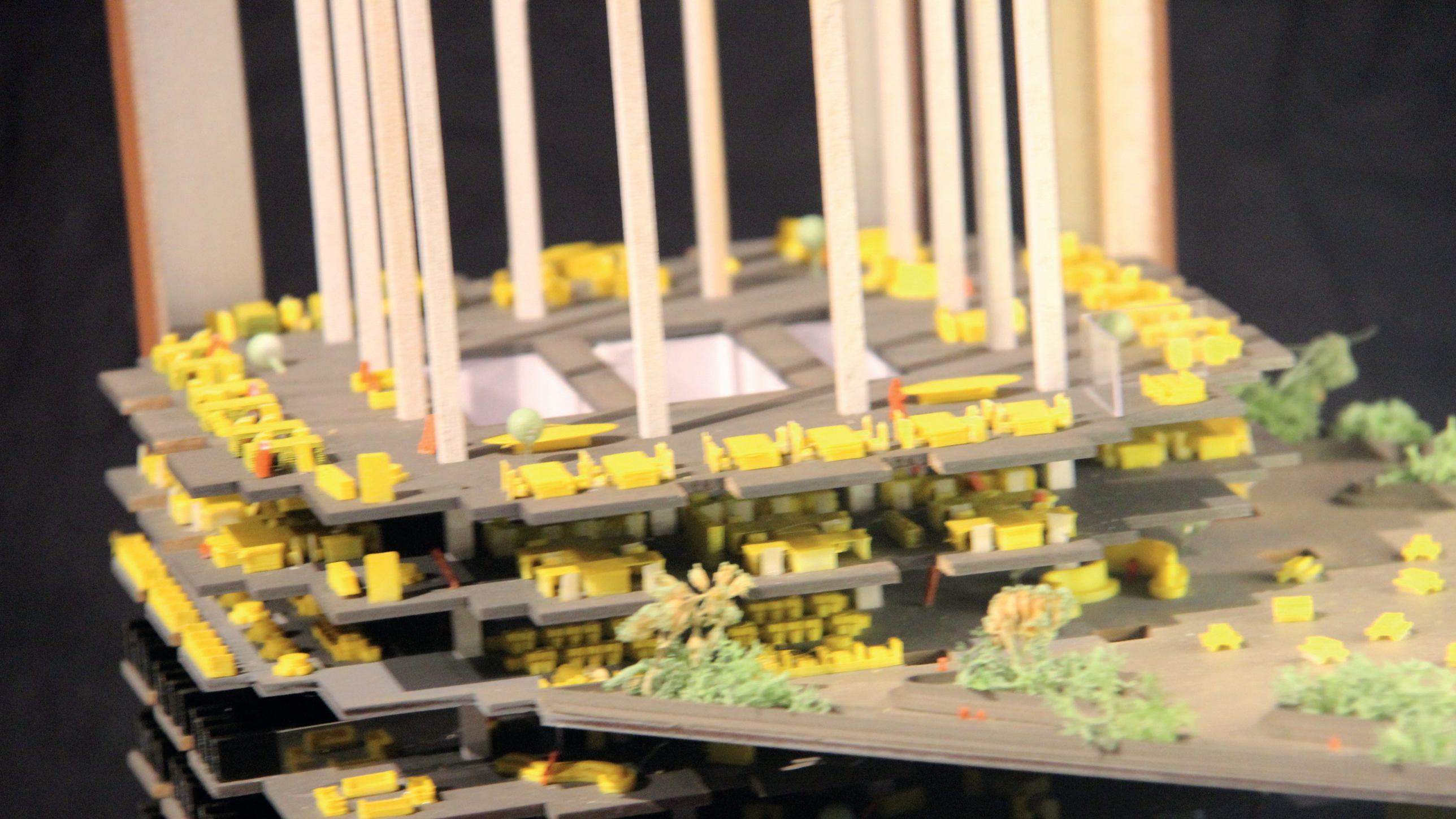


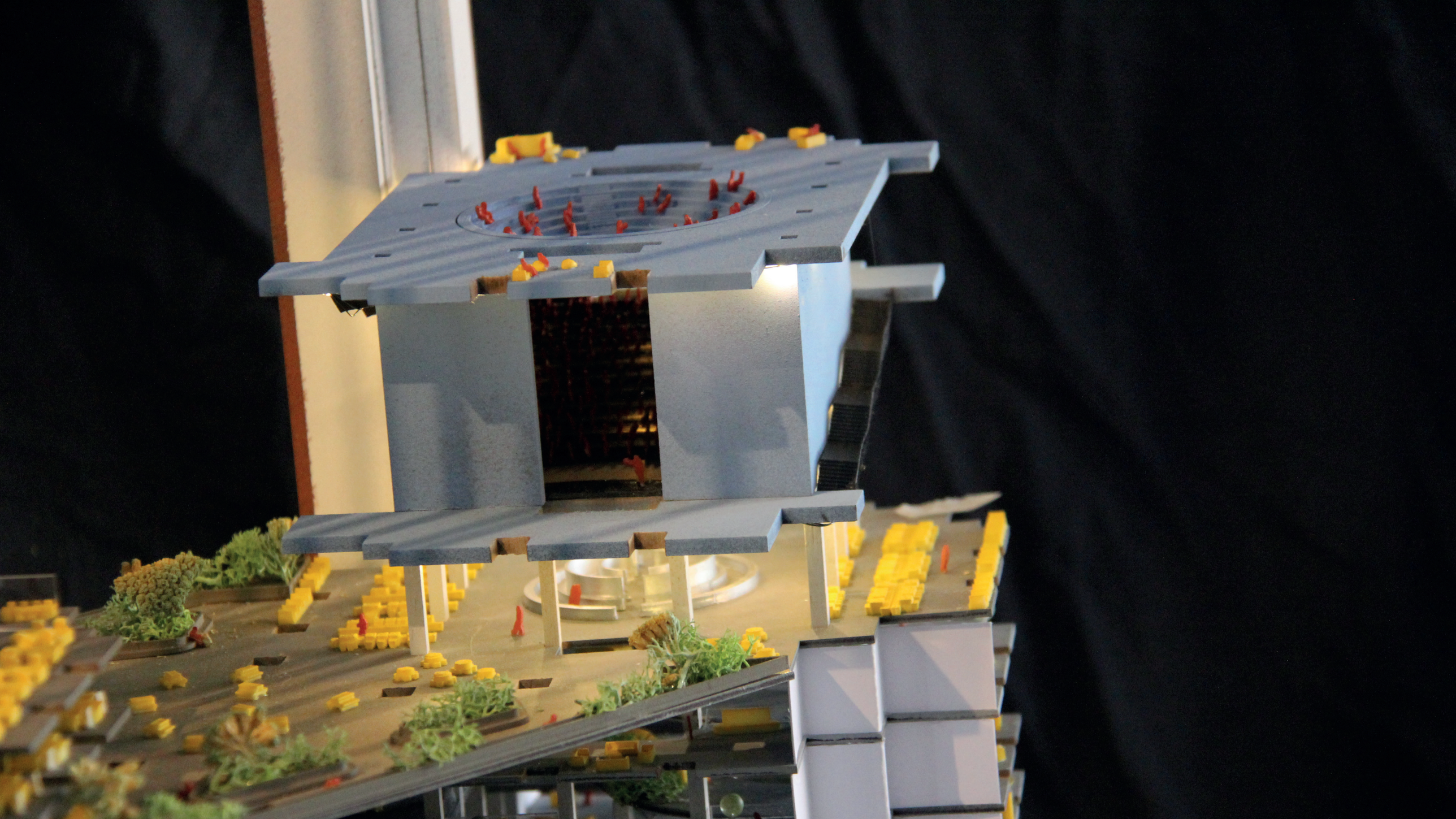


FOOD COURT
ROOF PARK

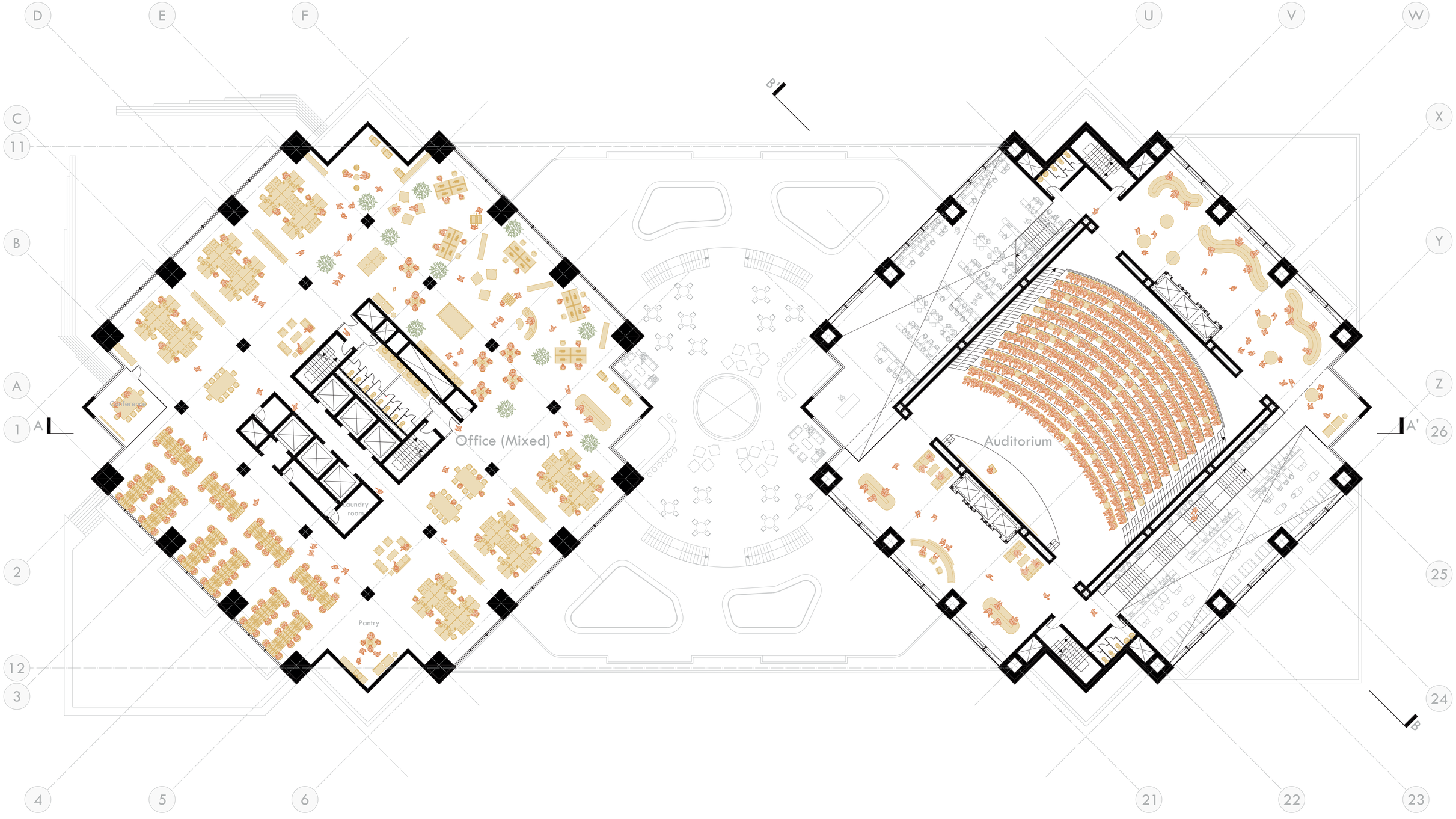

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Roof Park
Googler Restaurant
Food Court



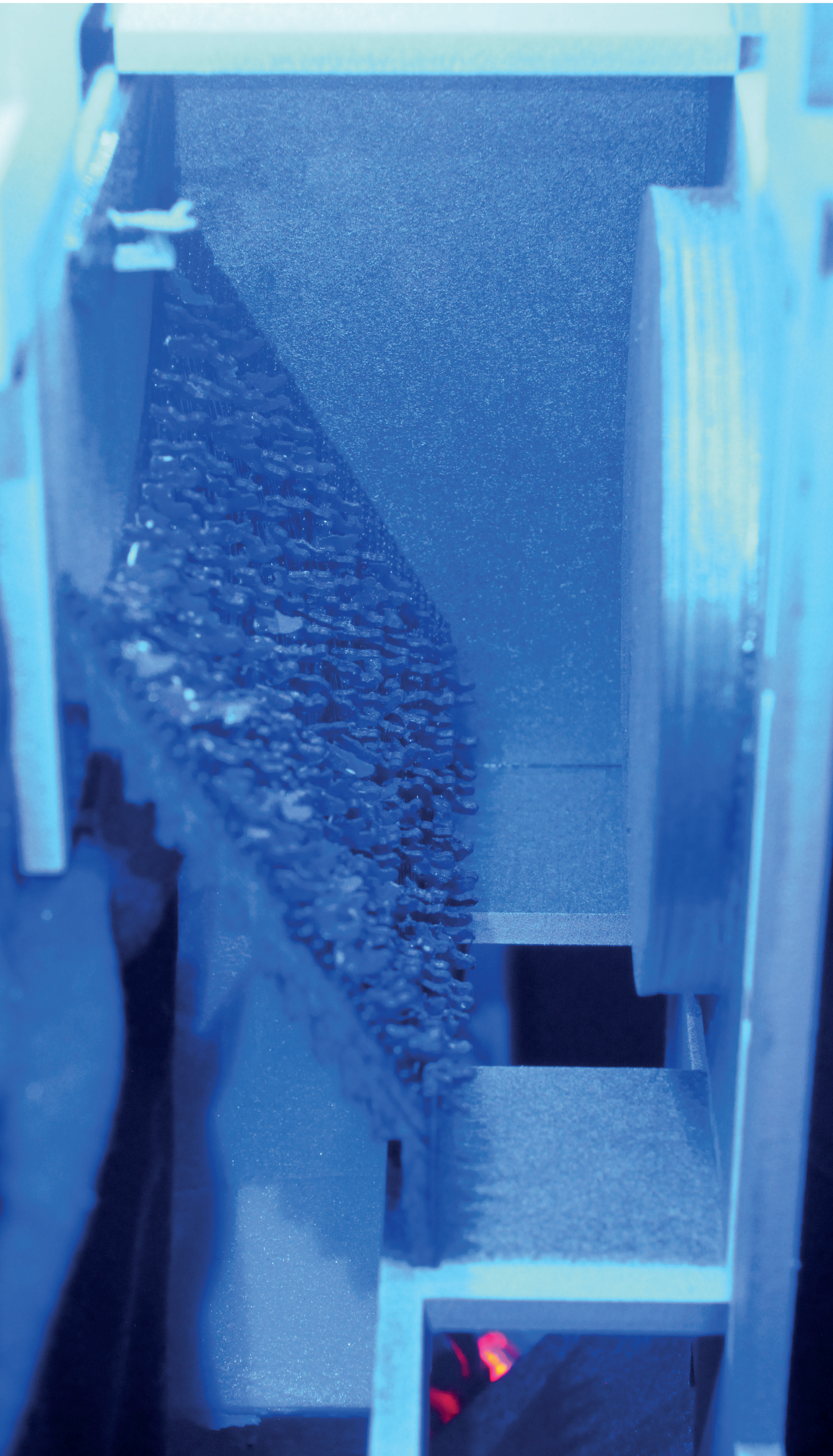




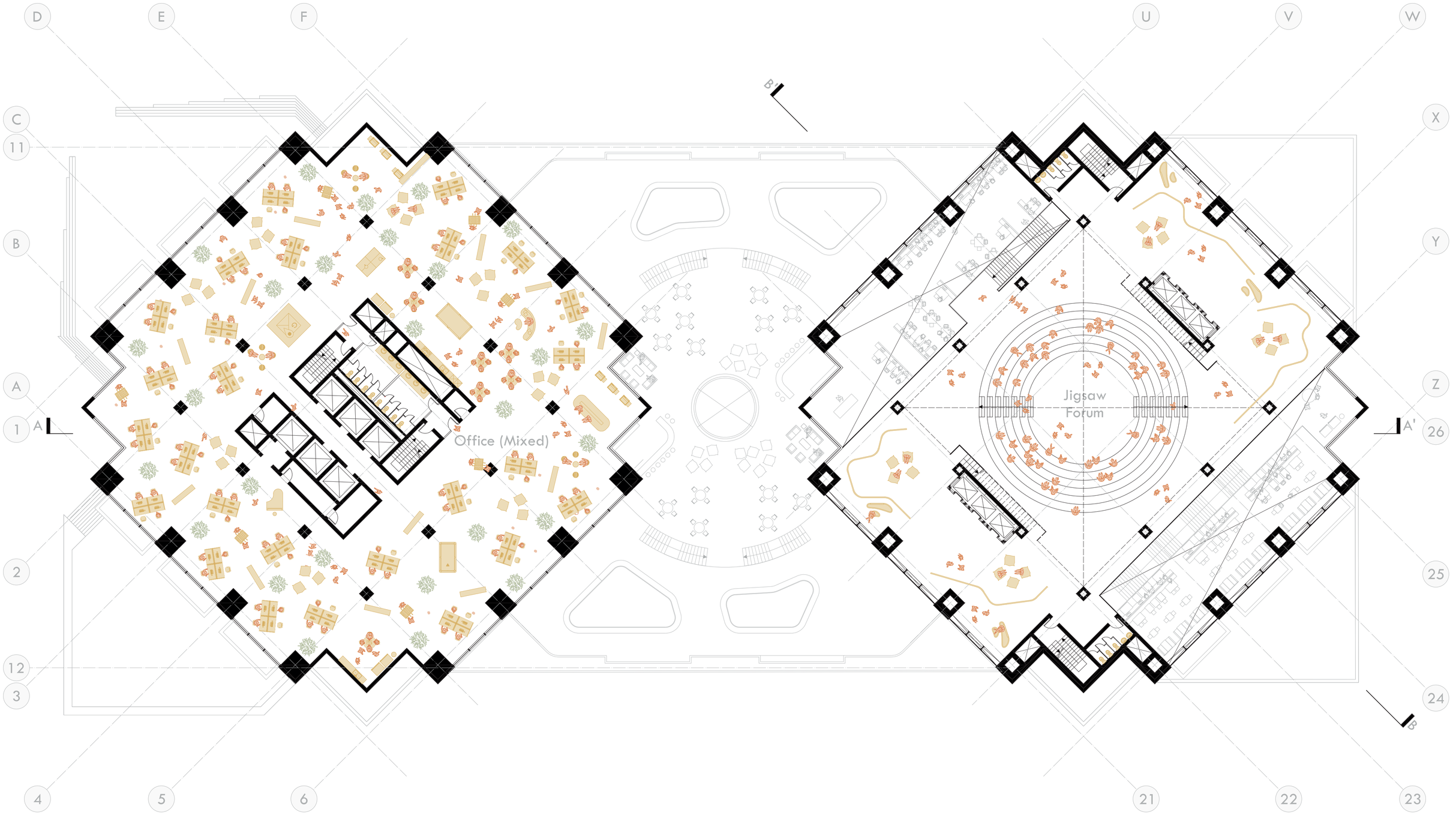
AUDITORIUM

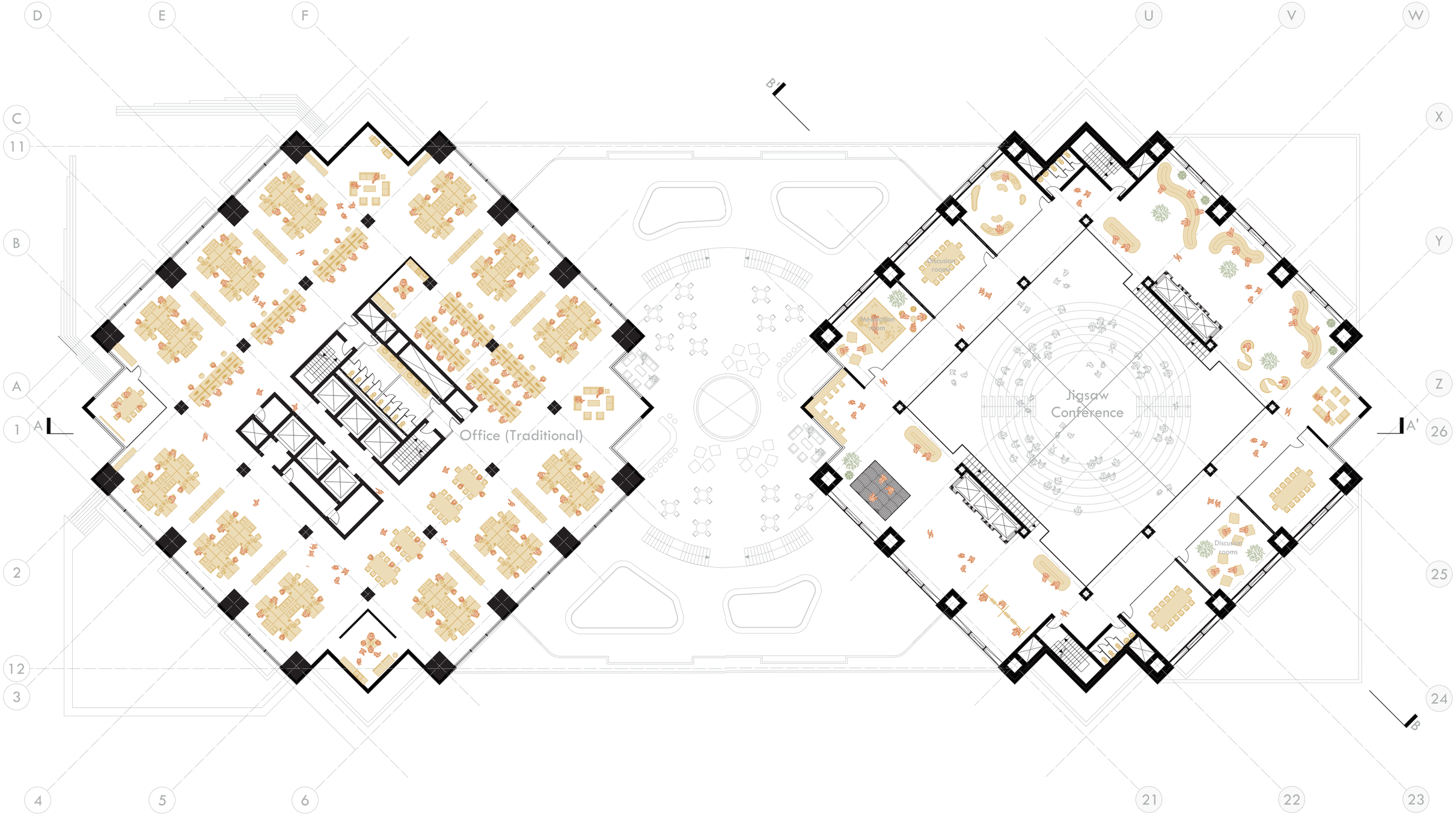


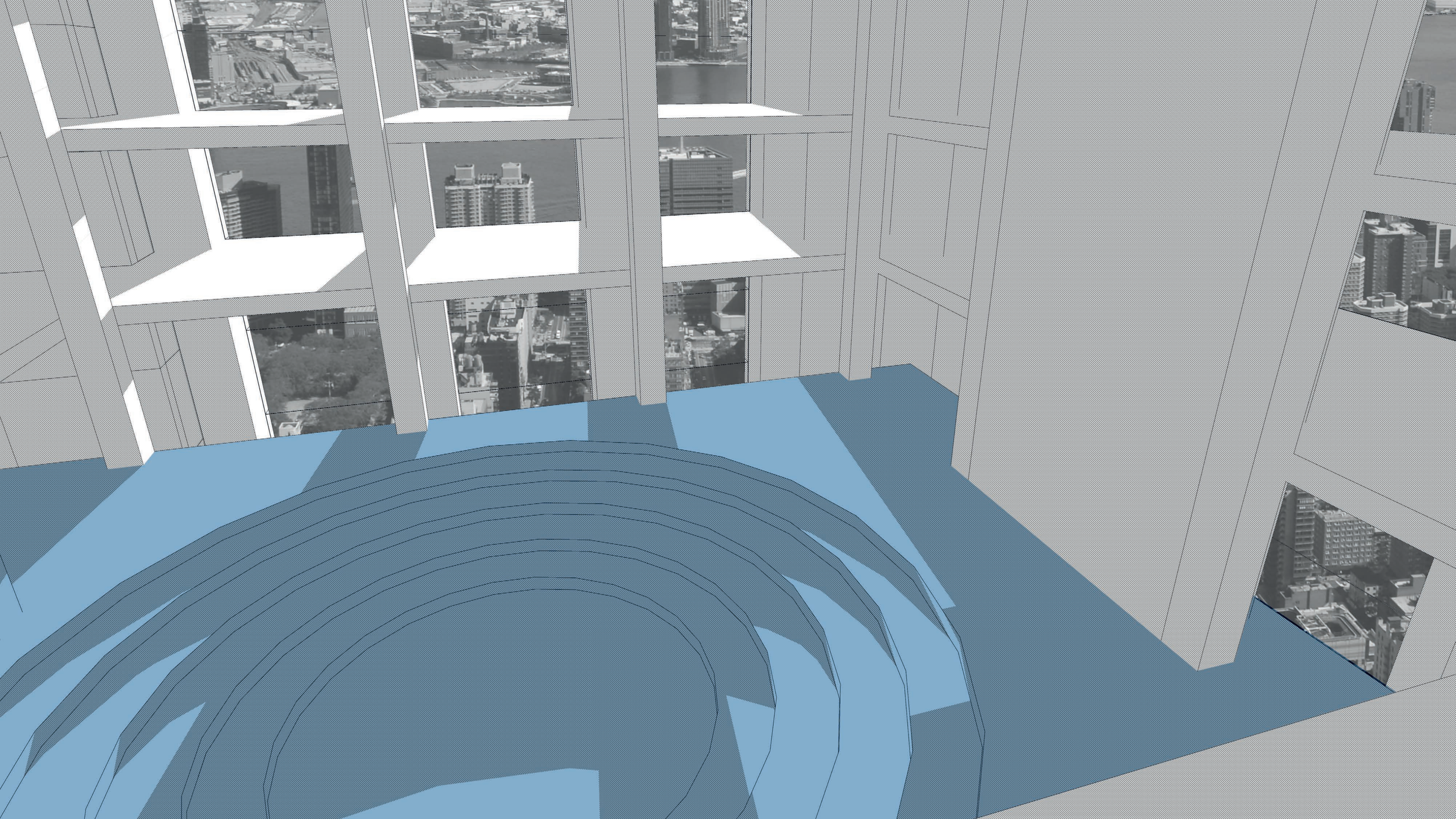
D
E
F
U
V
W
C
11
B
A
1
2
12
3
4
5
6
X
Y
Z
26
25
24
21
22
23
A
A'
B'
B
Office (Mixed)
Auditorium
Laundry room
Pantry



JIGSAW FORUM

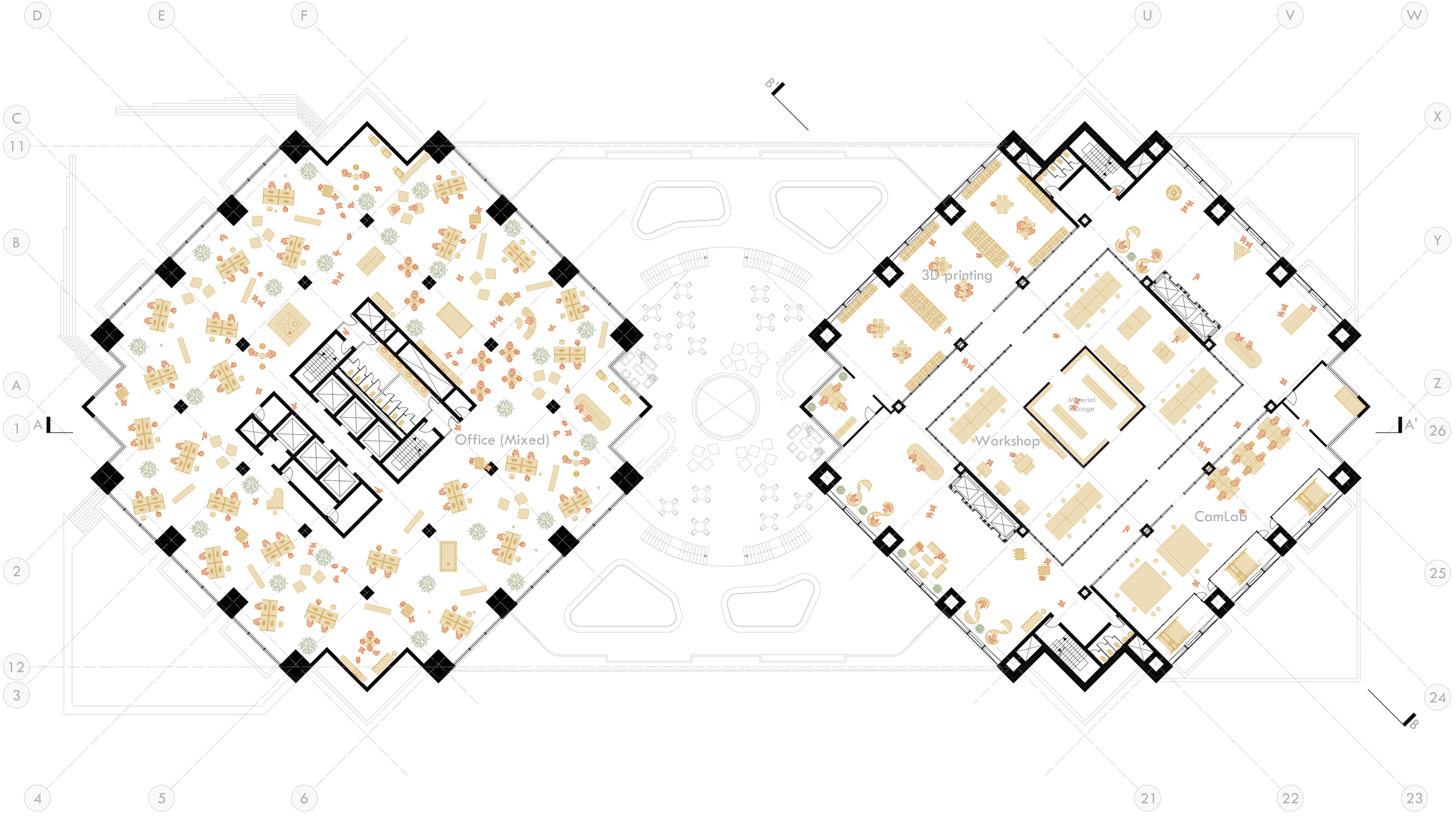

D
E
F
U
V
W
C
11
X
B
Y
A
1
A
A'
Z
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Mixed)
Jigsaw
Forum


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Traditional)
Discussion rooms
Meditation room
Jigsaw Conference
Discussion rooms



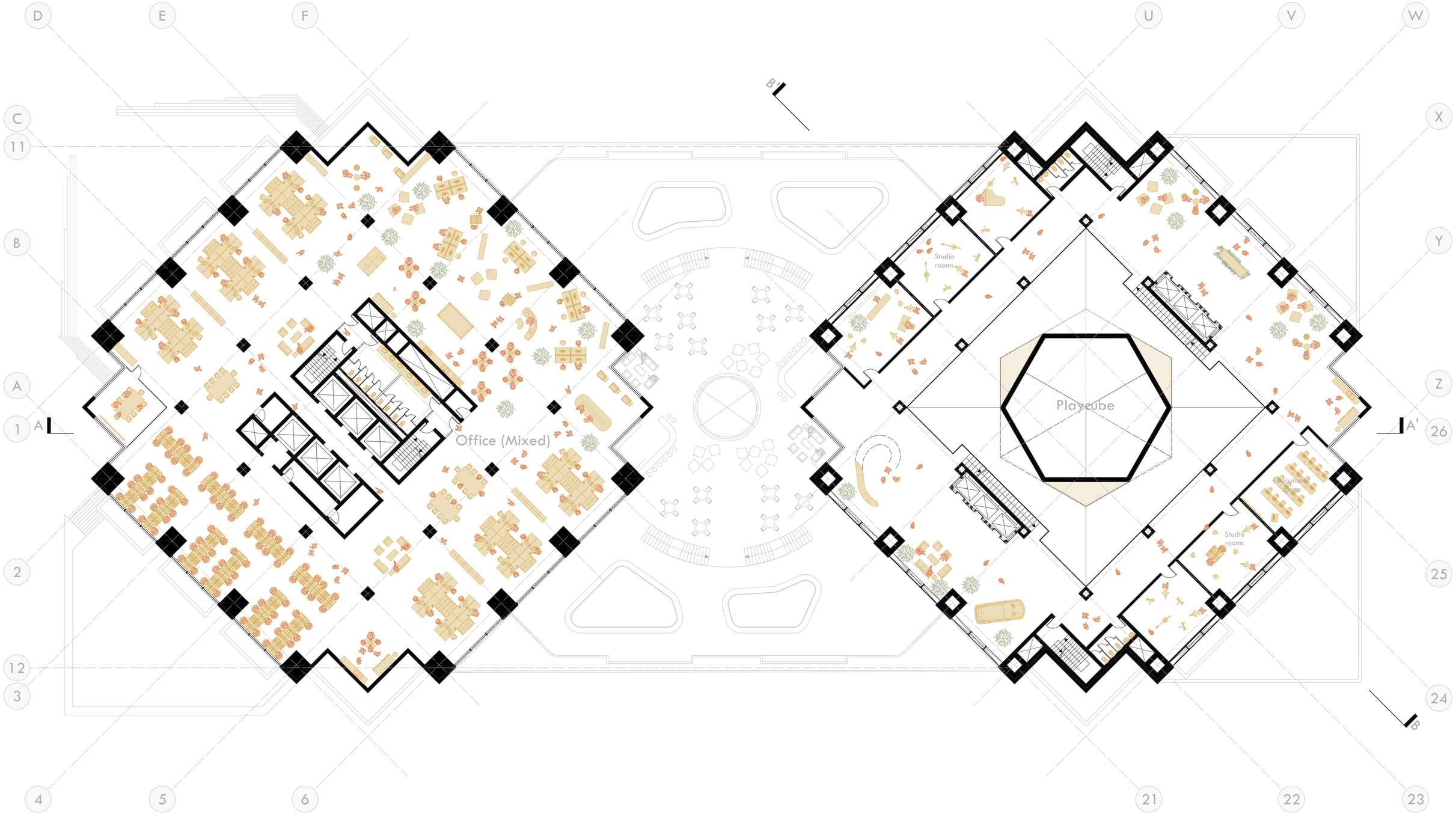


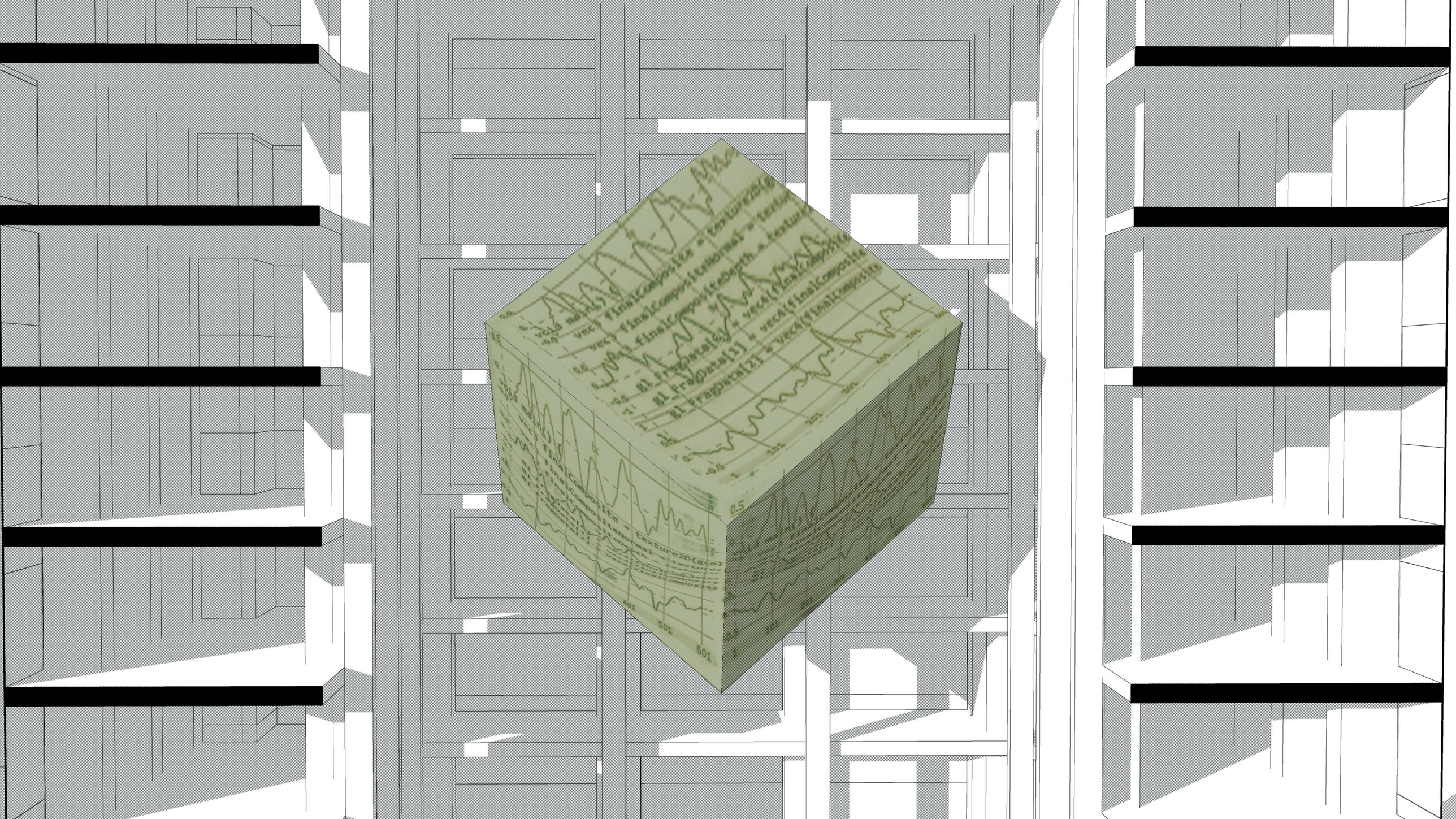
ATAP PROTOTYPING


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Mixed)
3D printing
Material Storage
Workshop
CamLab

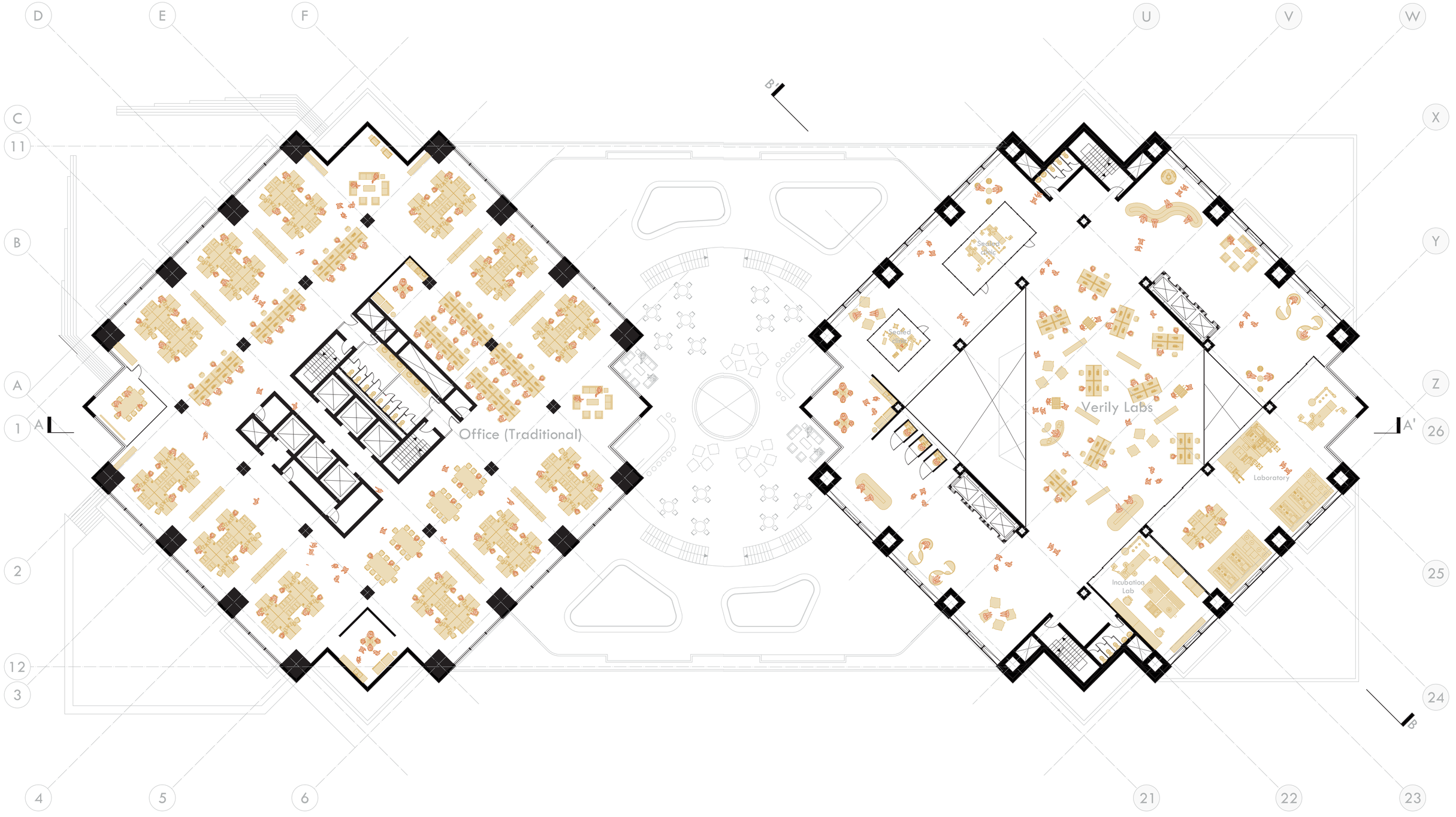


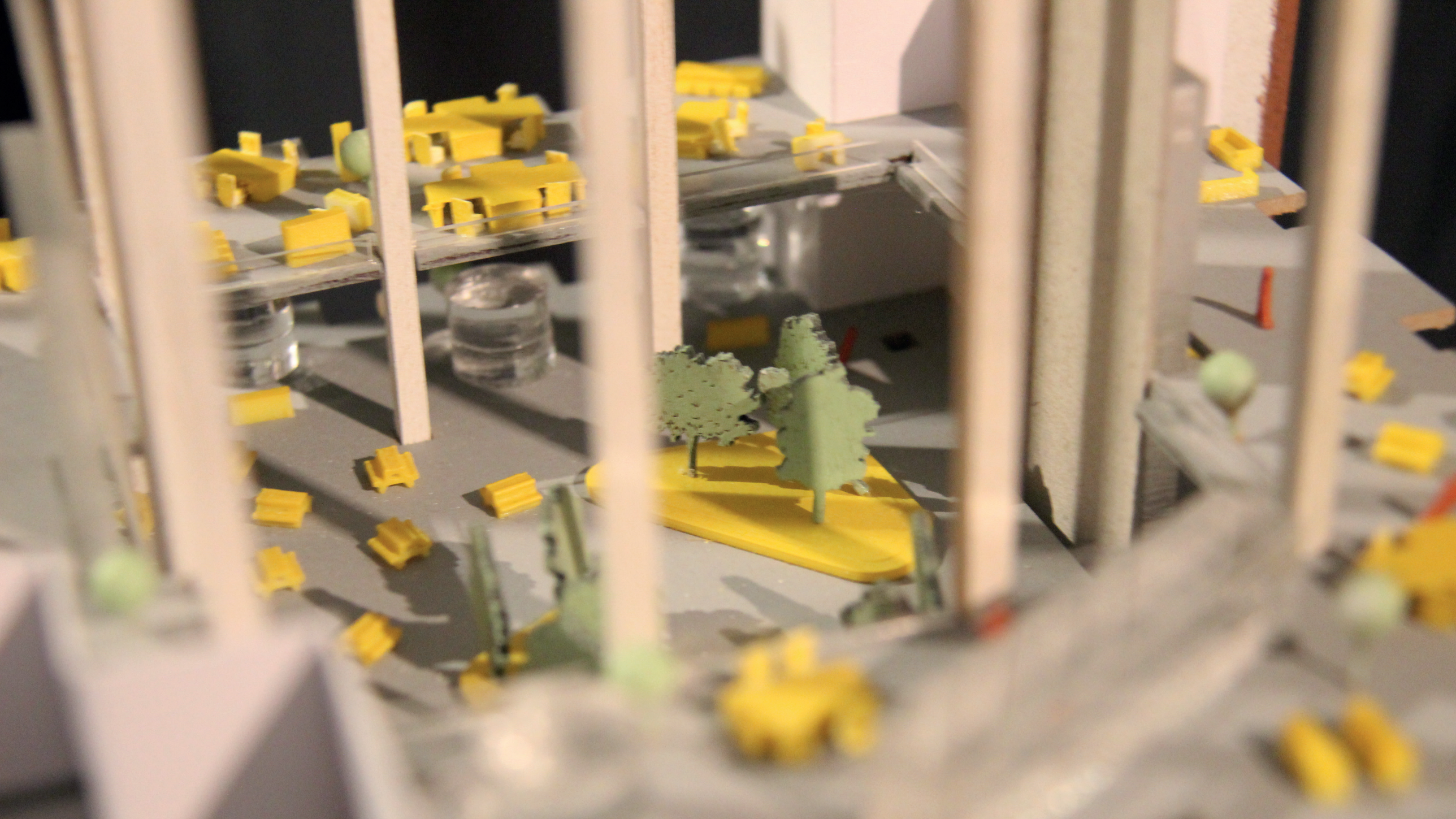
YOUTUBE


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B
4
5
6
21
22
23
Office (Mixed)
Studio rooms
Playcube
Reception area
Studio rooms



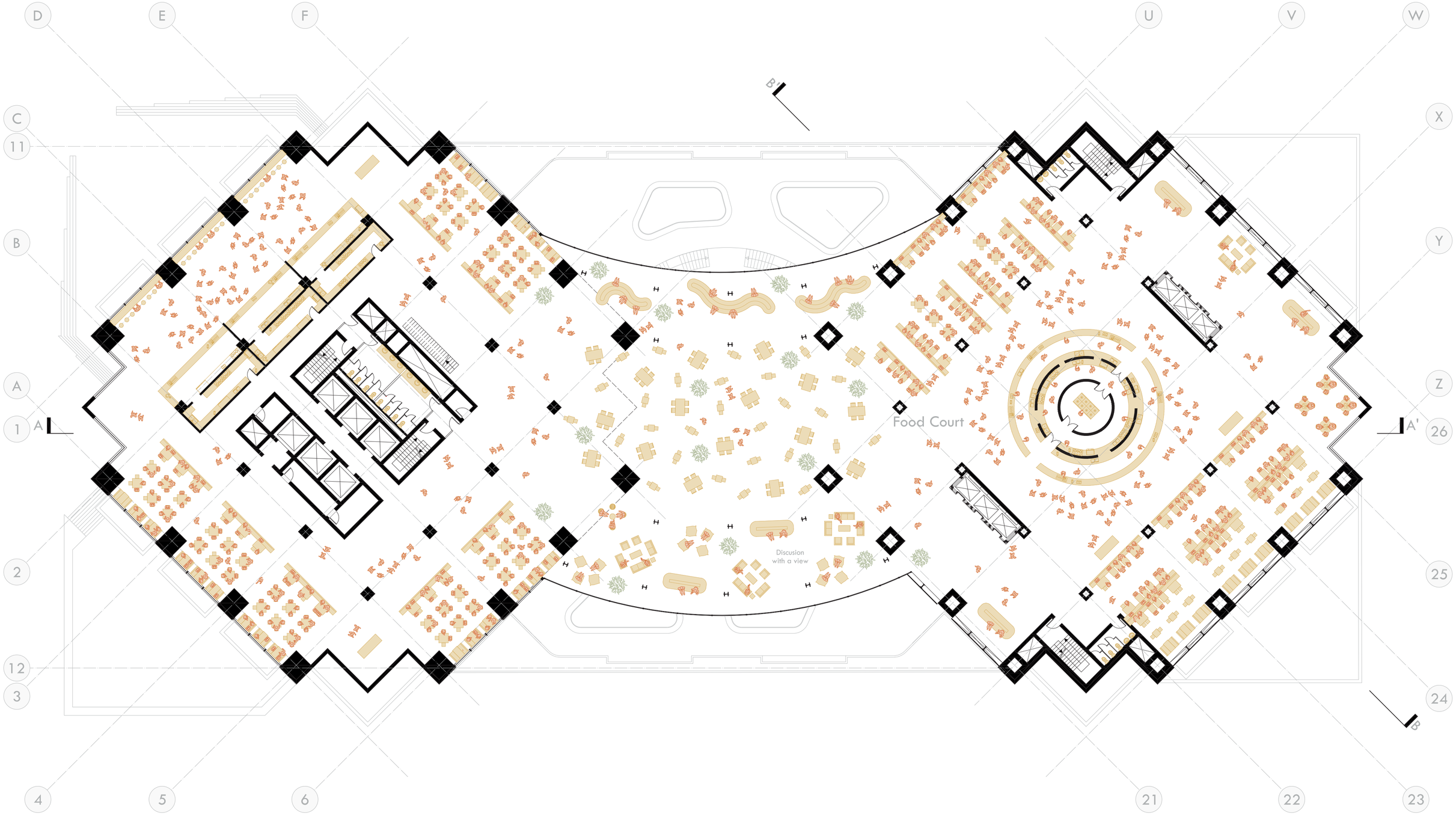
VERILY

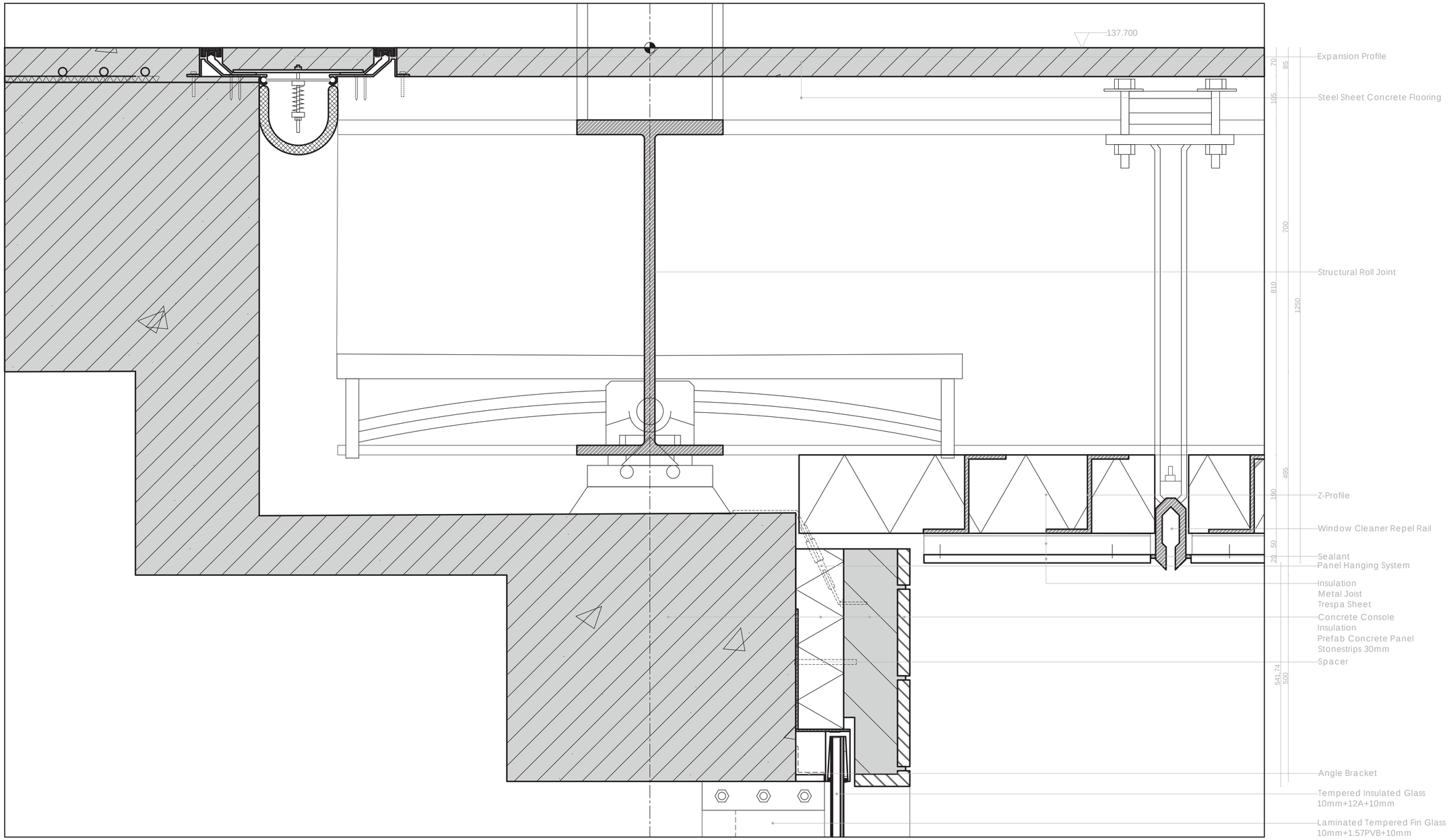

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Traditional)
Seated Clinic
Seated Clinic
Verily Labs
Laboratory
Incubation Lab





FOOD BRIDGE


D
E
F
U
V
W
C
11
B
X
Y
A
Z
1
A
A'
26
Food Court
Discusion
with a view
2
25
12
3
24
B
B'
4
5
6
21
22
23


137.700
Expansion Profile
Steel Sheet Concrete Flooring
Structural Roll Joint
Z-Profile
Window Cleaner Repel Rail
Sealant
Panel Hanging System
Insulation
Metal Joist
Trespa Sheet
Concrete Console
Insulation
Prefab Concrete Panel
Stonestrips 30mm
Spacer
Angle Bracket
Tempered Insulated Glass
10mm+12A+10mm
Laminated Tempered Fin Glass
10mm+1.57PVB+10mm
70
85
105
700
810
1250
495
190
50
20
541.74
500
480
435
355
187.63
700
115
160

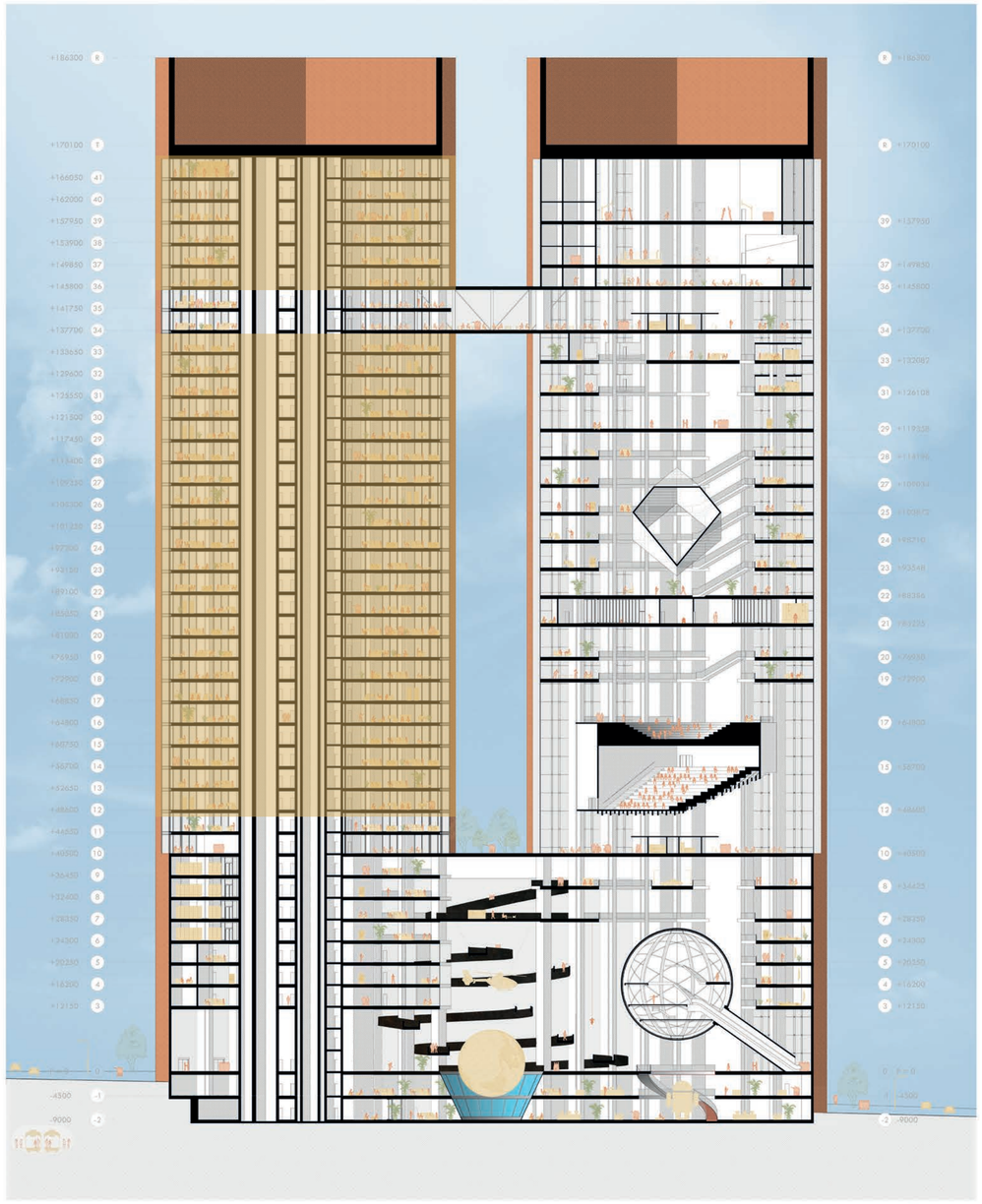


OFFICE TOWER





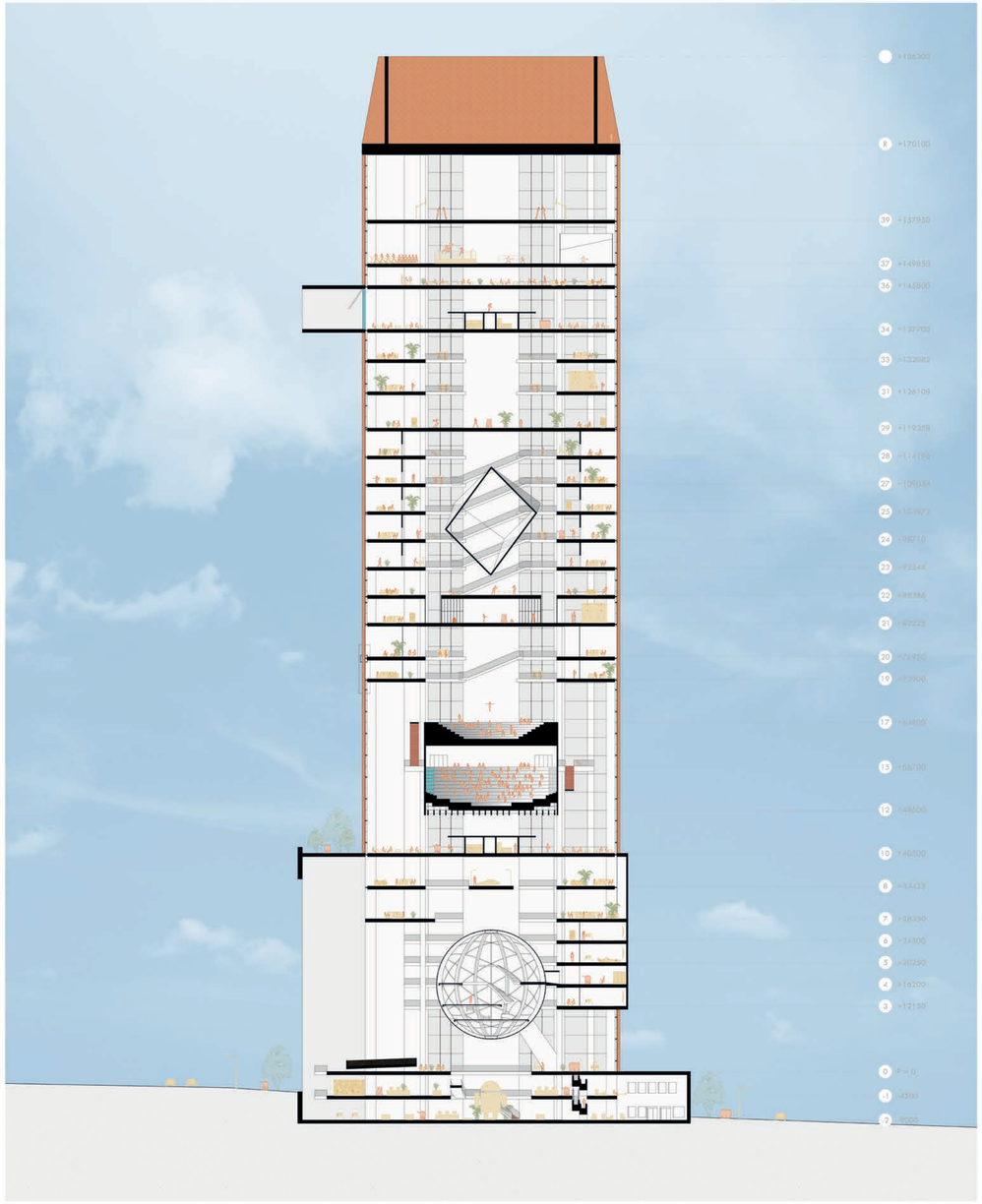
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250

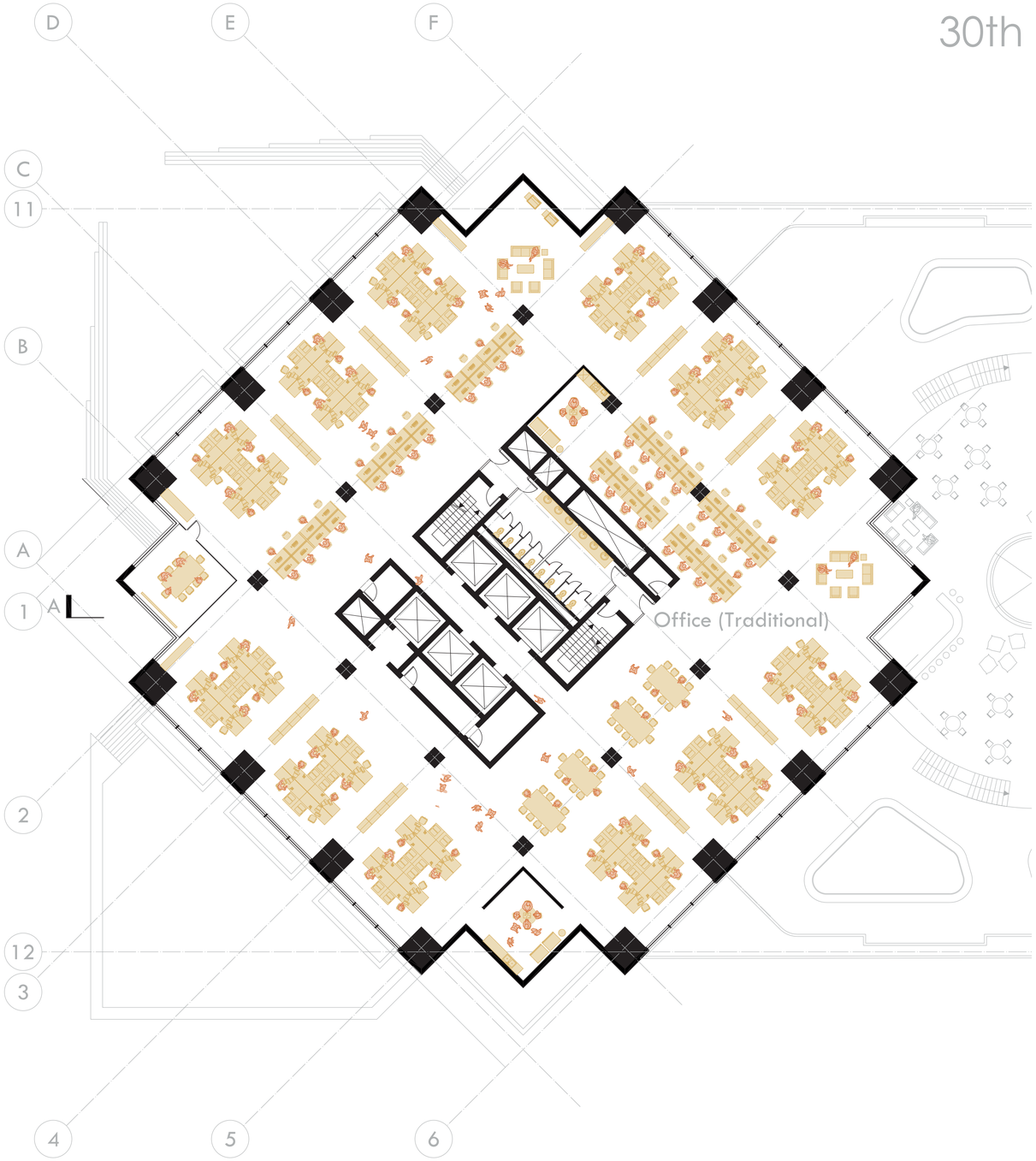
Section BB'



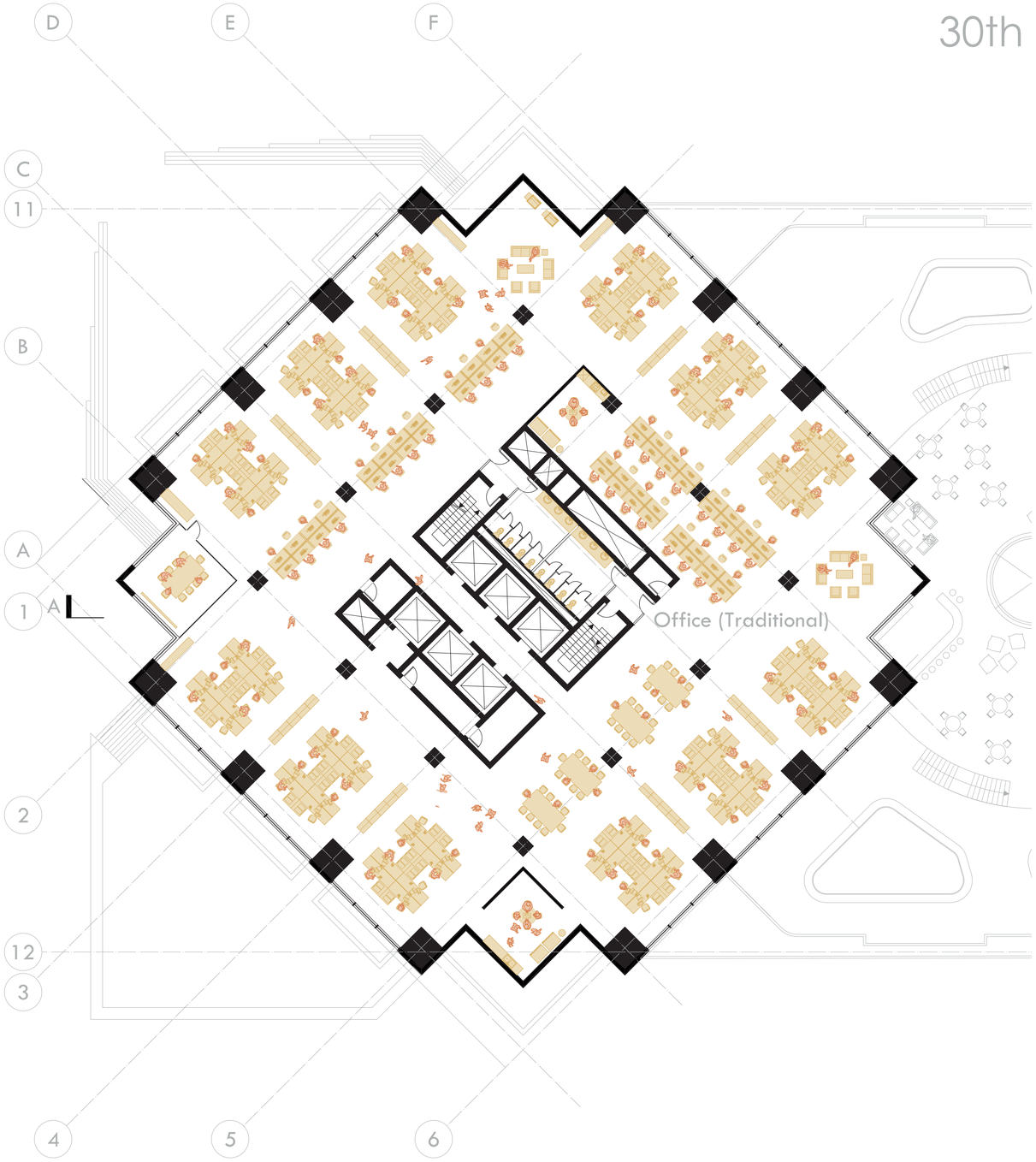
Bjorn van Dijk
4295501
New York Midtown Graduation studio

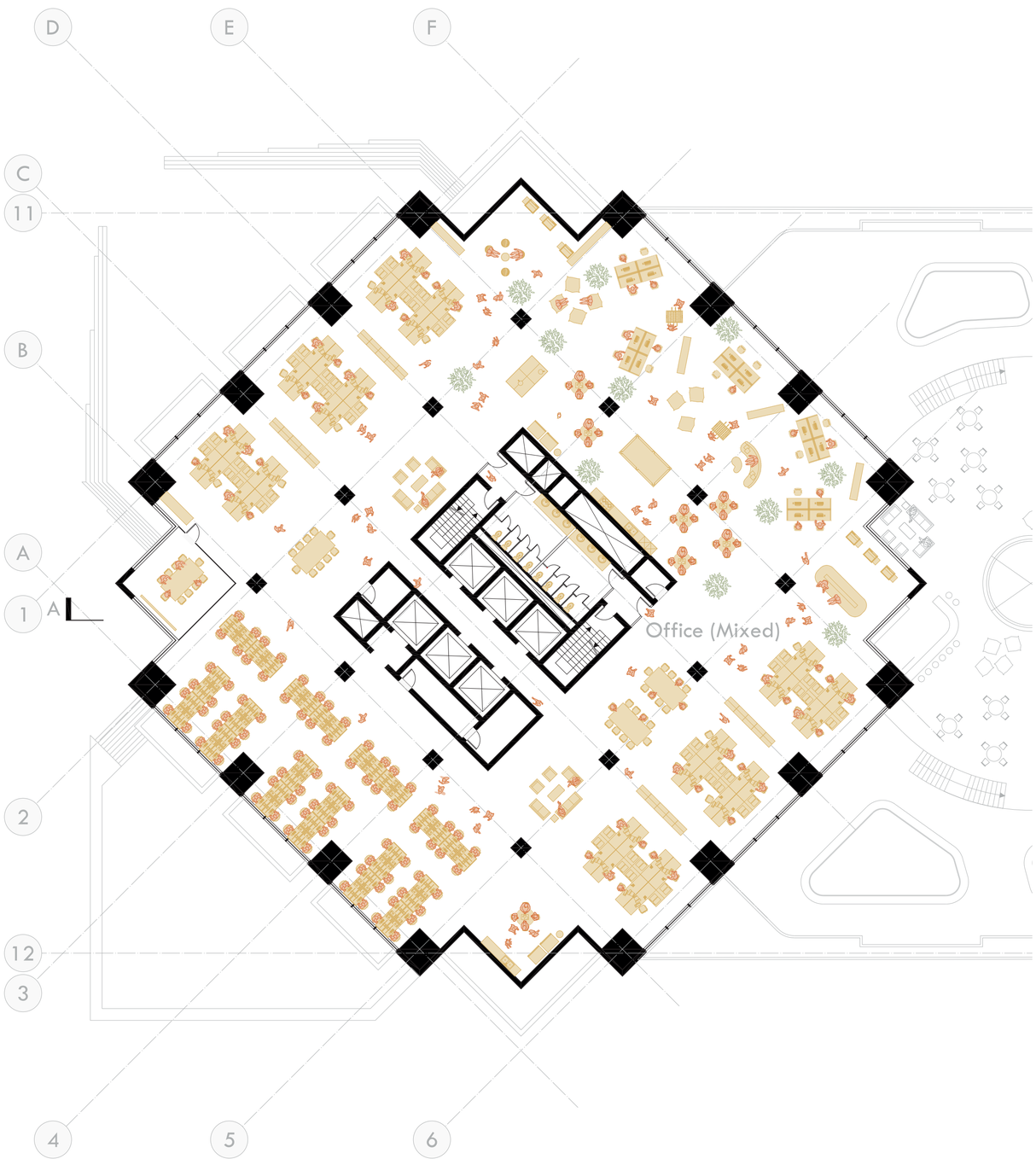
1 : 250

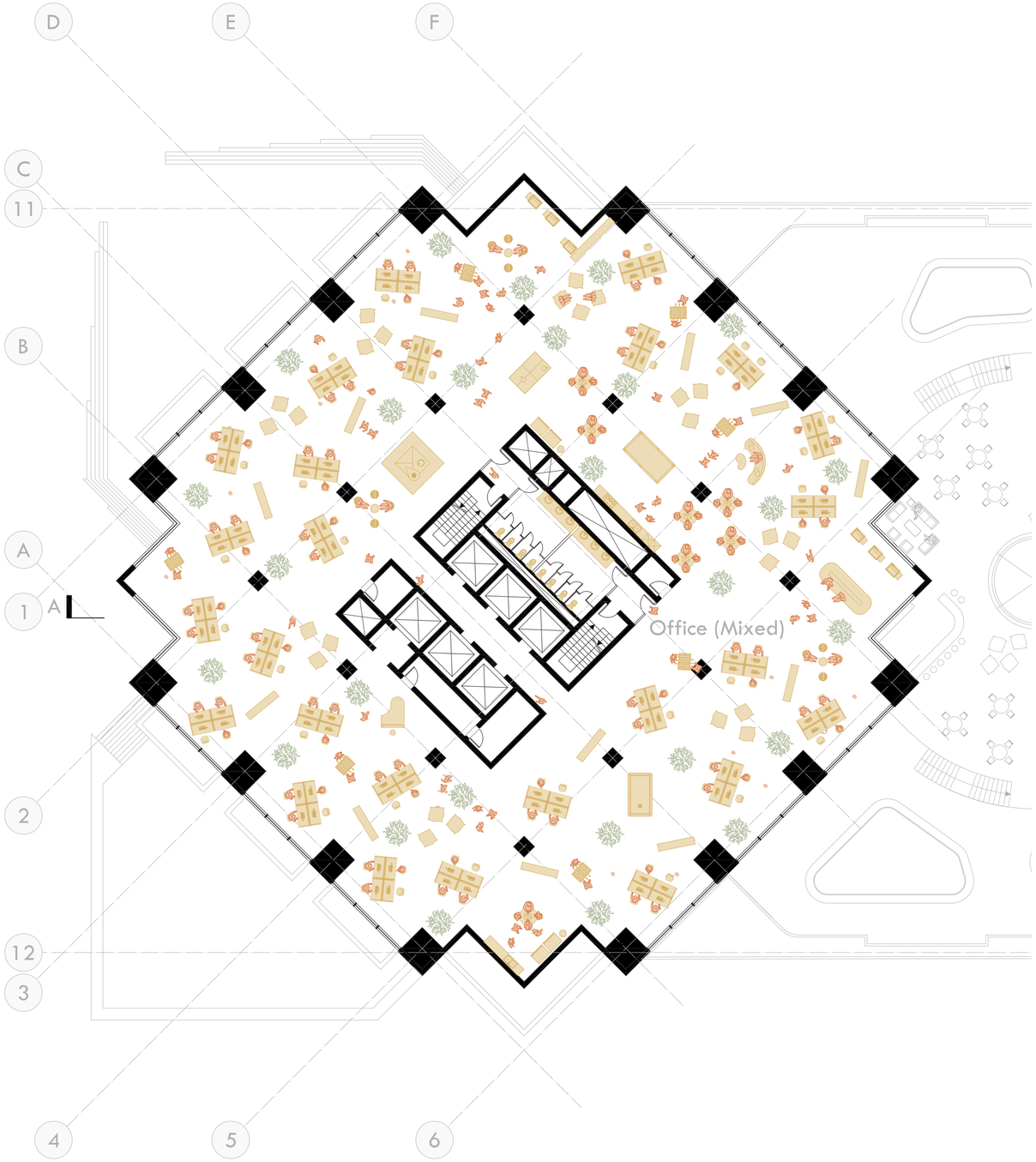
30th

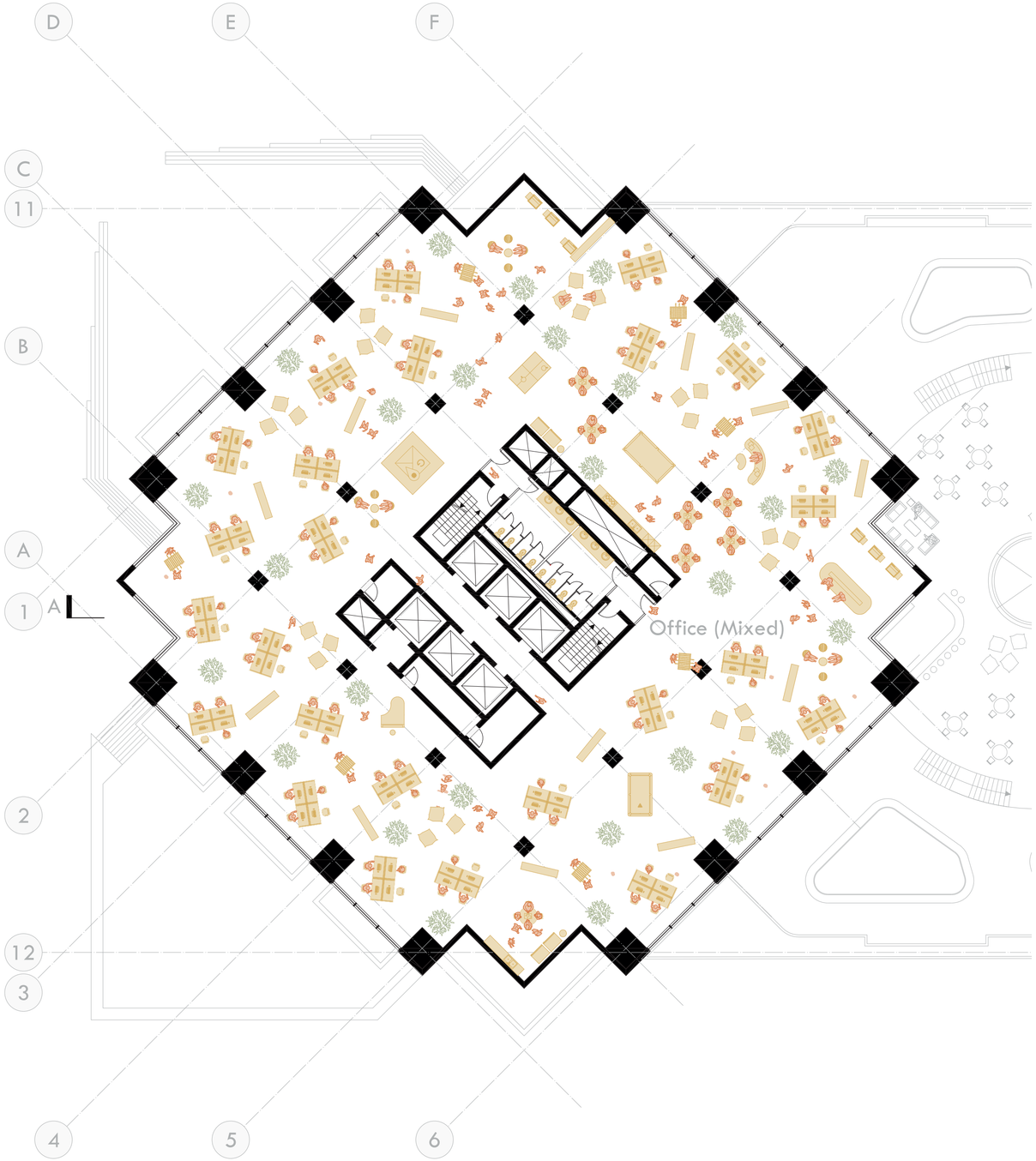


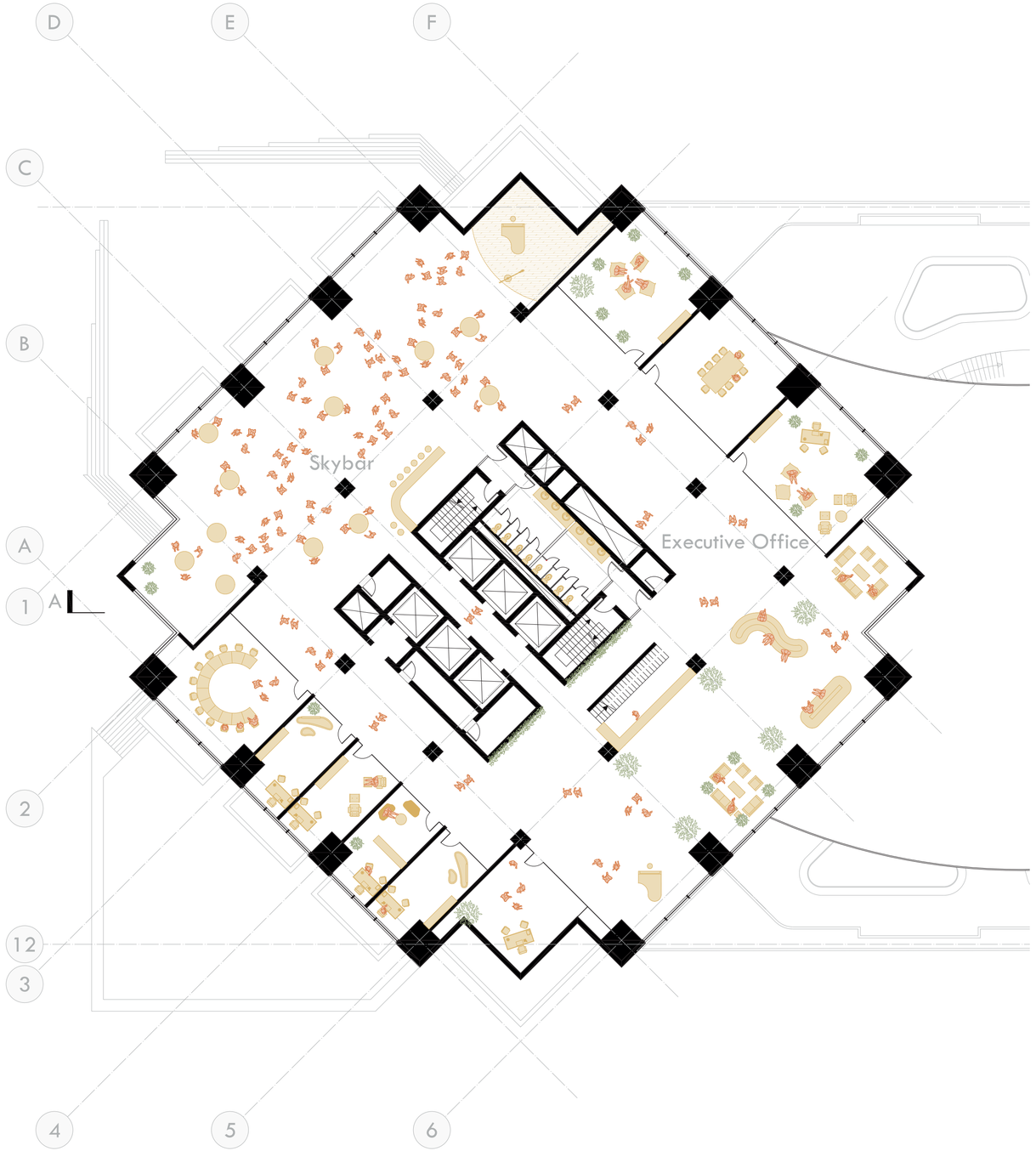
30th


D
E
F
C
11
B
A
1
A
Office (Traditional)
2
12
3
4
5
6

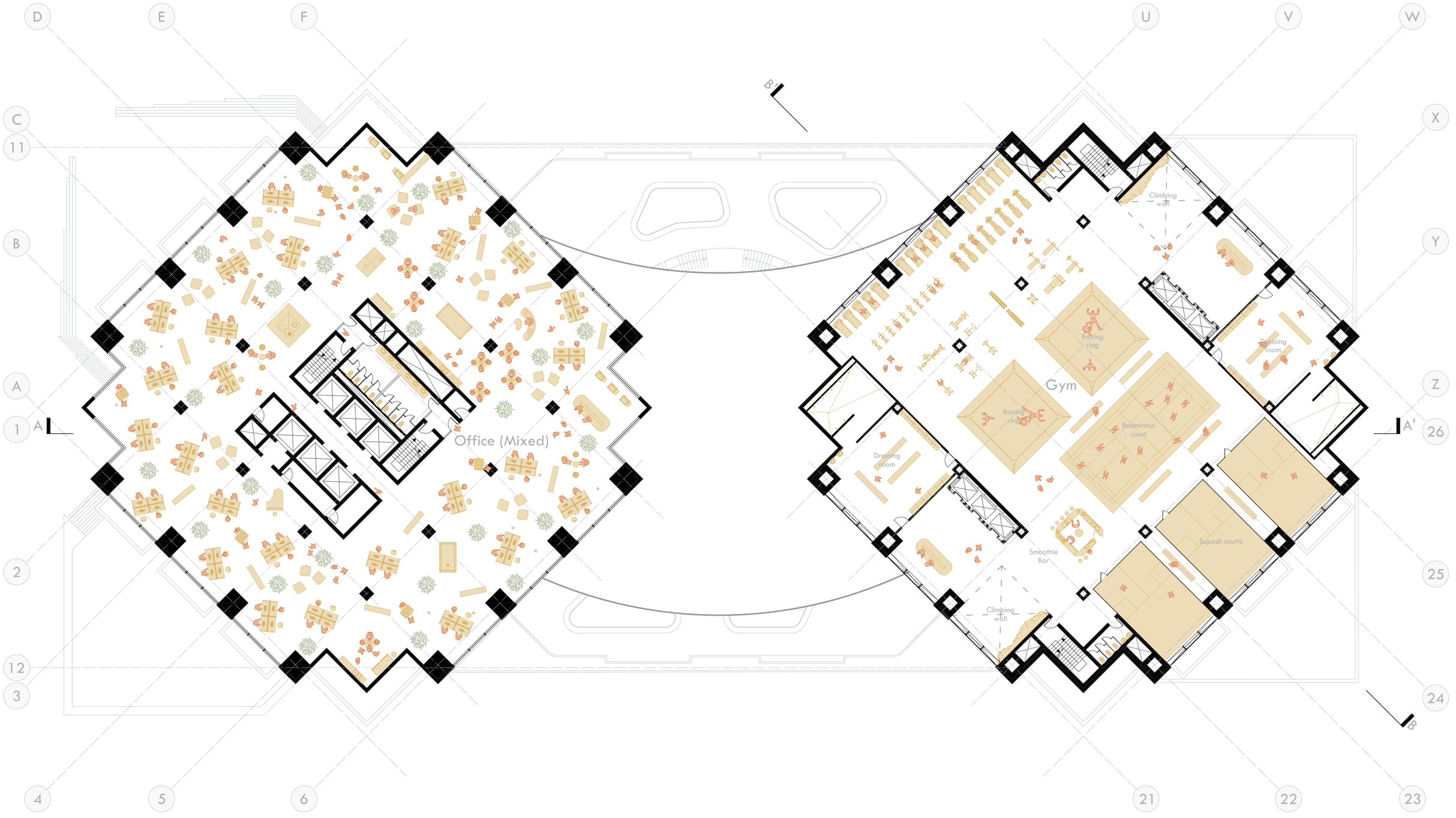

D
E
F
C
11
B
A
1
A
Office (Mixed)
2
12
3
4
5
6

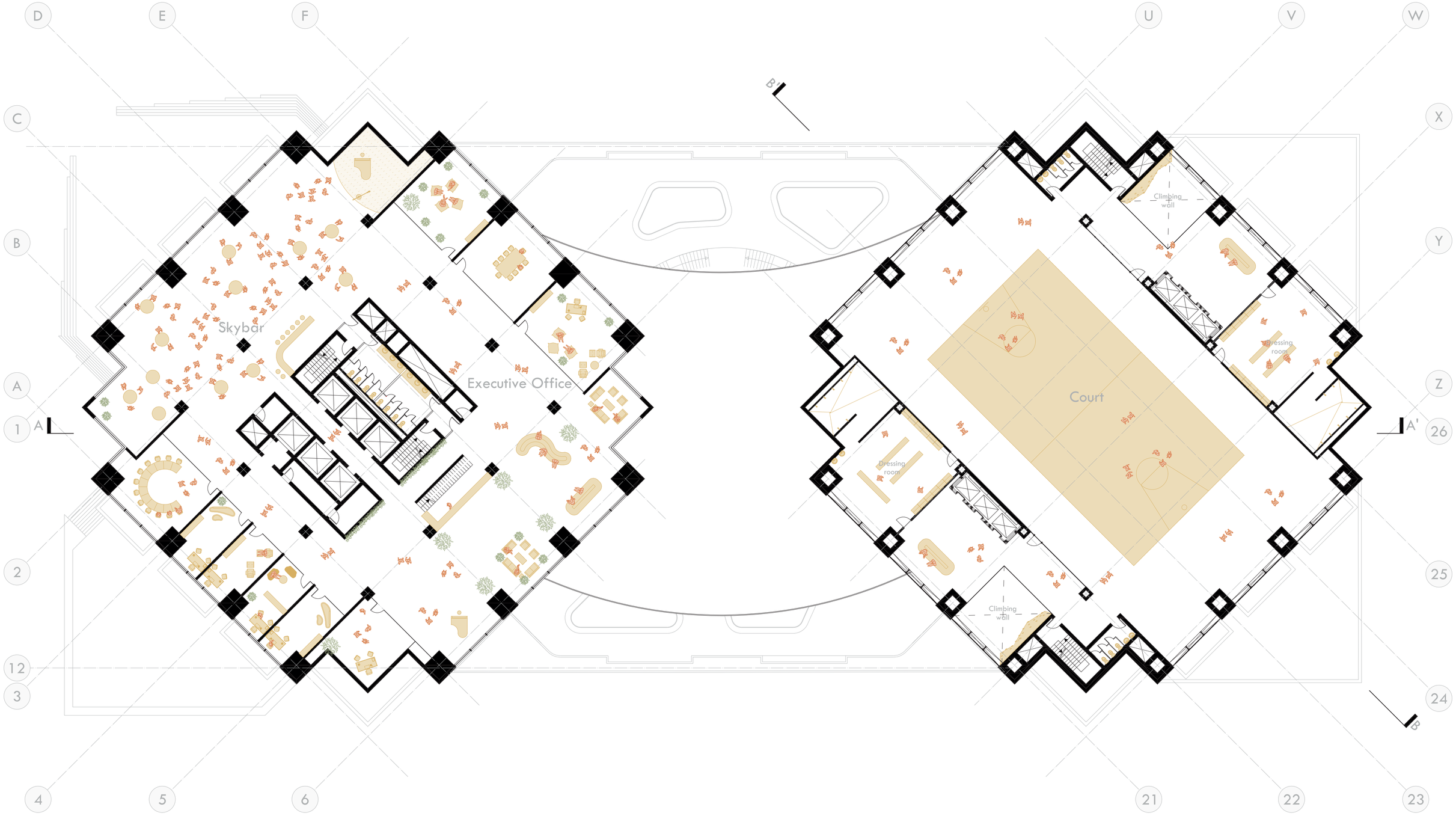

D
E
F
C
11
B
A
1
A
Office (Mixed)
2
12
3
4
5
6


D
E
F
C
11
B
A
1
A
Office (Mixed)
2
12
3
4
5
6

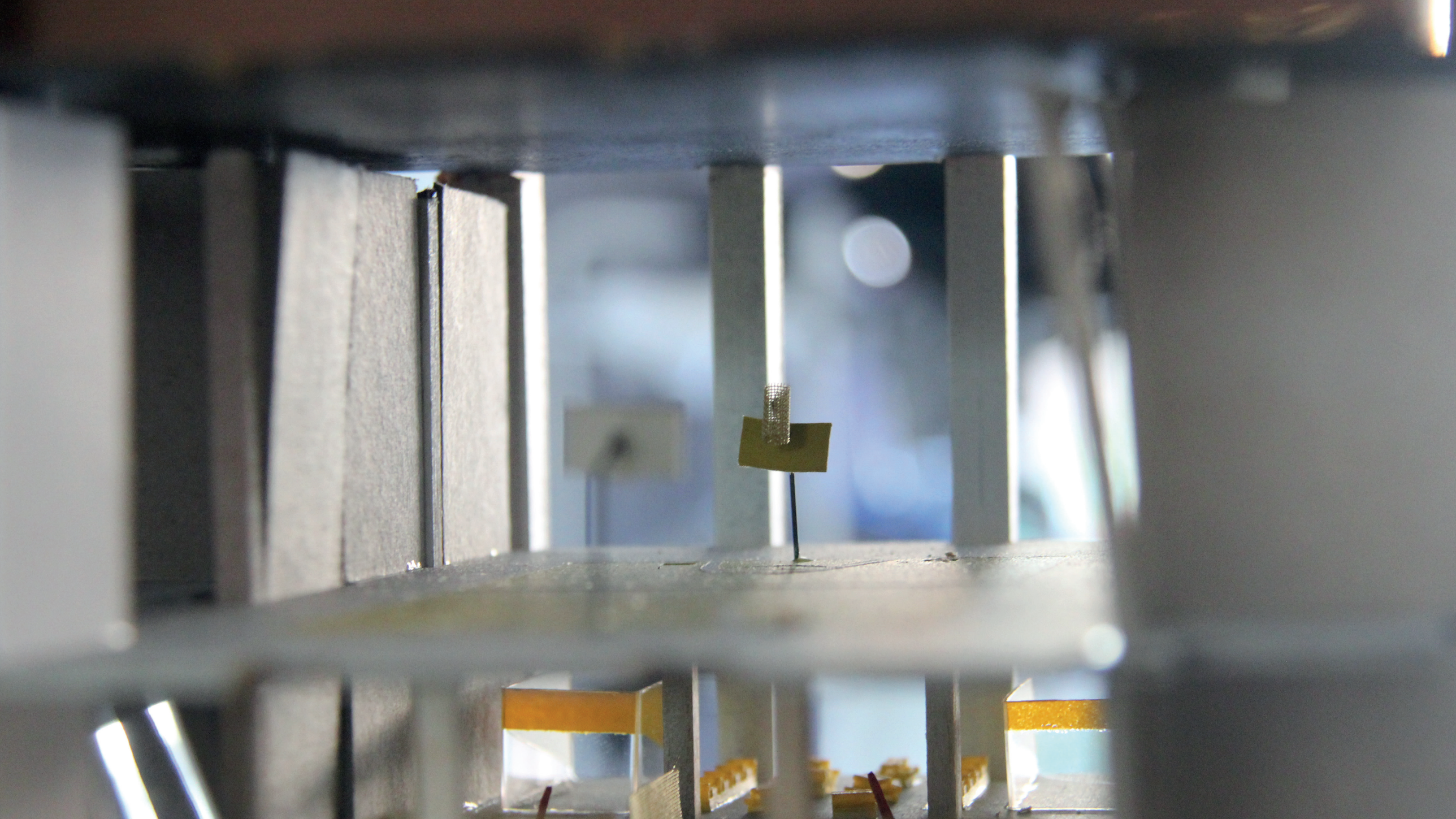

D
E
F
C
B
Skybar
Executive Office
A
1
A
2
12
3
4
5
6

SPORTS


D
E
F
U
V
W
C
11
X
B
Y
A
1
A
A'
26
Z
2
25
12
3
24
B
4
5
6
21
22
23
Office (Mixed)
Gym
Boxing ring
Boxing ring
Climbing wall
Dressing room
Badminton court
Dressing room
Smoothie Bar
Squash courts
Climbing wall

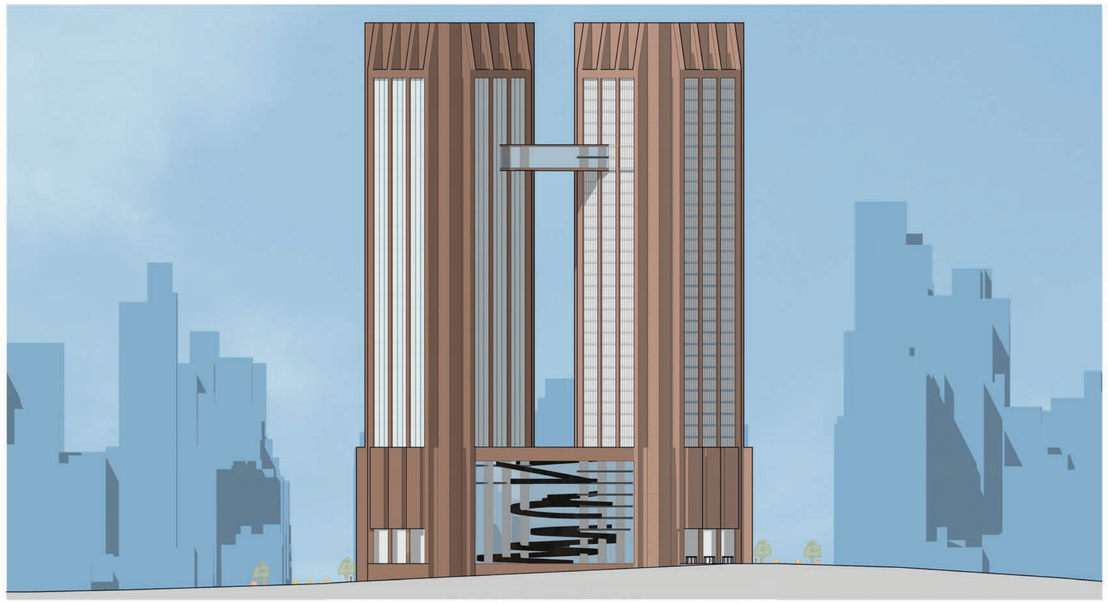

D
E
F
U
V
W
C
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B
4
5
6
21
22
23
Skybar
Executive Office
Court
Climbing wall
Dressing room
Dressing room
Climbing wall



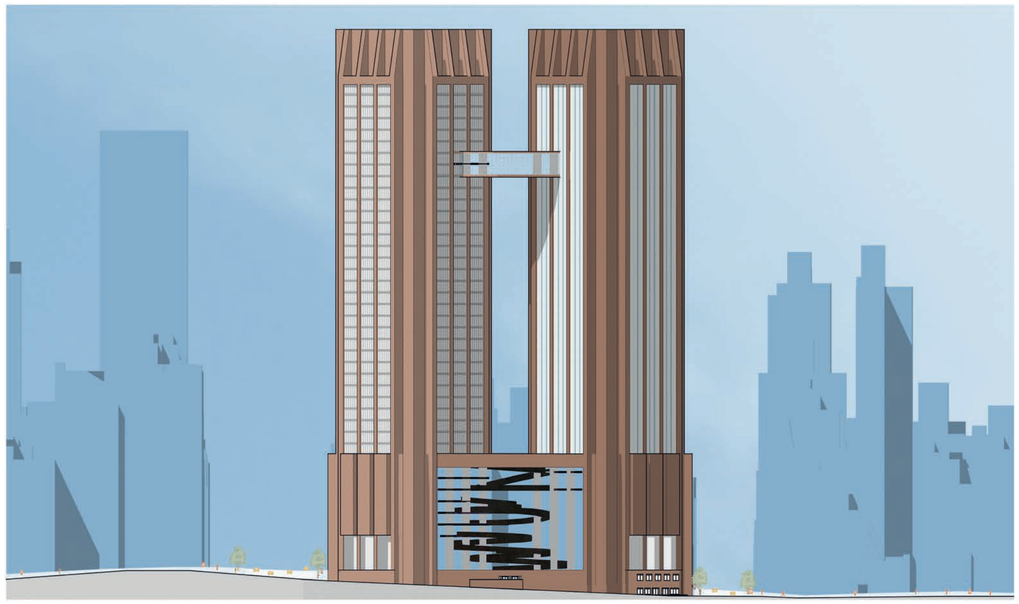


OUTSIDE

North Elevation



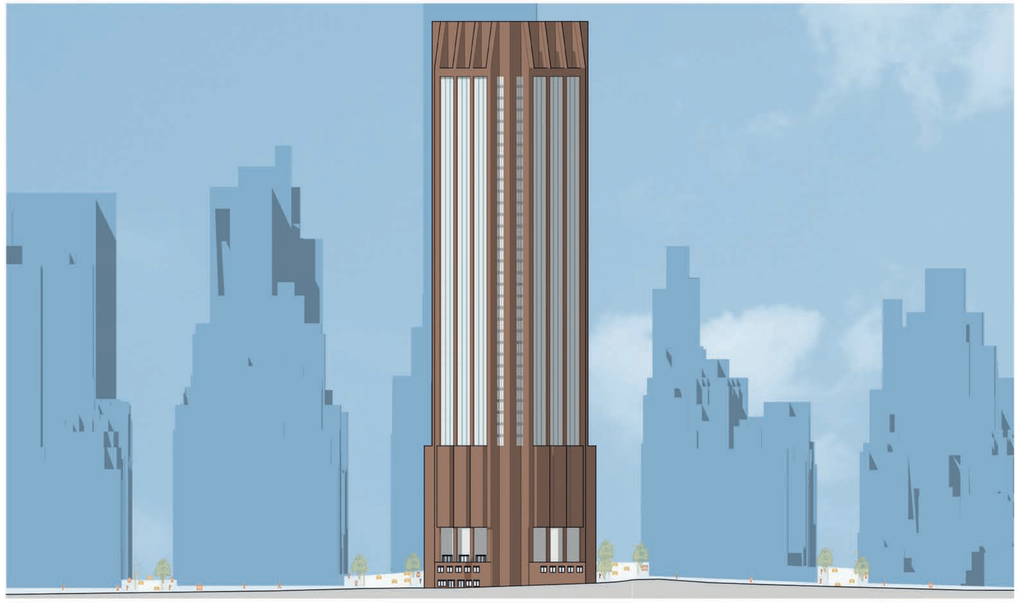
South Elevation

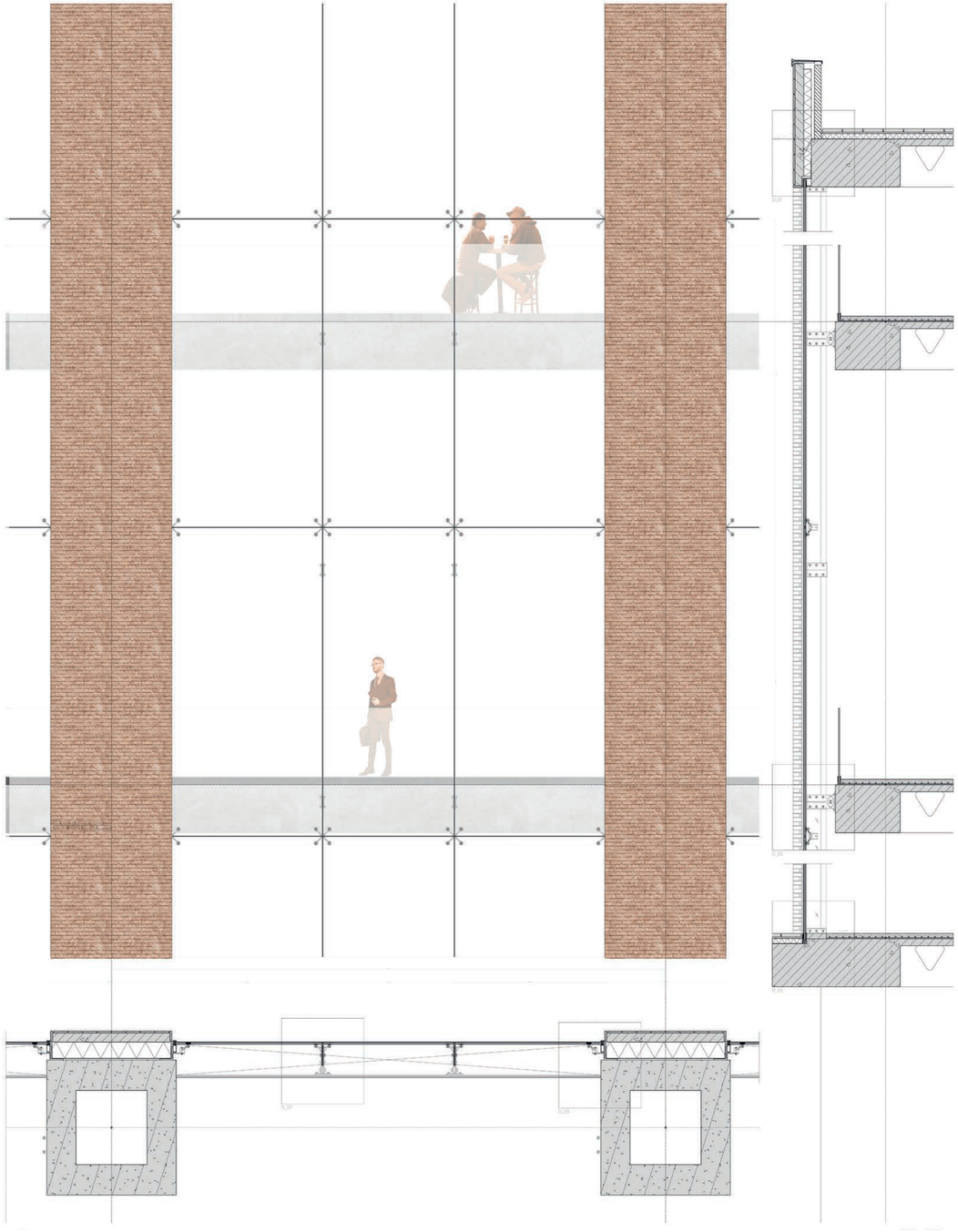


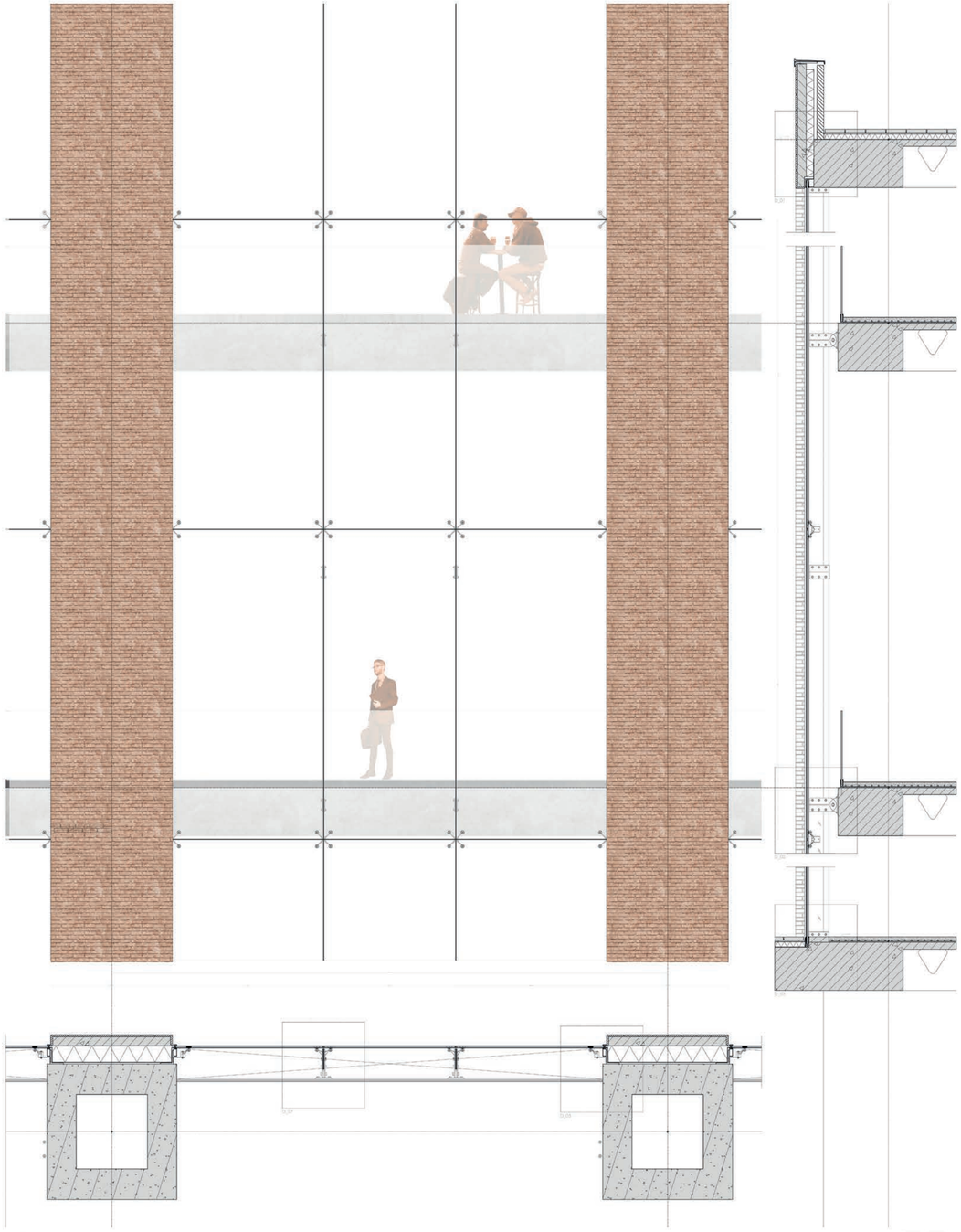
West Elevation

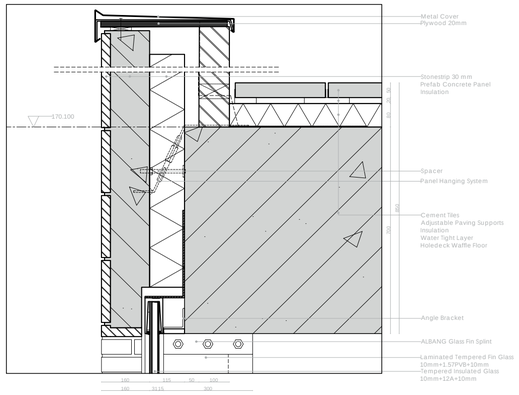


East Elevation

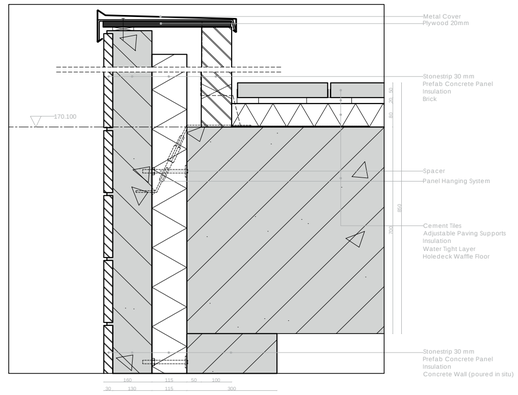




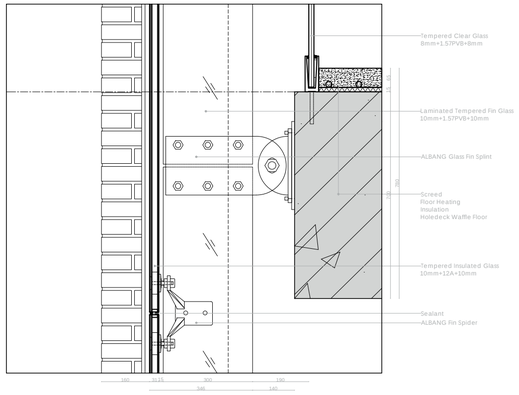




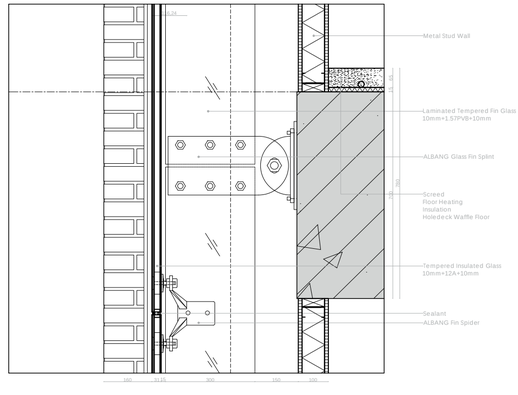
D_01_A



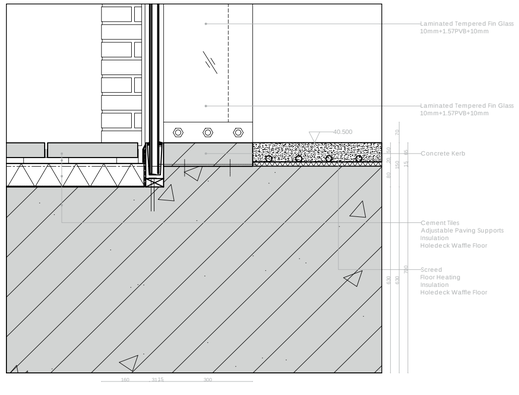
D_01_B



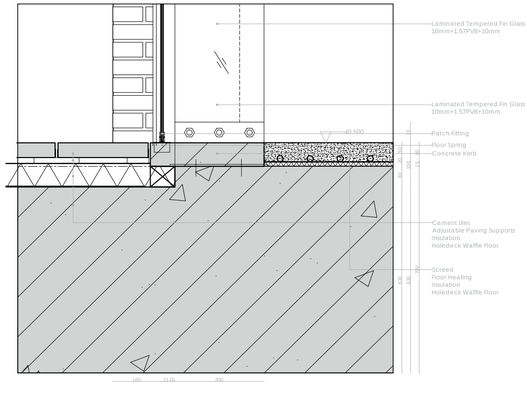
D_02_A



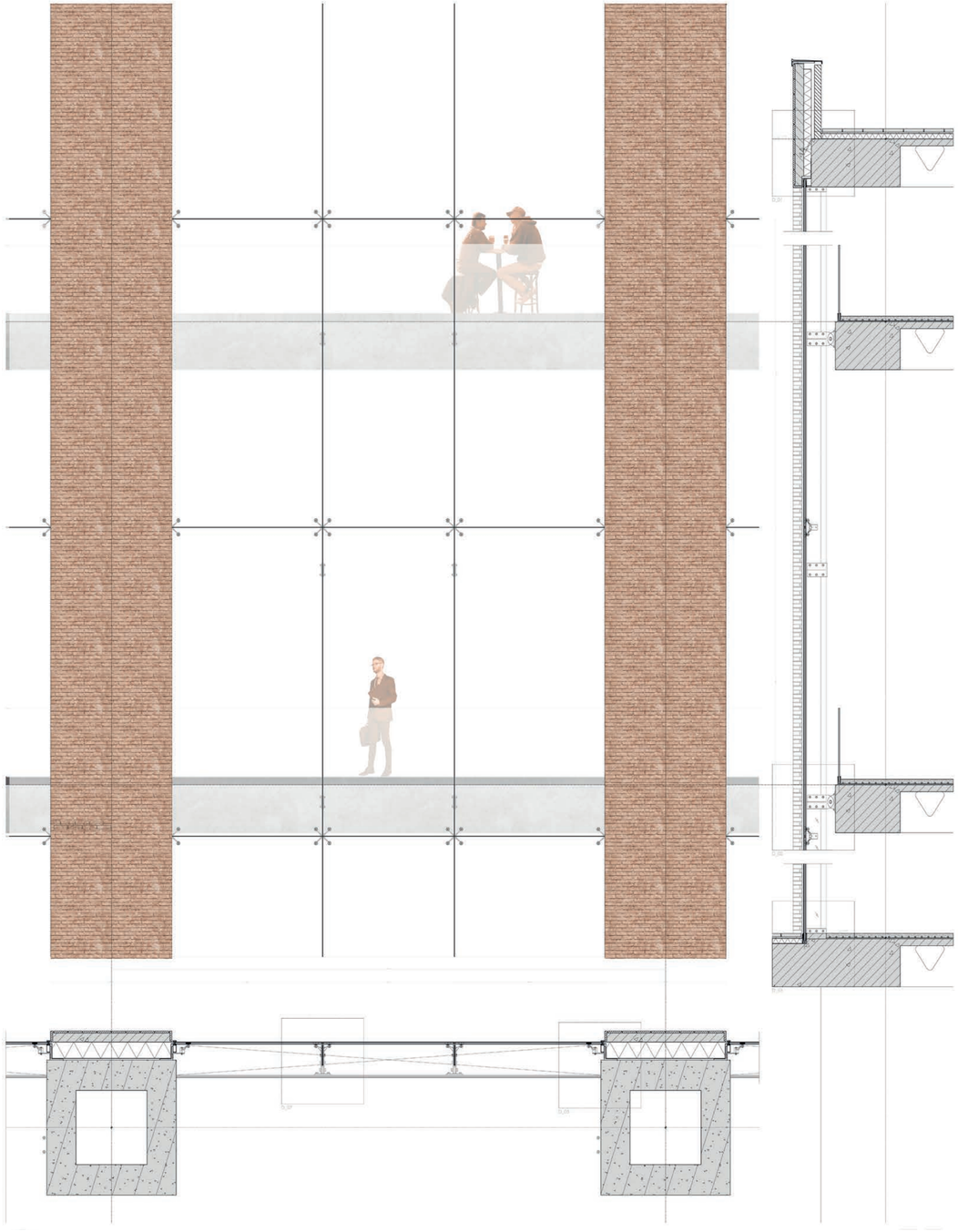
D_02_A

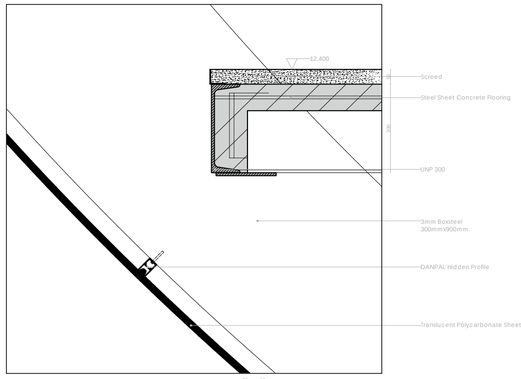


D_03_A

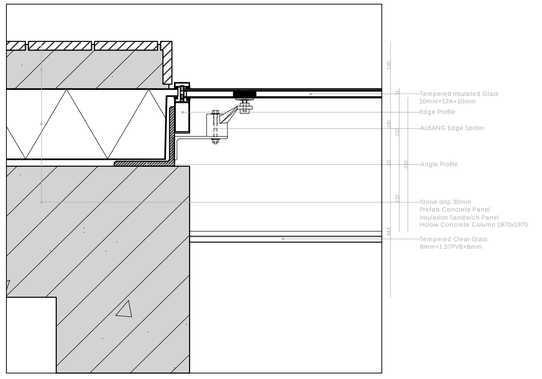


D_03_B

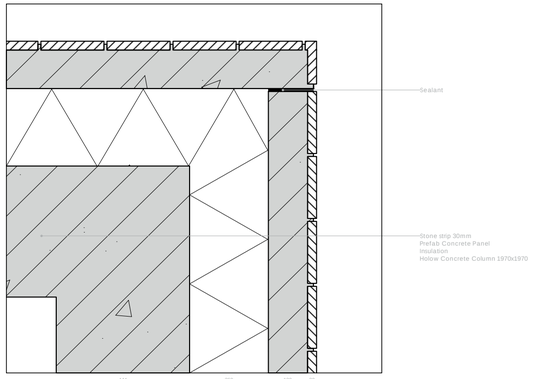




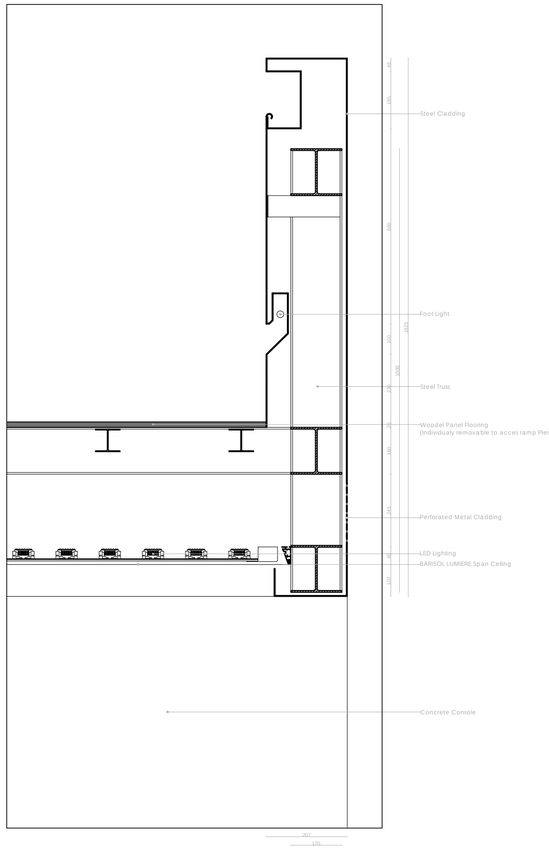
D_04



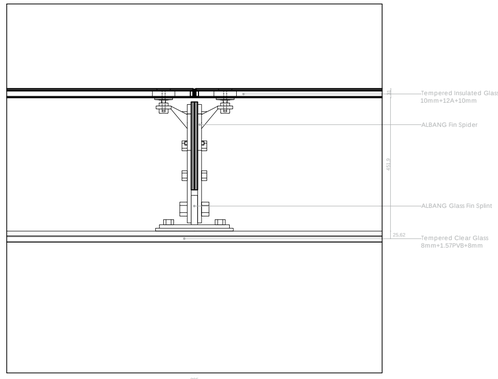
D_05_A



D_05_B

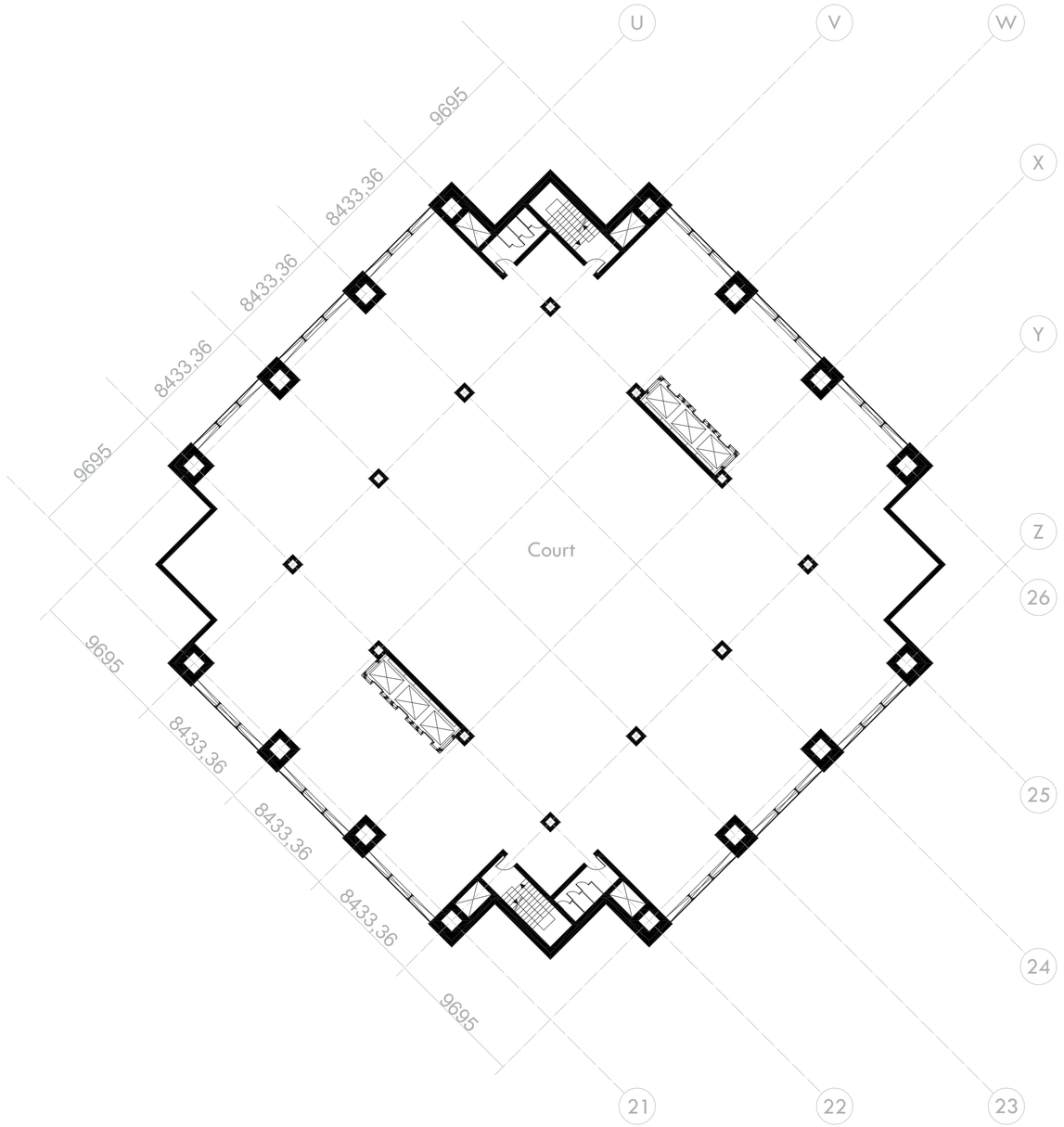


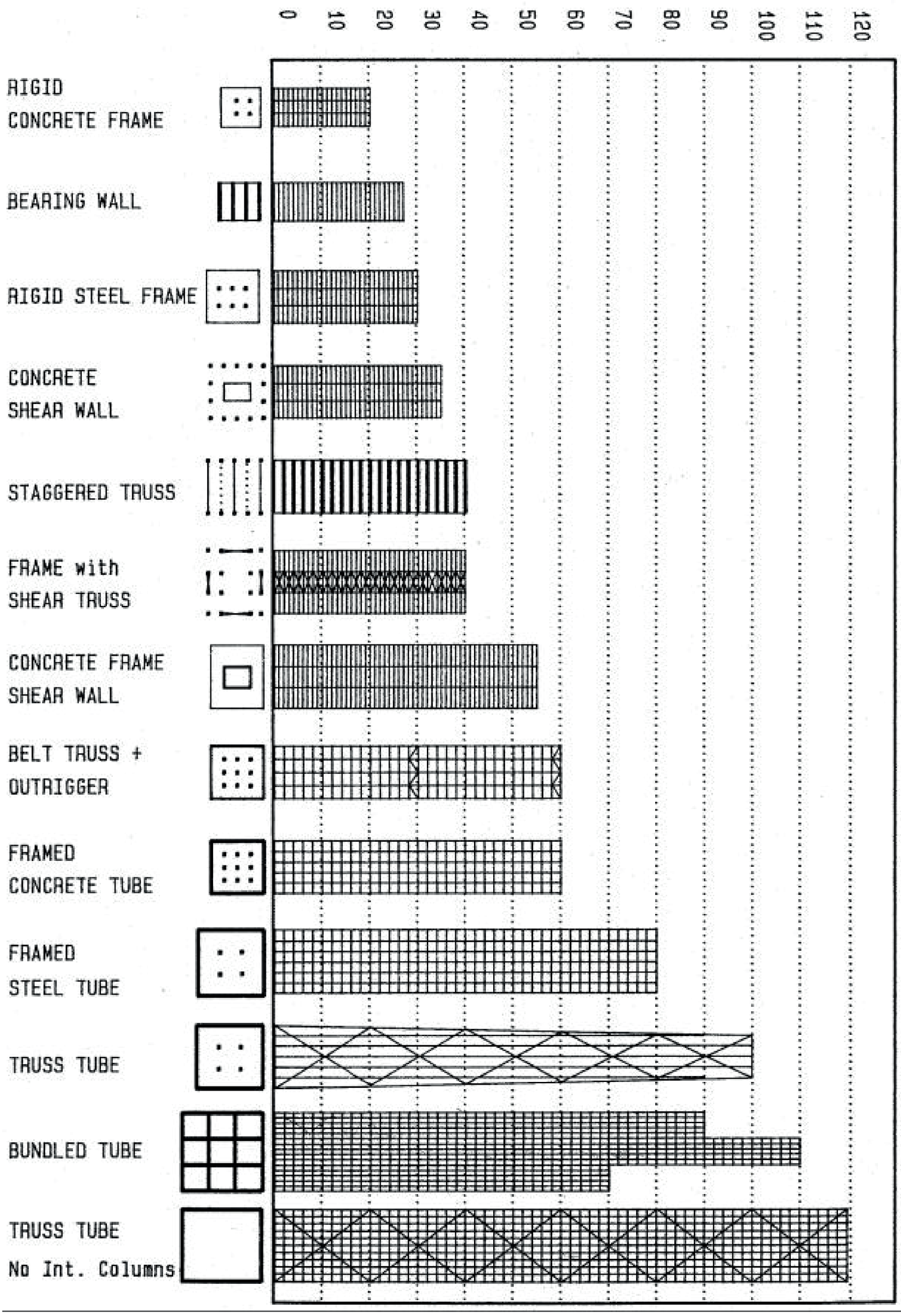
D_06

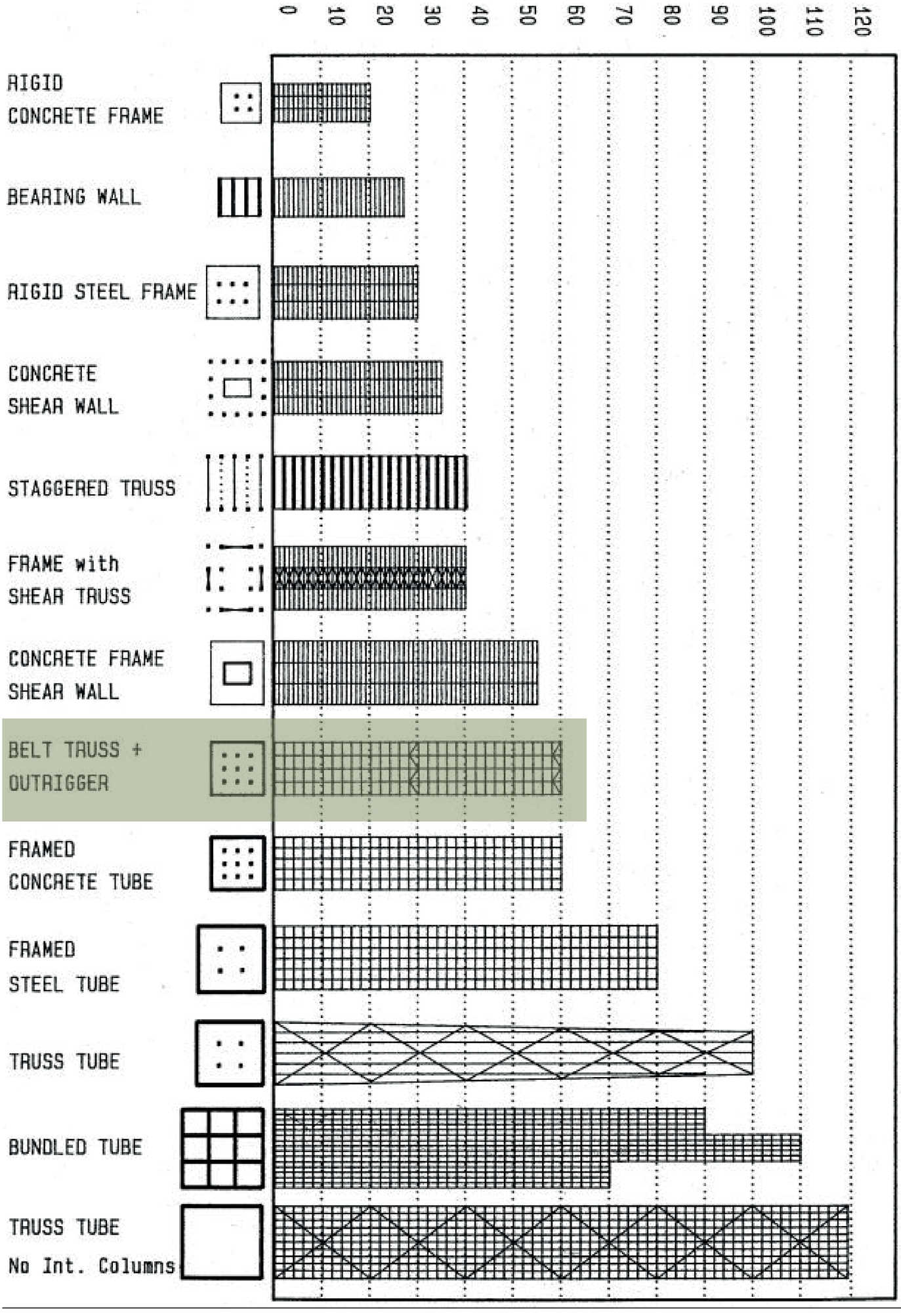


D_07

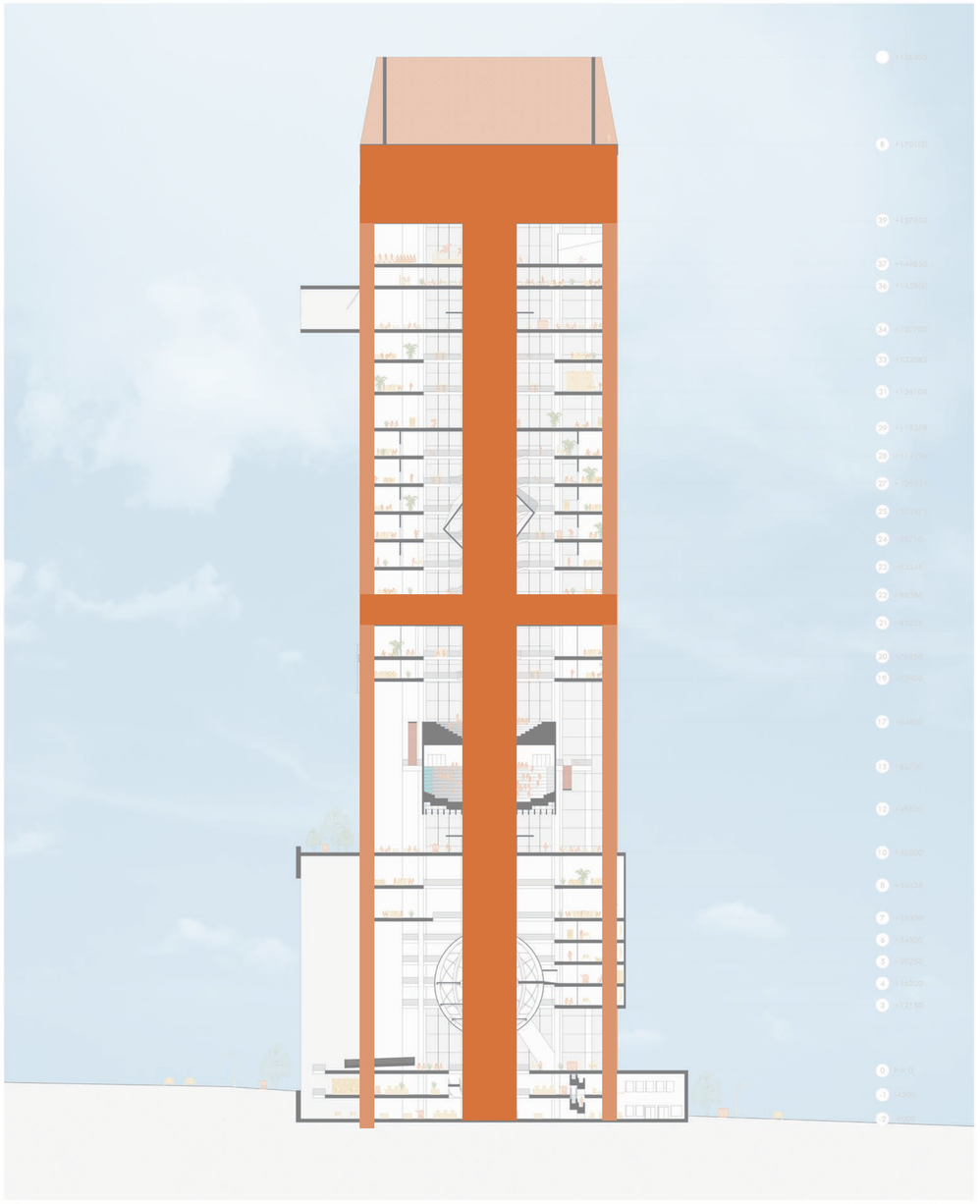
STRUCTURE


U
V
W
X
Y
Z
26
25
24
23
22
21
9695
8433.36
8433.36
8433.36
9695
9695
8433.36
8433.36
8433.36
9695
Court


0
10
20
30
40
50
60
70
80
90
100
110
120
RIGID
CONCRETE FRAME
BEARING WALL
RIGID STEEL FRAME
CONCRETE
SHEAR WALL
STAGGERED TRUSS
FRAME with
SHEAR TRUSS
CONCRETE FRAME
SHEAR WALL
BELT TRUSS +
OUTRIGGER
FRAMED
CONCRETE TUBE
FRAMED
STEEL TUBE
TRUSS TUBE
BUNDLED TUBE
TRUSS TUBE
No Int. Columns


0
10
20
30
40
50
60
70
80
90
100
110
120
RIGID
CONCRETE FRAME
BEARING WALL
RIGID STEEL FRAME
CONCRETE
SHEAR WALL
STAGGERED TRUSS
FRAME with
SHEAR TRUSS
CONCRETE FRAME
SHEAR WALL
BELT TRUSS +
OUTRIGGER
FRAMED
CONCRETE TUBE
FRAMED
STEEL TUBE
TRUSS TUBE
BUNDLED TUBE
TRUSS TUBE
No Int. Columns

Section BB'

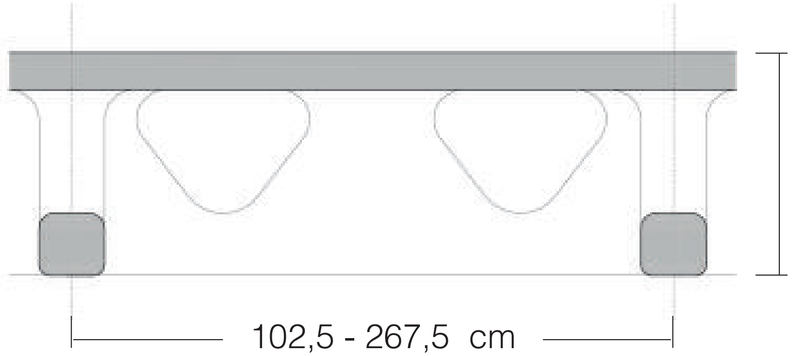


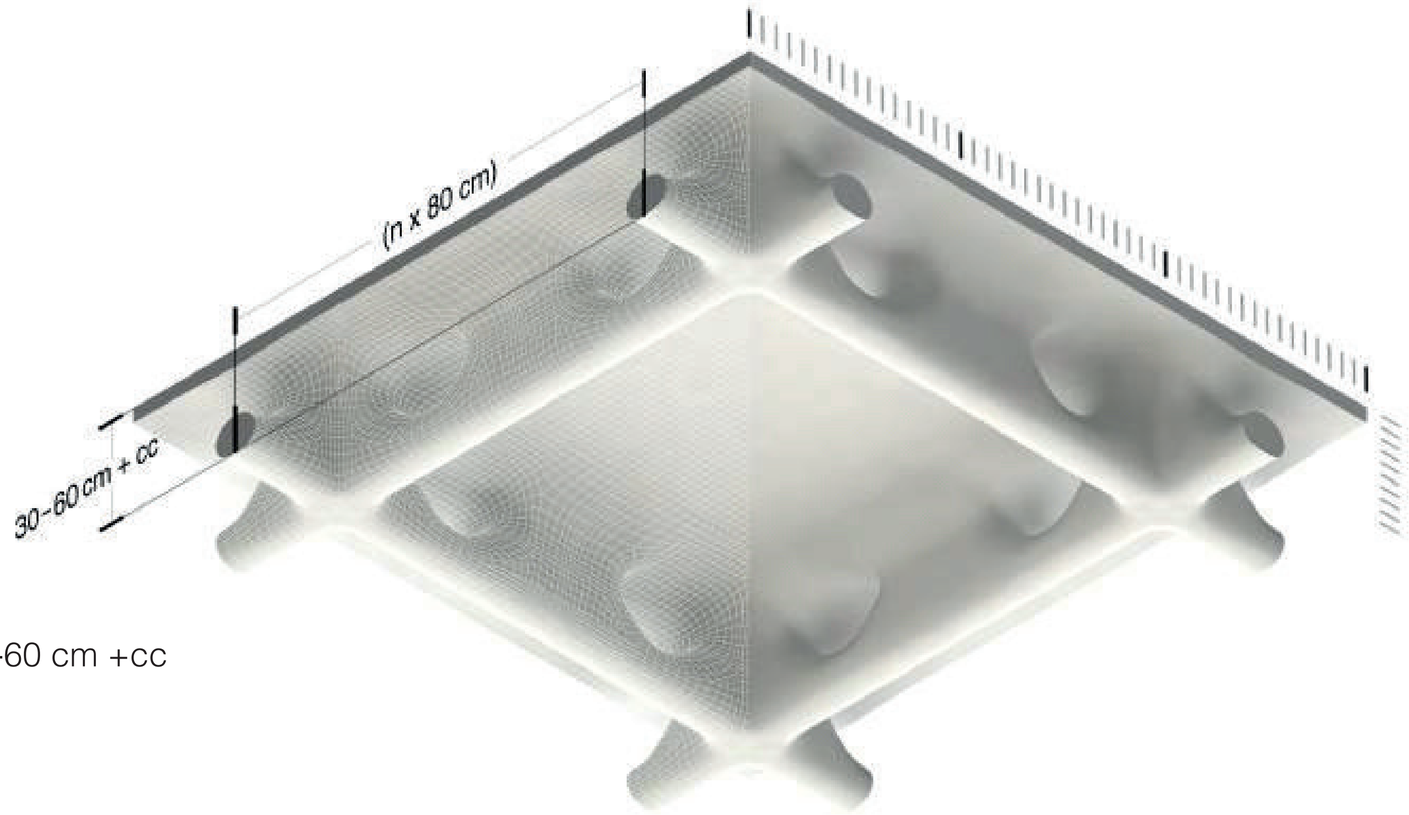
Bjorn van Dijk
4295501
New York Midtown Graduation studio

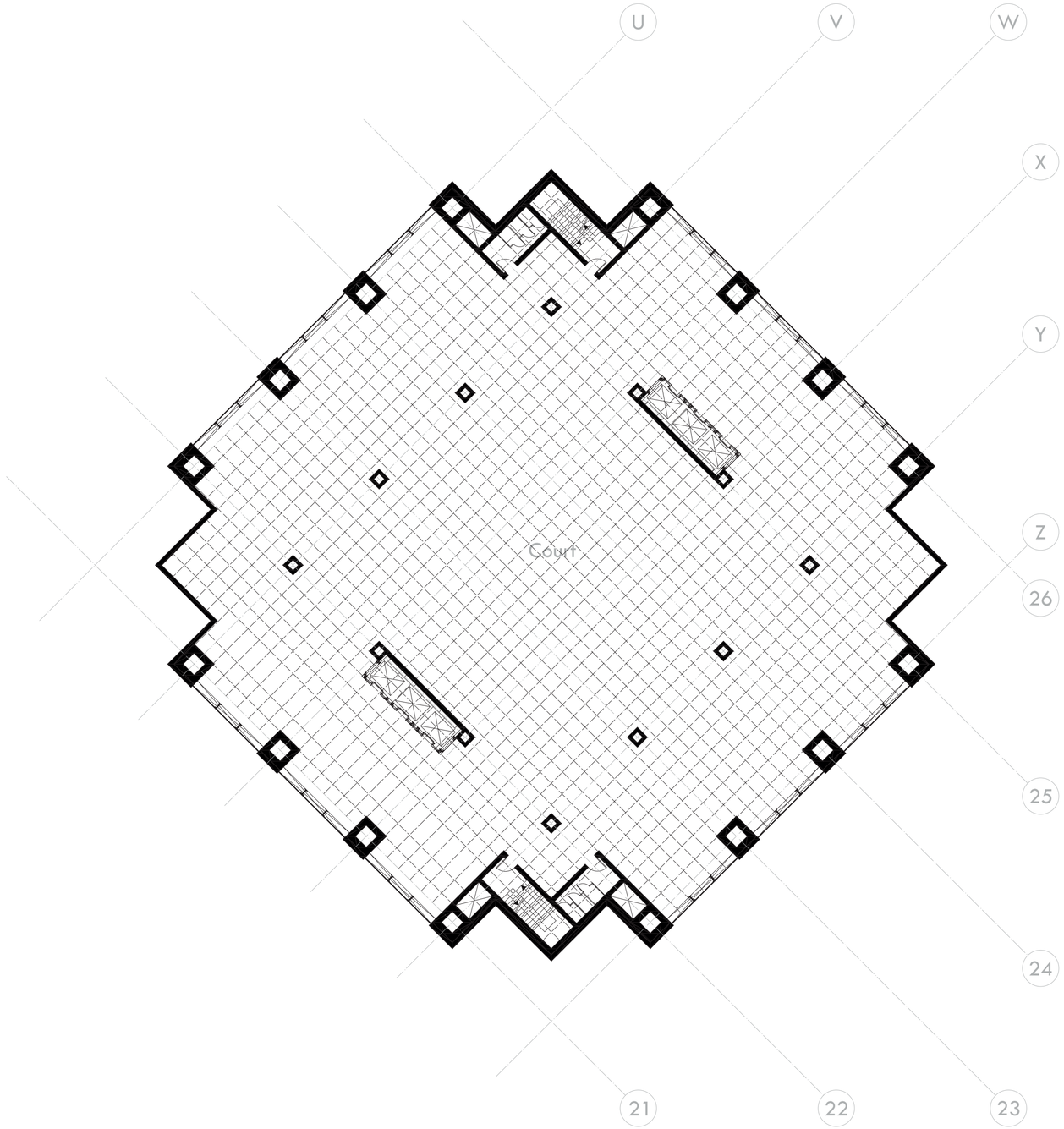
1 : 250

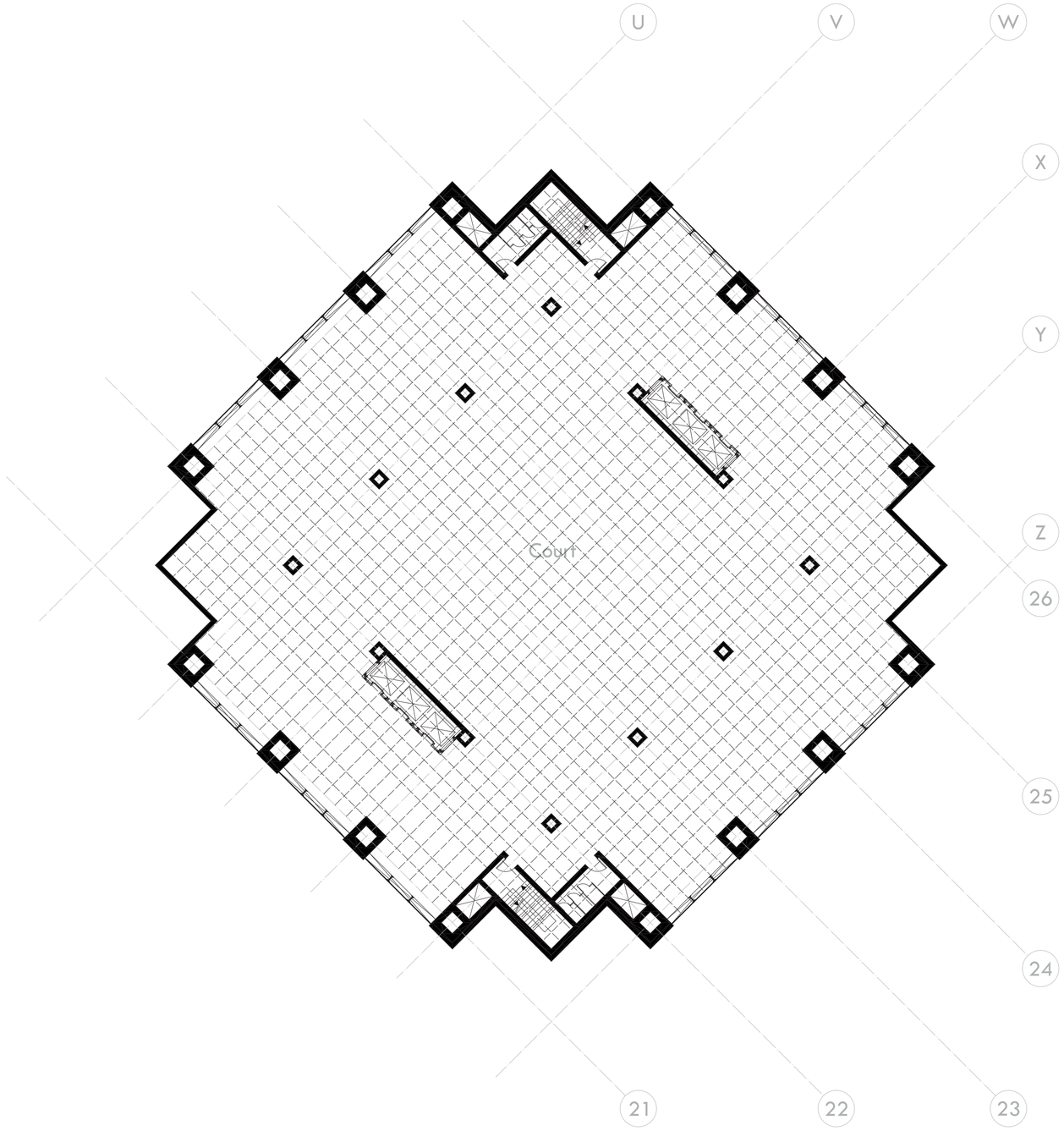
HoXL 30/40/50/60 + cc

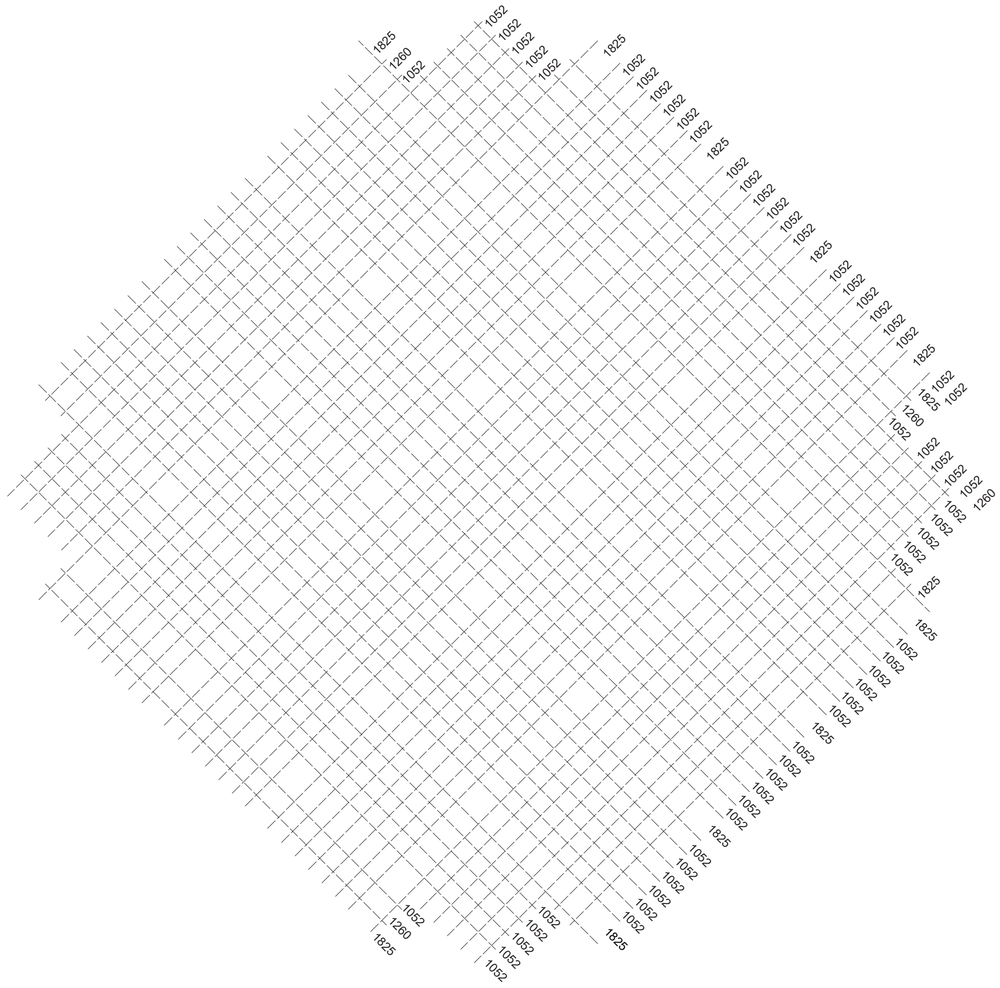
Ribbed slab solution with variable distance between ribs axes. Because of its modular assembly process, it is a completely flexible structural system. Specially designed for large spans and unidirectional slabs.

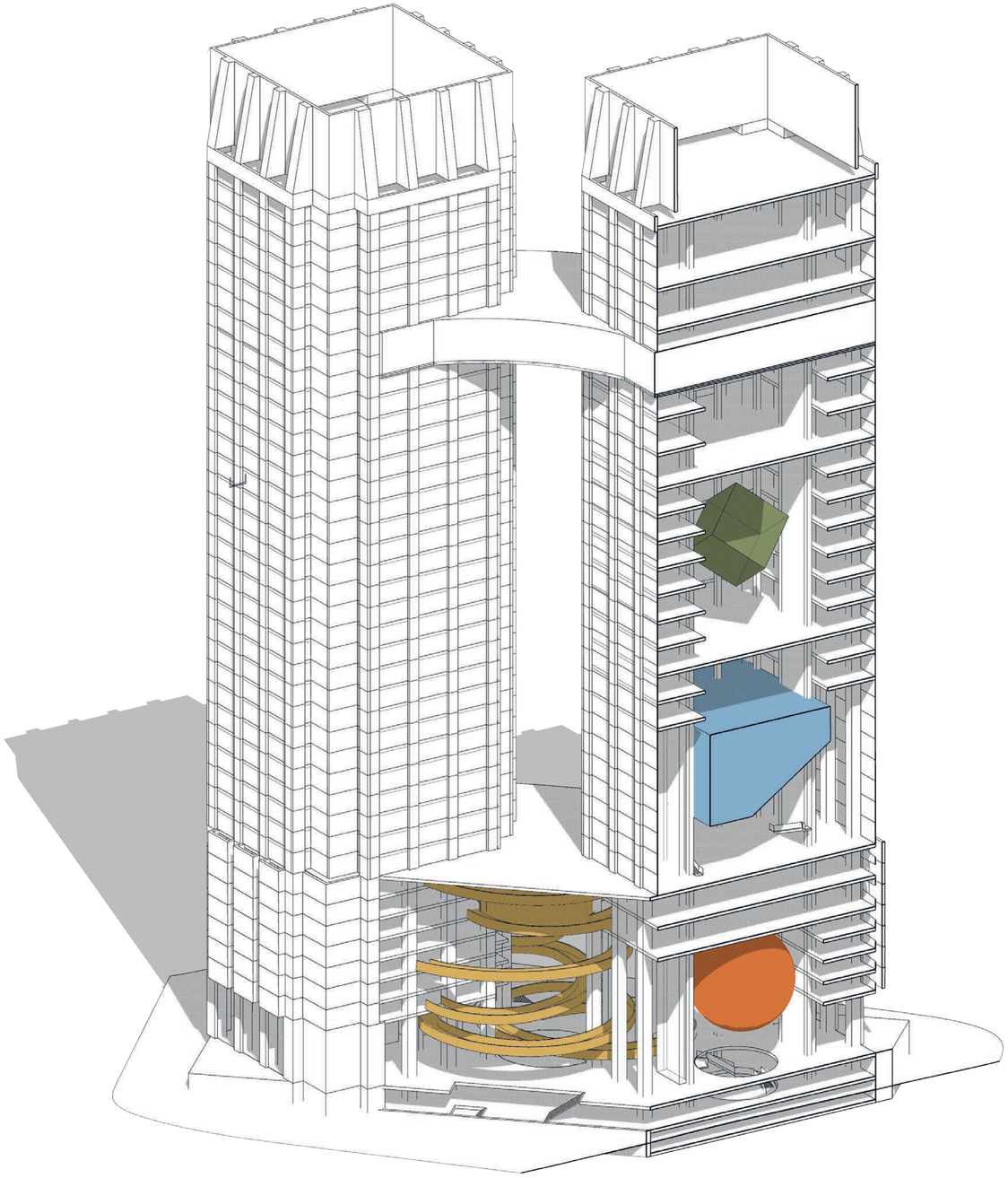


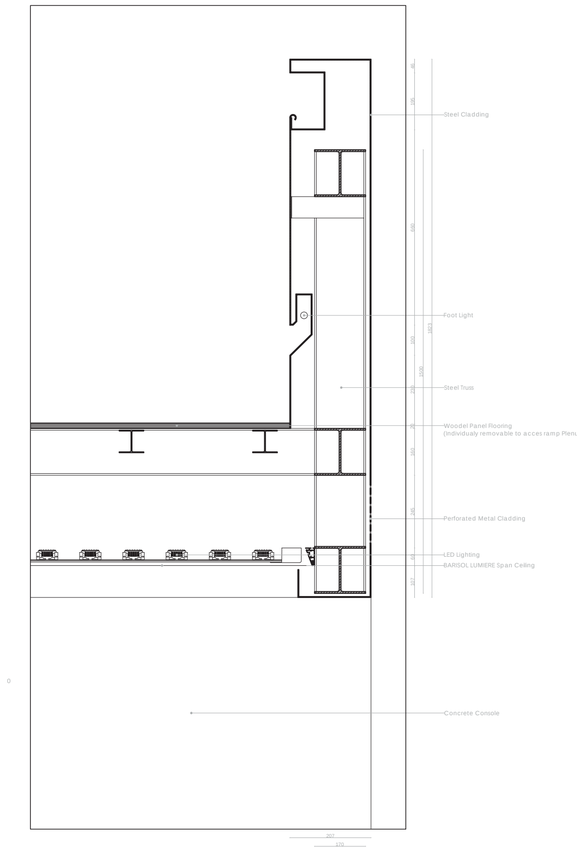



U
V
W
X
Y
Z
26
25
24
23
22
21
Court

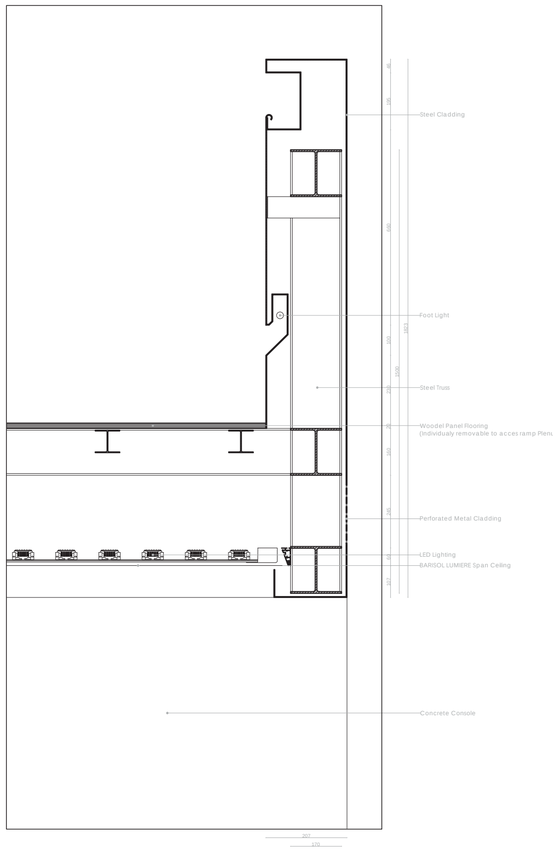

U
V
W
X
Y
Z
26
25
24
23
22
21
Court


1825
1260
1052

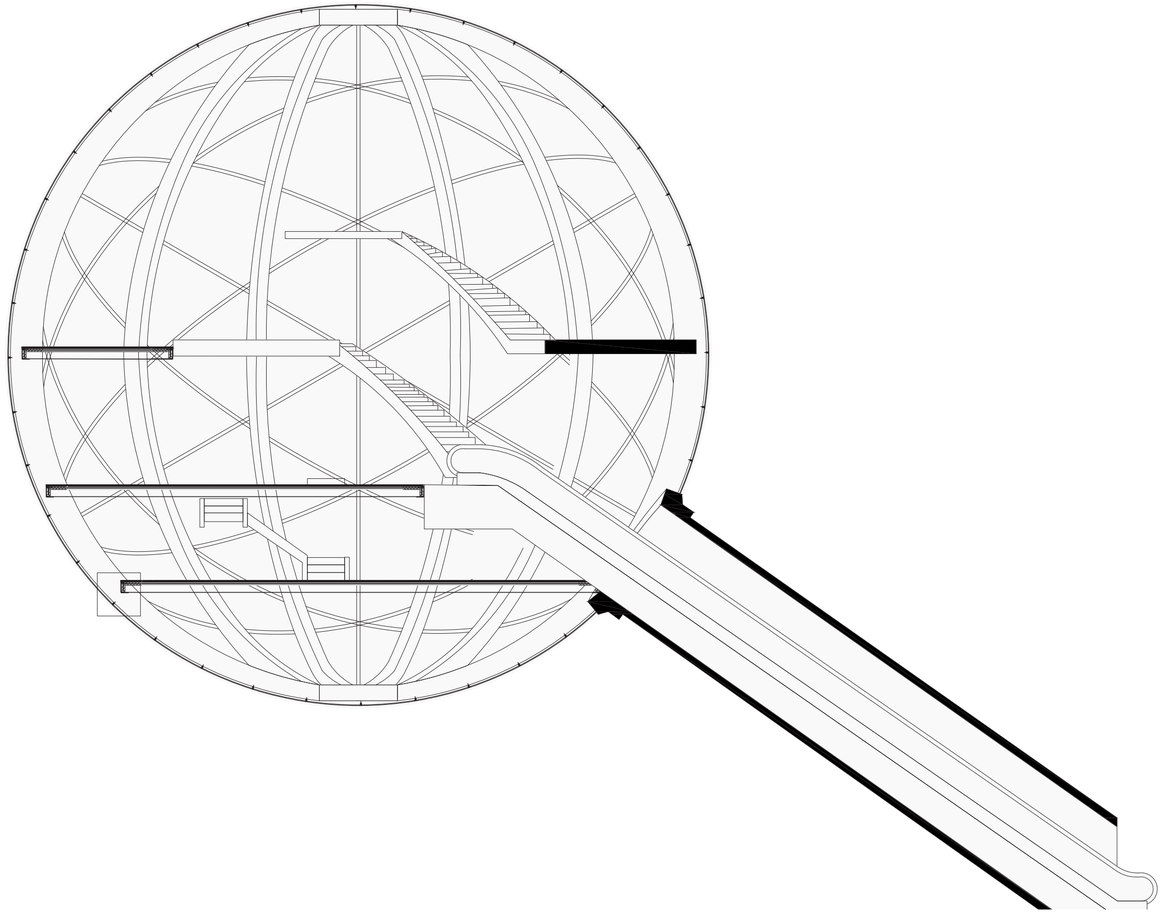


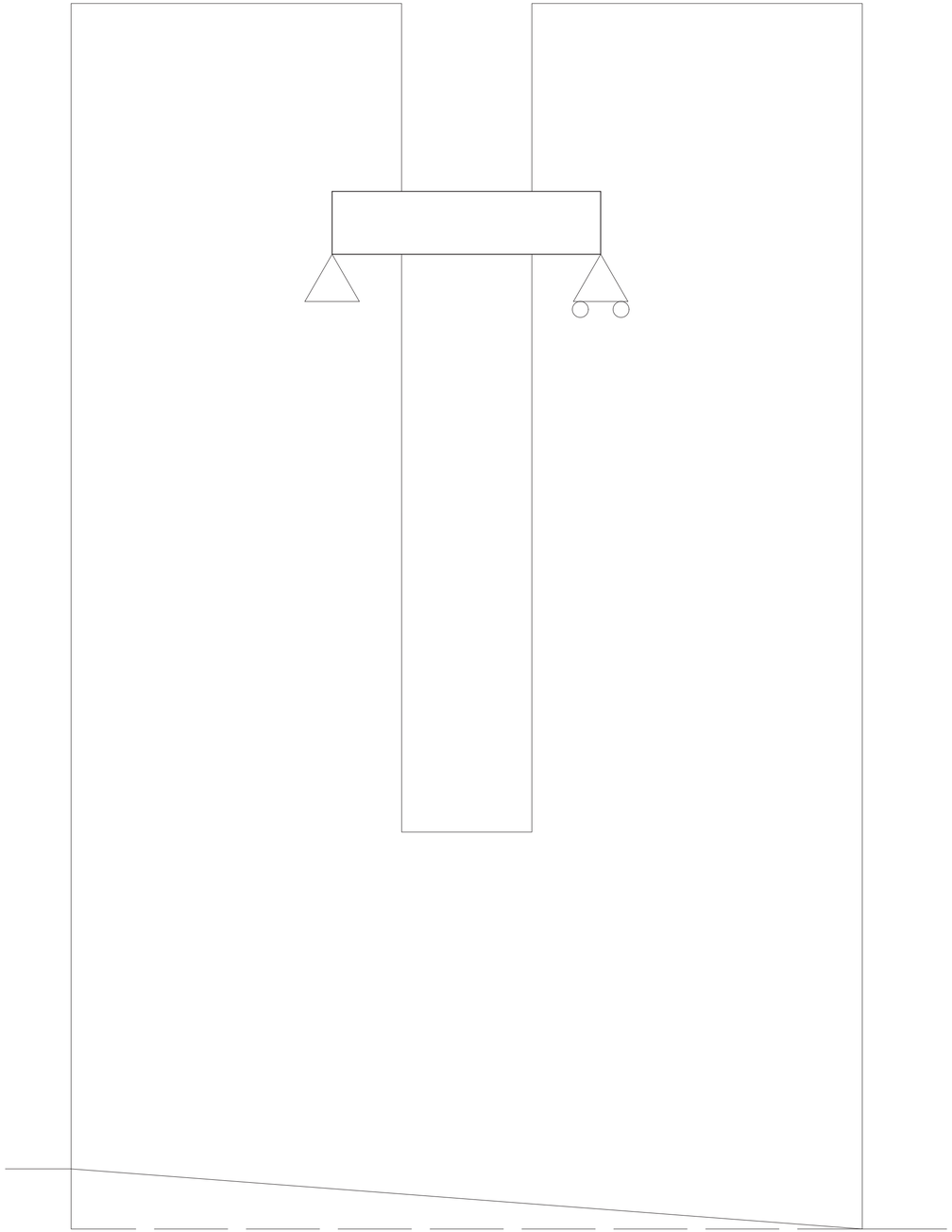

Steel Cladding
Foot Light
Steel Truss
Wooden Panel Flooring
(Individually removable to acces ramp Plen
Perforated Metal Cladding
LED Lighting
BARISOL LUMIERE Span Ceiling
Concrete Console

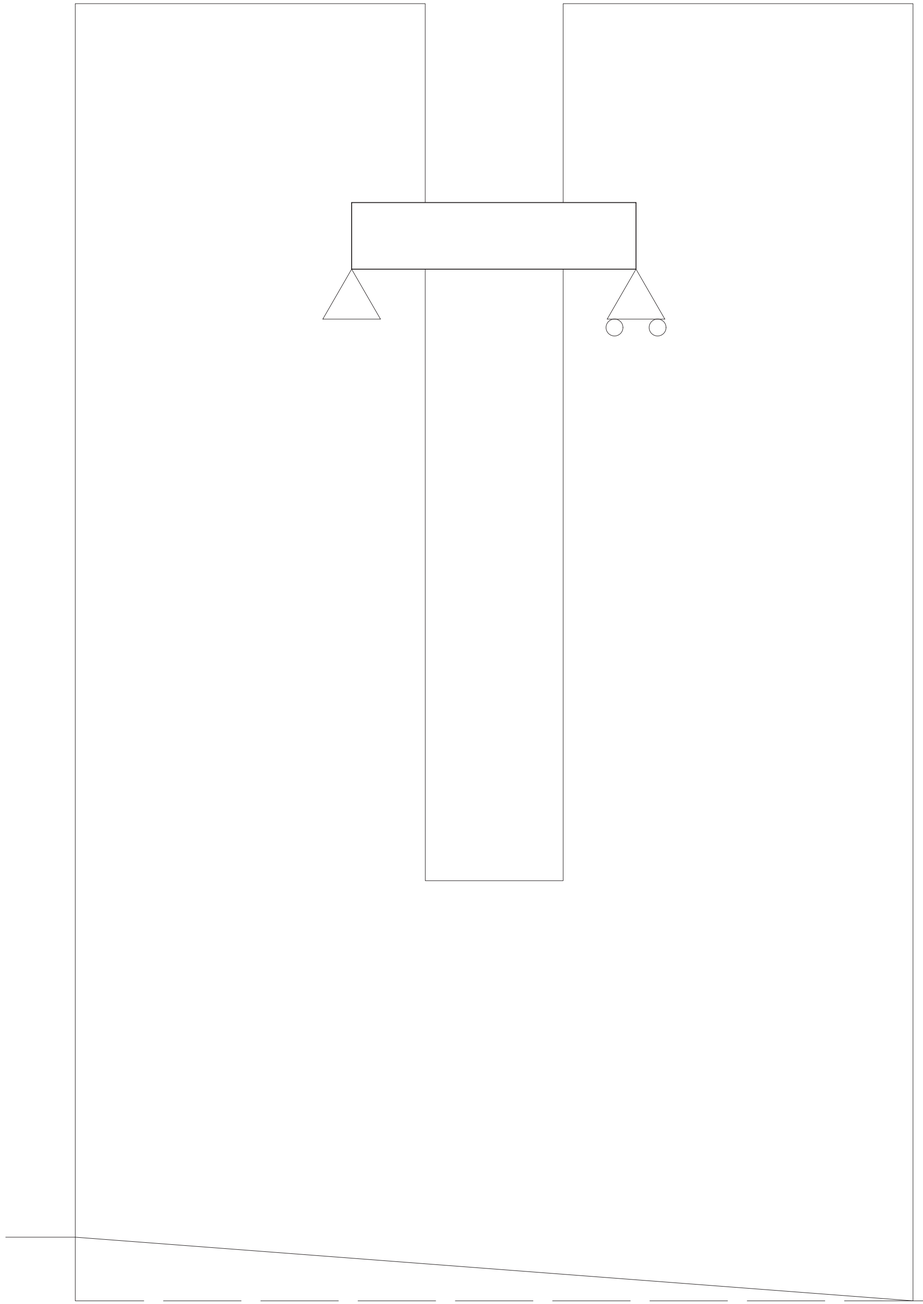
D_06

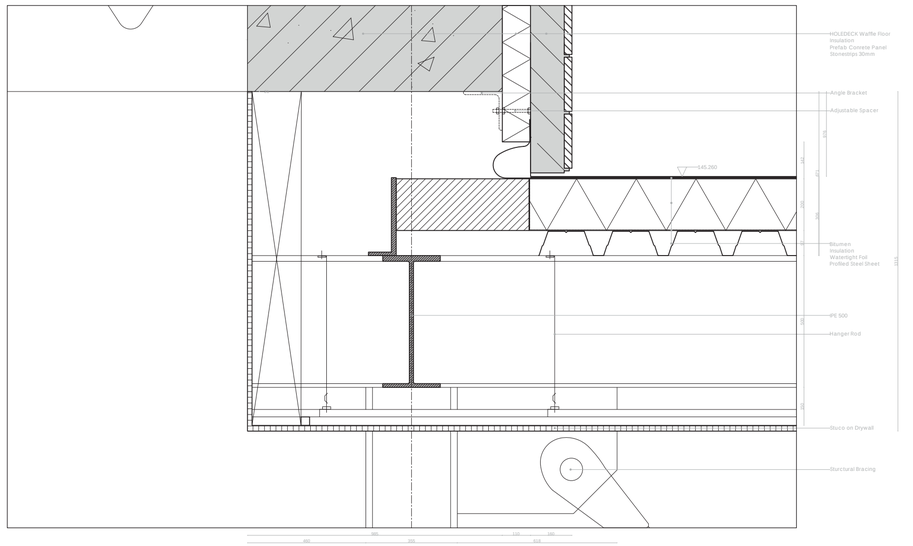

Steel Cladding
Foot Light
Steel Truss
Wooden Panel Flooring
(Individually removable to acces ramp Plen
Perforated Metal Cladding
LED Lighting
BARISOL LUMIERE Span Ceiling
Concrete Console

D_06

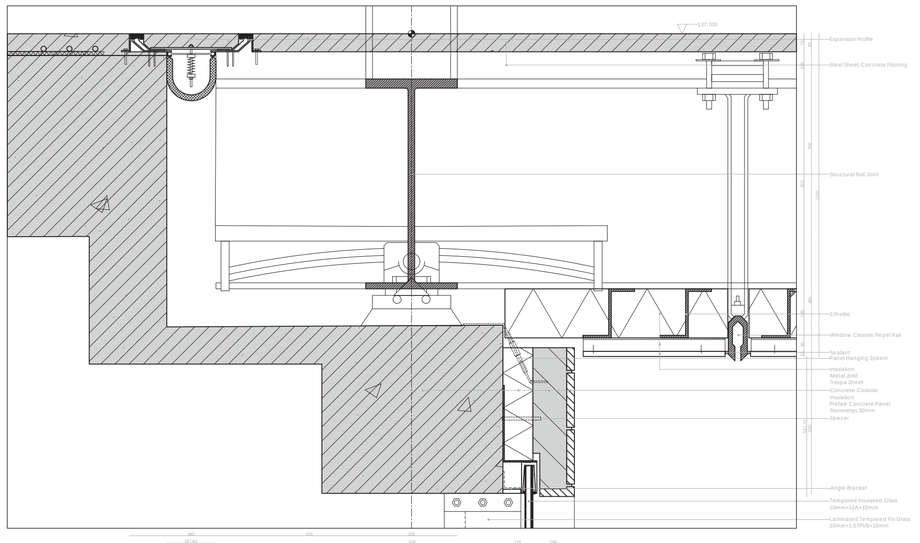






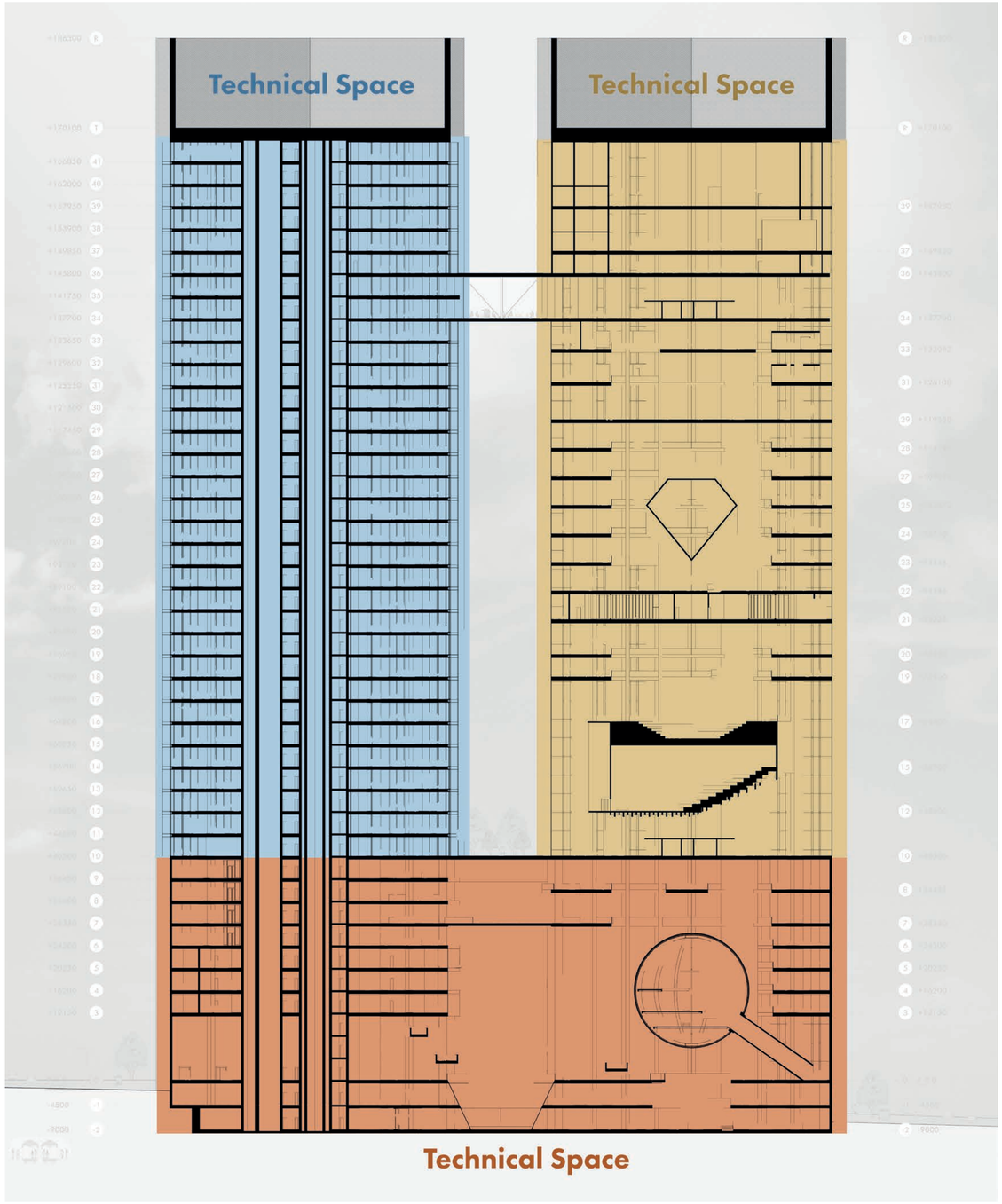

HOLEDECK Waffle Floor
Insulation
Prefab Concrete Panel
Stonestrips 30mm
Angle Bracket
Adjustable Spacer
+135.260
Bitumen
Insulation
Watertight Foil
Profiled Steel Sheet
IPE 500
Hanger Rod
Stuco on Drywall
Structural Bracing

D_08


+137.700
Expansion Profile
Steel Sheet Concrete Flooring
Structural Roll Joint
Z-Profile
Window Cleaner Rope Rail
Gasket
Panel Hanging System
Insulation
Metal Joint
Trespa Sheet
Concrete Console
Insulation
Prefab Concrete Panel
Stonestrips 30mm
Spacer
Angle Bracket
Tempered Insulated Glass
10mm+12A+10mm
Laminated Tempered Fin Glass
10mm+1.5?PVB+10mm

D_09

CLIMATE

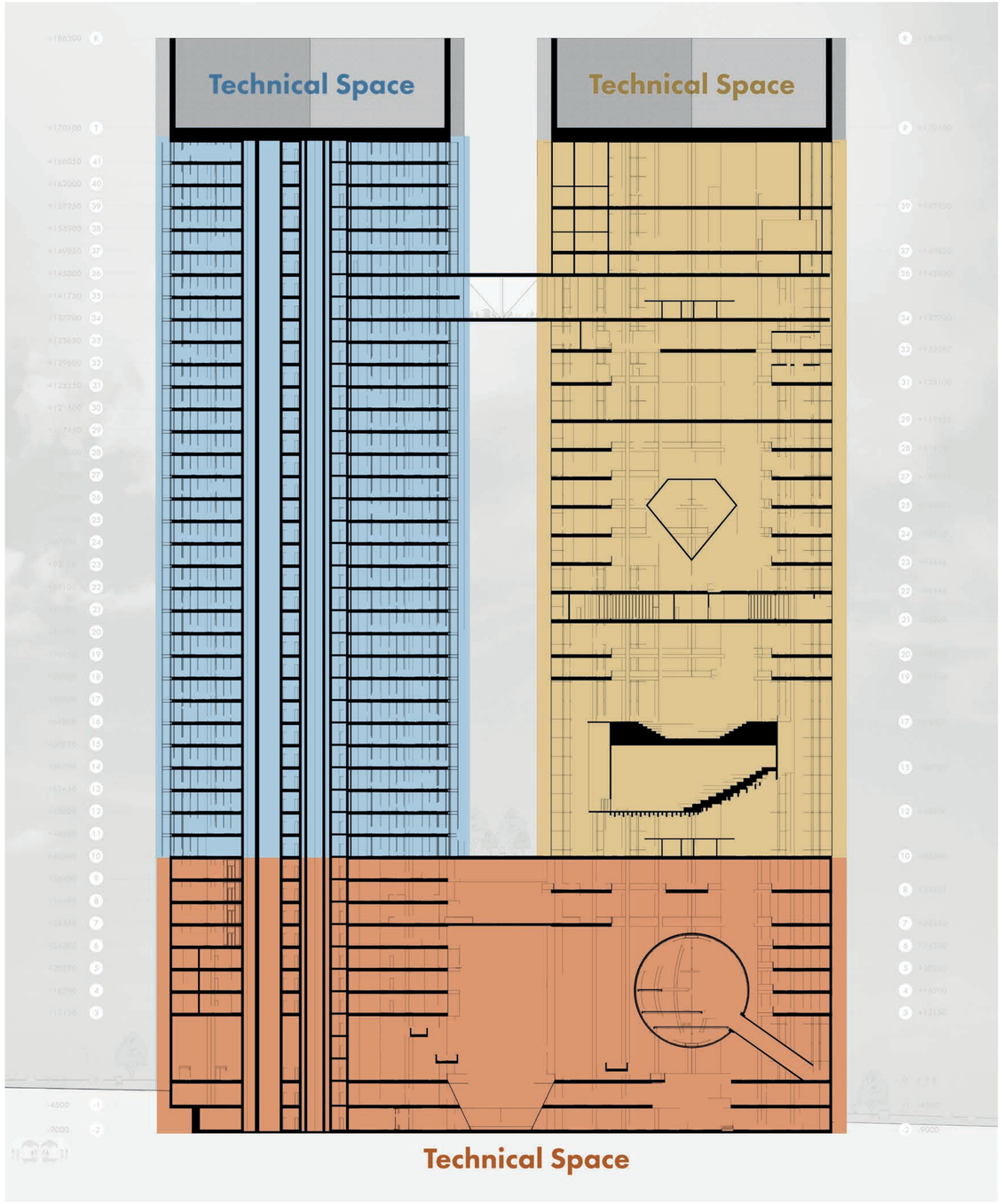

Technical Space
Technical Space
Technical Space







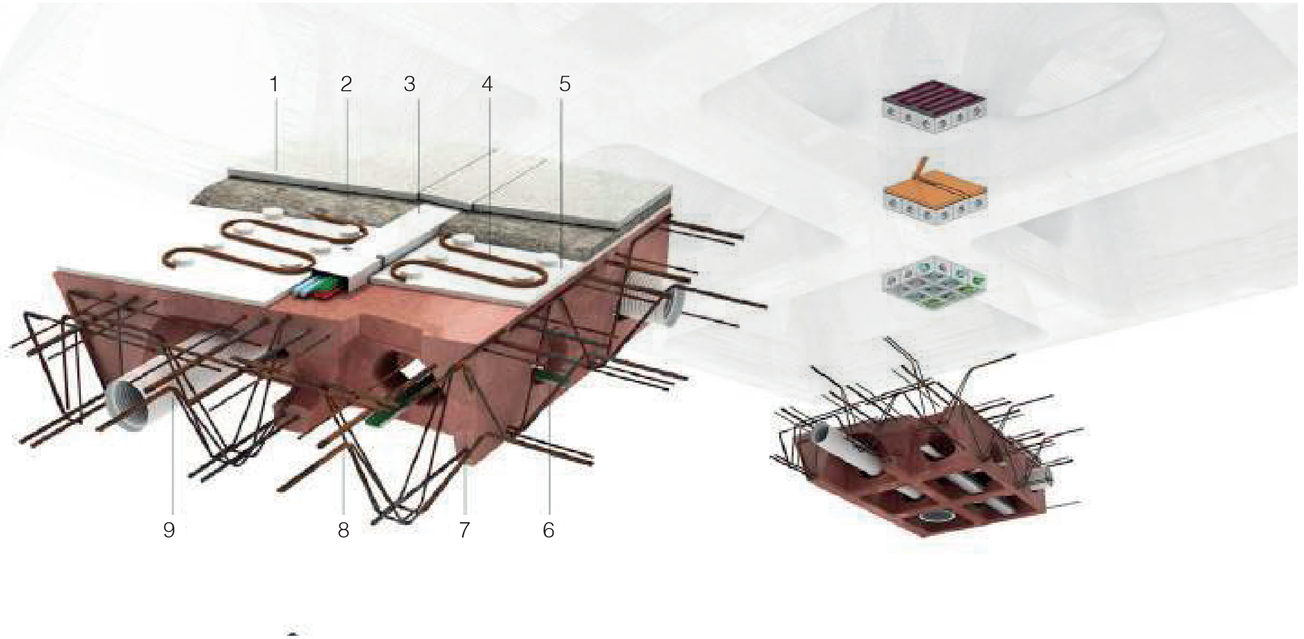



Technical Space
Technical Space
Technical Space

TYPE 01

Bidirectional system / electricity and networks through strip on the slab

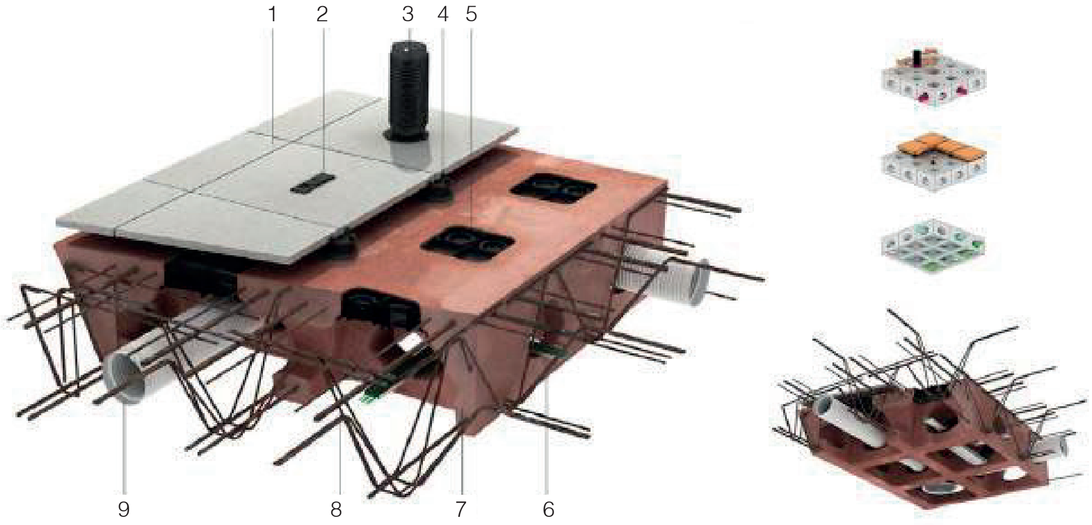
1. Floor
2. Mortar
3. Services box
4. Radiant floor ducts
5. Insulation / ducts seat
6. Installations tray
7. HOLEDECK slab
8. Reinforcement
9. AC ducts



TYPE 03

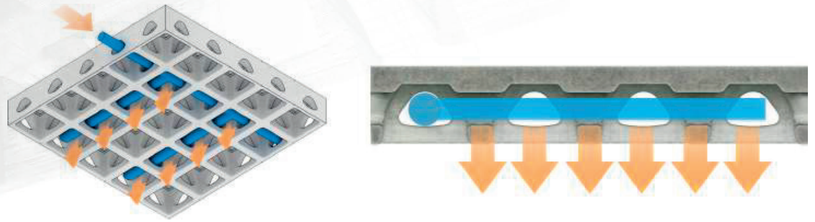
Open bidirectional system / Fire cut / floor on plots

1. Registrable pavement
2. Access to installations
3. Air diffuser
4. Adjustable plot
5. Pieces for fire compartimentation
6. Installations tray
7. HOLEDECK slab
8. Reinforcement
9. CL / AC ducts



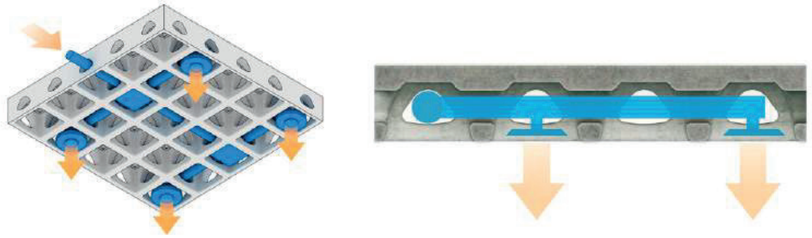
MODEL 1:

- Distribution through textile conduits.
- Quick and easy installation, versatility, uniform distribution of air, eliminating diffusers or grilles. For small or average ventilation needs.



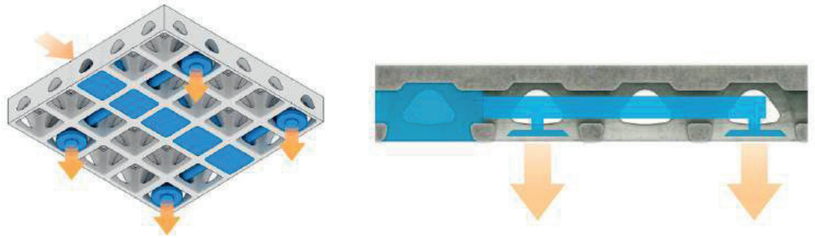
MODEL 02:

- Air conditioning by ducts with diffusers.
- Distribution through pipes of varying diameters, for small needs.



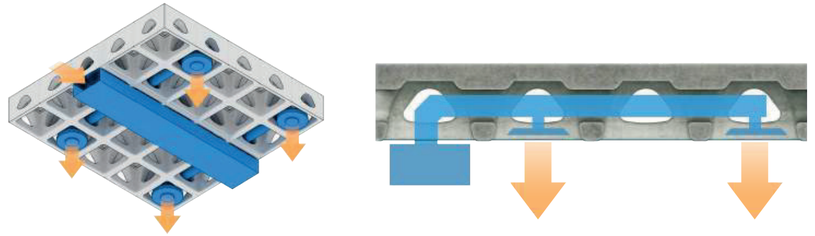
MODEL 03:

- Partial air conditioning ducts and plenum diffusers.
- Combined distribution through plenum and pipes of varying diameters, for medium needs.



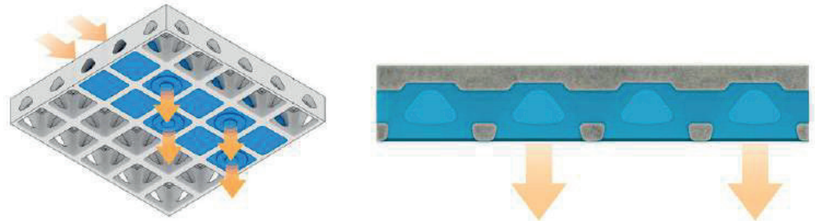
MODEL 04:

- Distribution through large suspended ducts.
- For medium to high ventilation needs.



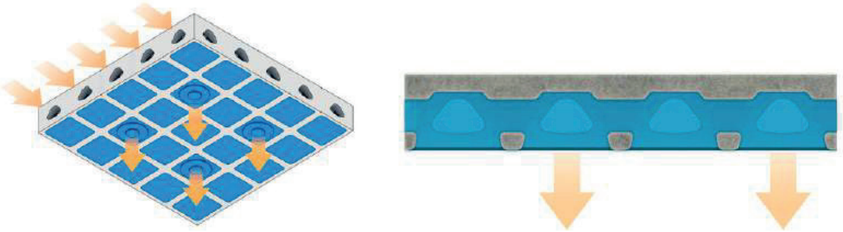
MODEL 05:

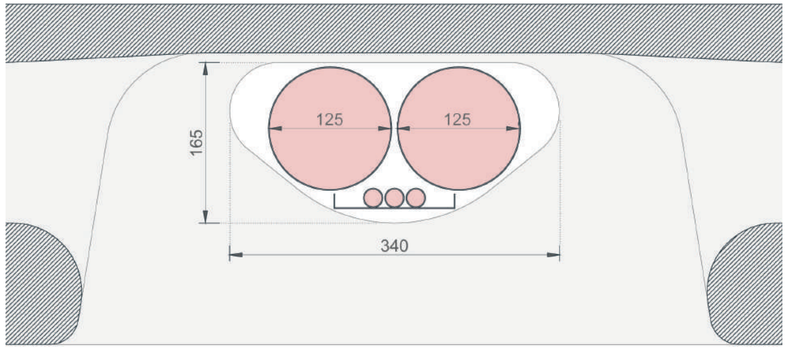
- Partial air conditioning with plenum.
- Distribution by partial plenum, for high needs.



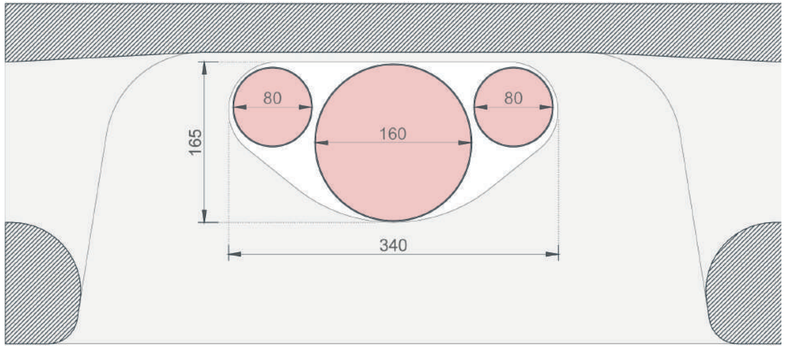
MODEL 06:

- Air conditioning with plenum.
- Distribution by full plenum, for very high needs.

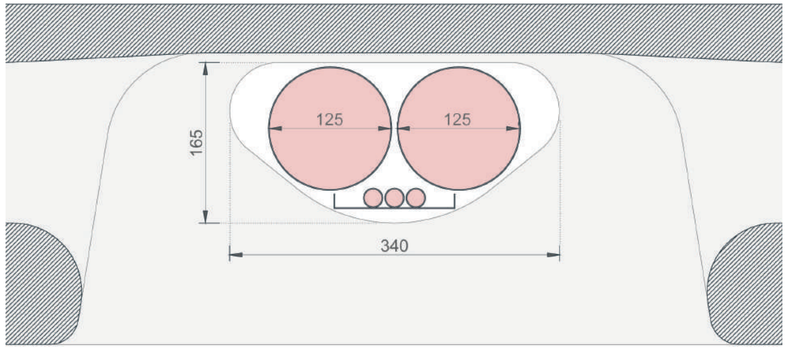




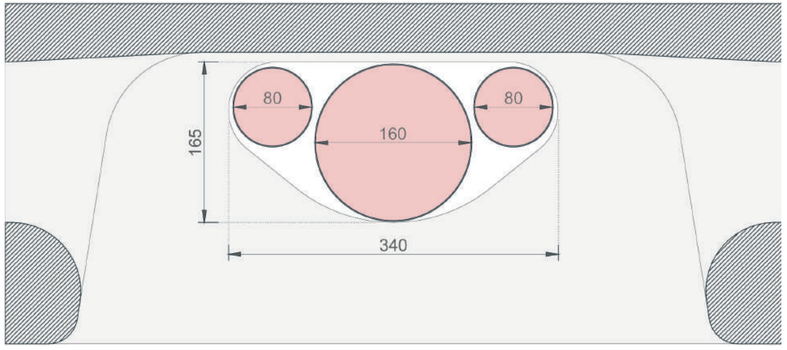
Ventilation duct D 12,5 – Cable tray (t = 3 cm) – Other ducts



Ventilation duct D 16 – Other ducts

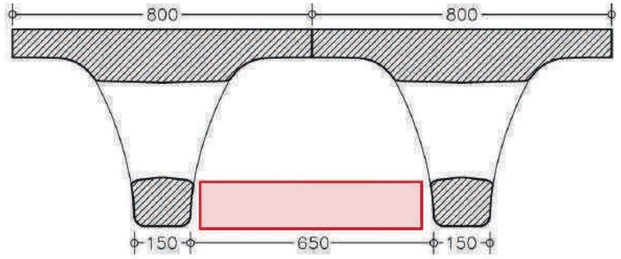


Ventilation duct D 12,5 – Cable tray (t = 3 cm) – Other ducts

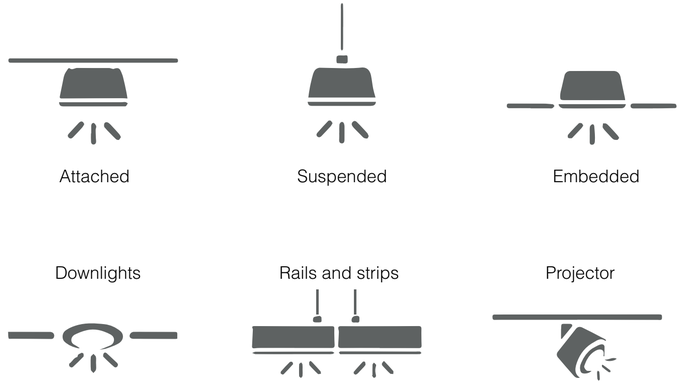


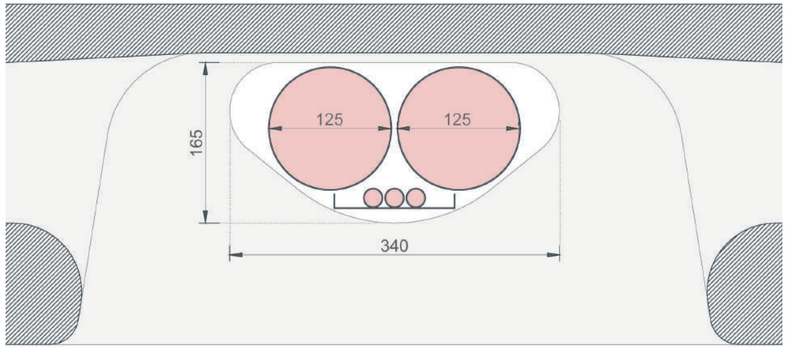
Ventilation duct D 16 – Other ducts



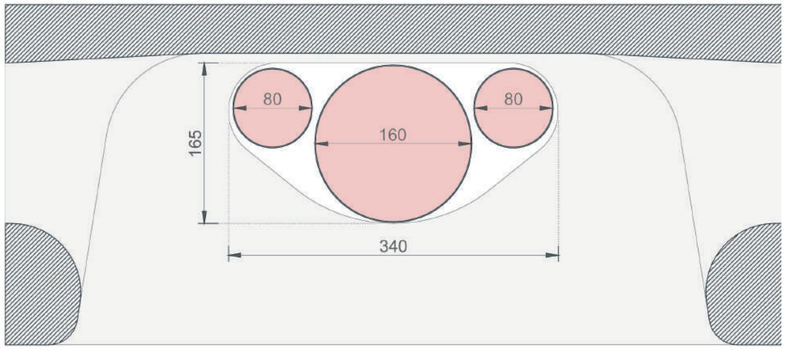


HOLEDECK system is compatible with all kind of luminaires and assembly systems: attached to cable trays, embedded to the ceiling, suspended from the slab, etc.





Ventilation duct D 12,5 – Cable tray (t = 3 cm) – Other ducts



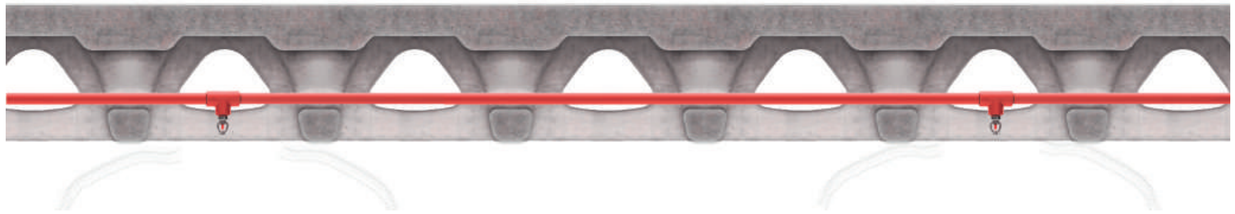
Ventilation duct D 16 – Other ducts

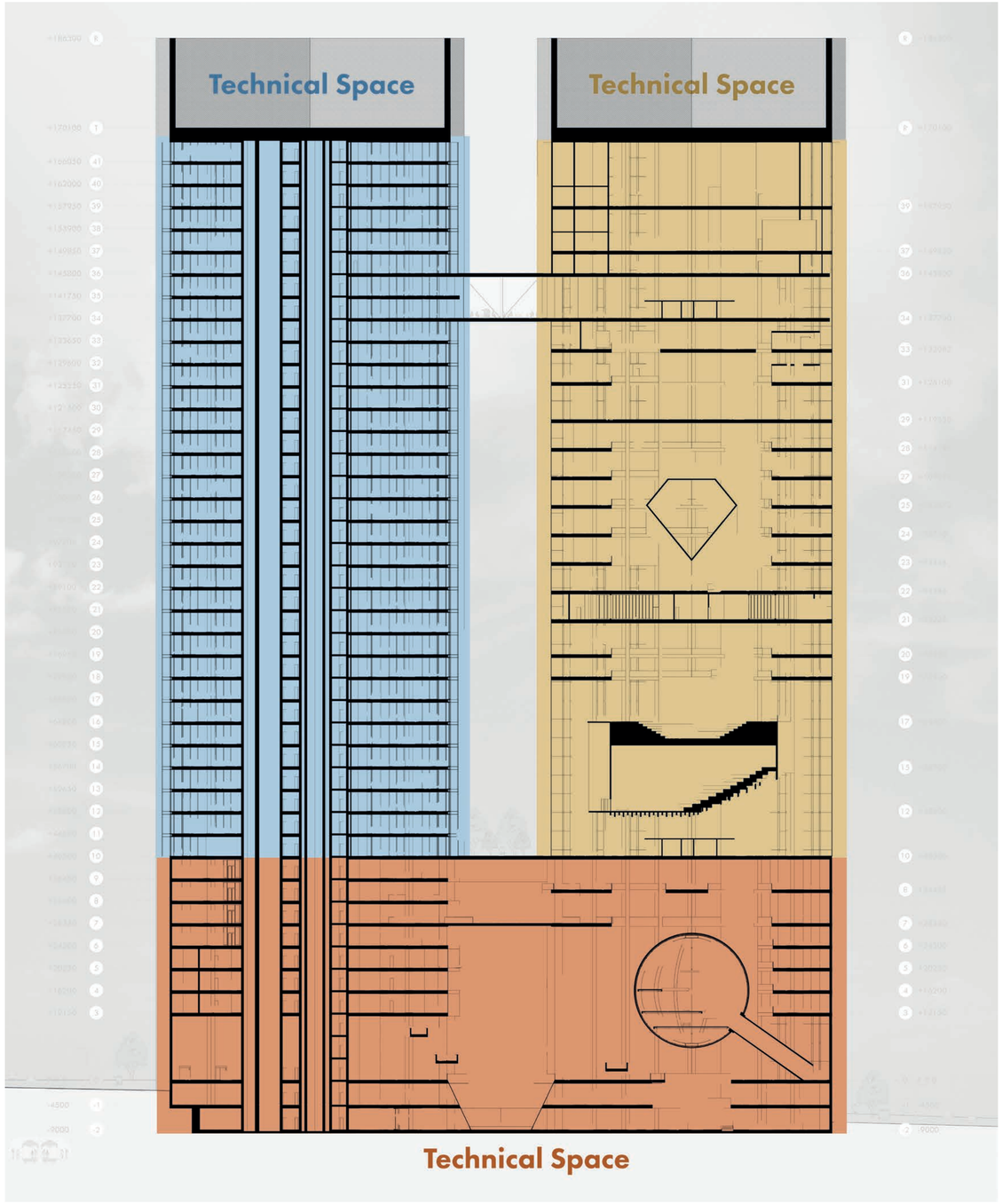
The HOLEDECK system meets the requirements of fire regulations ACI and Eurocode for 120 min due to its ribs dimensions. Therefore, no additional fire protection is required, contrasting steel-structure frameworks.

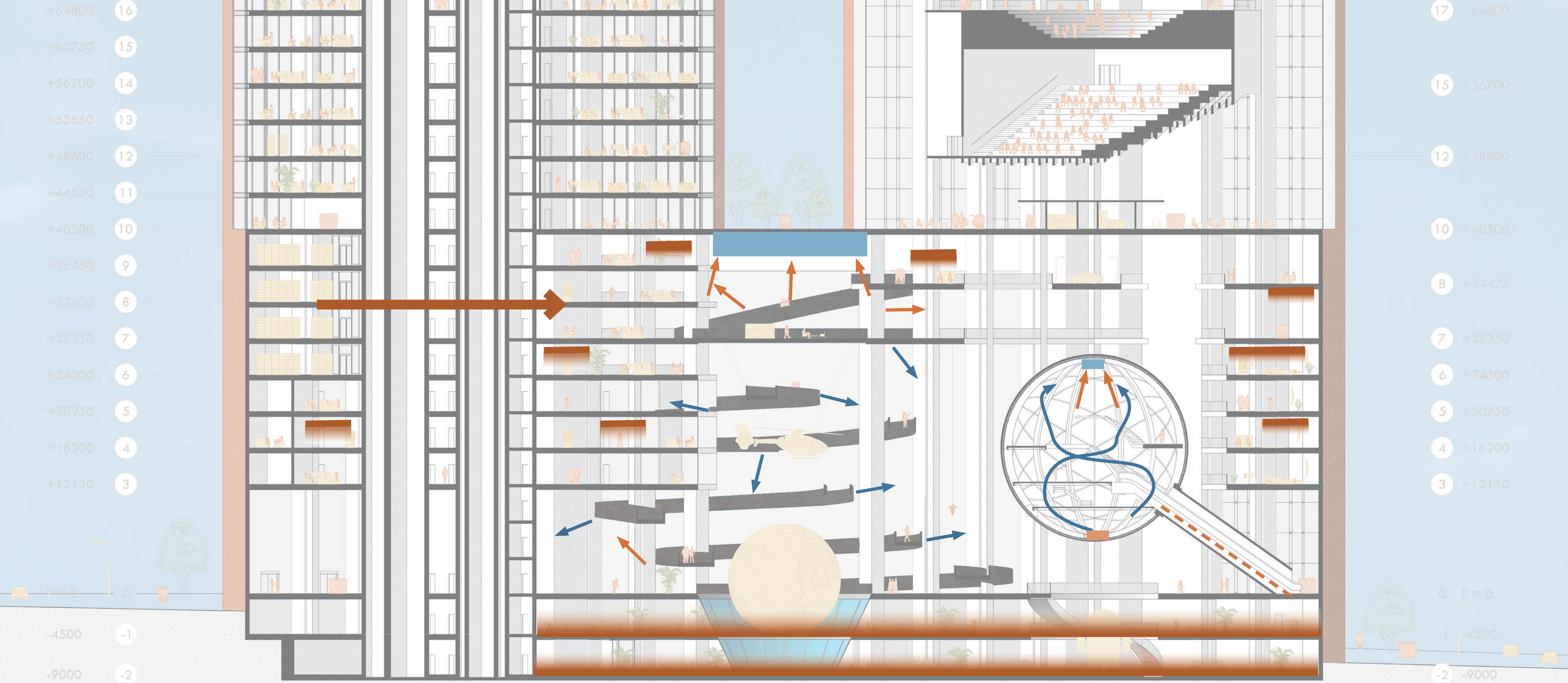


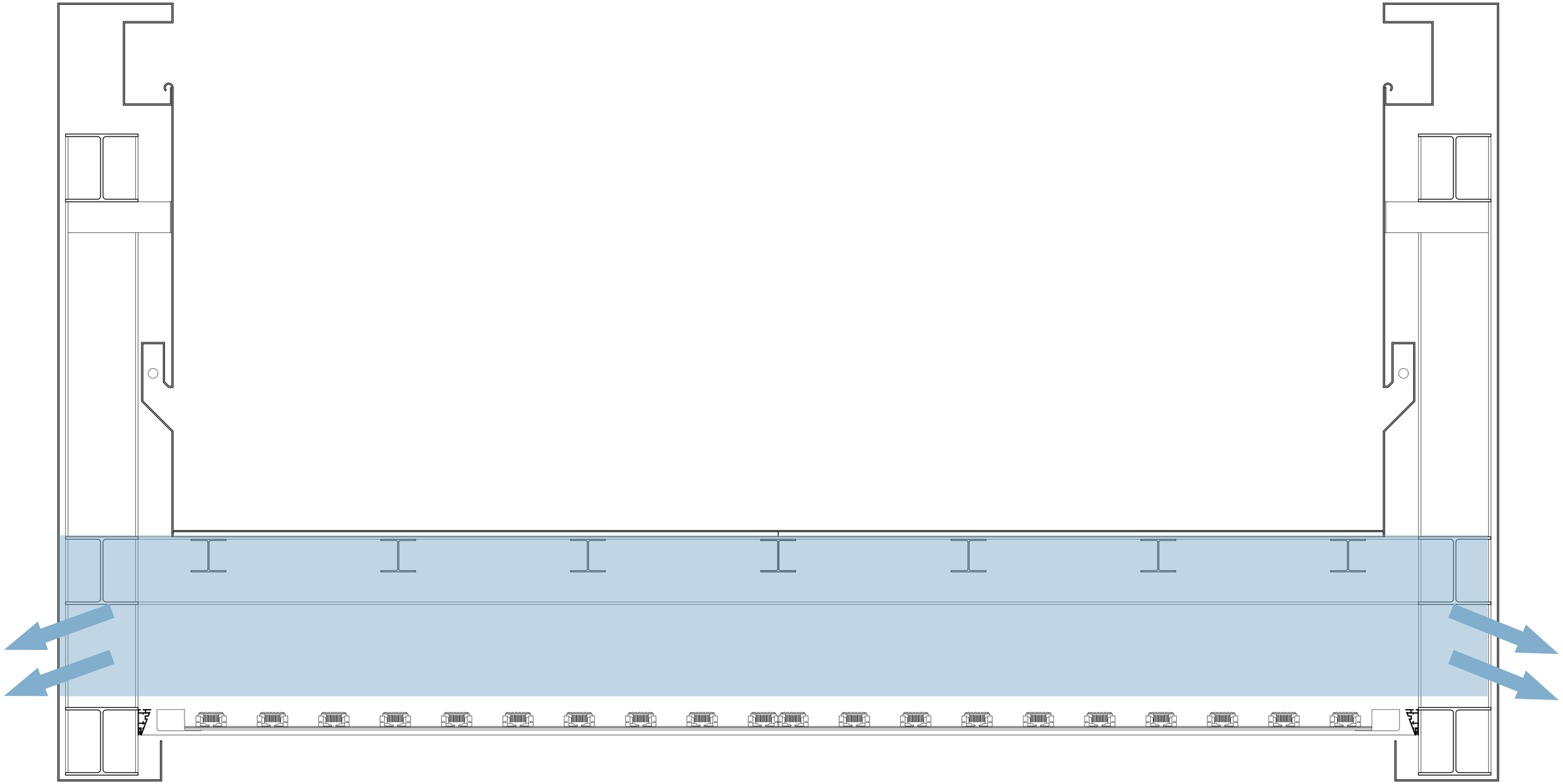
Fire sprinklers

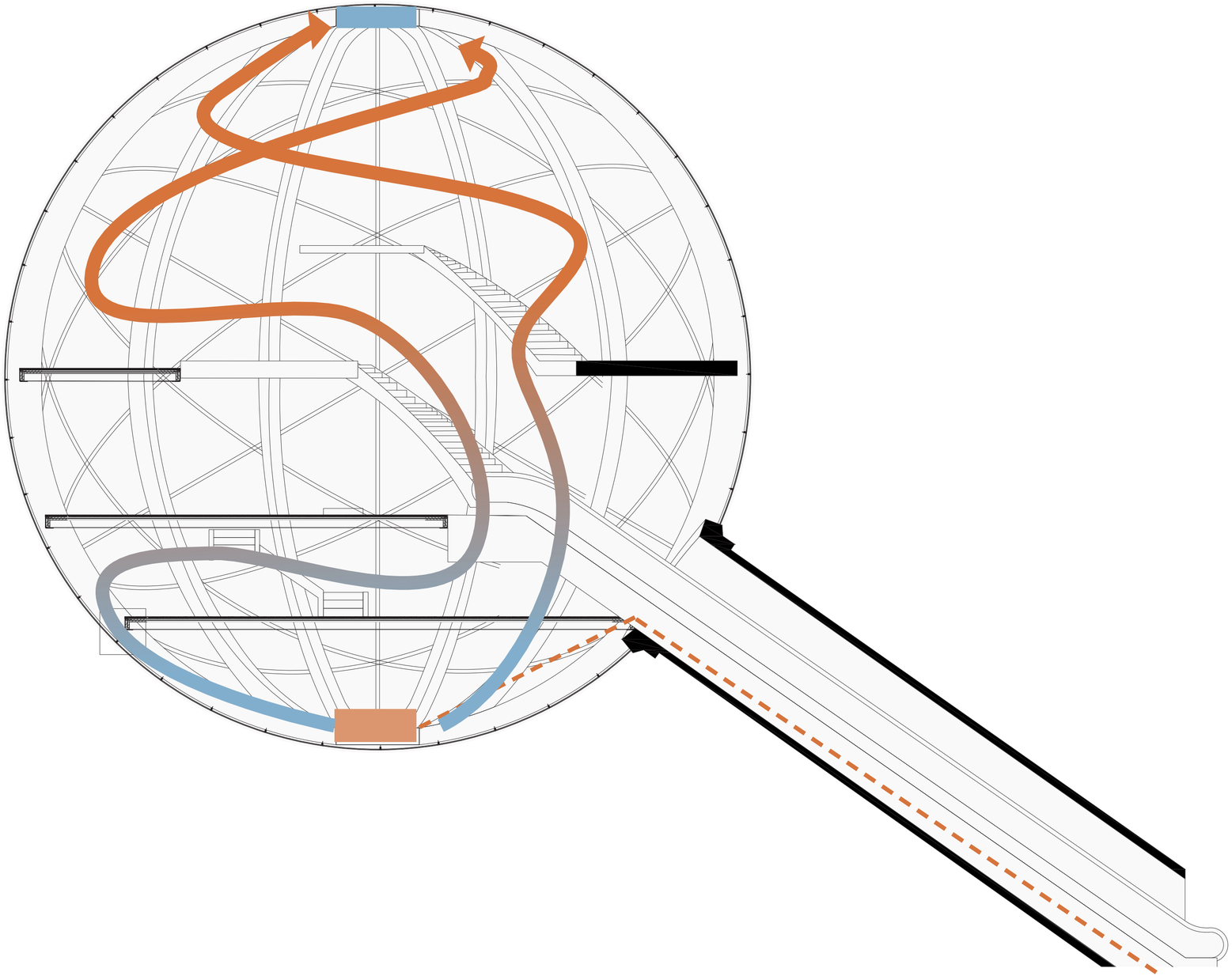
The use of plastic pipes is recommended since they are easily introduced into the slab thanks to its flexibility.

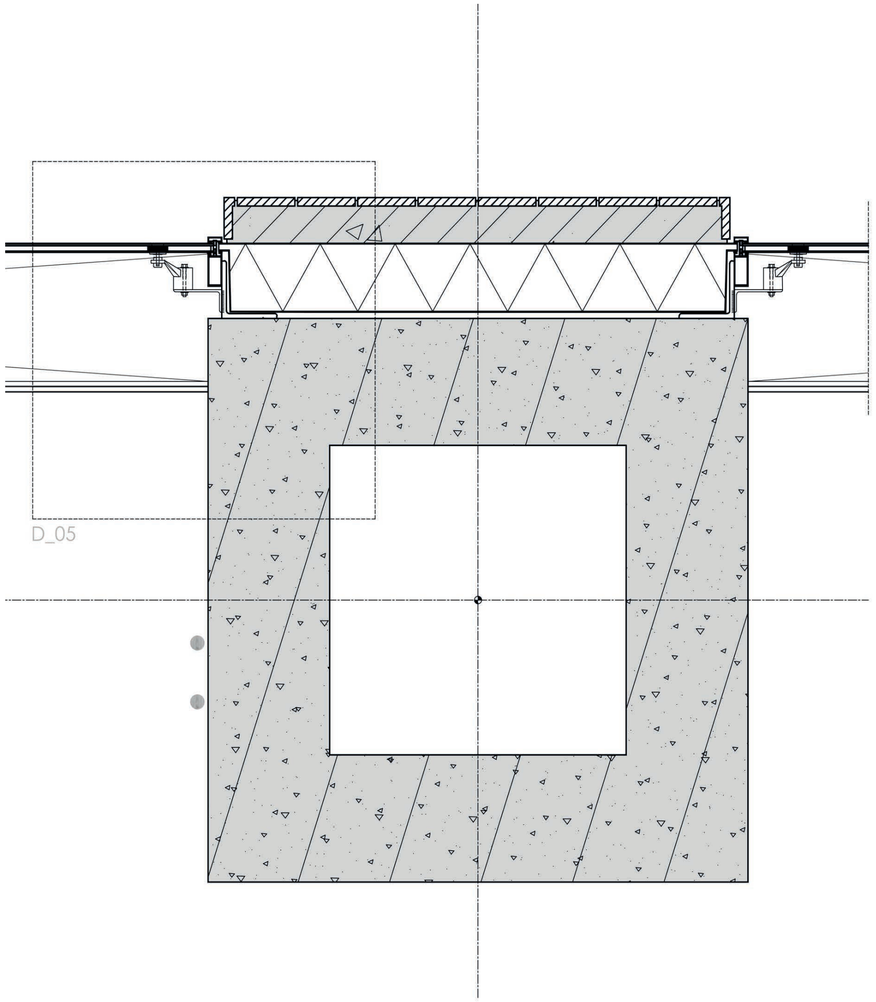


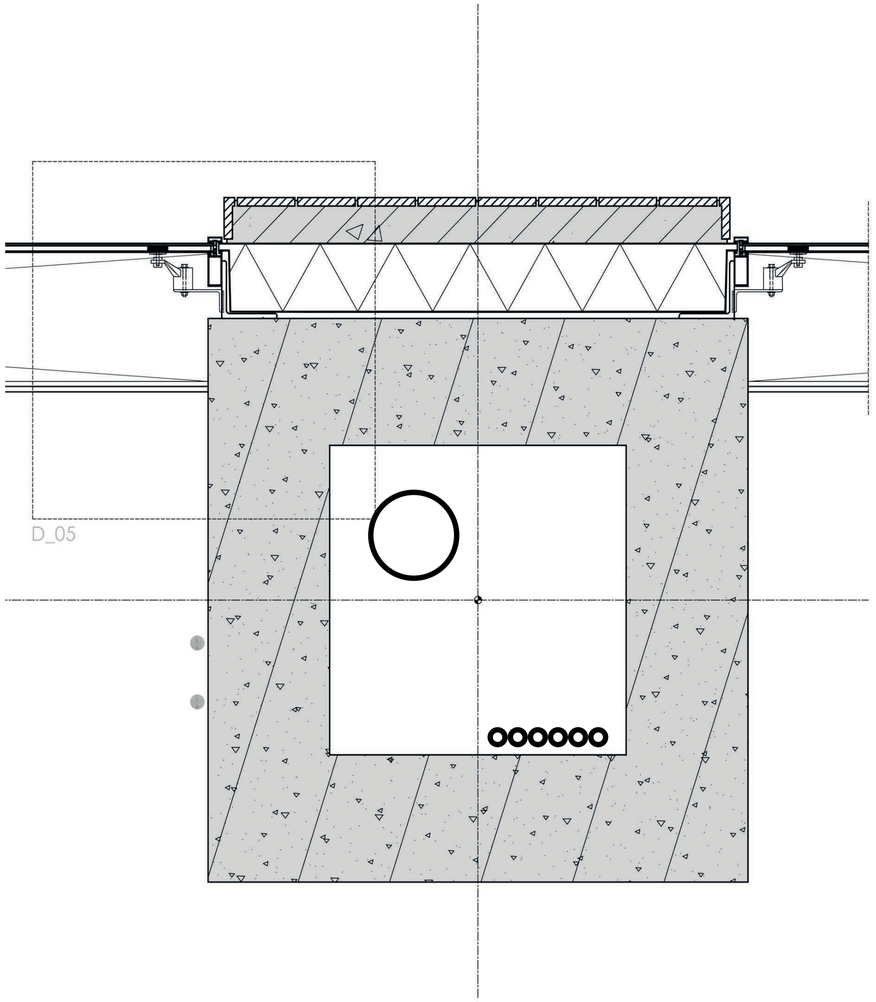

Technical Space
Technical Space
Technical Space

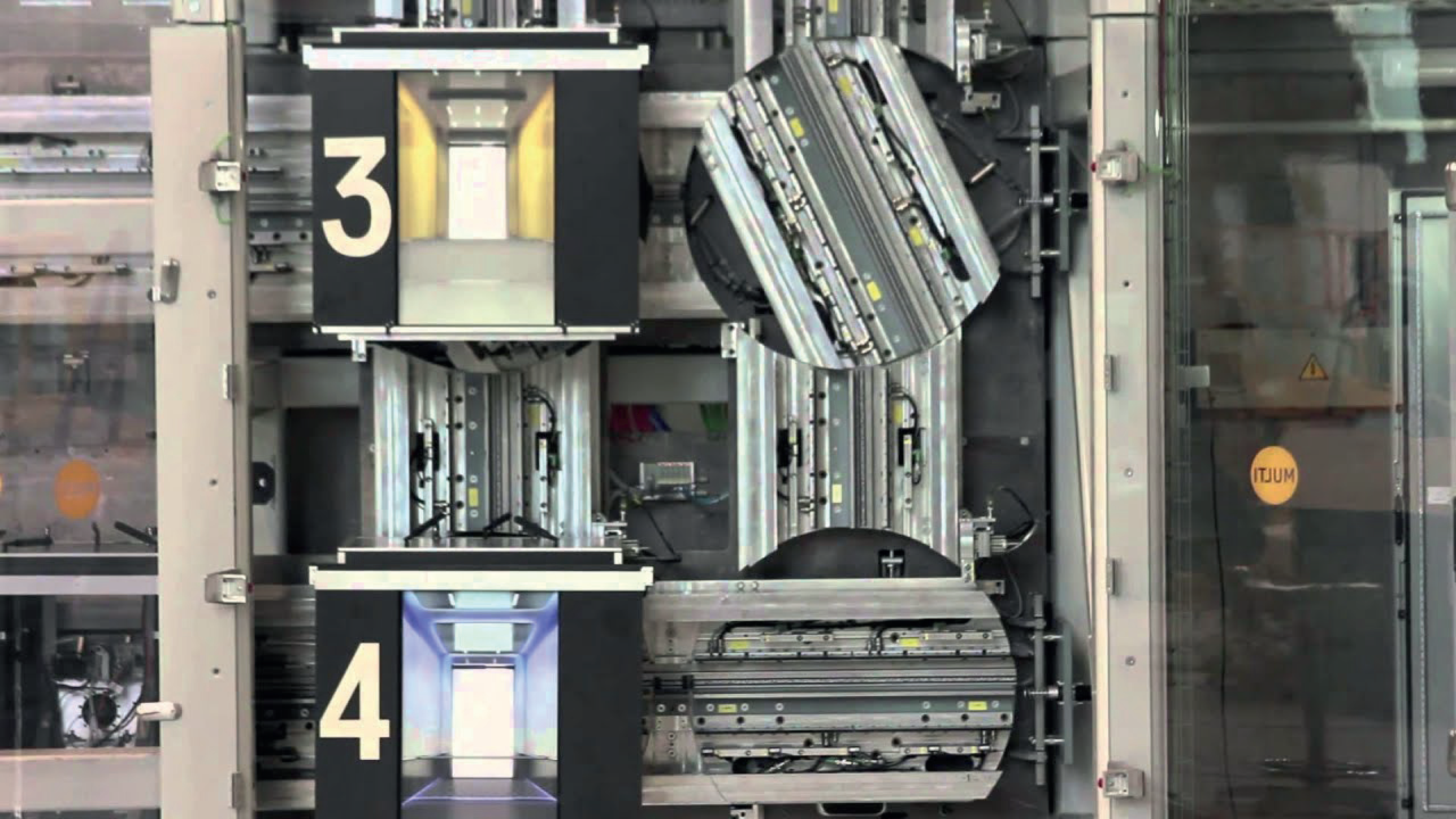

+64800
16
+60750
15
+56700
14
+52650
13
+48600
12
+44550
11
+40500
10
+36450
9
+32400
8
+28350
7
+24300
6
+20250
5
+16200
4
+12150
3
0 = 0
0
-4500
-1
-9000
-2
17
+64800
15
+56700
12
+48600
10
+40500
8
+34425
7
+28350
6
+24300
5
+20250
4
+16200
3
+12150
0
P = 0
-1
-4500
-2
-9000



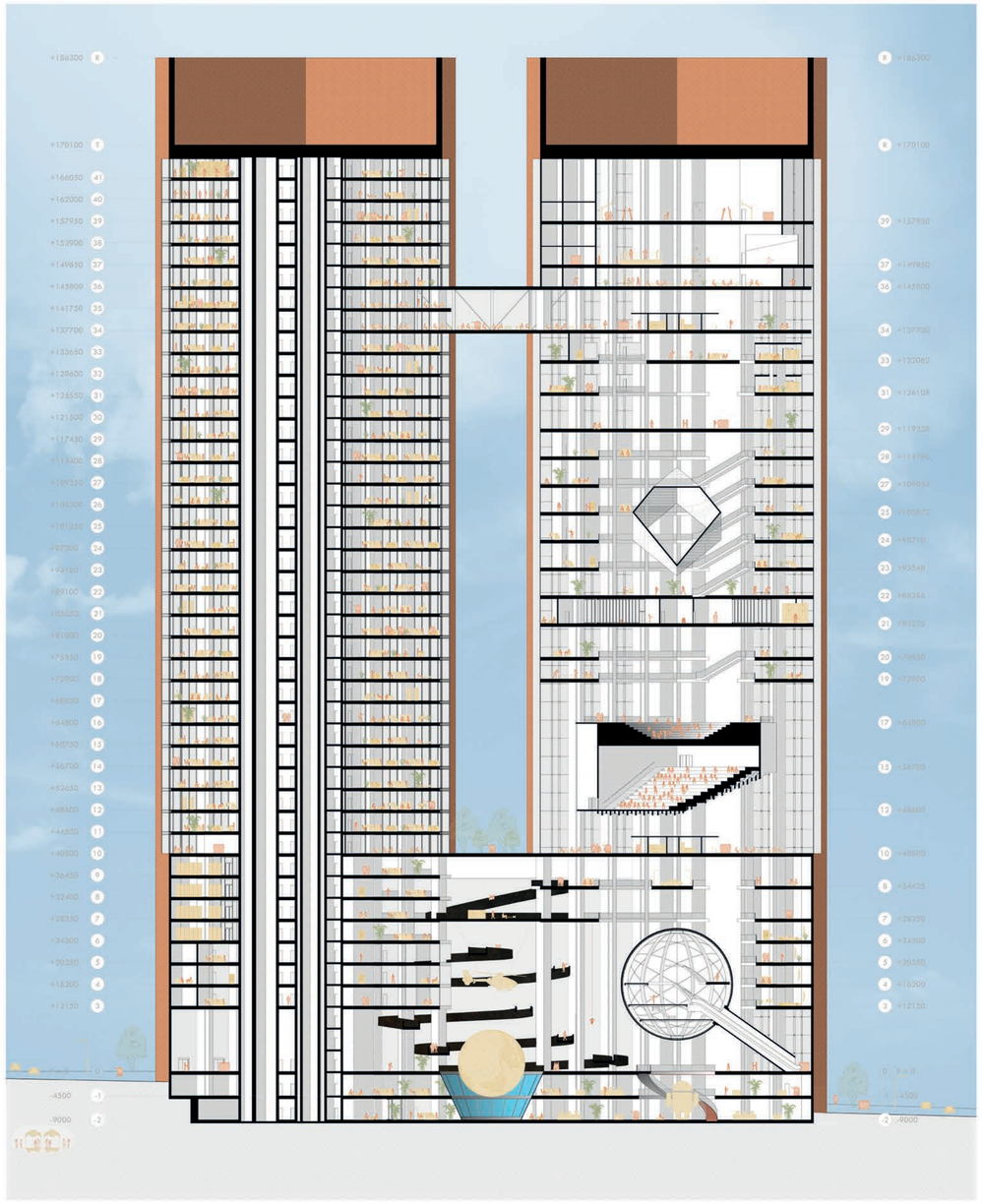



D_05


D_05


3
4
ITJUM

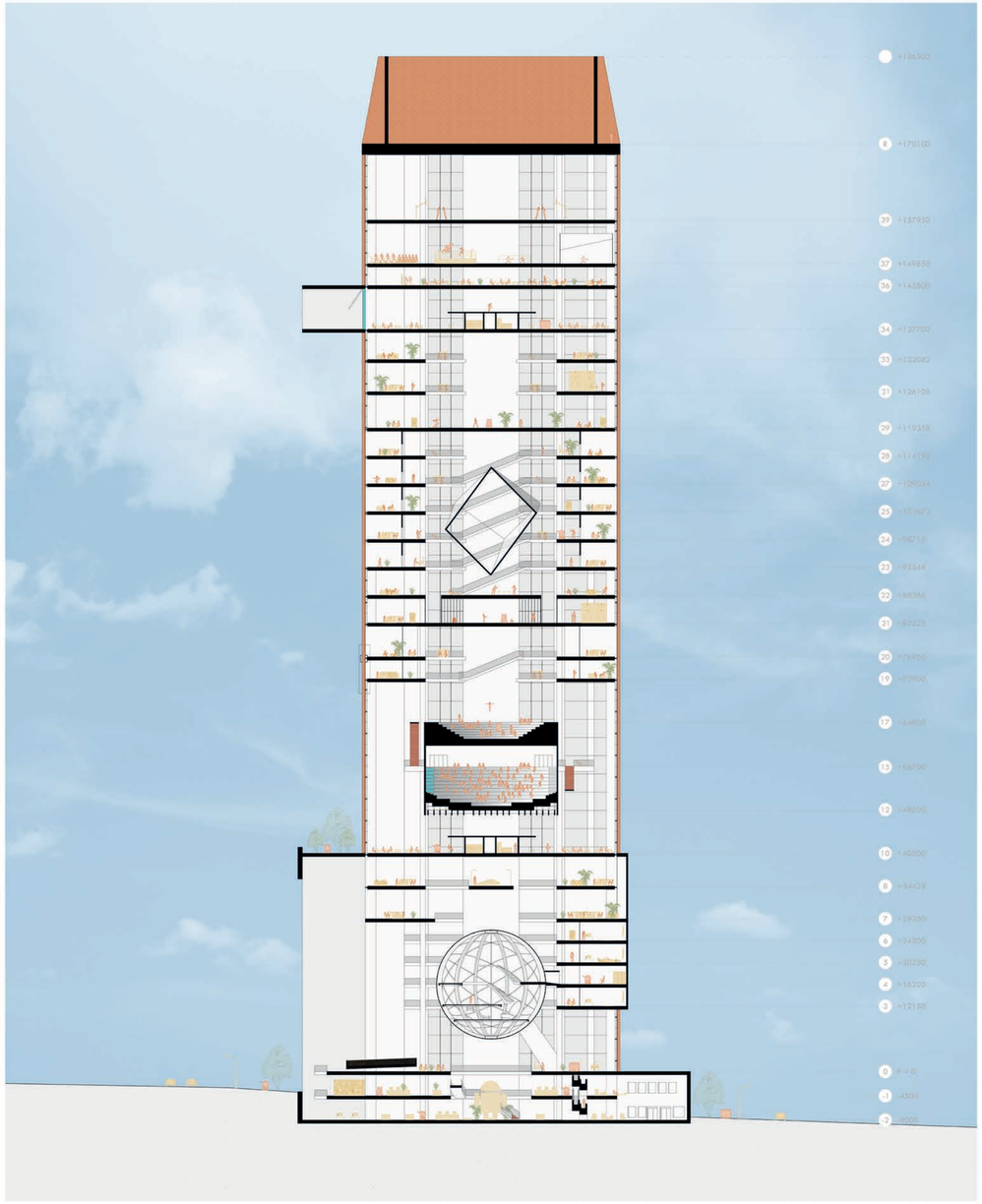
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

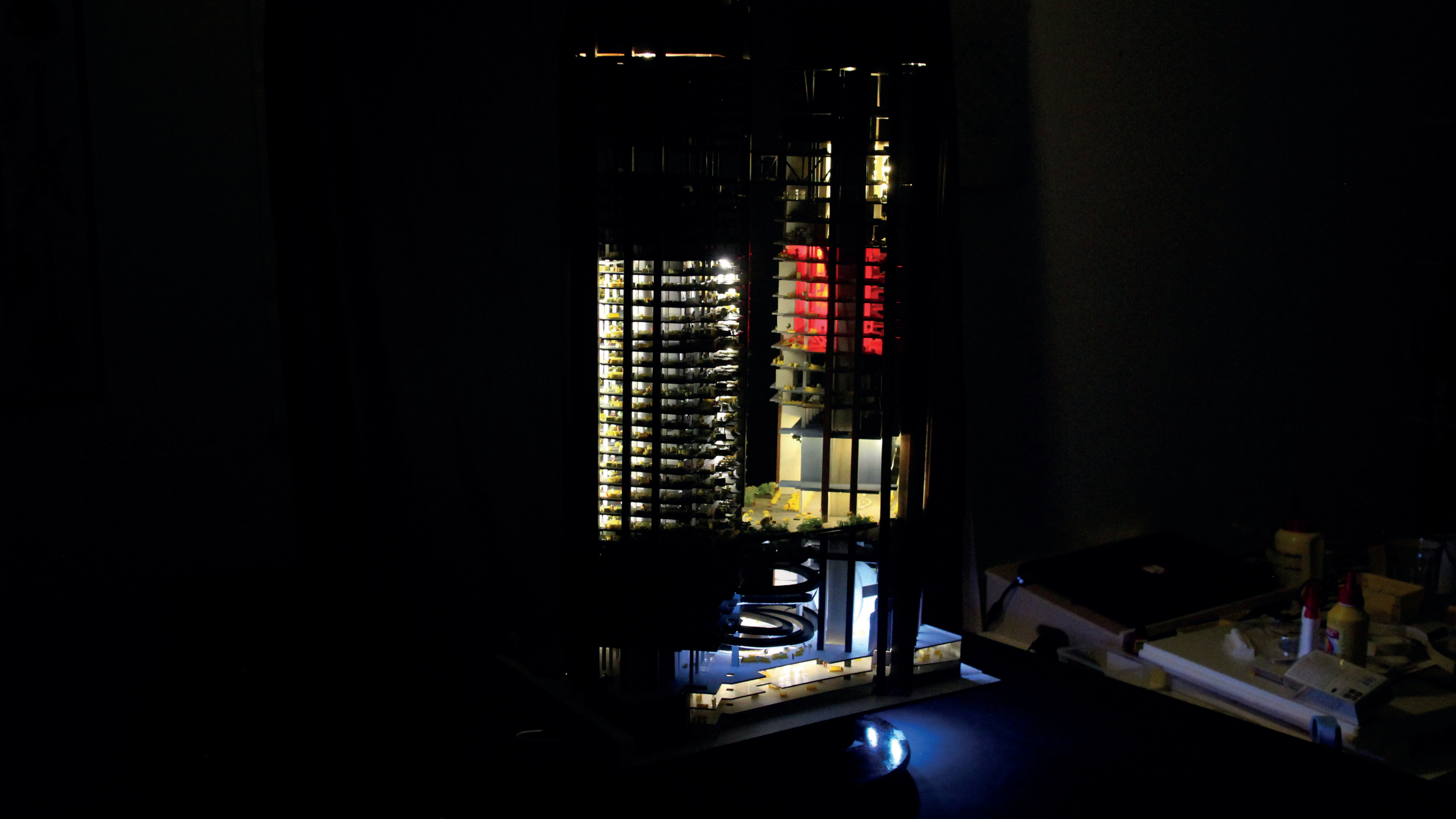
1 : 250

Section BB'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

1 : 250







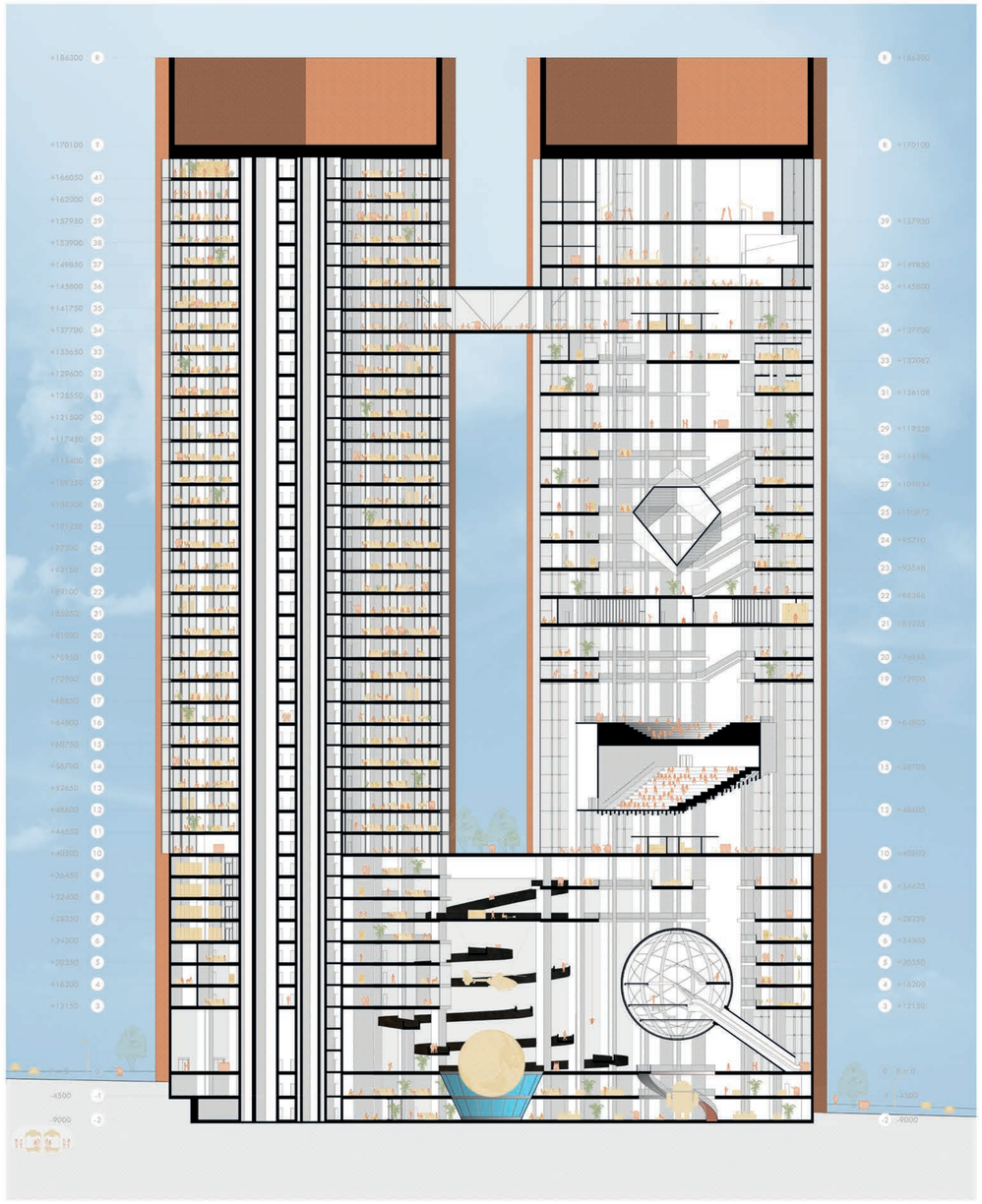





MetLife
MARINE & AVIATION
PIER 40
MARINE & AVIATION
PIER 40

THANK YOU

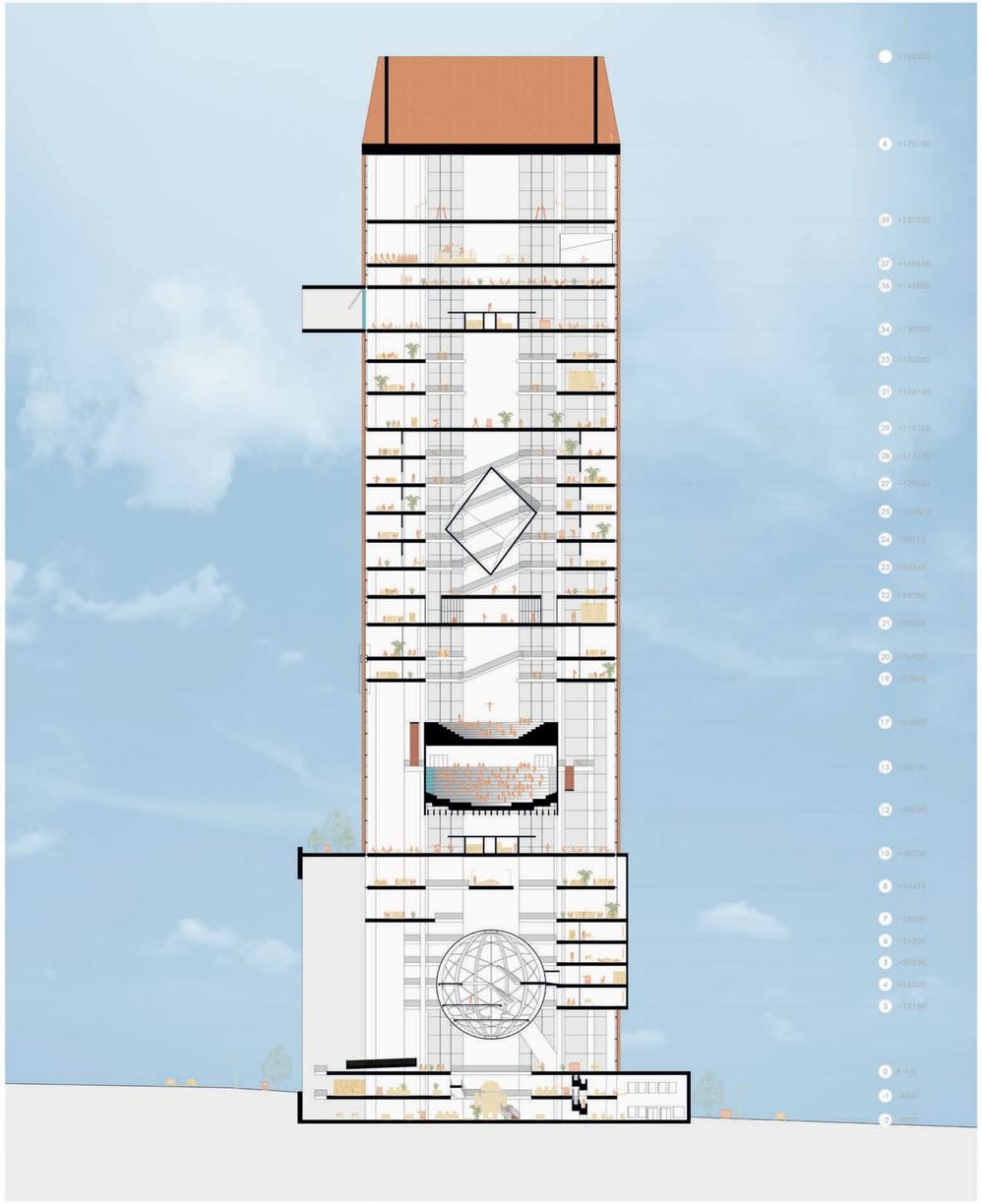
Section AA'



Bjorn van Dijk
4295501
New York Midtown Graduation studio

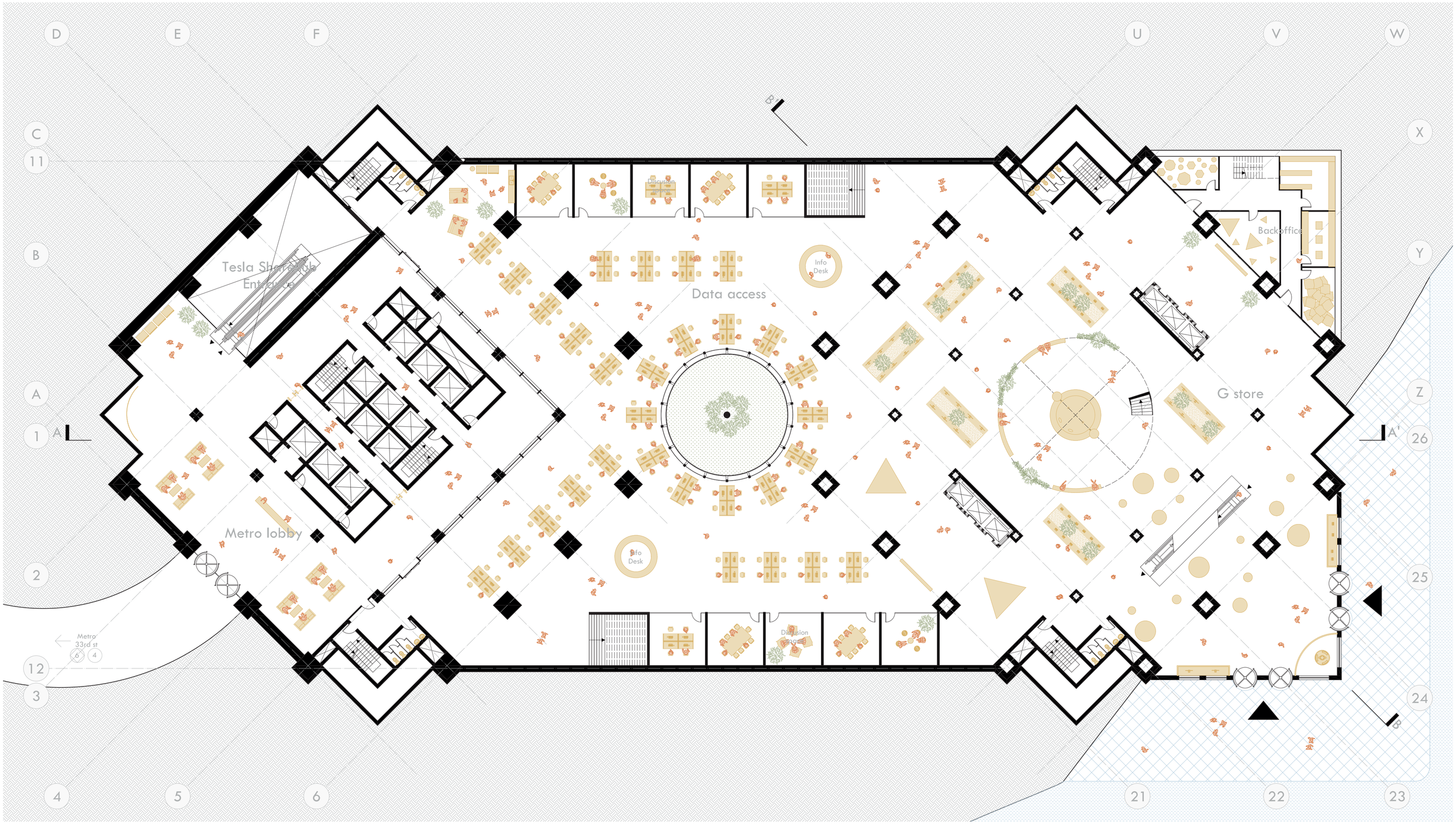
1 : 250

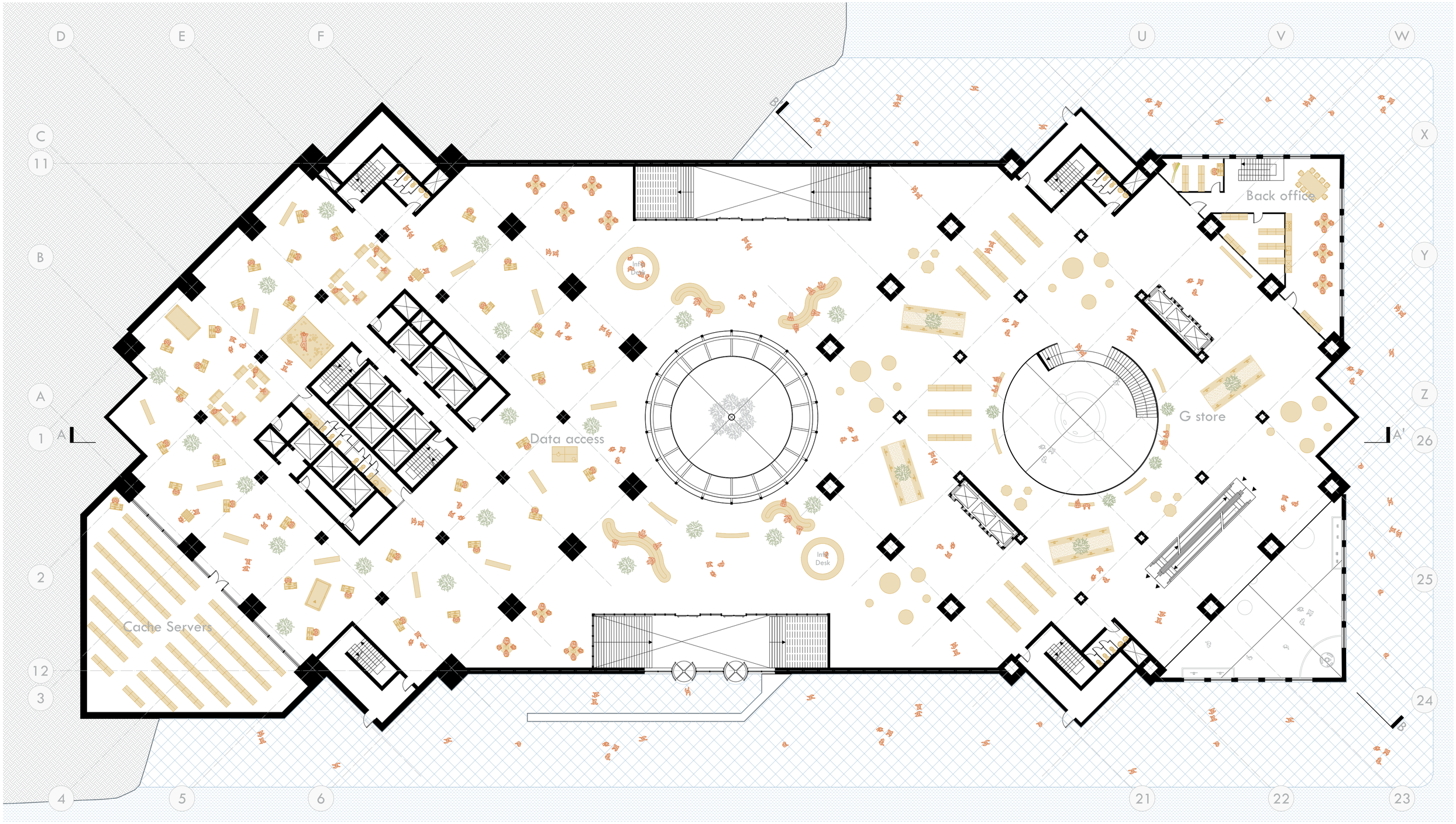
Section BB'

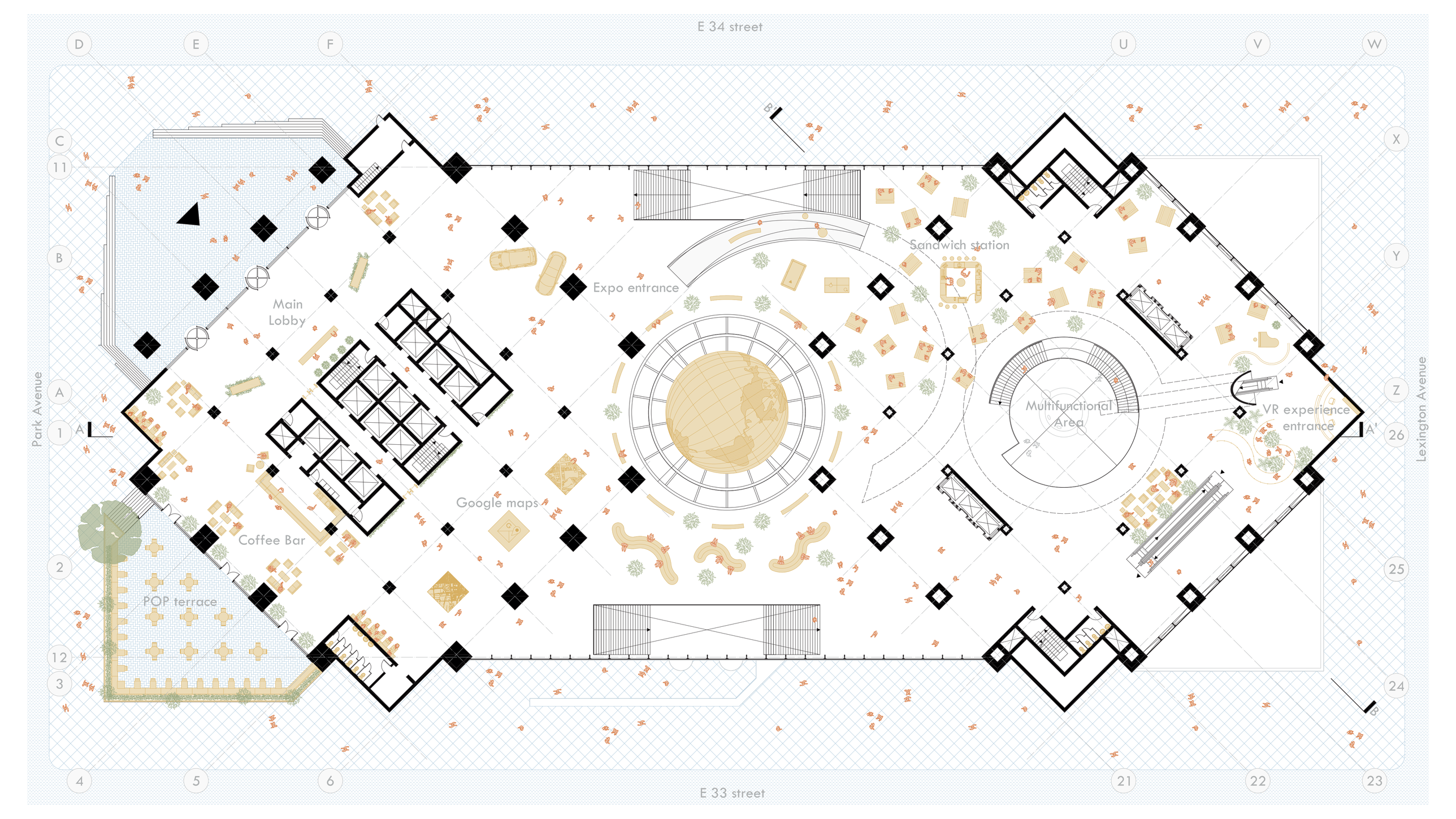


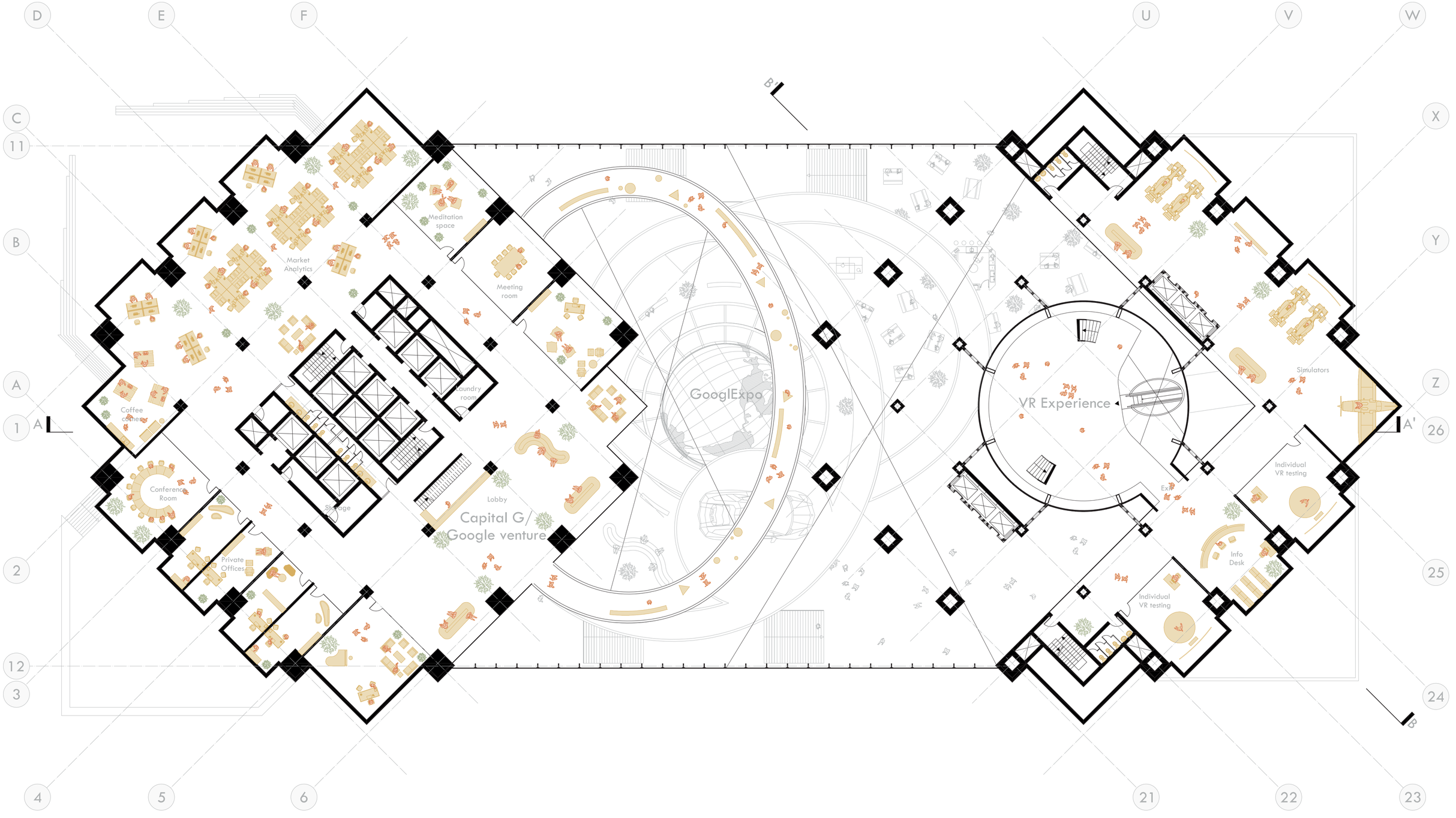
Bjorn van Dijk
4295501
New York Midtown Graduation studio

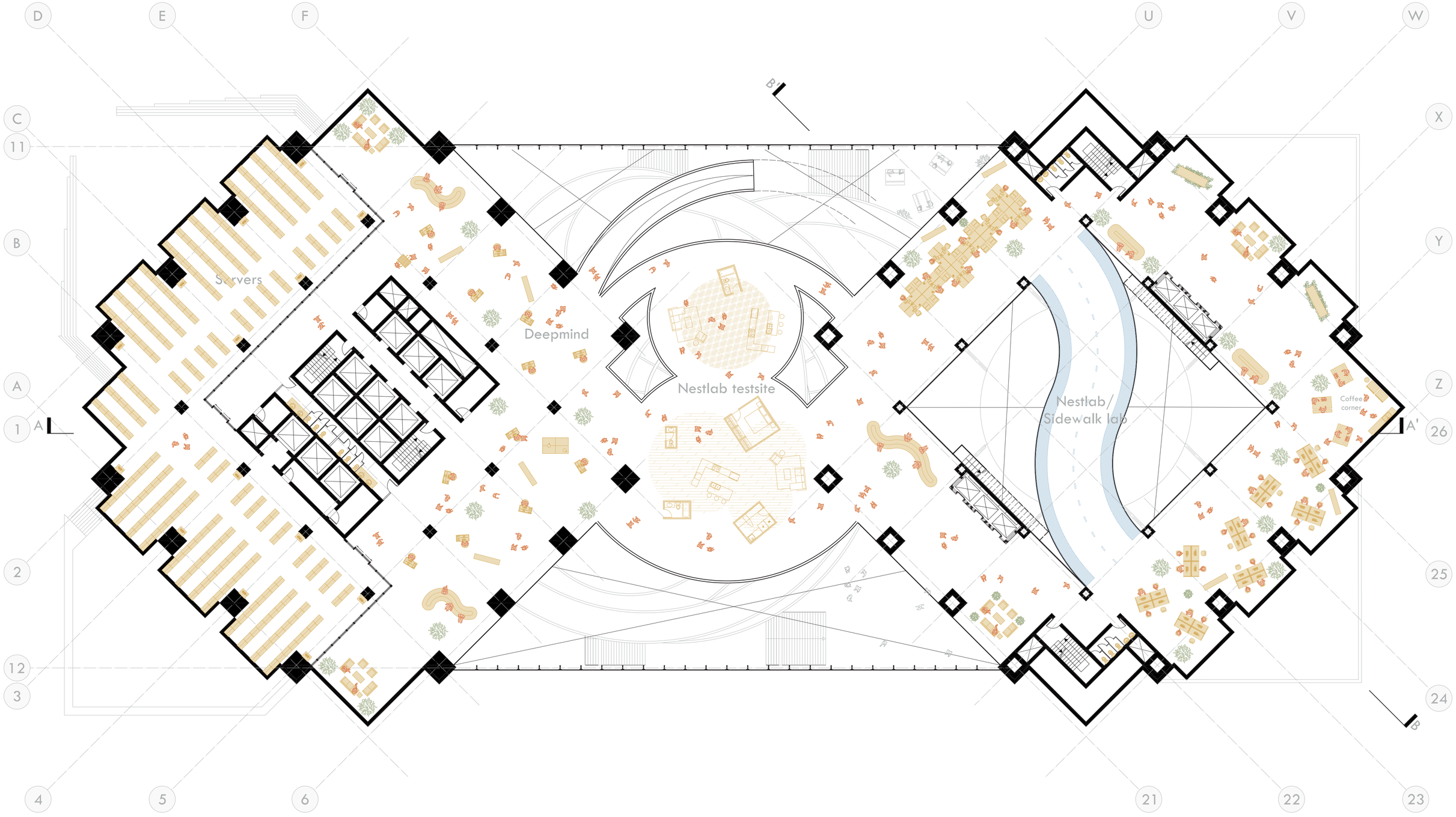
1 : 250

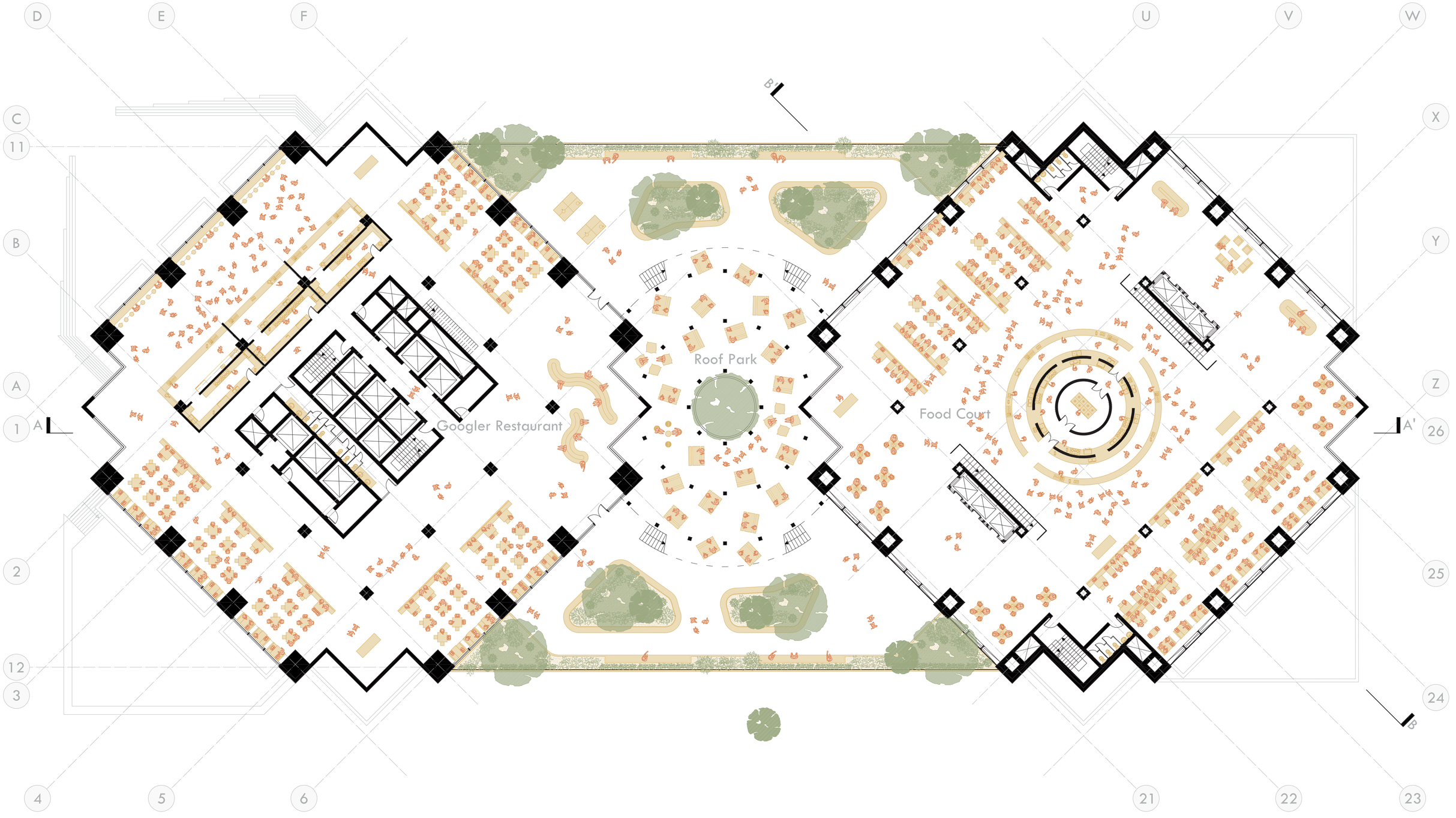

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Tesla Showroom
Entrance
Data access
Info Desk
Backoffice
G store
Metro lobby
Info Desk
Discussion area
Discussion area
Metro
33rd st
6
4

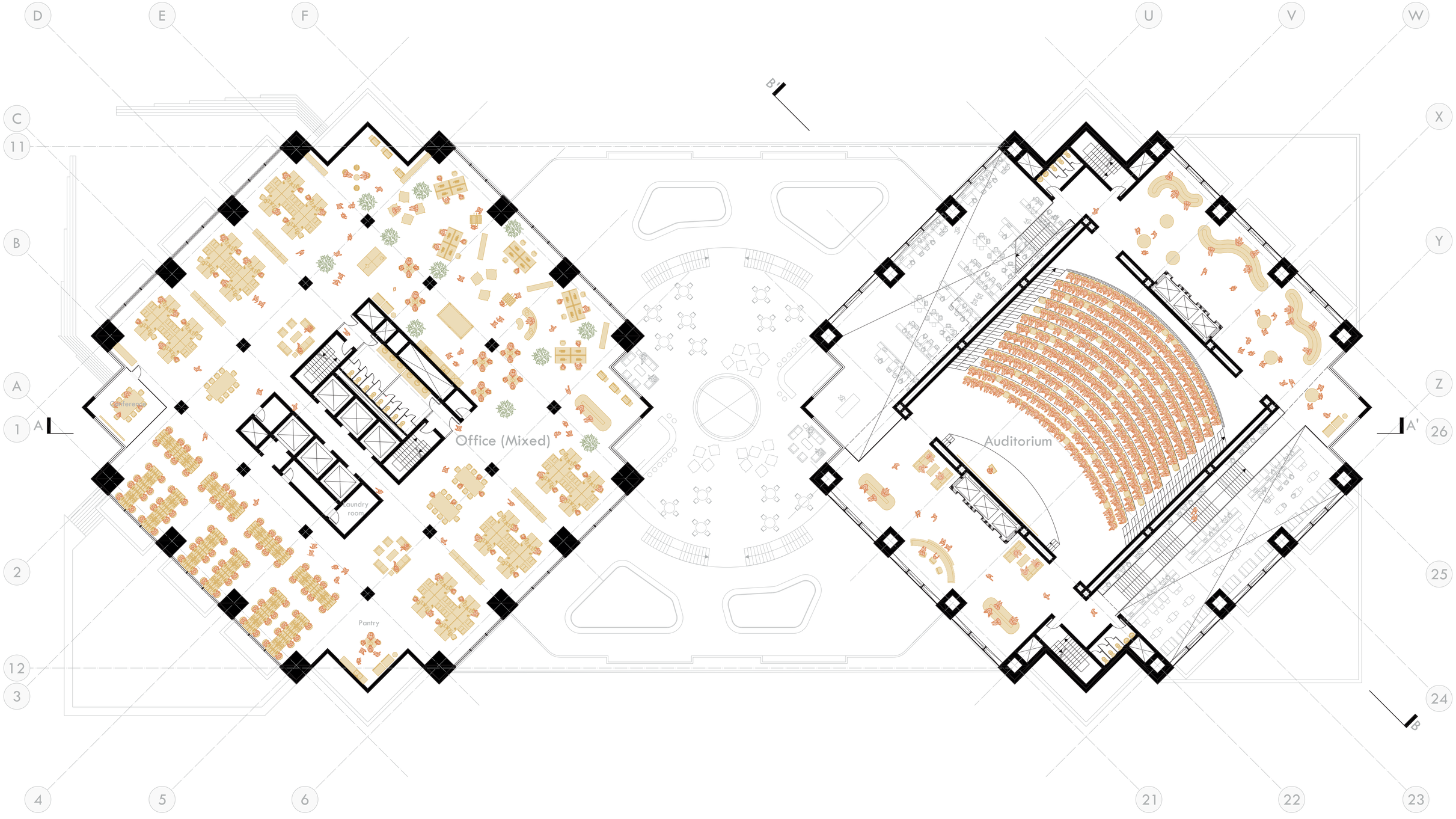

D
E
F
U
V
W
C
11
X
B
Back office
Y
A
Z
1
A
Data access
G store
A'
26
2
25
Cache Servers
12
3
24
B
4
5
6
21
22
23


E 34 street
E 33 street
Park Avenue
Lexington Avenue
D
E
F
U
V
W
C
11
B
A
1
2
12
3
4
5
6
X
Y
Z
26
25
24
21
22
23
B'
B
A
A'
Main
Lobby
Expo entrance
Sandwich station
Multifunctional
Area
VR experience
entrance
Google maps
Coffee Bar
POP terrace

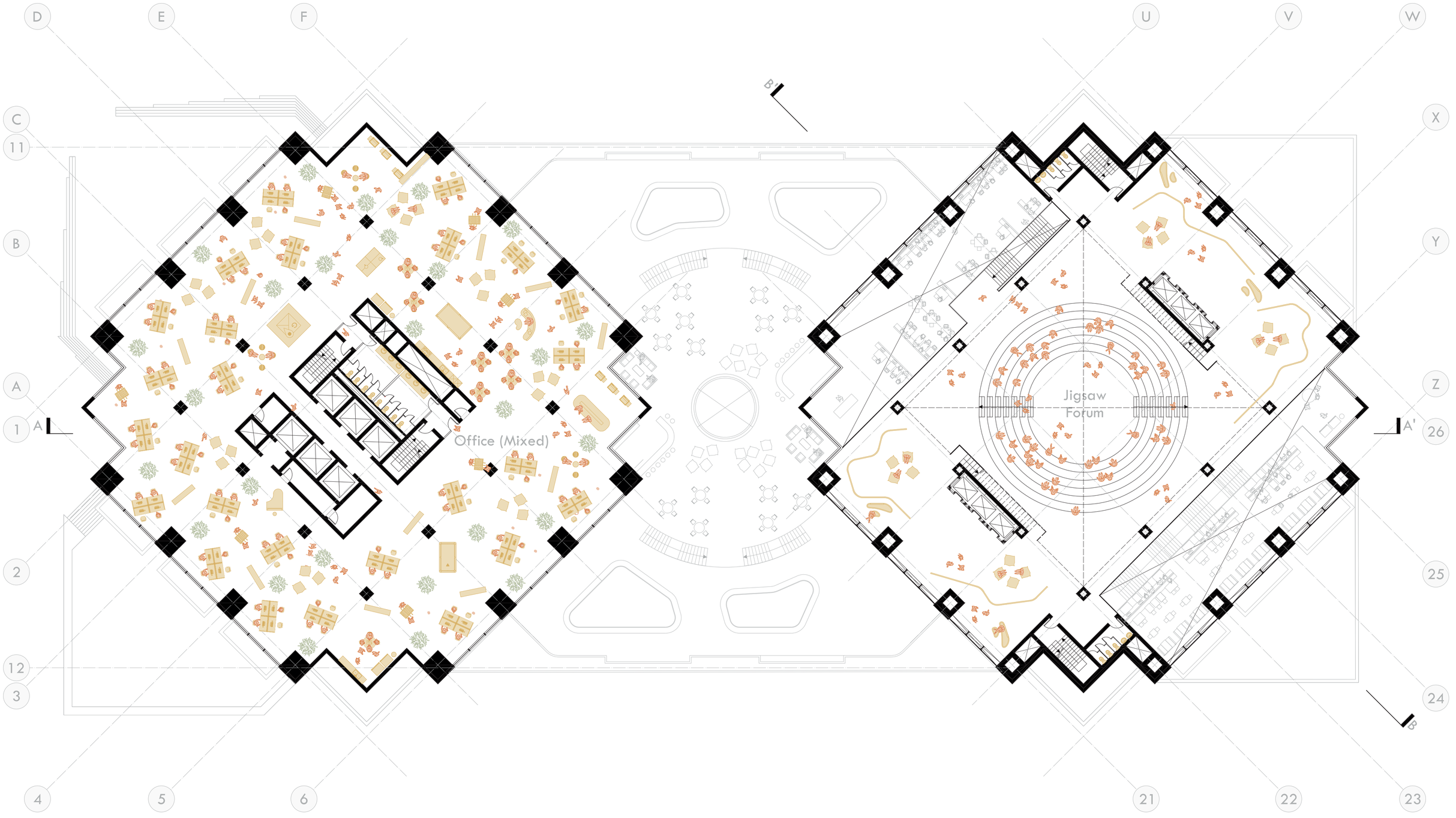

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Meditation space
Market Analytics
Meeting room
Laundry room
Coffee corner
Conference Room
Storage
Lobby
Capital G/
Google venture
Private Offices
GoogleExpo
VR Experience
Simulators
Individual VR testing
Info Desk
Individual VR testing

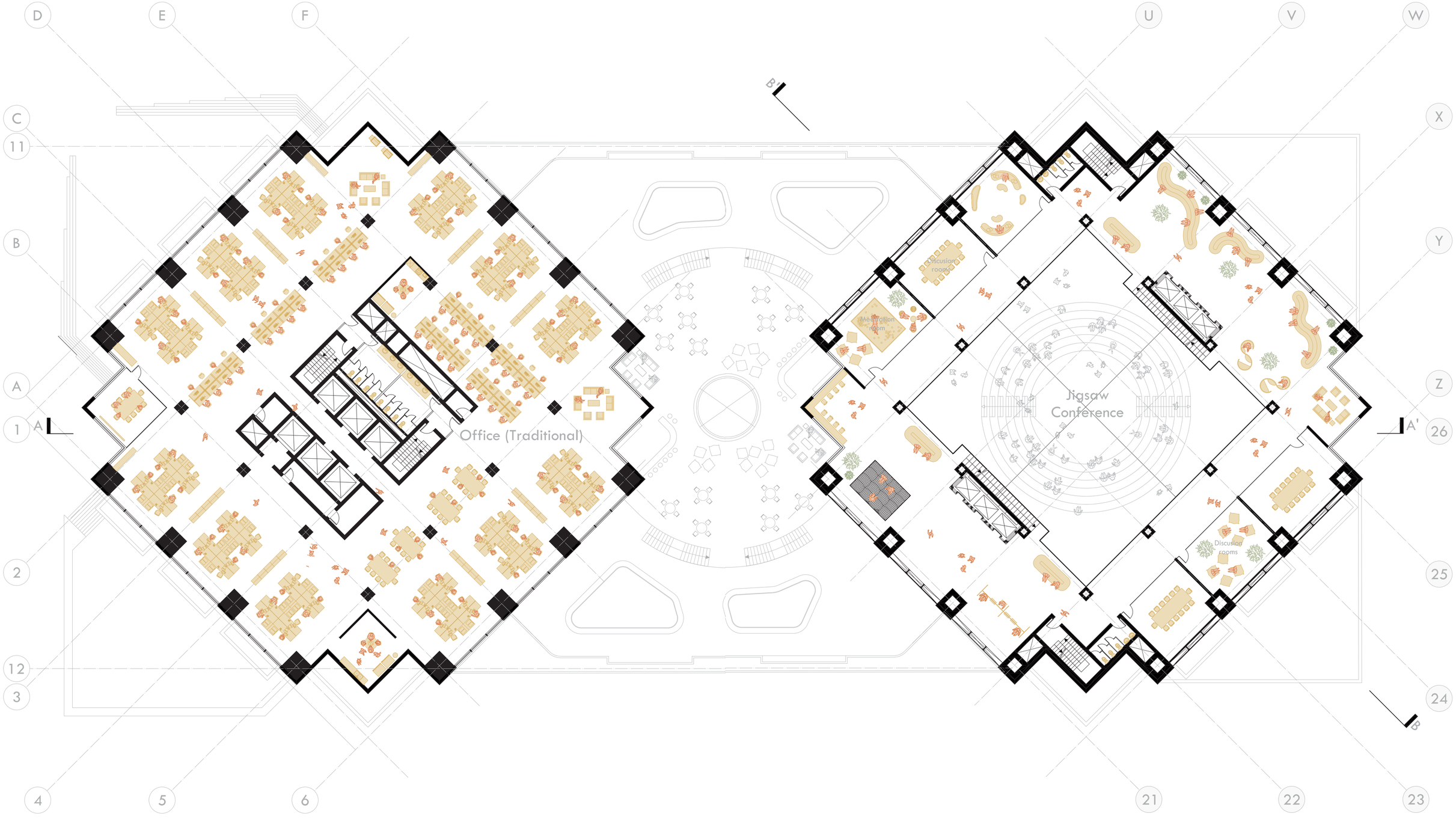

D
E
F
U
V
W
C
11
B
X
Y
A
1
A
Z
A'
26
2
25
12
3
24
B
4
5
6
21
22
23
Servers
Deepmind
Nestlab testsite
Nestlab/
Sidewalk lab
Coffee
corner

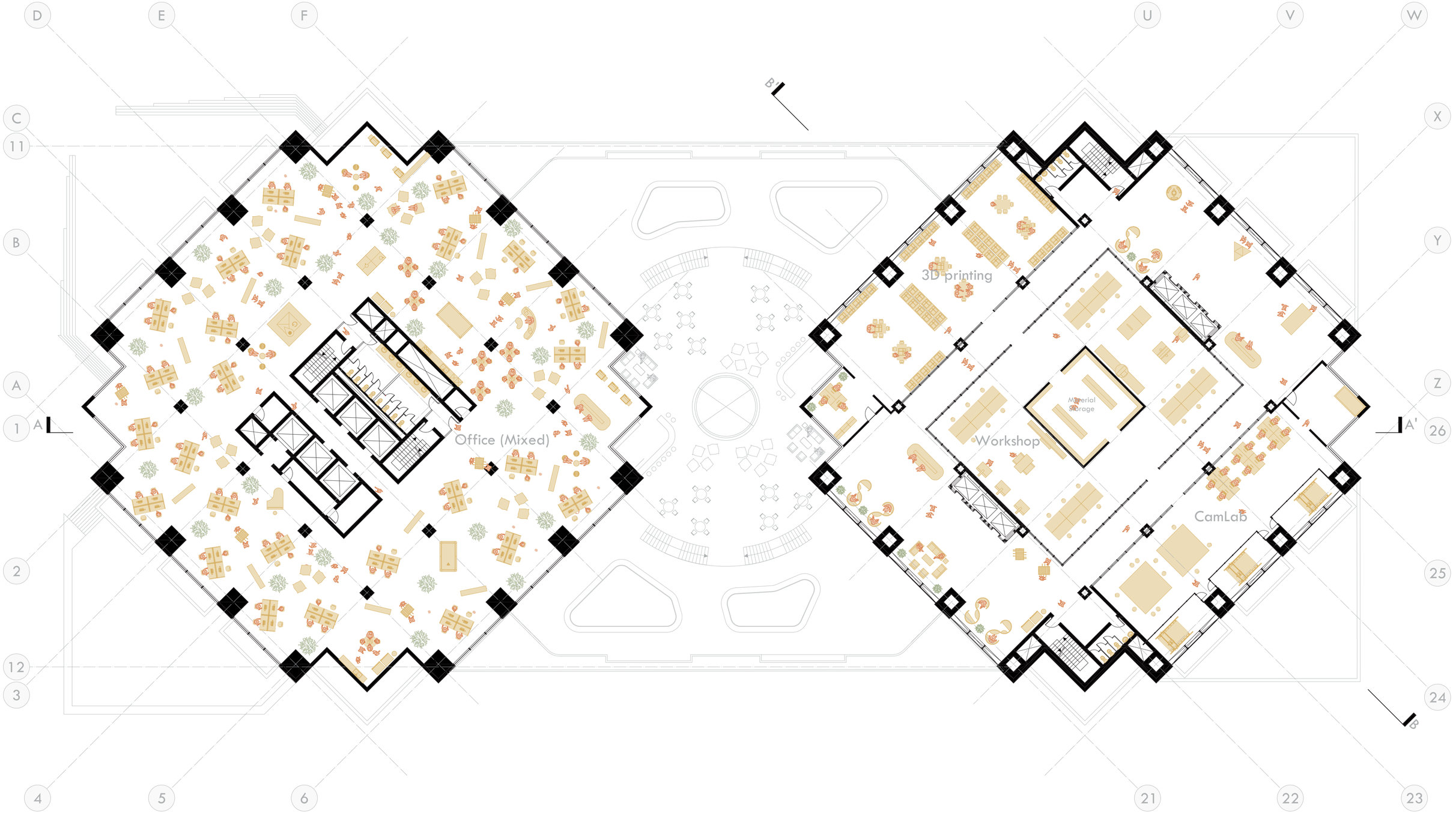

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Roof Park
Googler Restaurant
Food Court

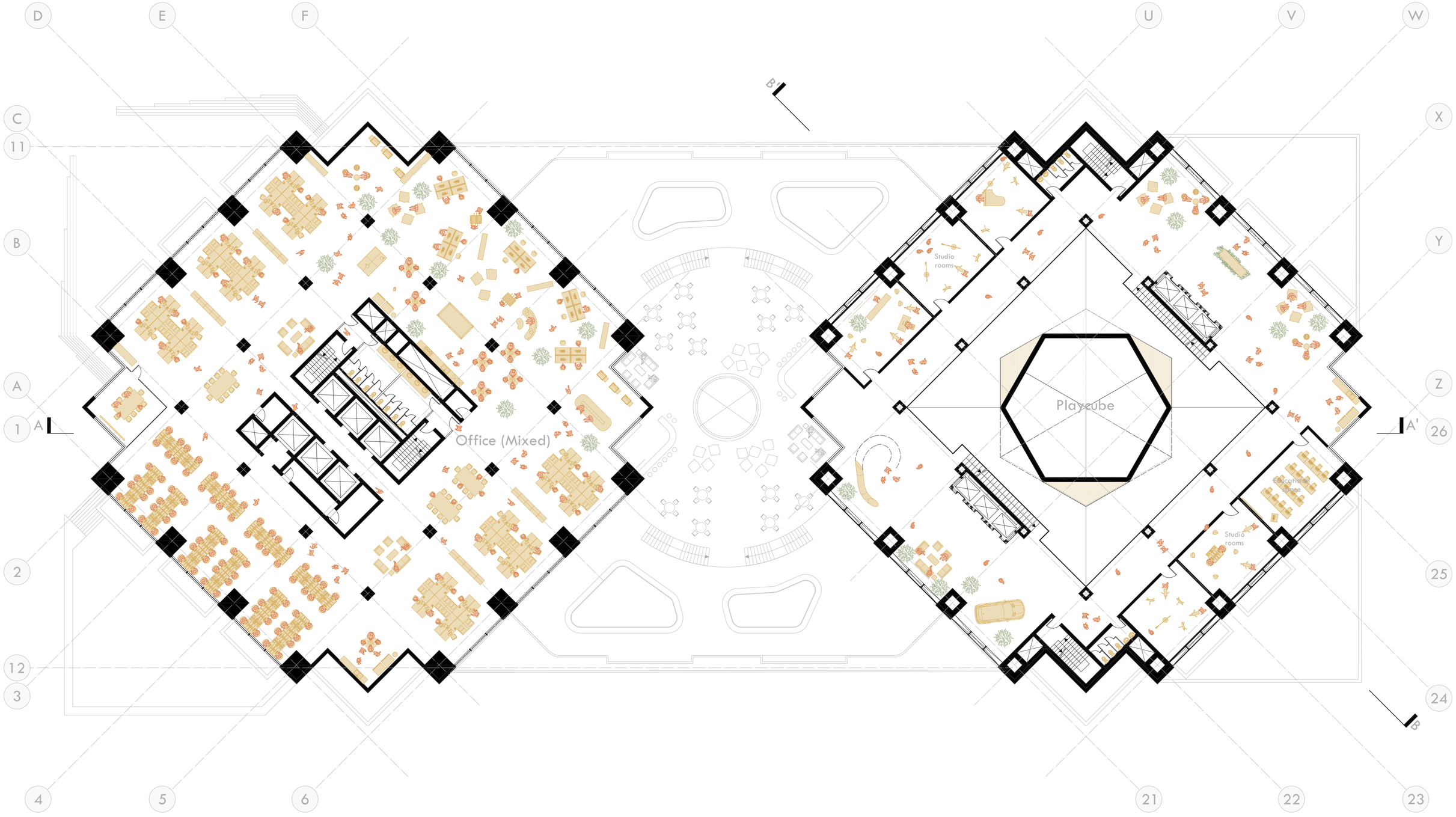


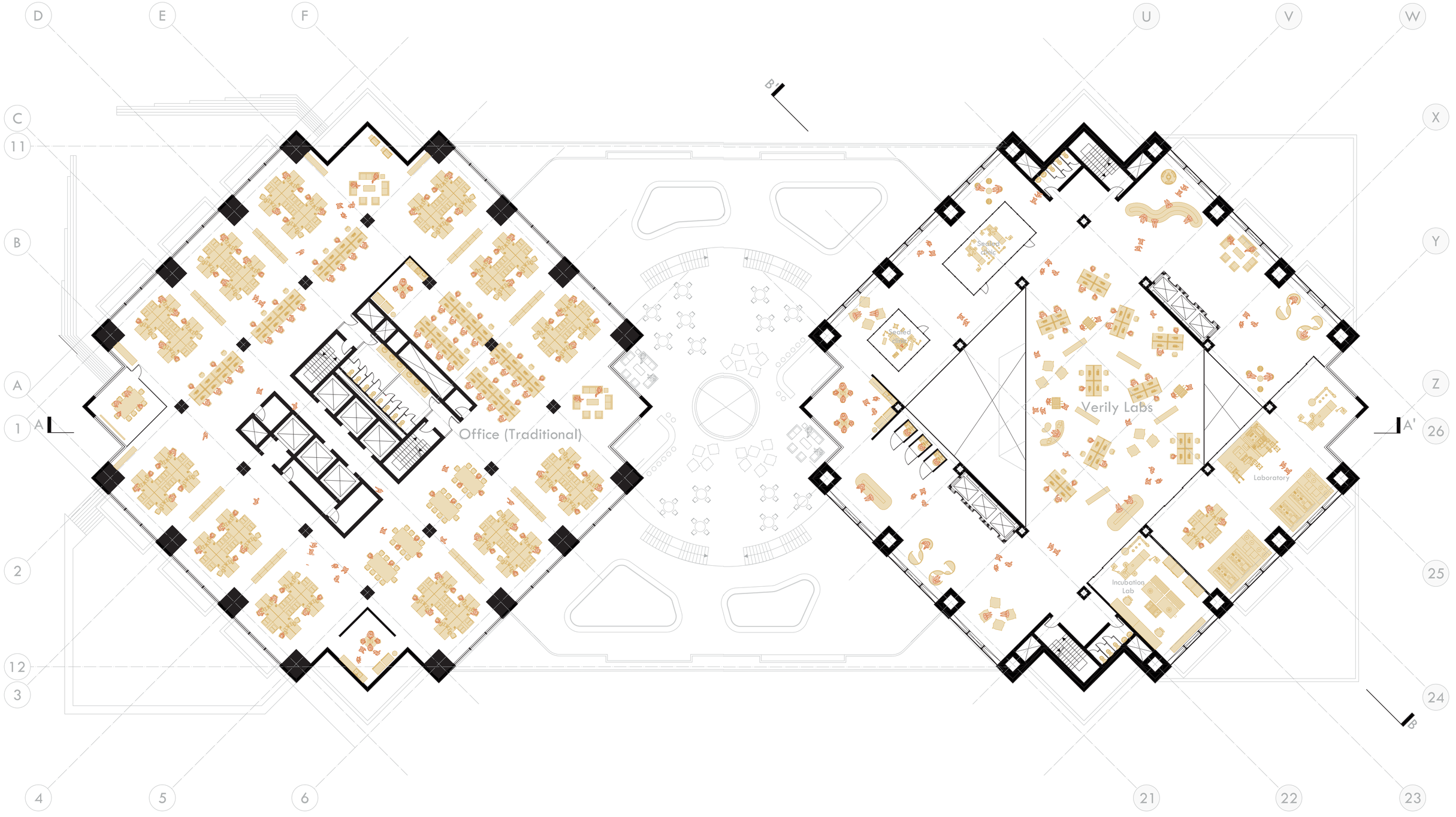
D
E
F
U
V
W
C
11
B
A
1
2
12
3
4
5
6
X
Y
Z
26
25
24
21
22
23
A
A'
B'
B
Office (Mixed)
Auditorium
Laundry room
Pantry

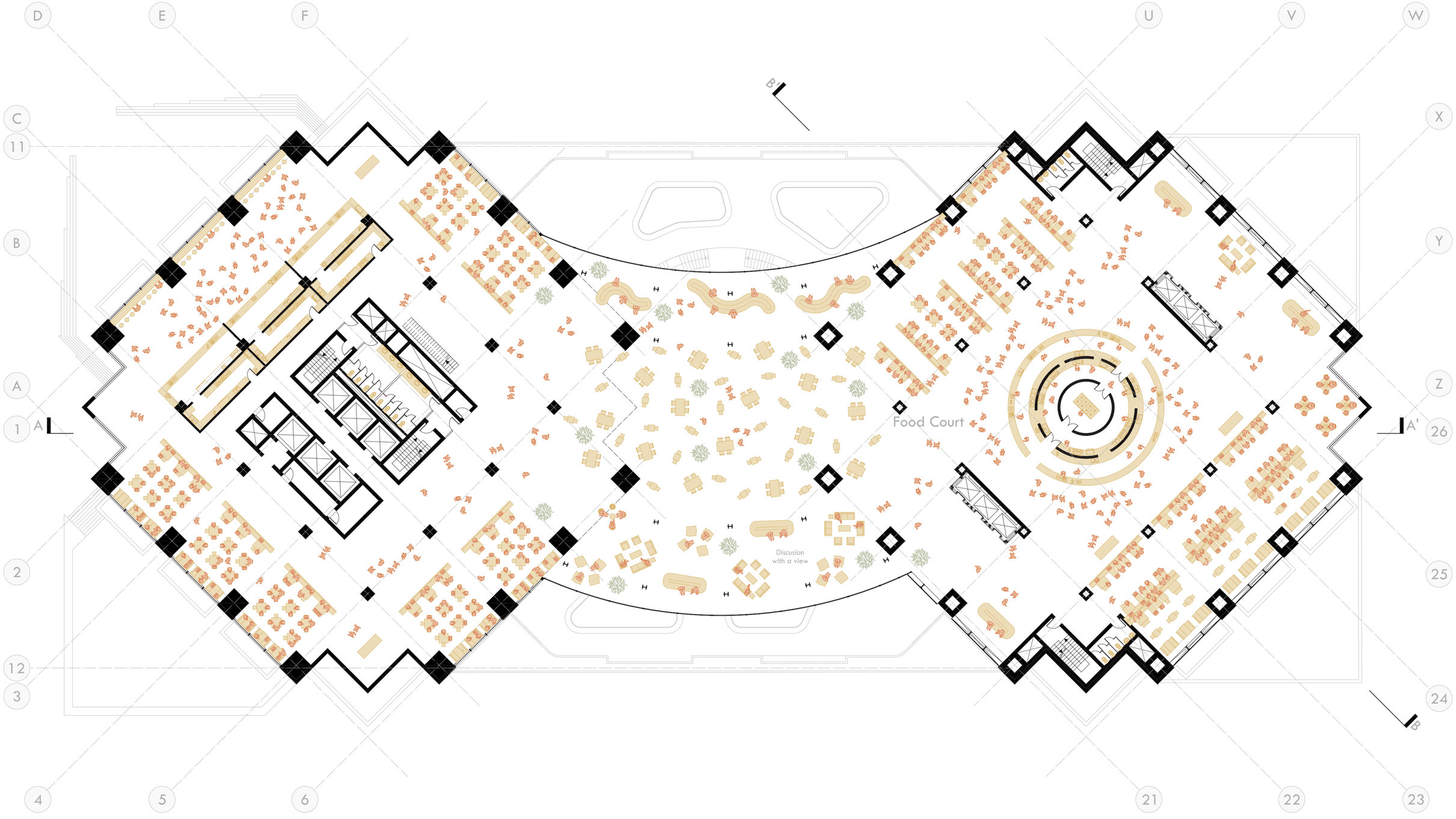

D
E
F
U
V
W
C
11
X
B
Y
A
1
A
A'
Z
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Mixed)
Jigsaw
Forum


D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Traditional)
Discussion rooms
Meditation room
Jigsaw Conference
Discussion rooms

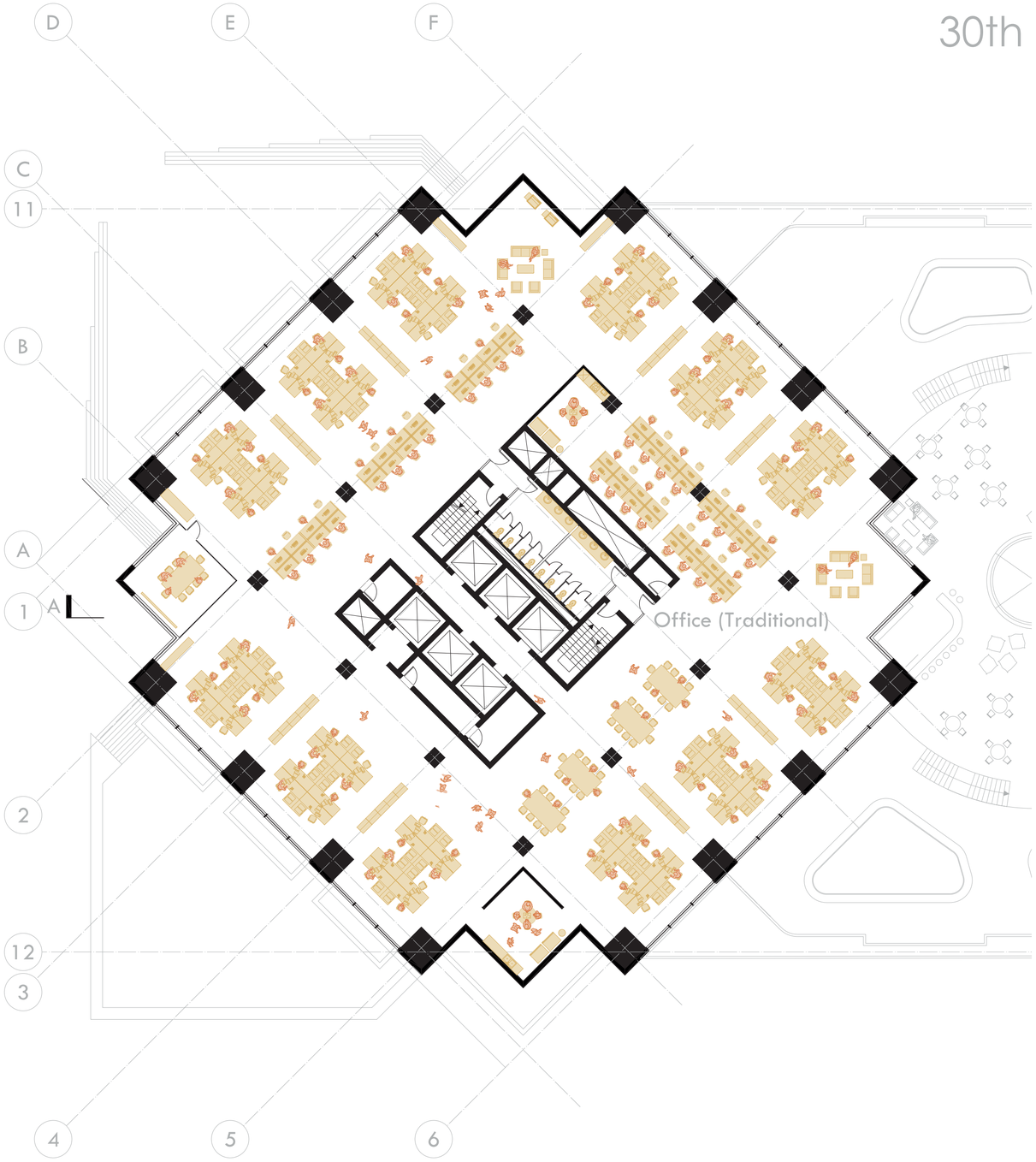

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Mixed)
3D printing
Material Storage
Workshop
CamLab

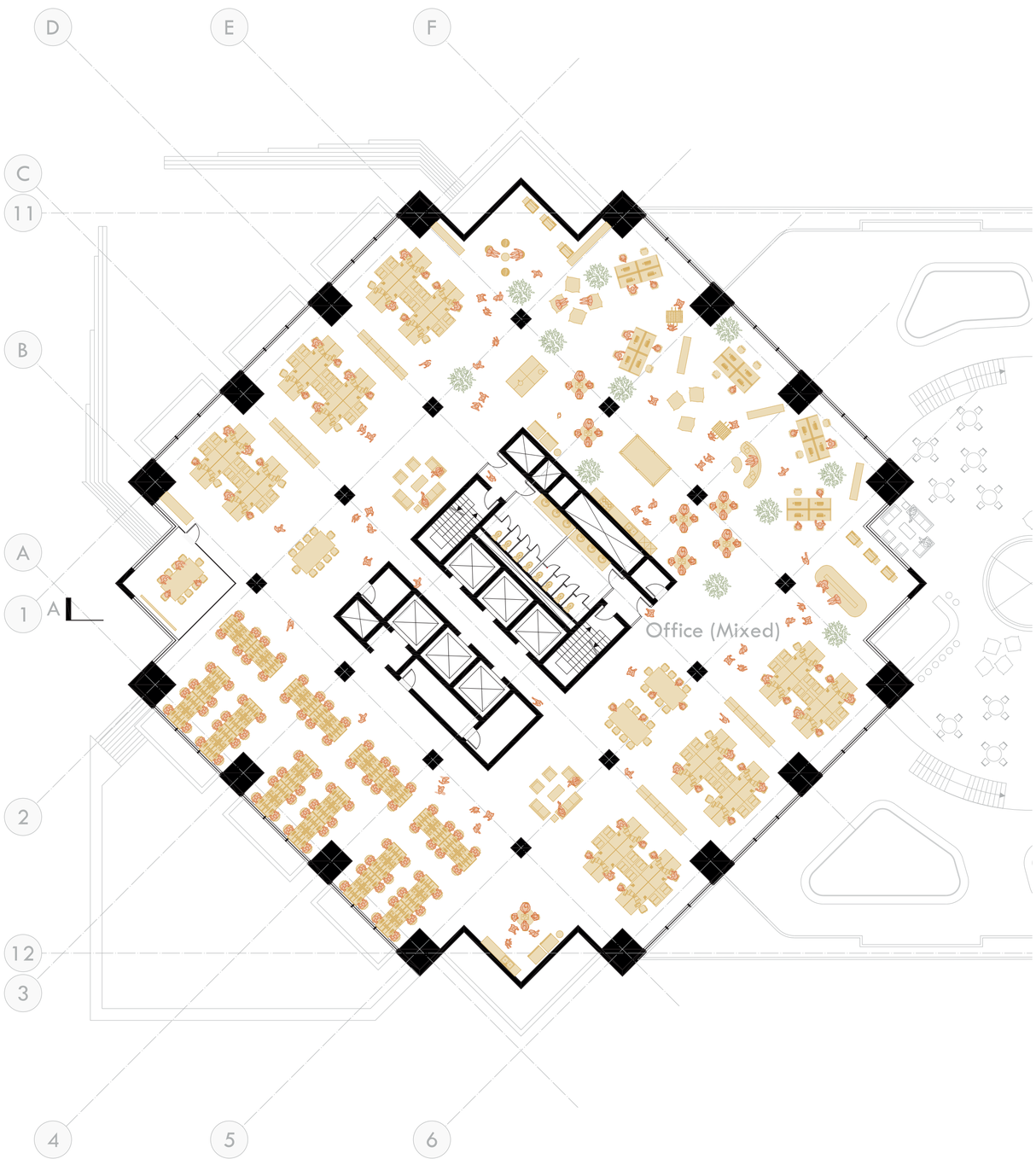

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B
4
5
6
21
22
23
Office (Mixed)
Studio rooms
Playcube
Reception area
Studio rooms

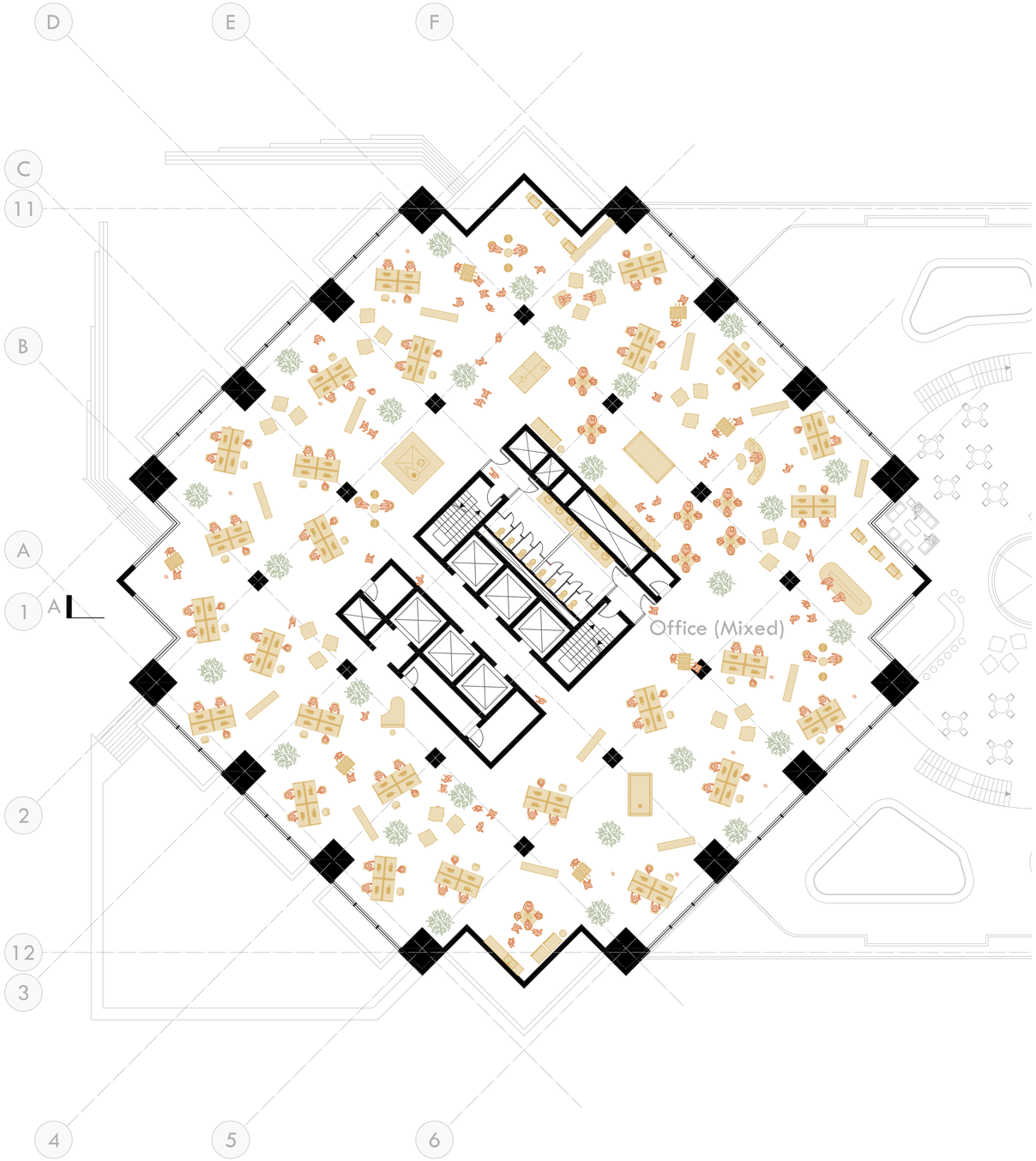

D
E
F
U
V
W
C
11
X
B
Y
A
Z
1
A
A'
26
2
25
12
3
24
B'
4
5
6
21
22
23
Office (Traditional)
Seated Clinic
Seated Clinic
Verily Labs
Laboratory
Incubation Lab

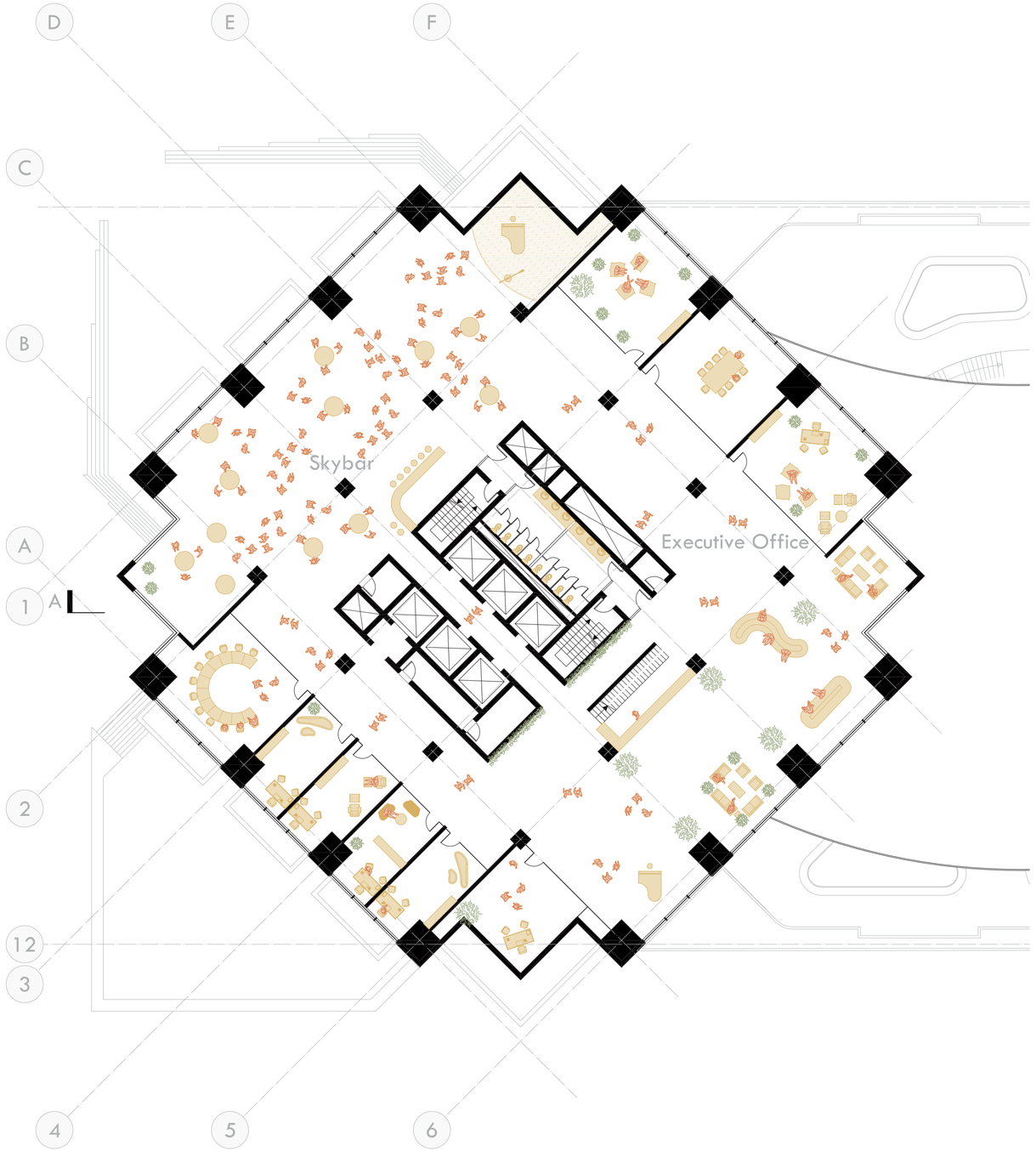

D
E
F
U
V
W
C
11
B
X
Y
A
Z
1
A
A'
26
Food Court
Discusion
with a view
2
25
12
3
24
B
B'
4
5
6
21
22
23

30th

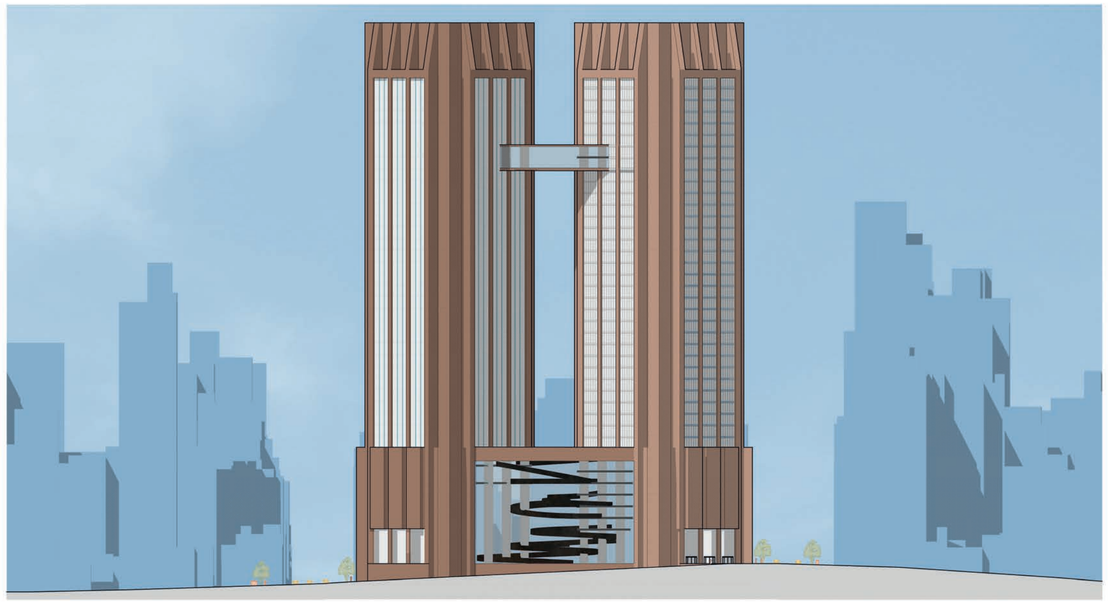

D
E
F
C
11
B
A
1
A
Office (Traditional)
2
12
3
4
5
6


D
E
F
C
11
B
A
1
A
Office (Mixed)
2
12
3
4
5
6

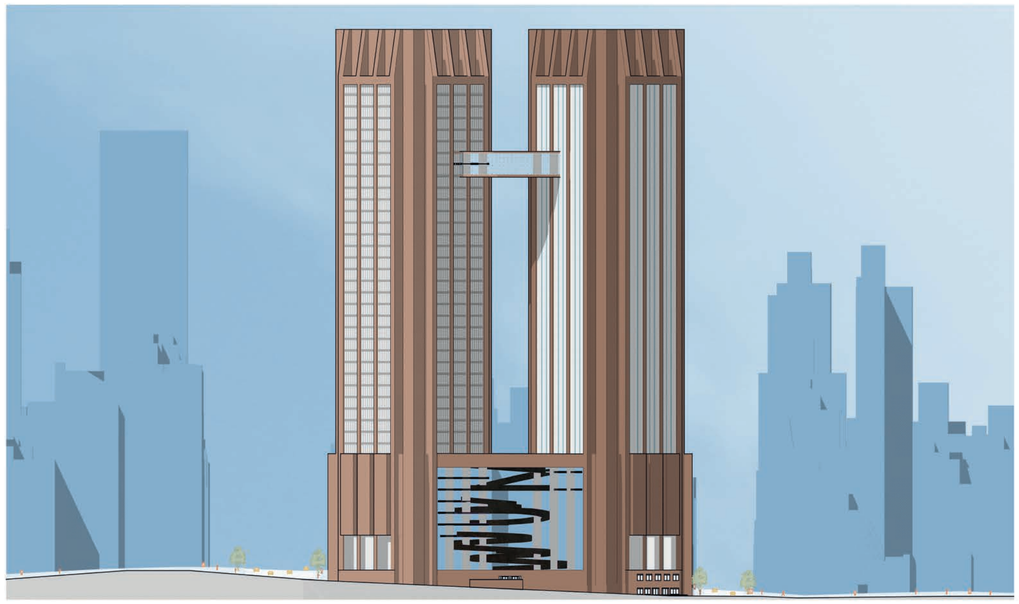

D
E
F
C
11
B
A
1
A
Office (Mixed)
2
12
3
4
5
6


D
E
F
C
B
Skybar
Executive Office
A
1
A
2
12
3
4
5
6

North Elevation



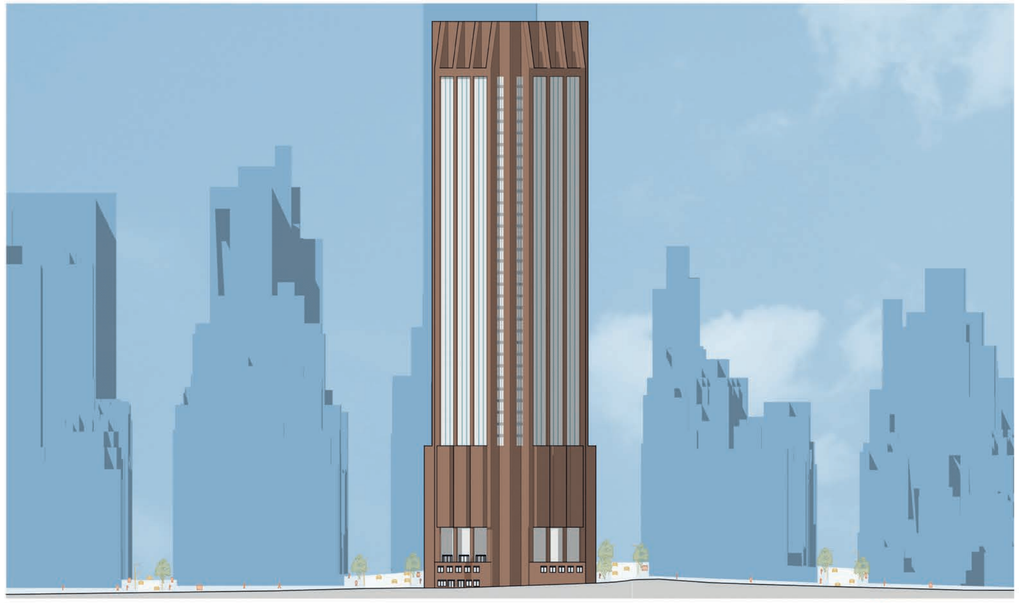
South Elevation

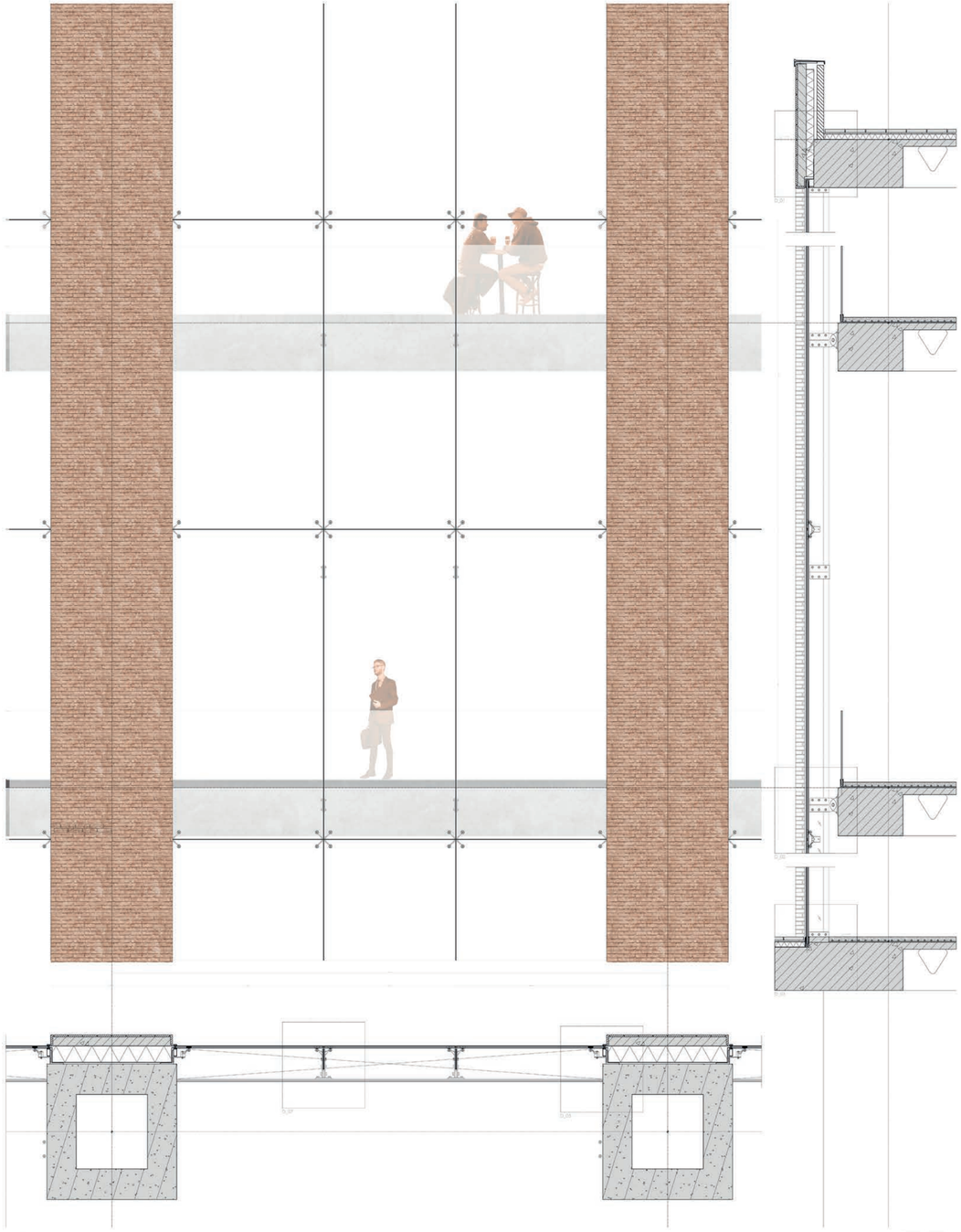


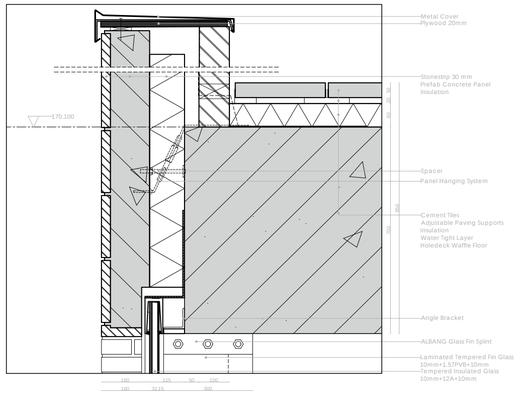
West Elevation



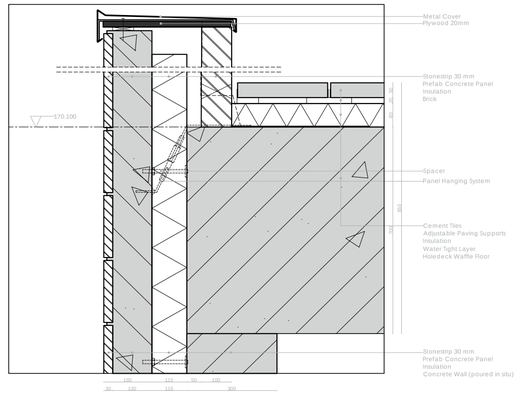
East Elevation



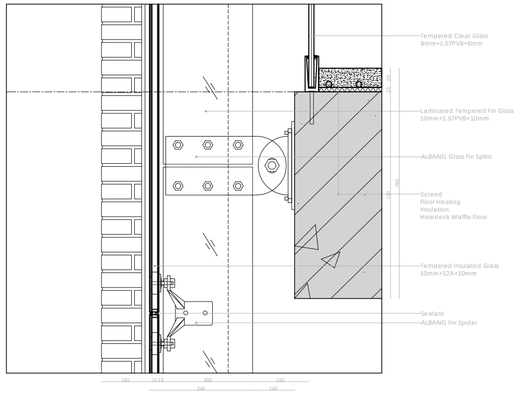




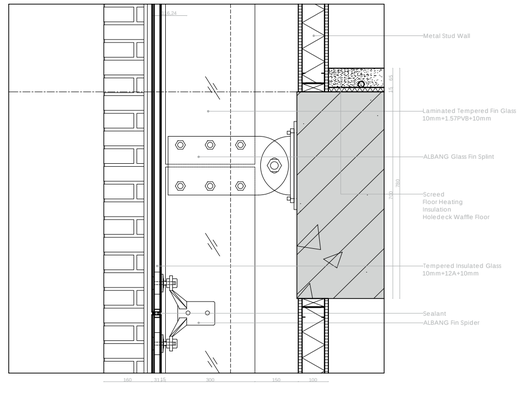
D_01_A



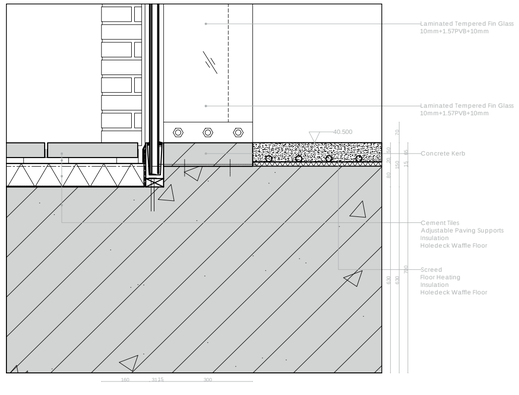
D_01_B



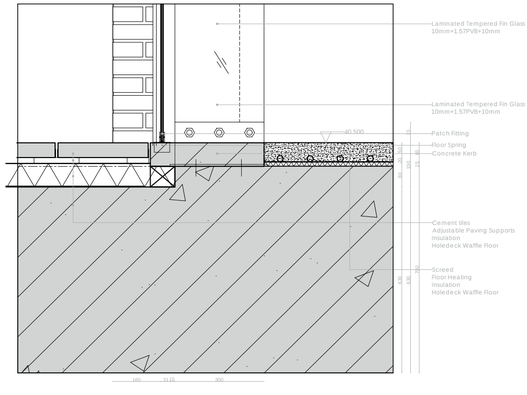
D_02_A



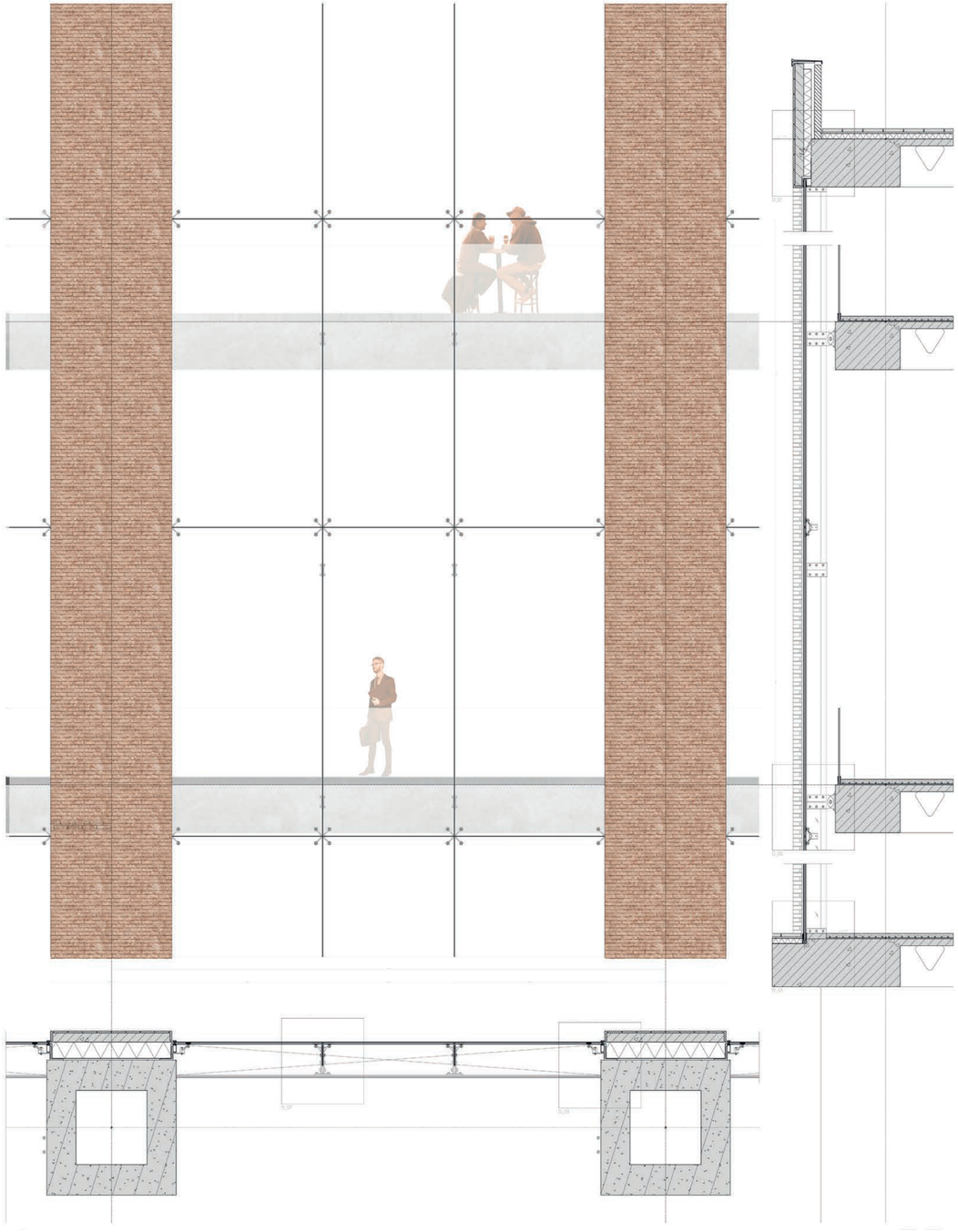
D_02_A

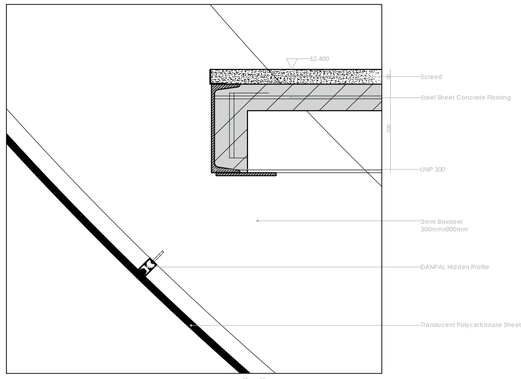


D_03_A

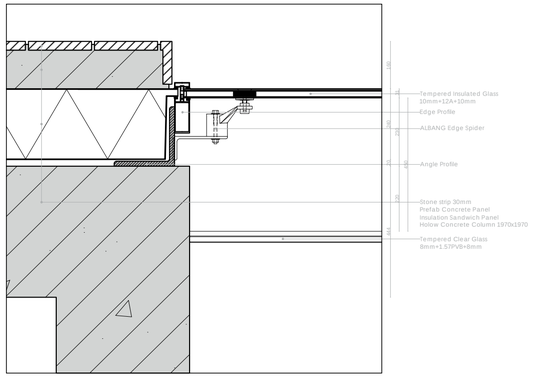


D_03_B

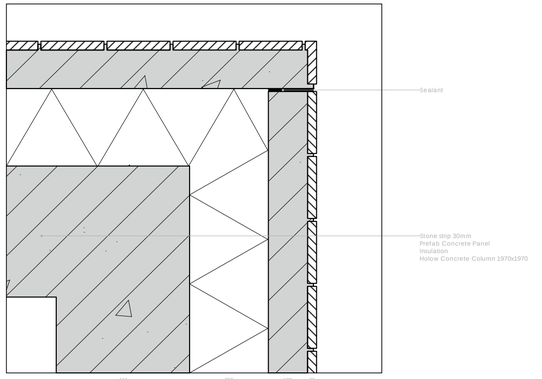




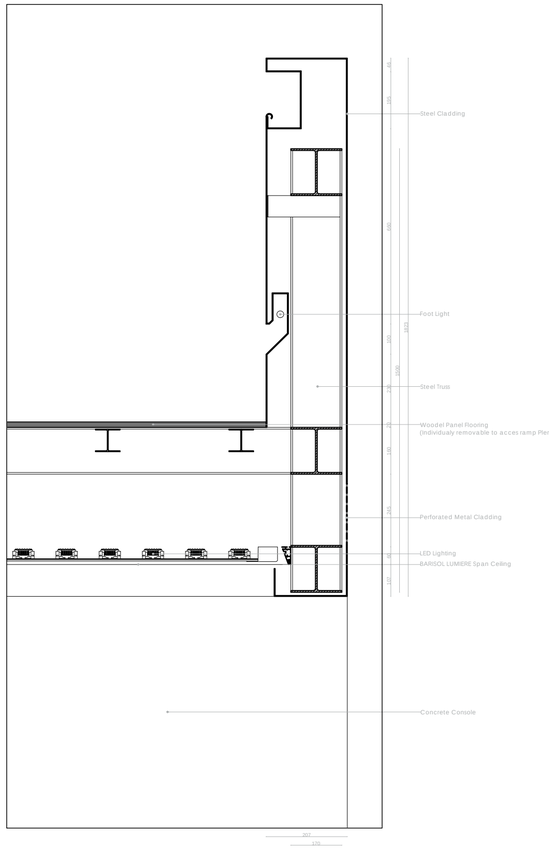
D_04



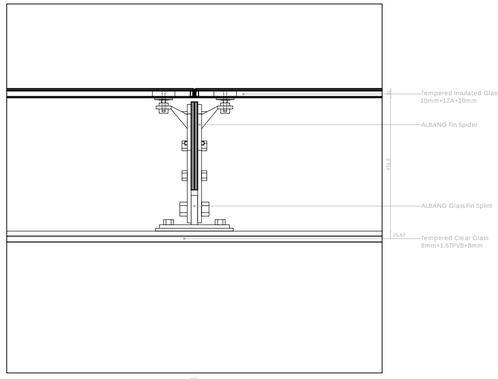
D_05_A



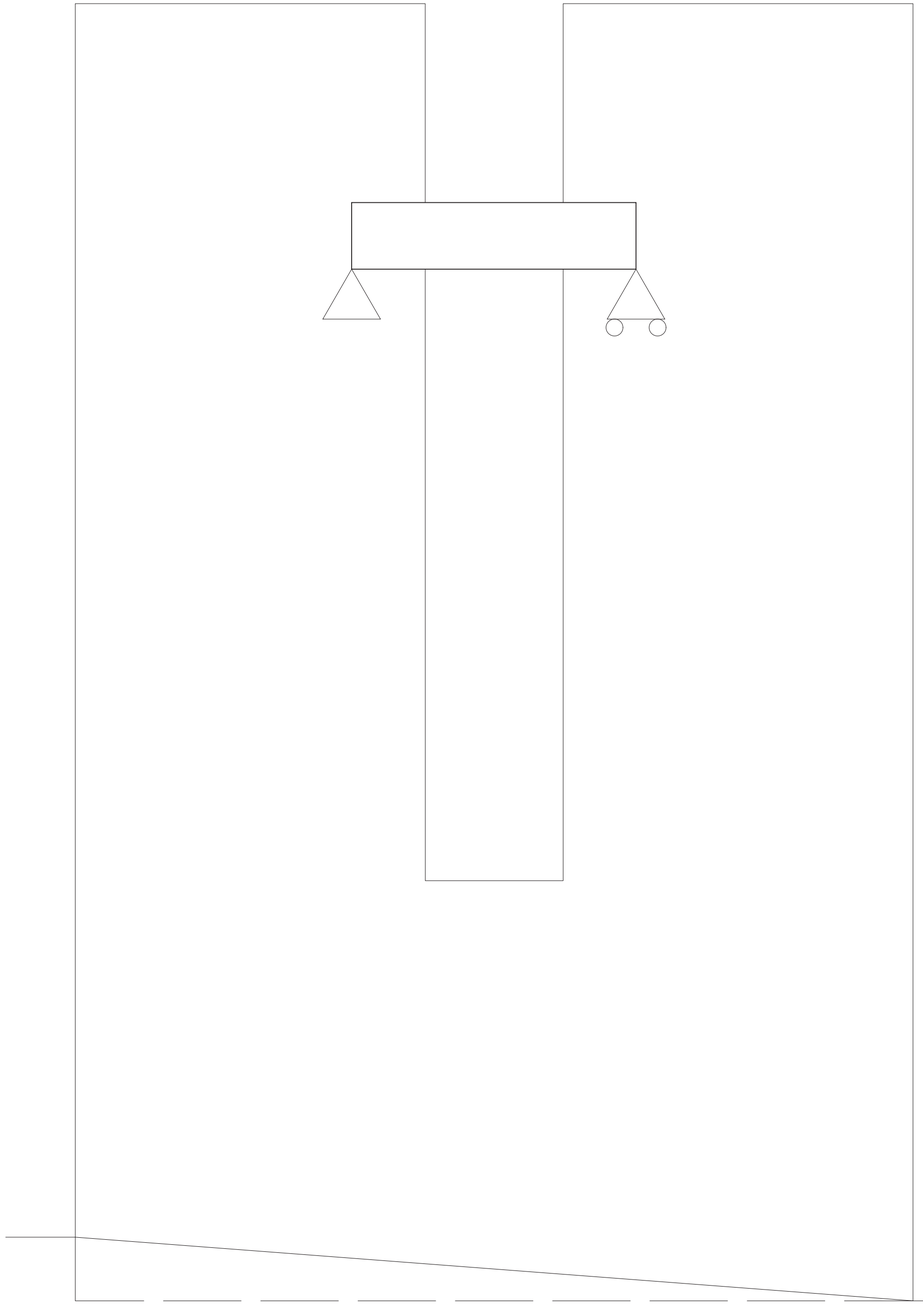
D_05_B

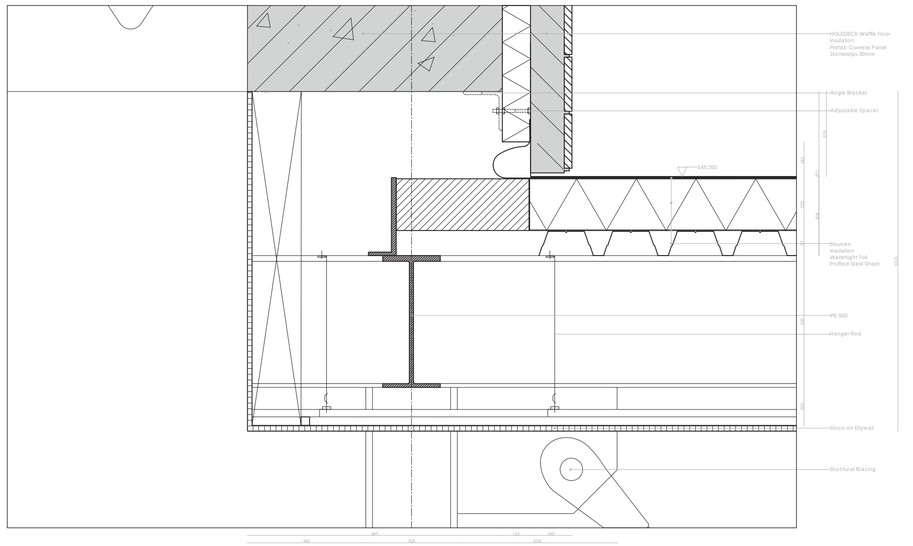


D_06

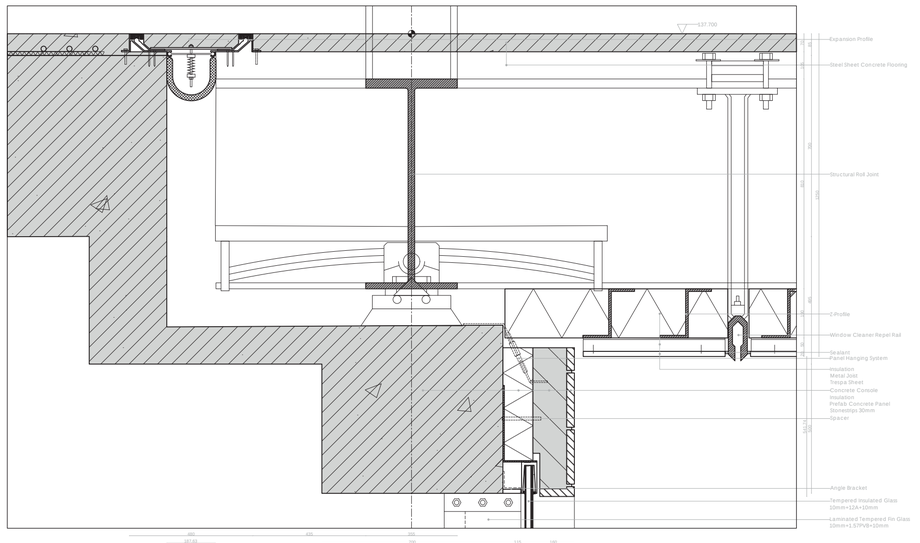


D_07

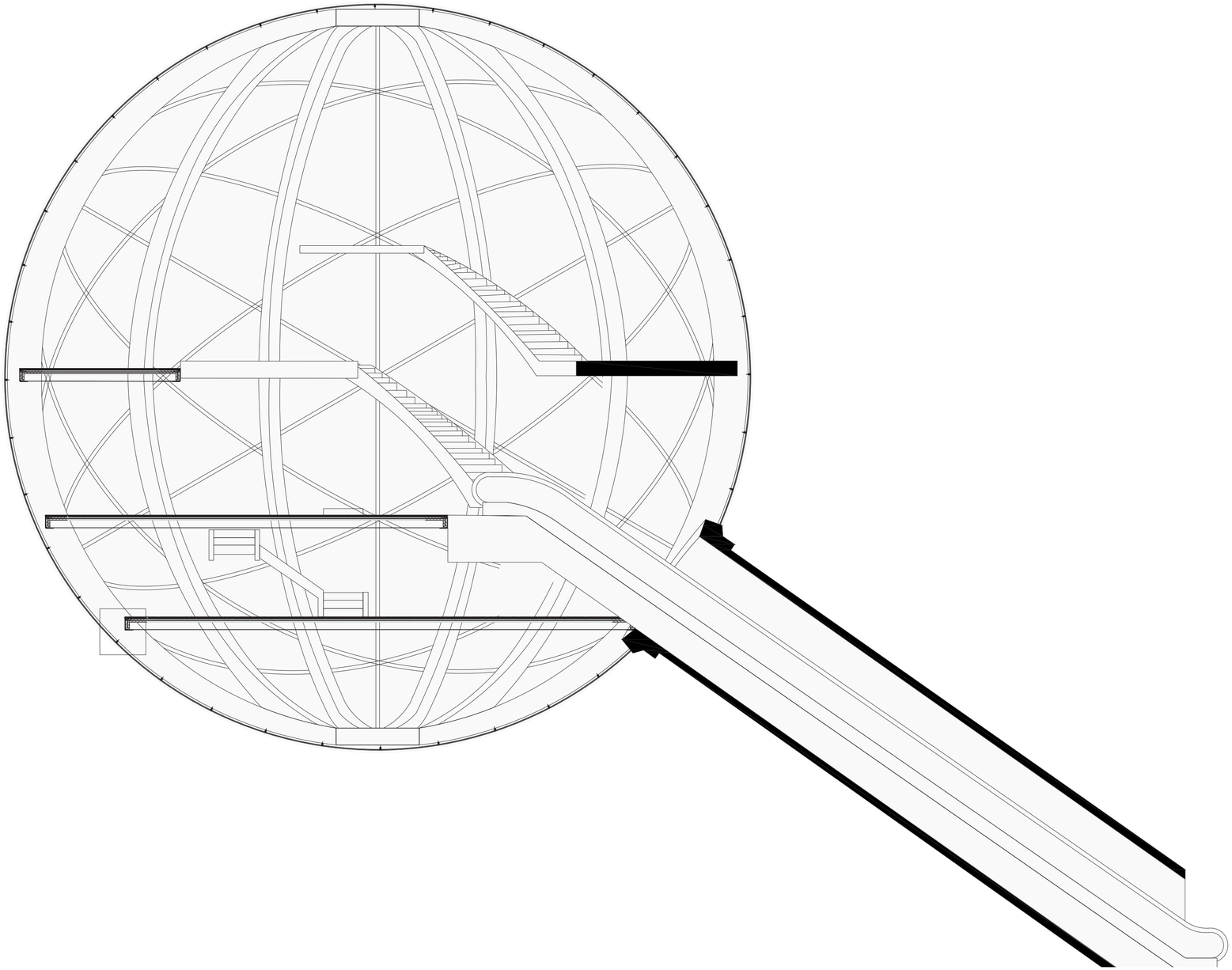


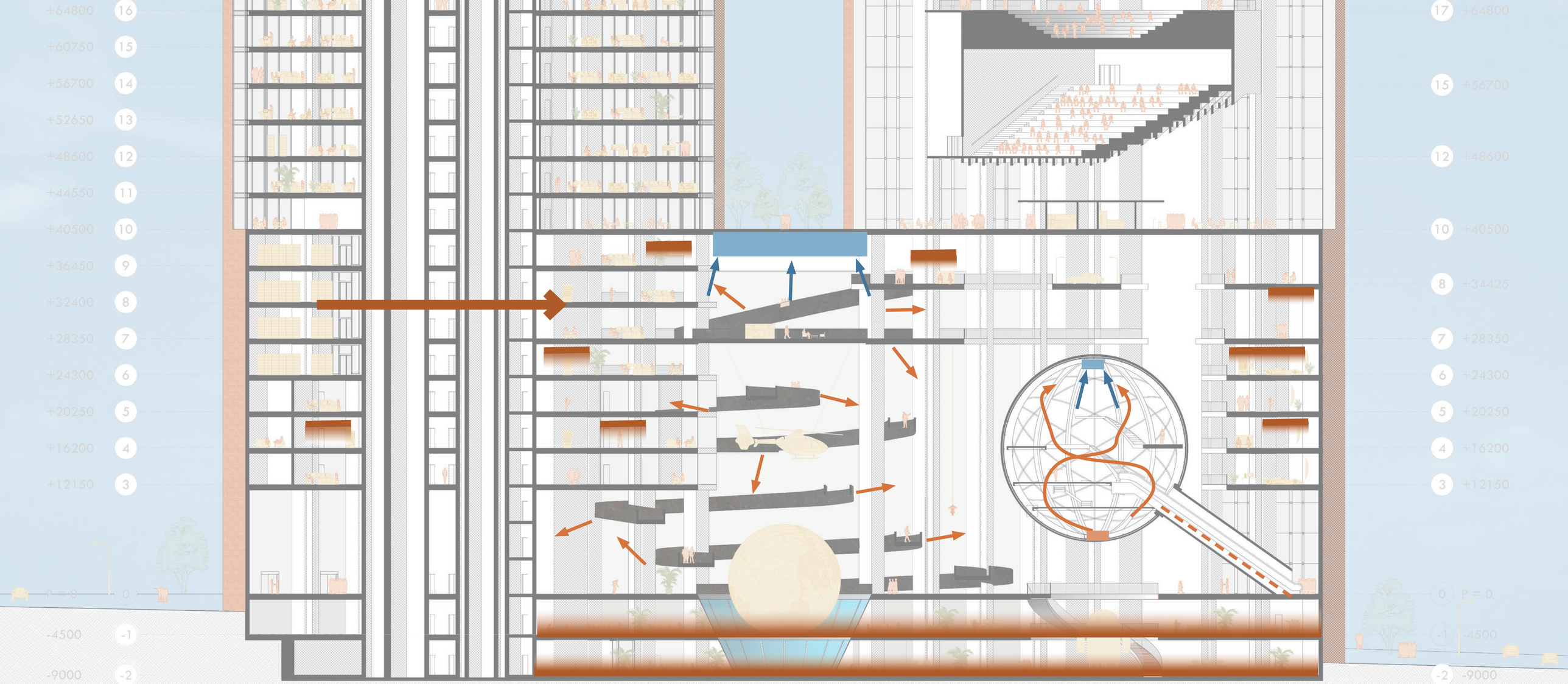

HOLEDECK Waffle Floor
Insulation
Prefab Concrete Panel
Stonestrips 30mm
Angle Bracket
Adjustable Spacer
+135.260
Bitumen
Insulation
Watertight Foil
Profiled Steel Sheet
IPE 500
Hanger Rod
Stuco on Drywall
Structural Bracing

D_08


+137.700
Expansion Profile
Steel Sheet Concrete Flooring
Structural Roll Joint
Z-Profile
Window Cleaner Rope Rail
Gasket
Panel Hanging System
Insulation
Metal Joint
Trespa Sheet
Concrete Console
Insulation
Prefab Concrete Panel
Stonestrips 30mm
Spacer
Angle Bracket
Tempered Insulated Glass
10mm+12A+10mm
Laminated Tempered Fin Glass
10mm+1.5?PVB+10mm

D_09




+64800
16
+60750
15
+56700
14
+52650
13
+48600
12
+44550
11
+40500
10
+36450
9
+32400
8
+28350
7
+24300
6
+20250
5
+16200
4
+12150
3
0 = 0
0
-4500
-1
-9000
-2
17
+64800
15
+56700
12
+48600
10
+40500
8
+34425
7
+28350
6
+24300
5
+20250
4
+16200
3
+12150
0
P = 0
-1
-4500
-2
-9000