

P5 Presentation

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Methods and Analysis Msc3: Positions in Practice, Bogota
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THE CURTAINS:

on the private-public street boundary



CONTENTS

- 01** Fascination: A Two-fold Discovery at Boundary Walls
- 02** Reviewing Parameters of A 'Wall'
- 03** Intervention: An Urban Curtain
- 04** Reflection: The 'Wand-ness' of Wall

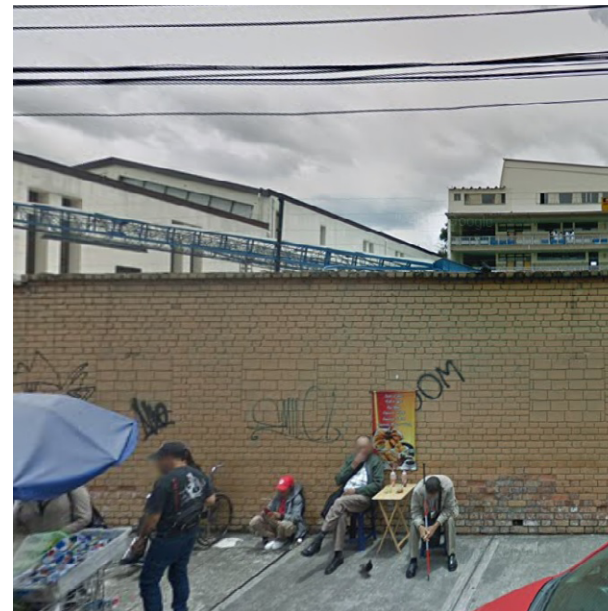
01

**A TWO-FOLD DISCOVERY
AT BOUNDARY WALLS**

A TWO-FOLD DISCOVERY AT BOUNDARY WALLS

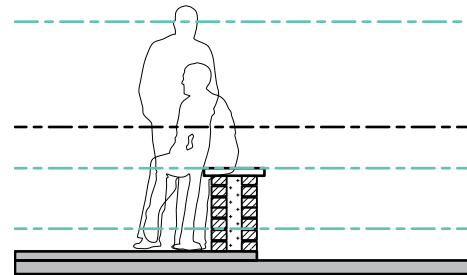
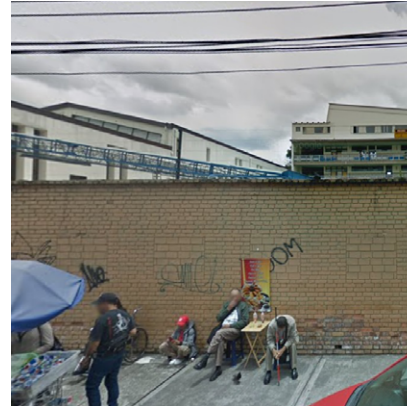
- physical description -

It is a single-layer brick wall, 3m in height, constructed in common bond. It is completely solid in order to block visibility into the college area. It serves to define the territory of the school parking lot. On top of the brick wall, extra wired fence is installed to provide extra security, as the street is often parked with many trucks and cars.



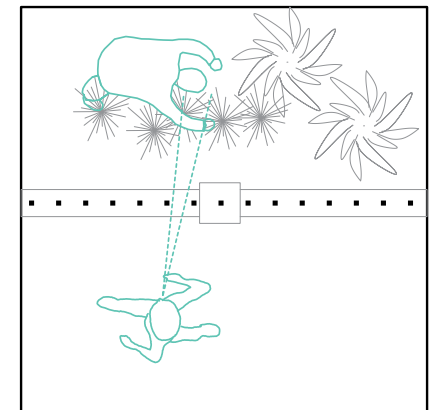
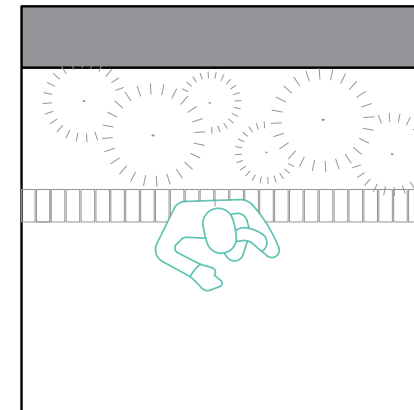
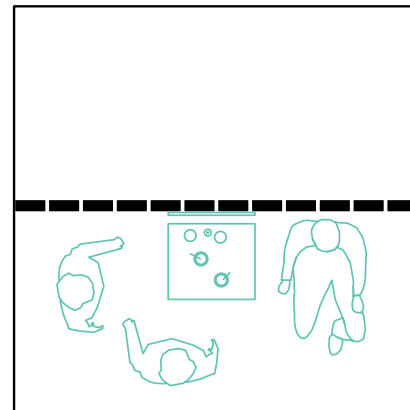
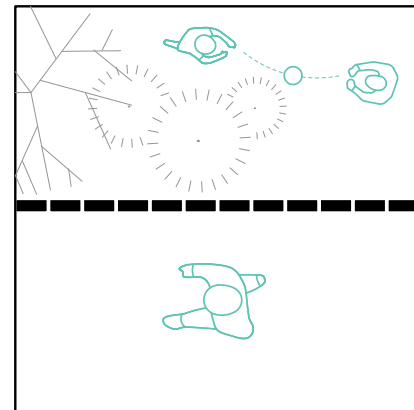
- personal experience -

Without murals covering the wall, it makes me confused whether the area behind it still belongs to the school. Perhaps without murals, it is covered with scattered graffiti, and even hooks installed on it to hang advertising posters. With the poster, it became a backdrop for an outdoor cafe for the street vendor, who sells empanadas across the street.

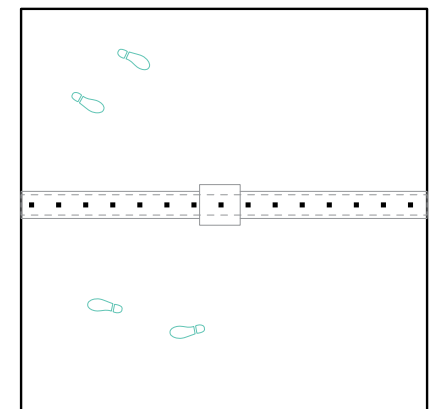
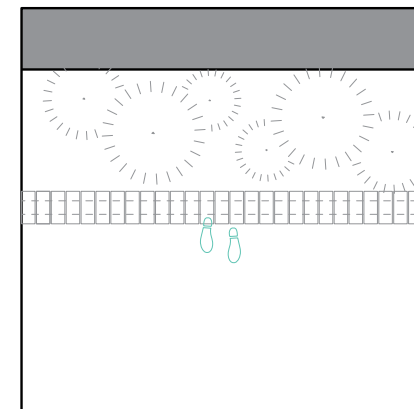
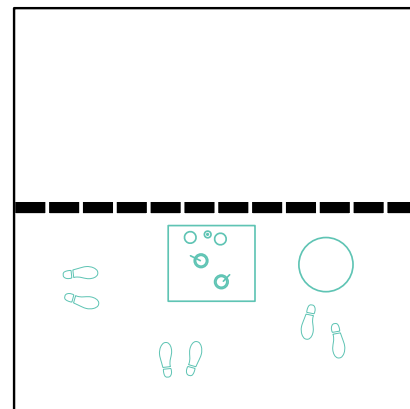
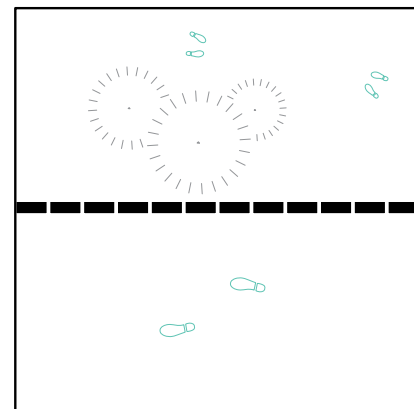


compared to normal
plan cut at 1.2m,
cutting plan at
specific levels relative
to human-scale

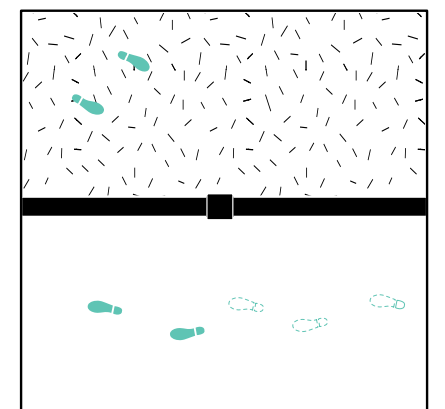
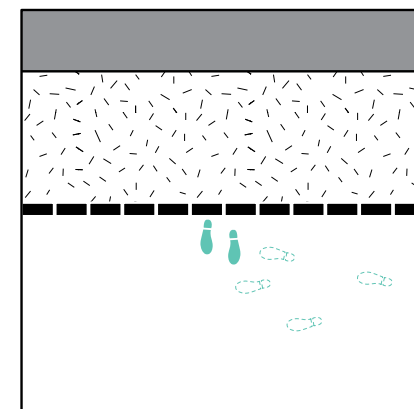
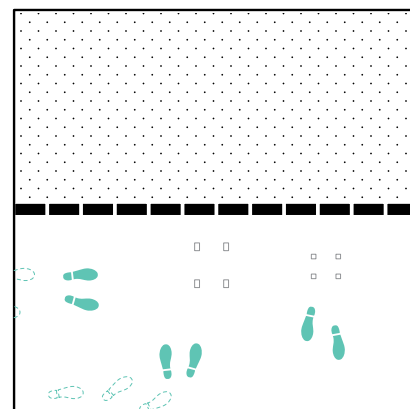
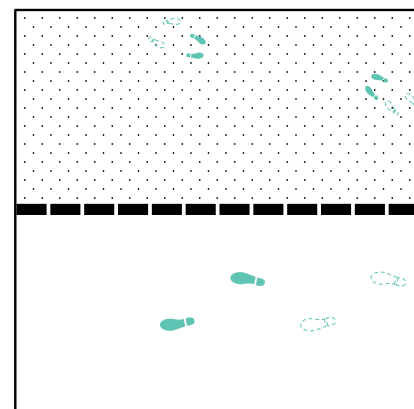
eye-level



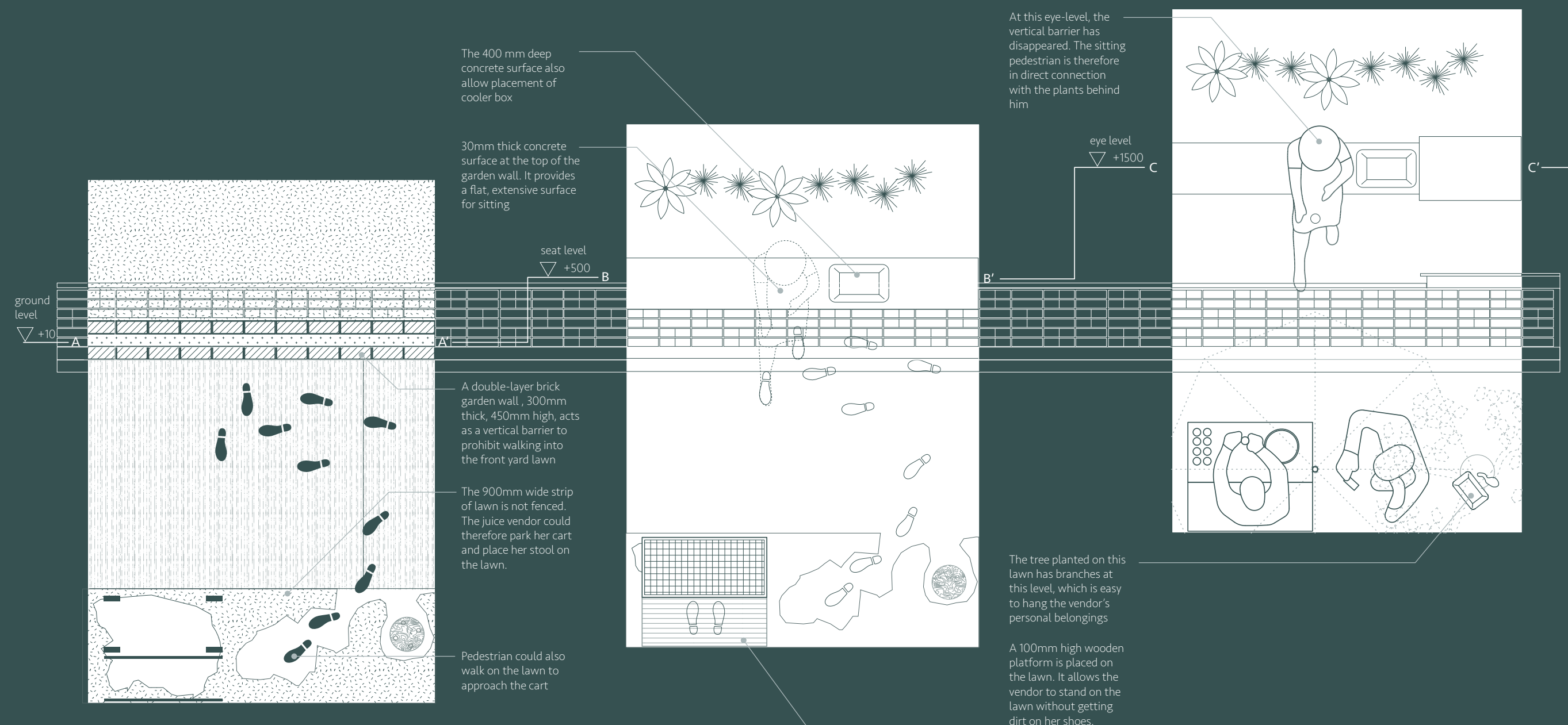
seat-level



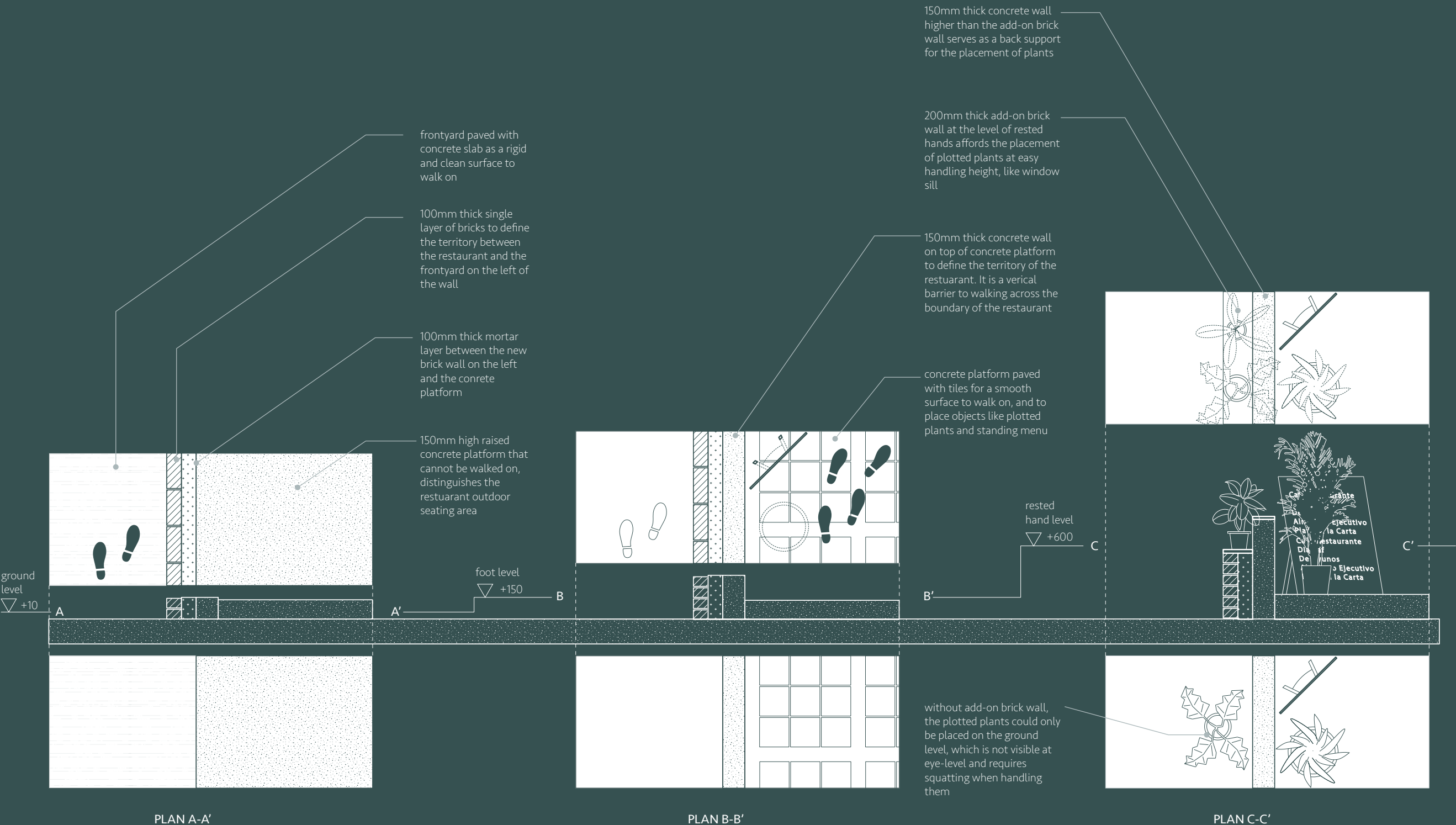
foot-level



SHORT GARDEN WALL AND THE JUICE VENDOR



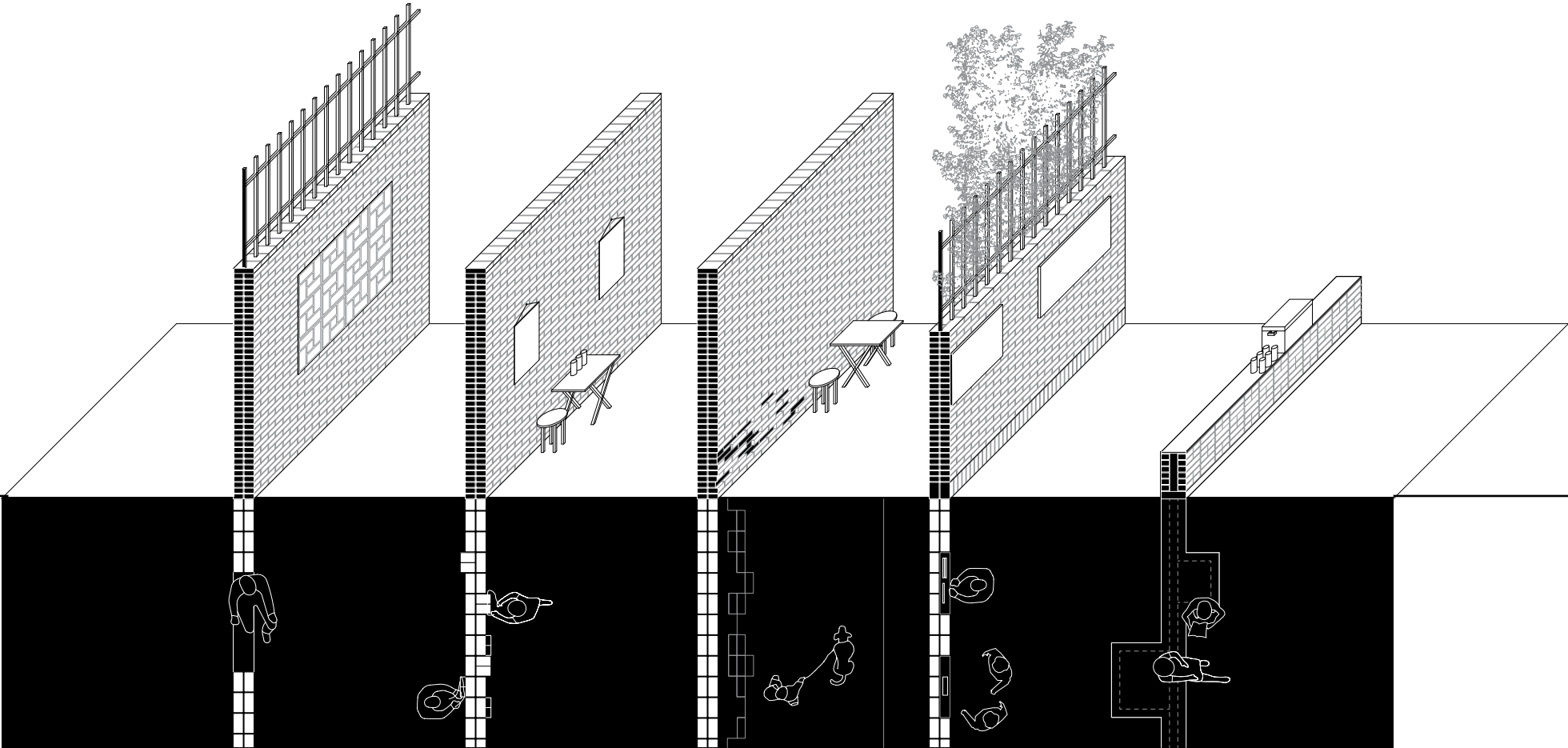
TWO ADJACENT SHORT WALLS AS A SILL



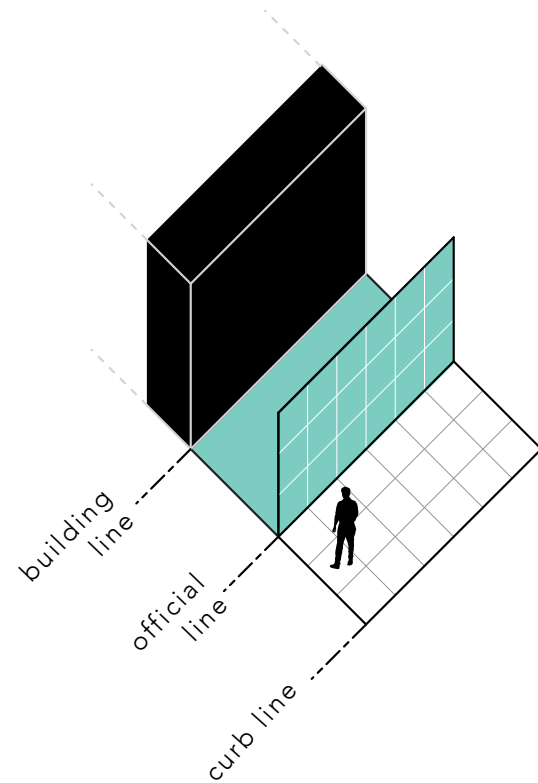
A TWO-FOLD DISCOVERY AT BOUNDARY WALLS

existing
solid masonry
boundary walls

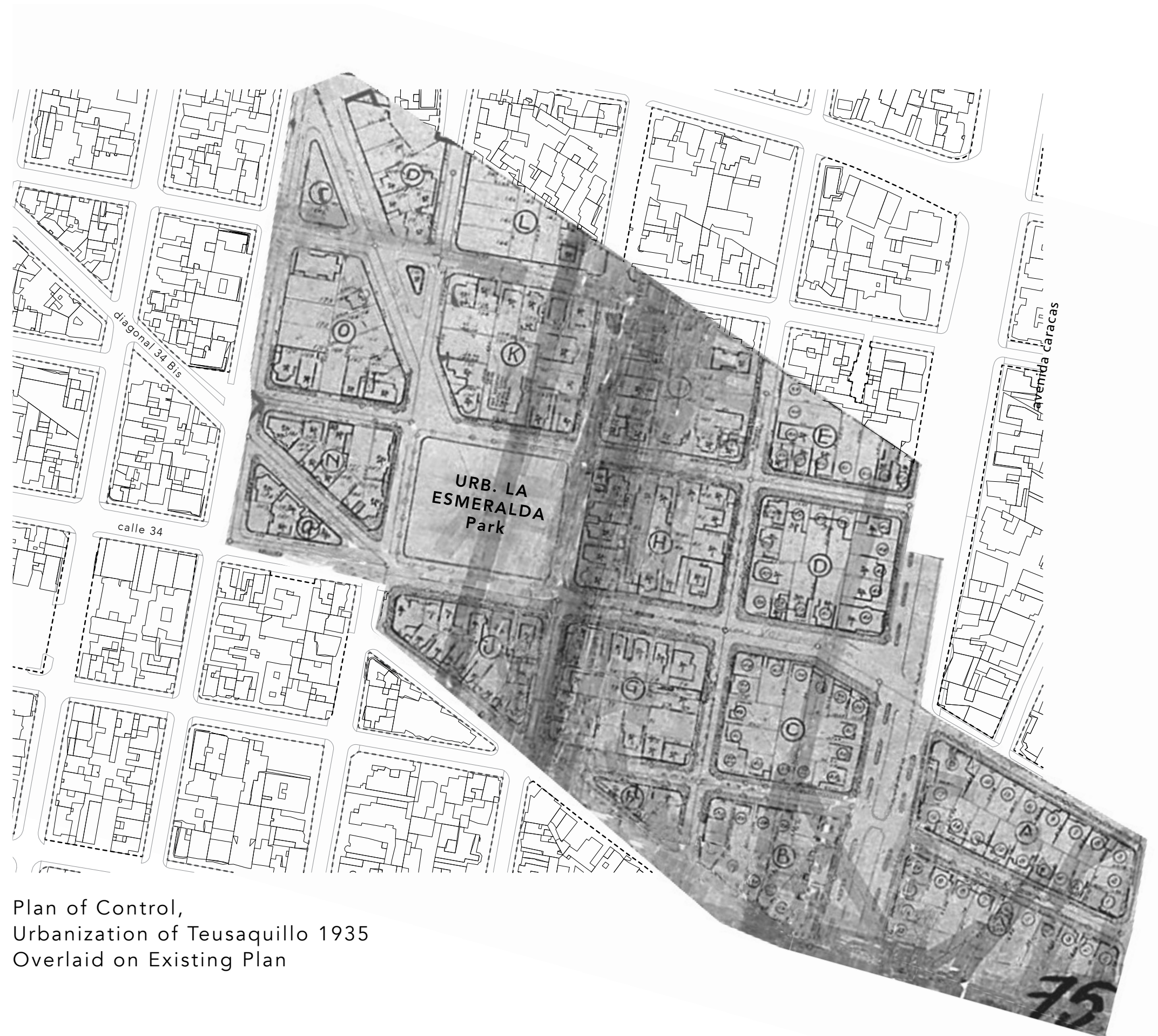
latent
potentials
that activates
street life



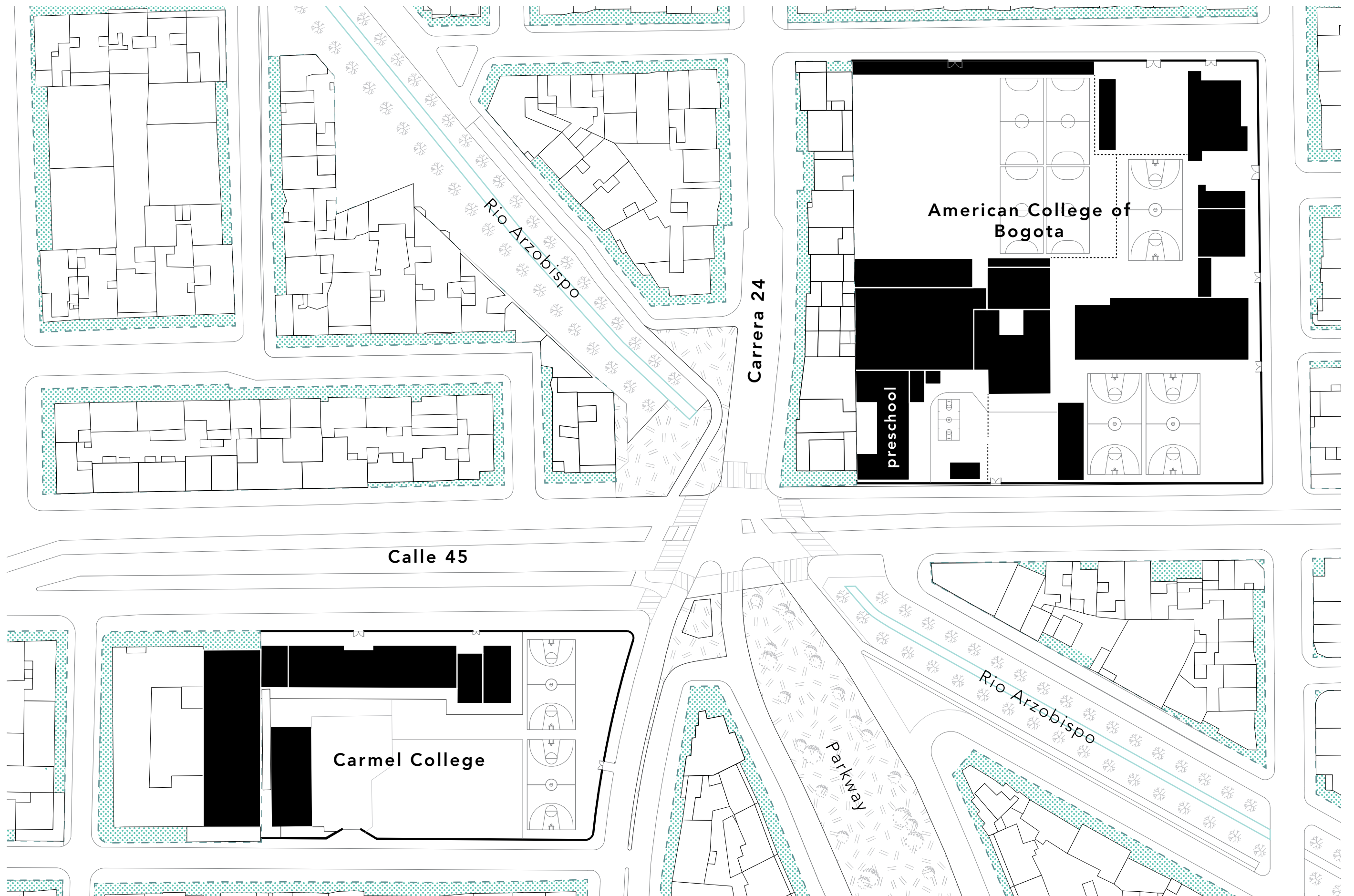
STREET PLANNING IN TEUSAQUILLO



frontyard (antejardin)
a 3-meter setback which is
constructed by the private
sector, but belongs to the
public realm



Plan of Control,
Urbanization of Teusaquillo 1935
Overlaid on Existing Plan



frontyard



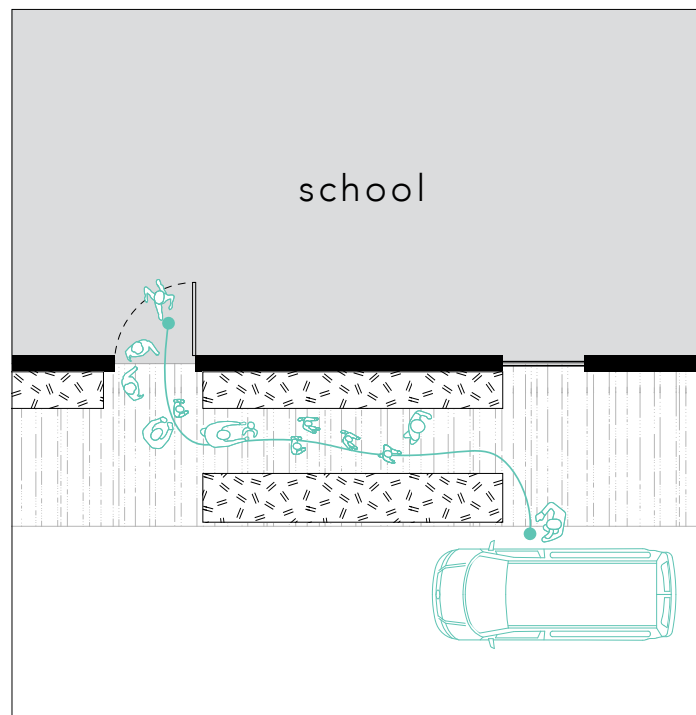
school abuilding



park/ open space

0 5 10 20 50m

JOURNEY OF A SCHOOLKID



Recording their route from the inside of the
boundary wall to the schoolbus.

WHAT TO BE WALLED OUT?



The Importance of School Environment for Living in Bogota
Bogota Como Vamos (2017)

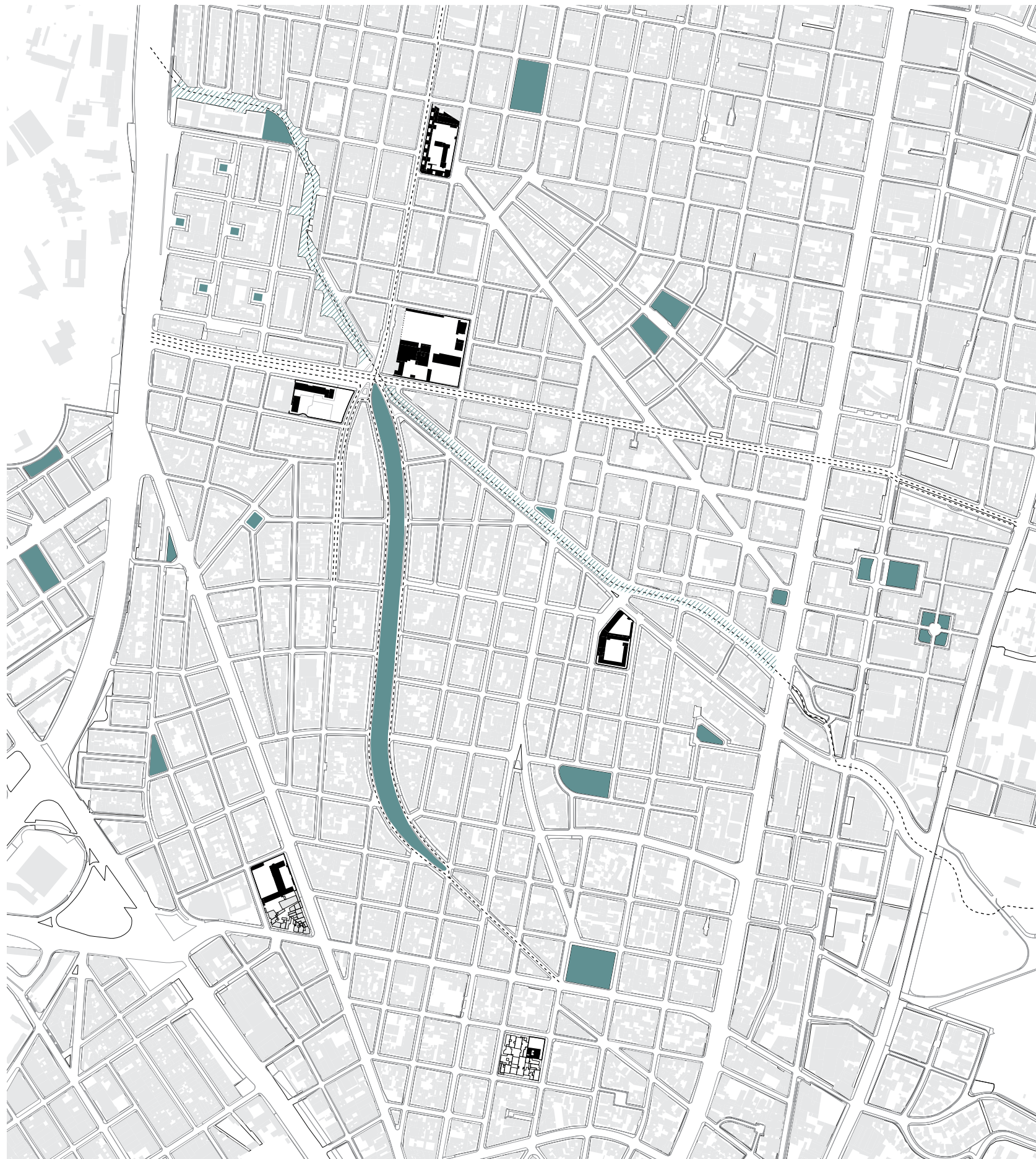


Scheme of strengthening security in 40 prioritized schools in Bogota in 2017.

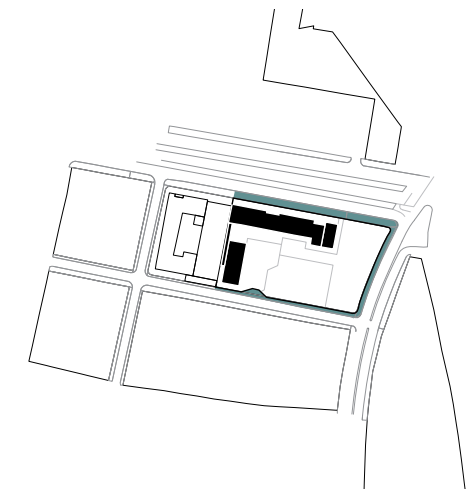


Drawing by student

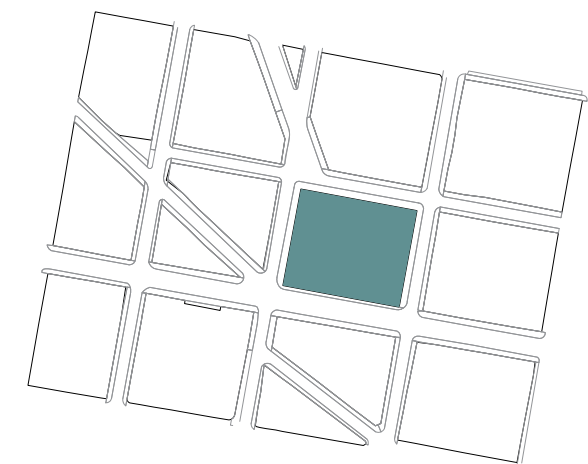
BICKERING
THEFT
ROBBERY
DRUG SALE
ROAD INCIDENTS
...



■ walled schools ■ parks --- major roads



street around the school boundary



a park

RESEARCH QUESTION

How could these boundary walls communicate an equivocal definition of street that embraces multiplicity?

Furthermore, how do these walls contribute as part of public realm, to facilitate an interactive community between school and the neighbourhood?

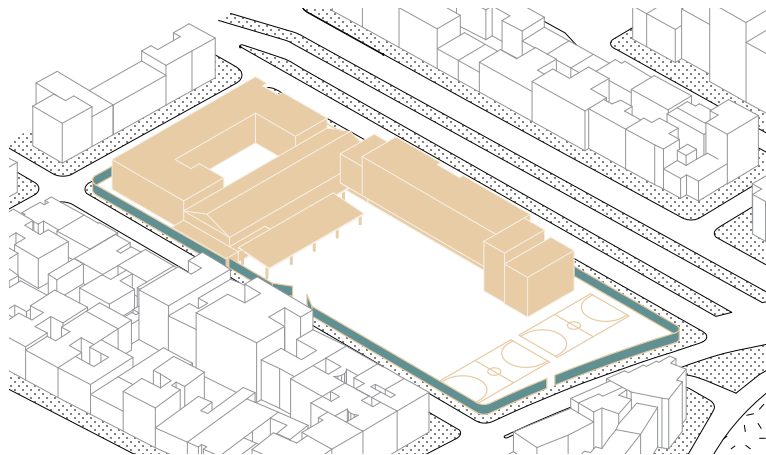


02 **REVIEWING PARAMETERS OF A 'WALL'**

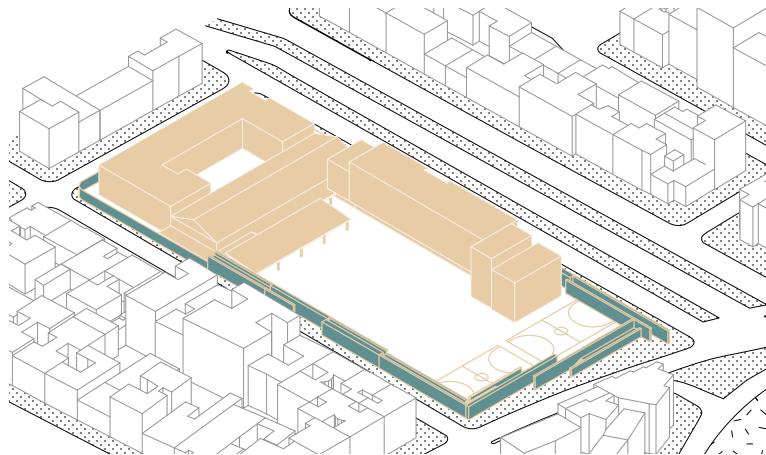
METHOD OF DESIGN AND RESEARCH

Parallel process of design and research on:
two parameters of the 'wall'

DESIGN



Existing Solid Wall

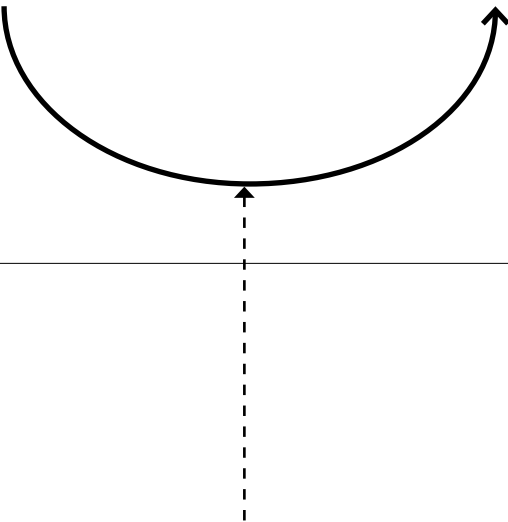


Thickened Solid Wall

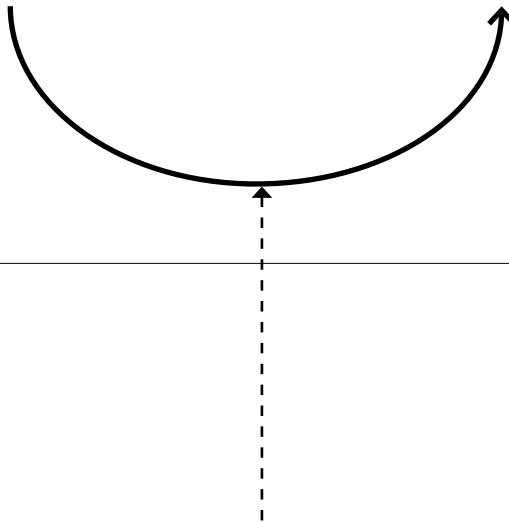


architectural
intervention

RESEARCH



1. Thickness



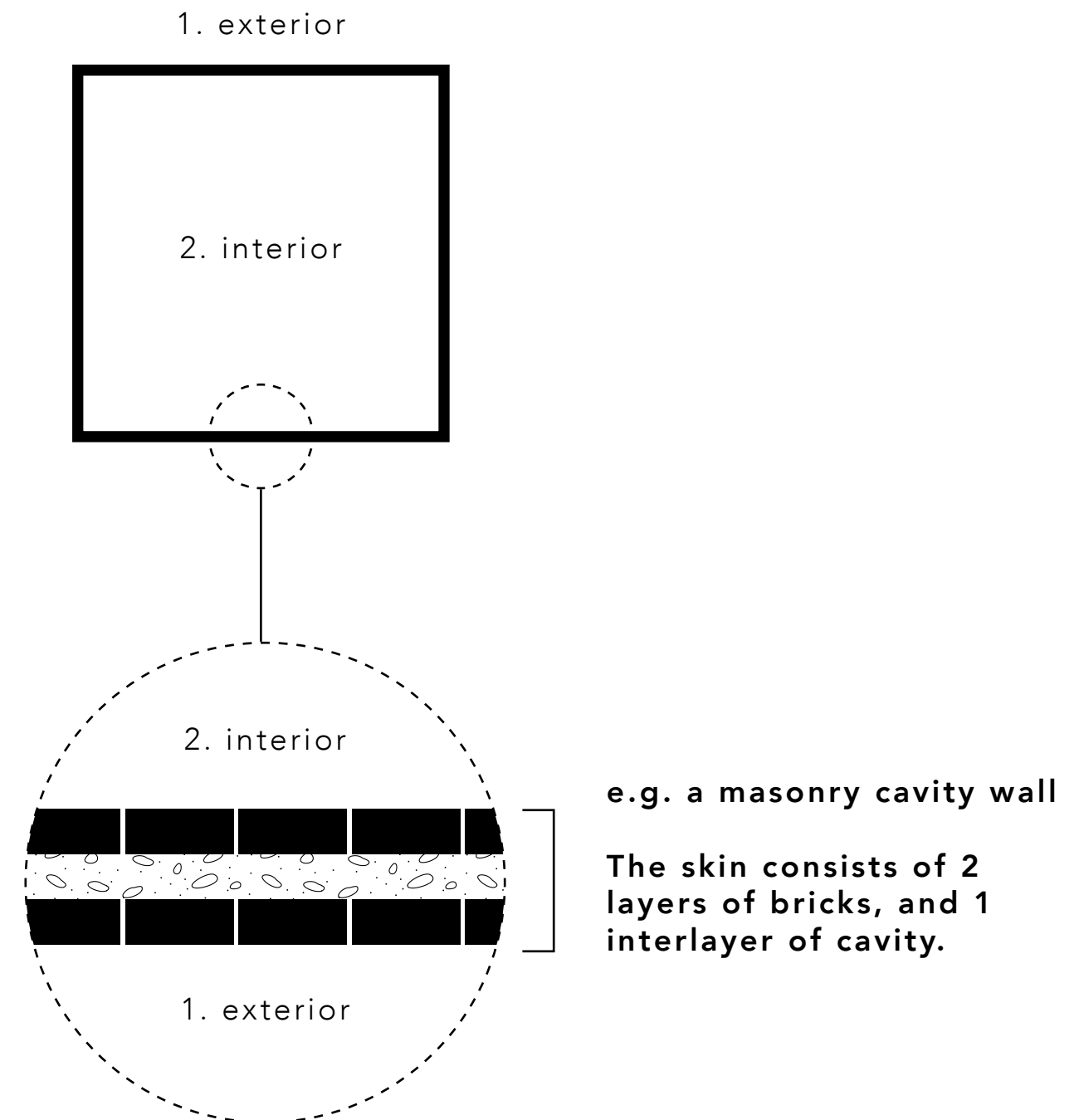
2. Performance

1. THICKNESS

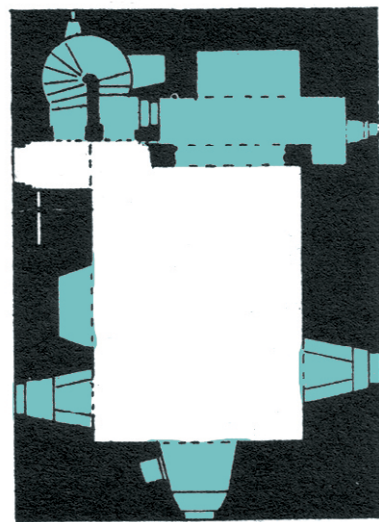
'Body of the building has a crust, a zone where inside and outside meet, a zone of contradiction. This is where qualities of experience tip over into each other or out of each other, it especially is a fixed point of our experience of space. This zone might be called the 'conversational zone' of the architectonic language, in which the demands of environment are accepted or rejected...'

Wolfgang Meisenheimer
(German Architect)

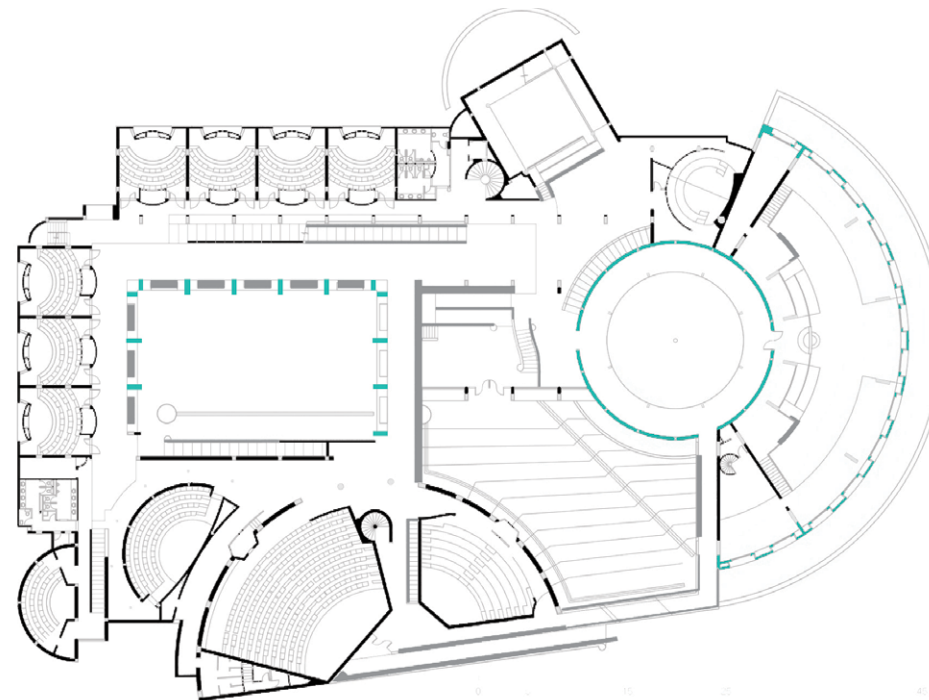
'Of the Hollow Spaces in the Skin of the Architectural Body'
from Daidalos: Berlin Architectural Journal 13/84



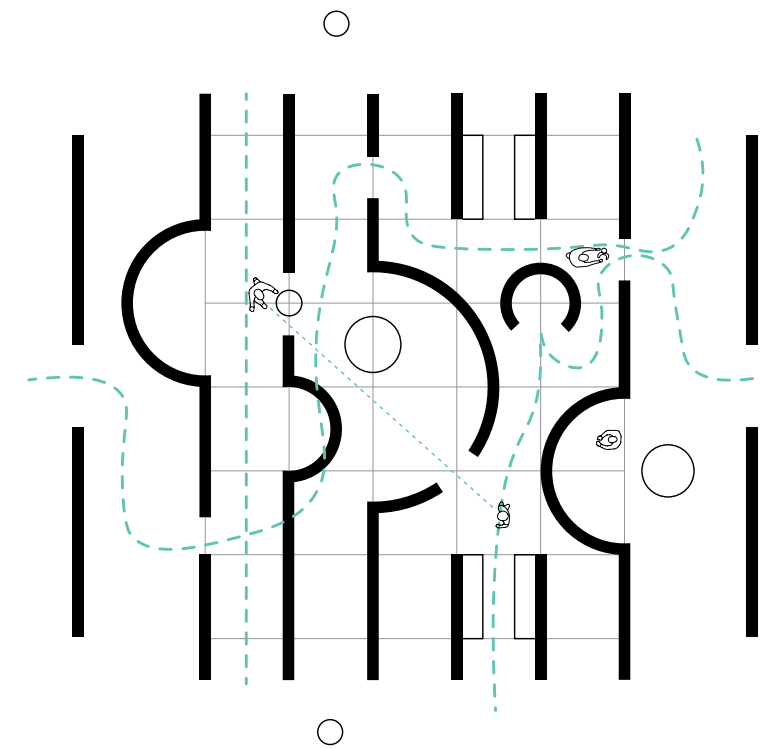
Crafting capacity in the 'thickness' of wall



Scottish castle
16th century



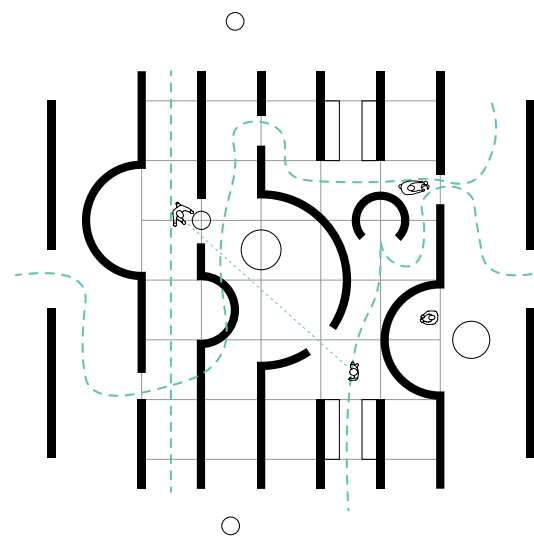
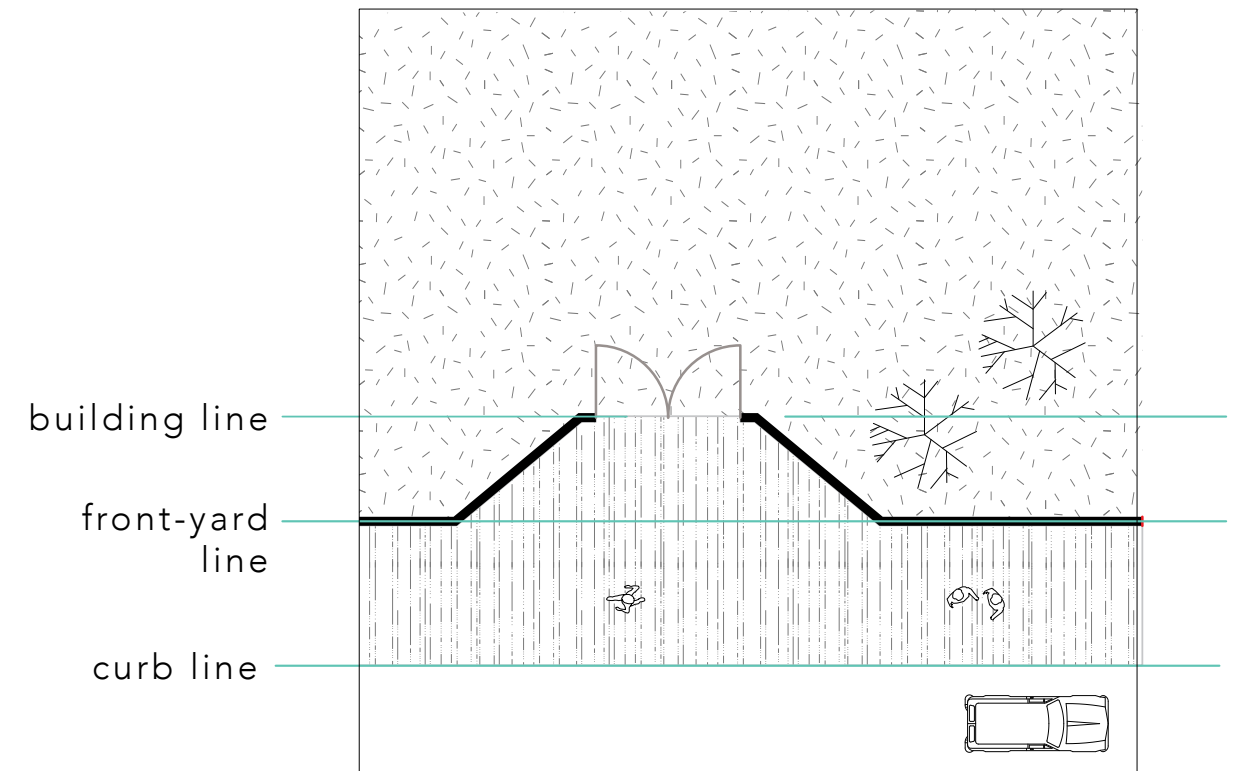
Postgraduate Building for the Human
Sciences Faculty
Rogelio Salmons, 2000



Sonsbeek Pavilion,
Aldo van Eyck, 1966

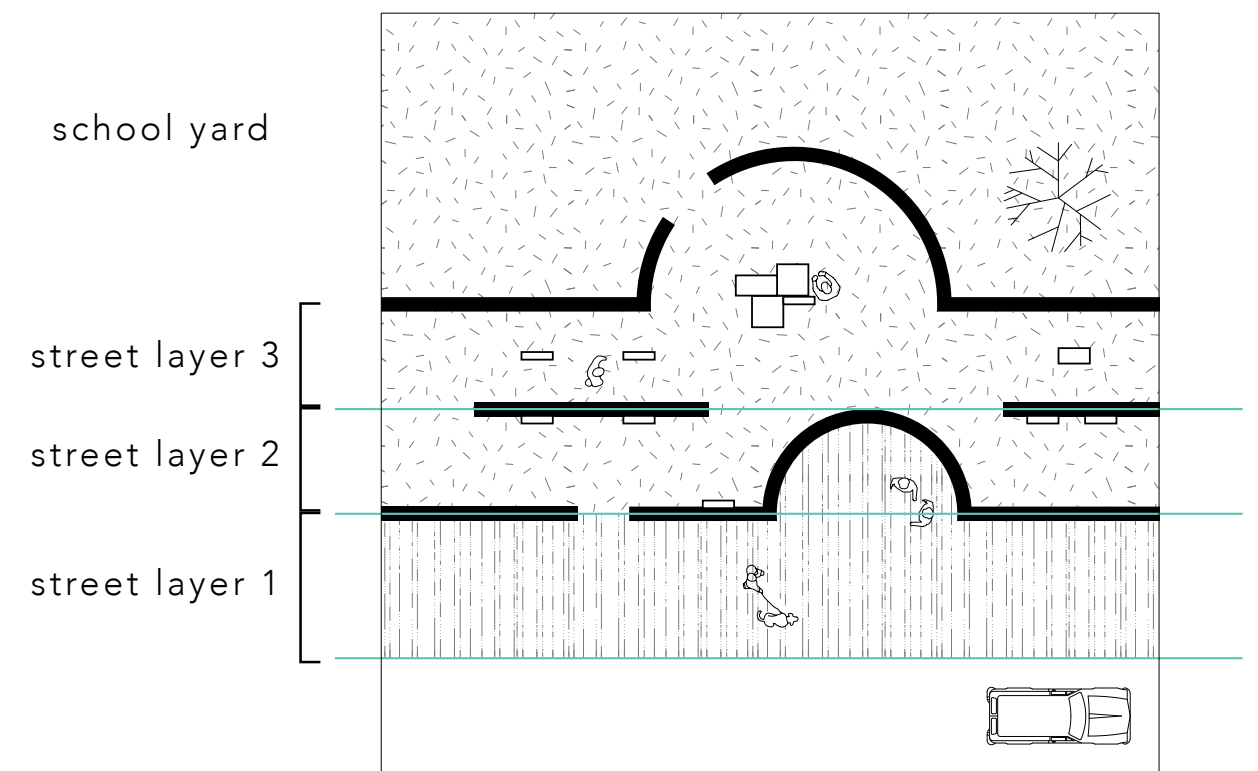


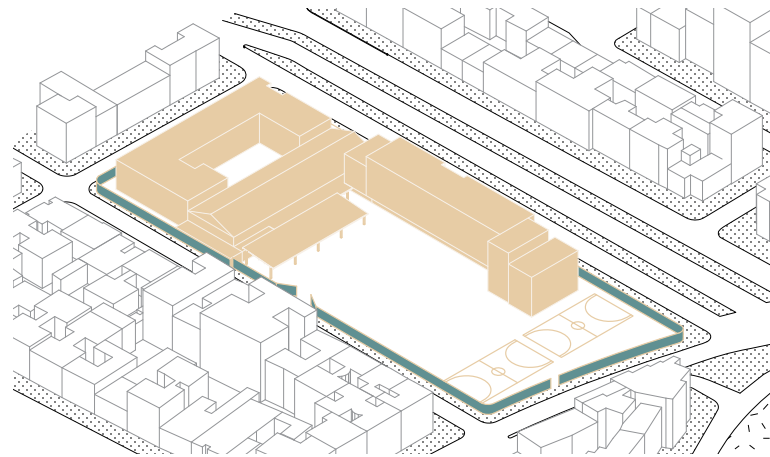
Existing school gate



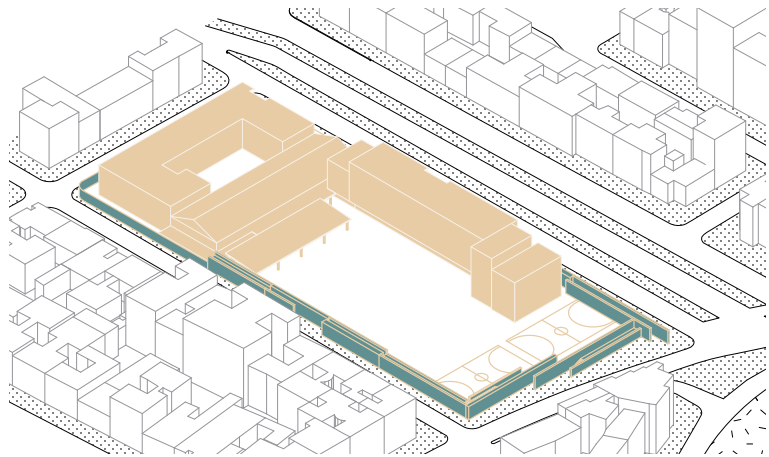
Sonsbeek Pavilion
Aldo van Eyck

Multiplying walls to blur the public-private boundary, which provides a transition zone for schoolkids before they exit the school





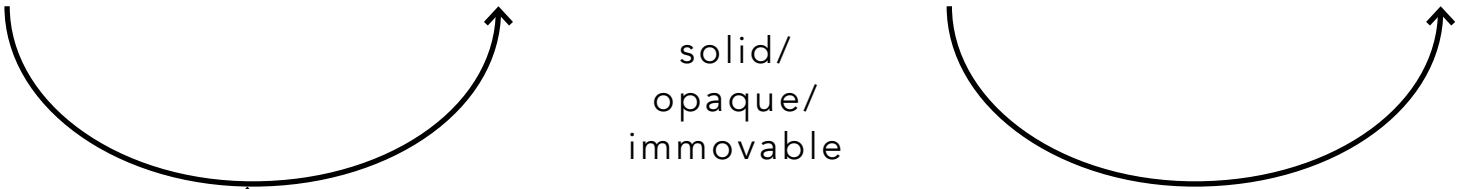
Existing Solid Wall



Thickened Solid Wall

?

Could a wall perform more than these dimensions?

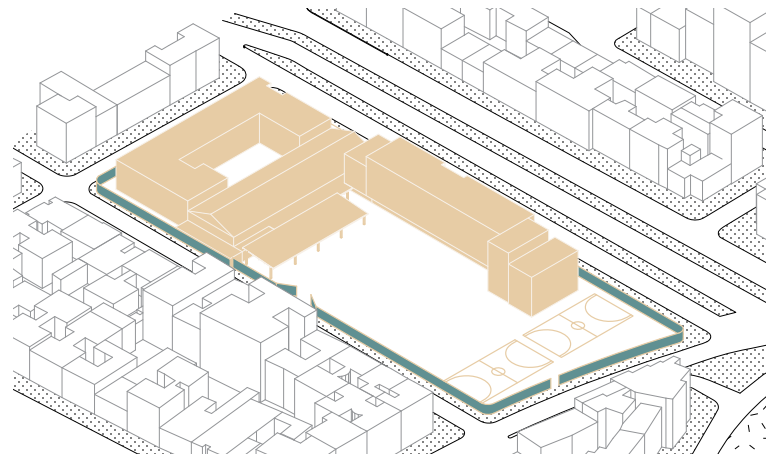


solid/
opaque/
immovable

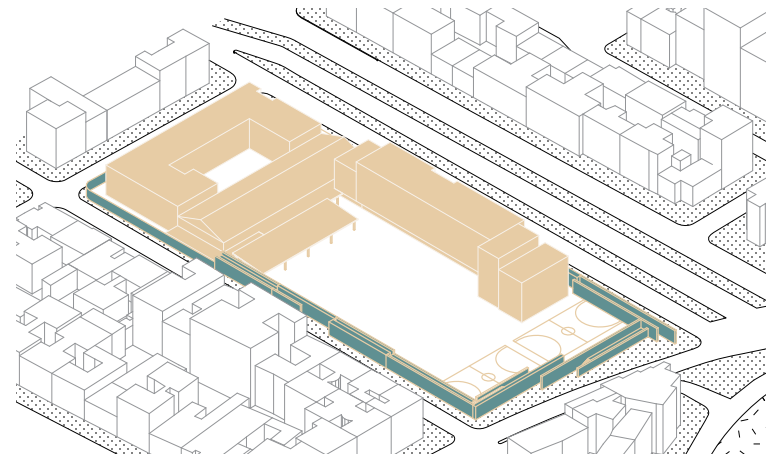


1. Thickness

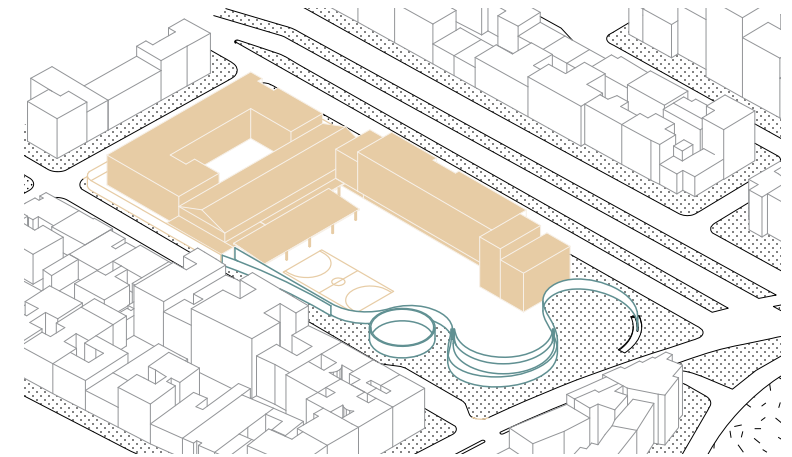
DESIGN



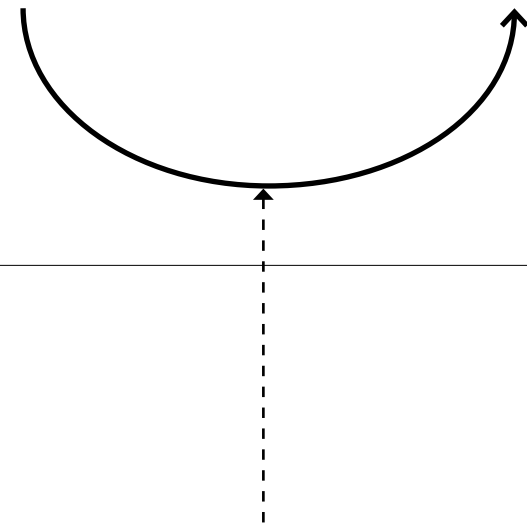
Existing Solid Wall



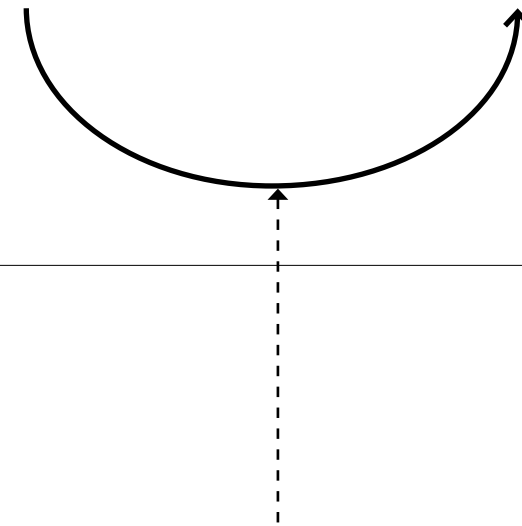
Thickened Solid Wall



Multi-layer Curtains



1. Thickness



2. Performance

RESEARCH

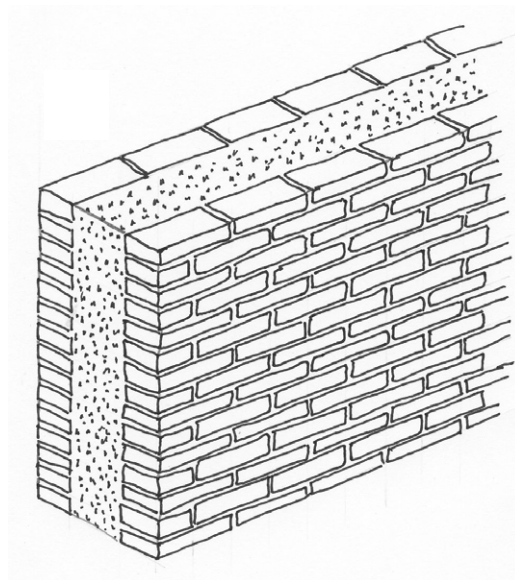
2. PERFORMANCE

Gottfried Semper: Four Elements of Architecture:
Hearth/ Roof/ Enclosure/ Mound

- Enclosure: "the visible boundaries of space"
- for a 'wall': the load-bearing capacity could be separated from the enclosure

[Mauer]

- load-bearing wall
- supporting structure

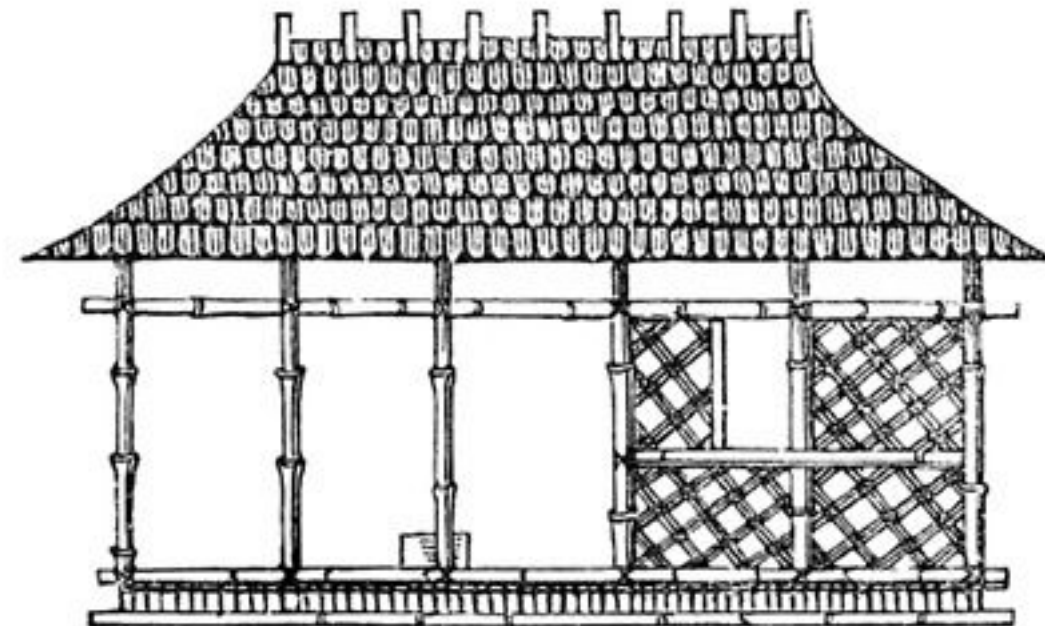


Opus Testaceum
Roman Empire Period

[Wand]

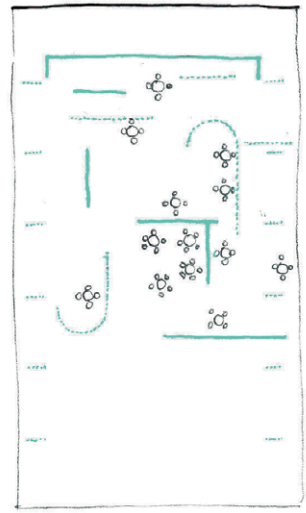
(same root as Gewand, which means
"dress" in German)

- wall for enclosure
- separation/ partition/ screen/ curtain



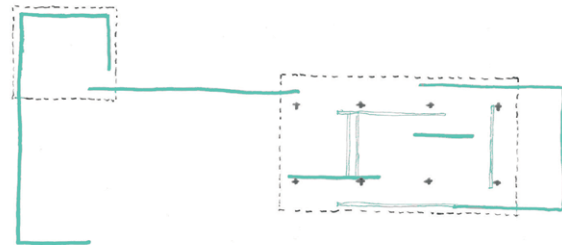
Caribbean Hut
The Great Exhibition, 1851

[Wand]



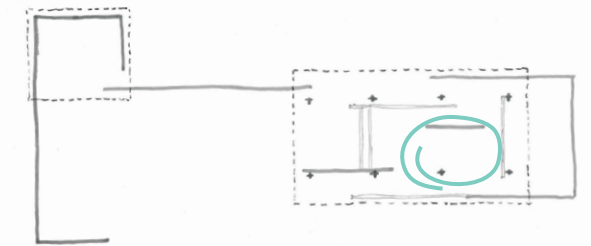
Velvet and Silk Cafe
1927

Mies van der Rohe



Barcelona Pavilion
1929

SANAA



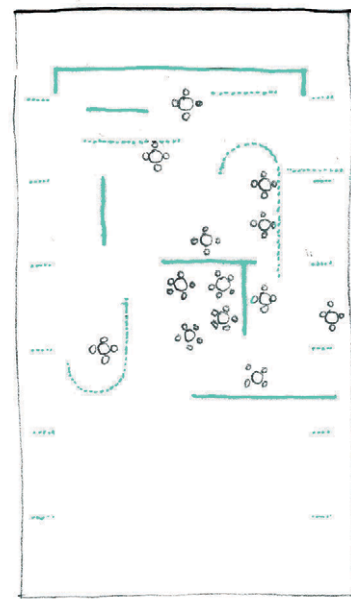
'transparent curtain' in
Barcelona Pavilion
2011

redefining role of the boundary walls

PROJECT:
a series of urban curtain

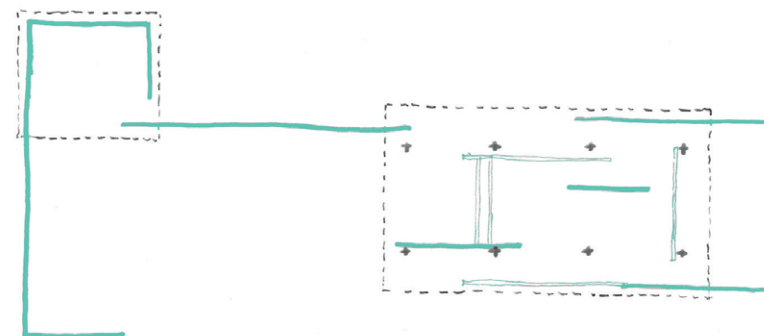
MIES & SANAA ON 'WAND-NESS'

Velvet and Silk Cafe
1927



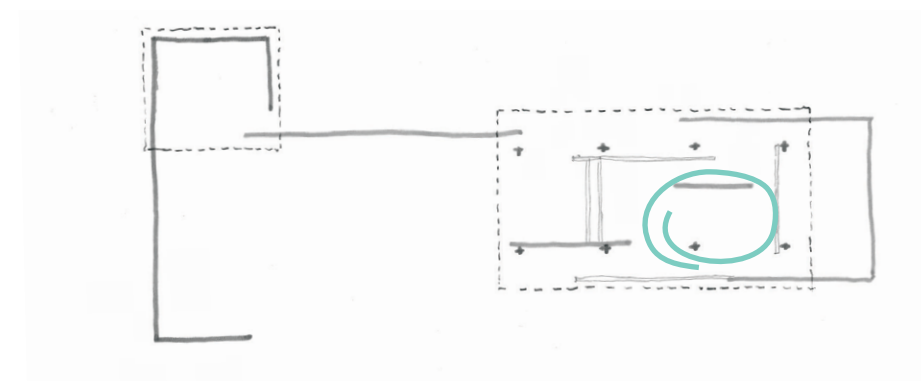
hung curtains perform as
[partition wall]

Barcelona Pavilion
1929



a mix of [load-bearing wall] and
[partition wall]

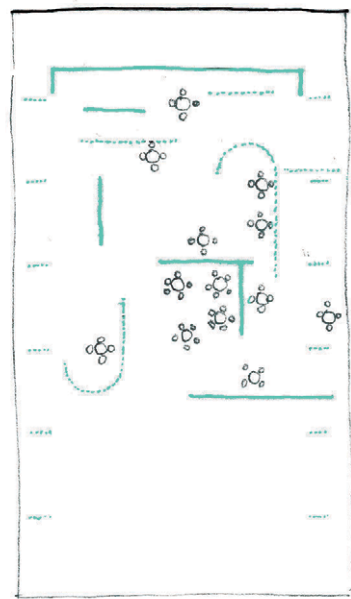
SANAA's intervention at
Barcelona Pavilion
2011



a [partition wall] added within a mix of
[load-bearing wall] and [partition wall]

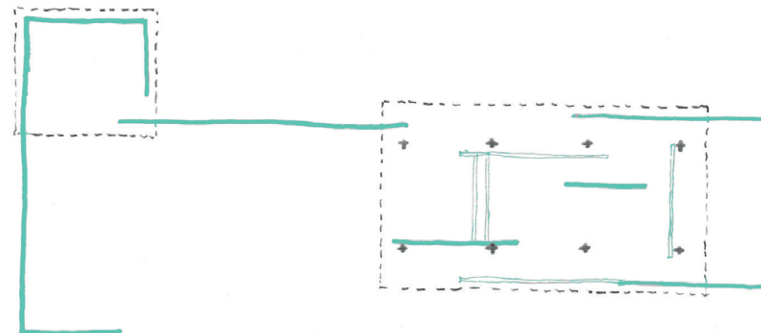
MIES & SANAA ON 'WAND-NESS'

Velvet and Silk Cafe
1927



hung curtains perform as
[partition wall]

Barcelona Pavilion
1929



a mix of [load-bearing wall] and
[partition wall]

SANAA's intervention at
Barcelona Pavilion
2011



curved acrylic pane
called as a '**transparent curtain**'
by SANAA

because with the reflections,
it encloses a space with
everchanging view towards the
outside

FROM 'WALL' TO 'CURTAIN'

By recognising SANAA's intervention as a 'curtain', the other walls in the Barcelona pavilion could be read as a composition of:

[curtains]

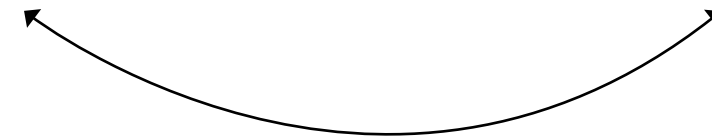
partition that gives a constantly changing relationship between interior and exterior.



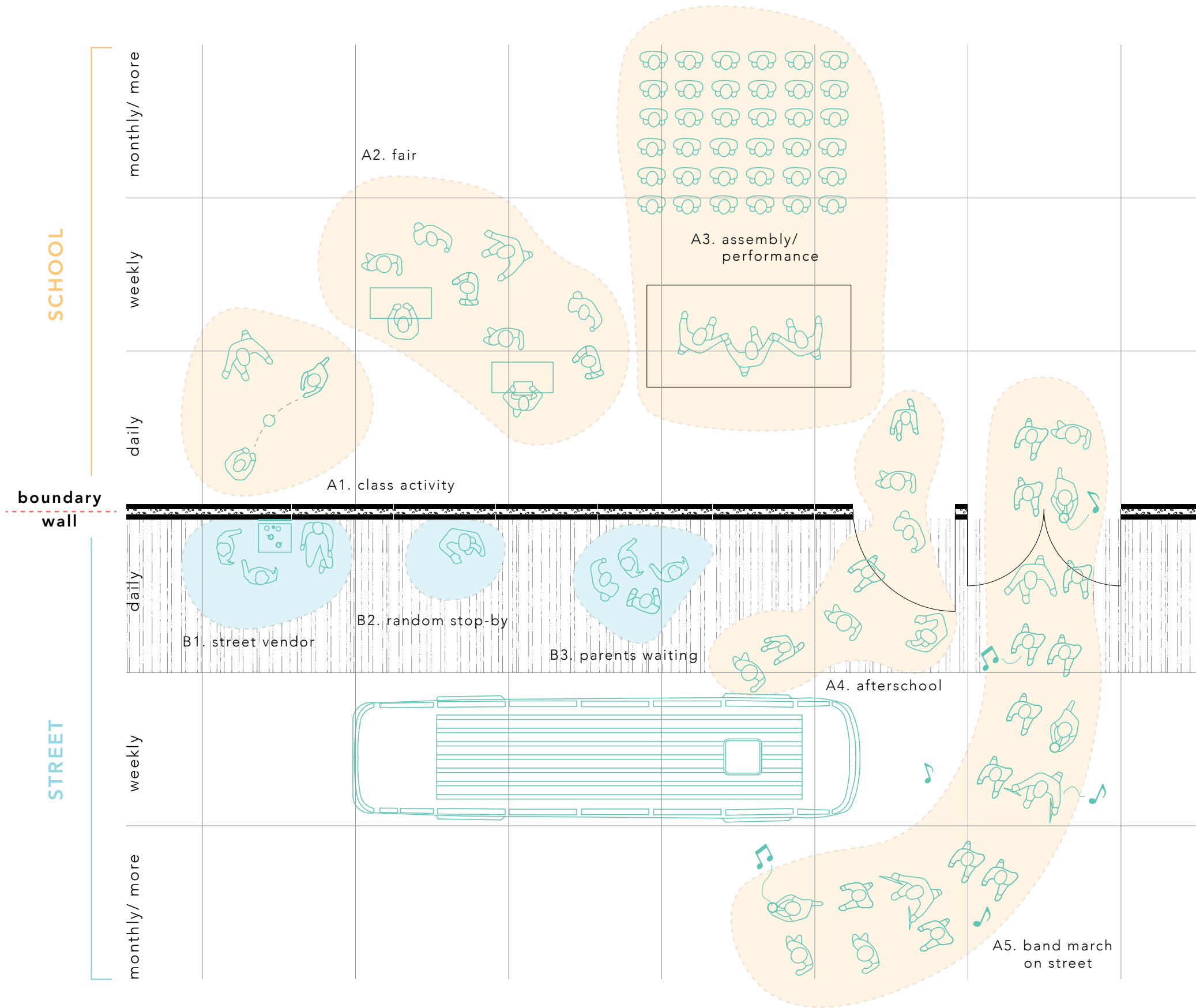
interior



exterior



- 02 PARAMETERS OF A 'WALL' -



A1



A2



A3



A4



A5



B1



Redefining the role of the concerned boundary walls

[CURTAIN]

a partition that allows changeable relationships between two distinct space



[PROJECT: URBAN CURTAIN]

a series of multi-layered partitions that allow **changeable** relationships between school and public street

*"equivocal definition of street that embraces **multiplicity**"*

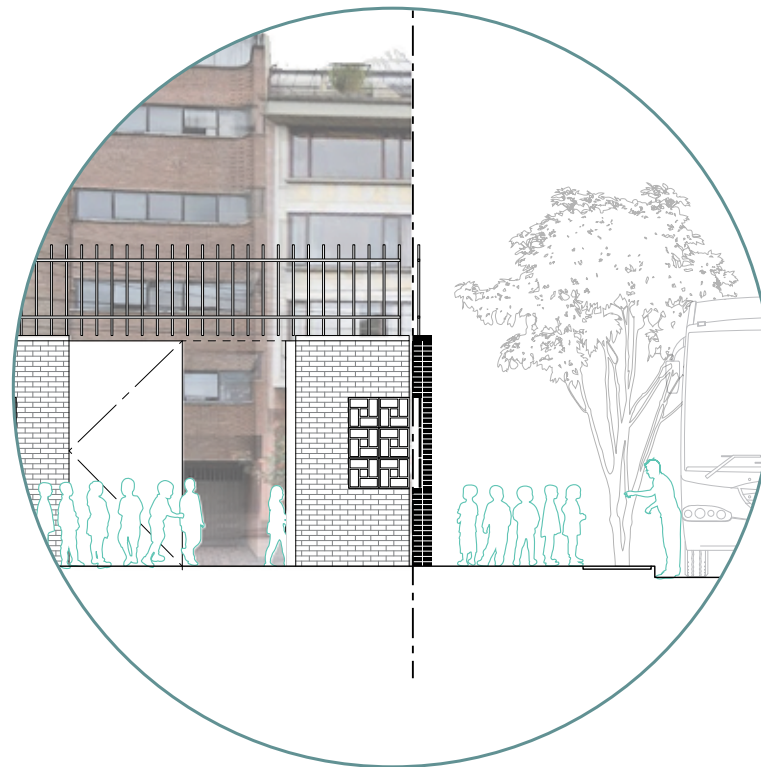
- research question

3 SCALES OF OBJECTIVES



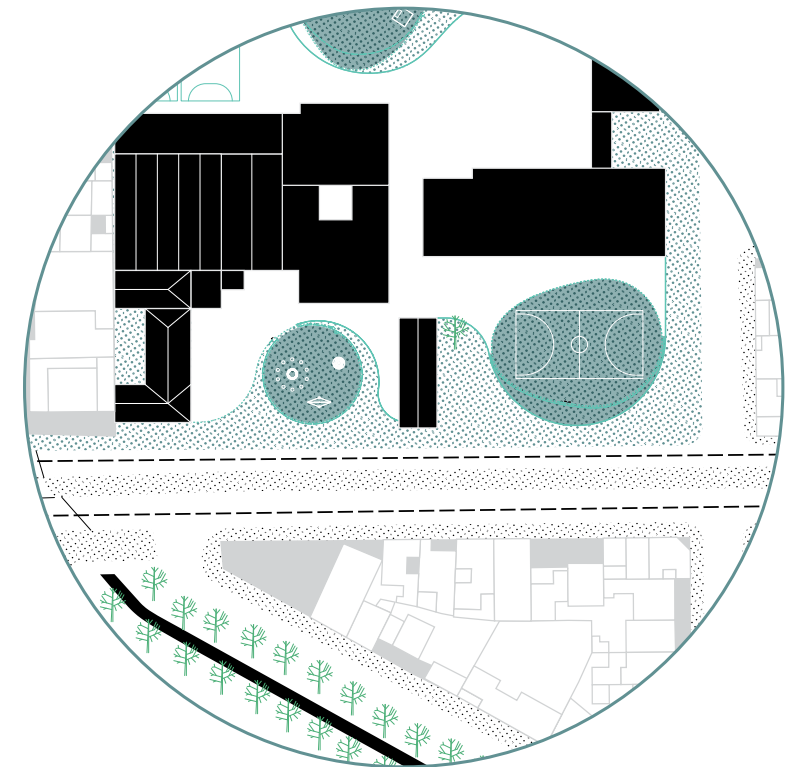
1. PERSONAL

Each segment of curtain encourages public to shift their normative way of engaging with a wall



2. SCHOOL & NEIGHBOURHOOD

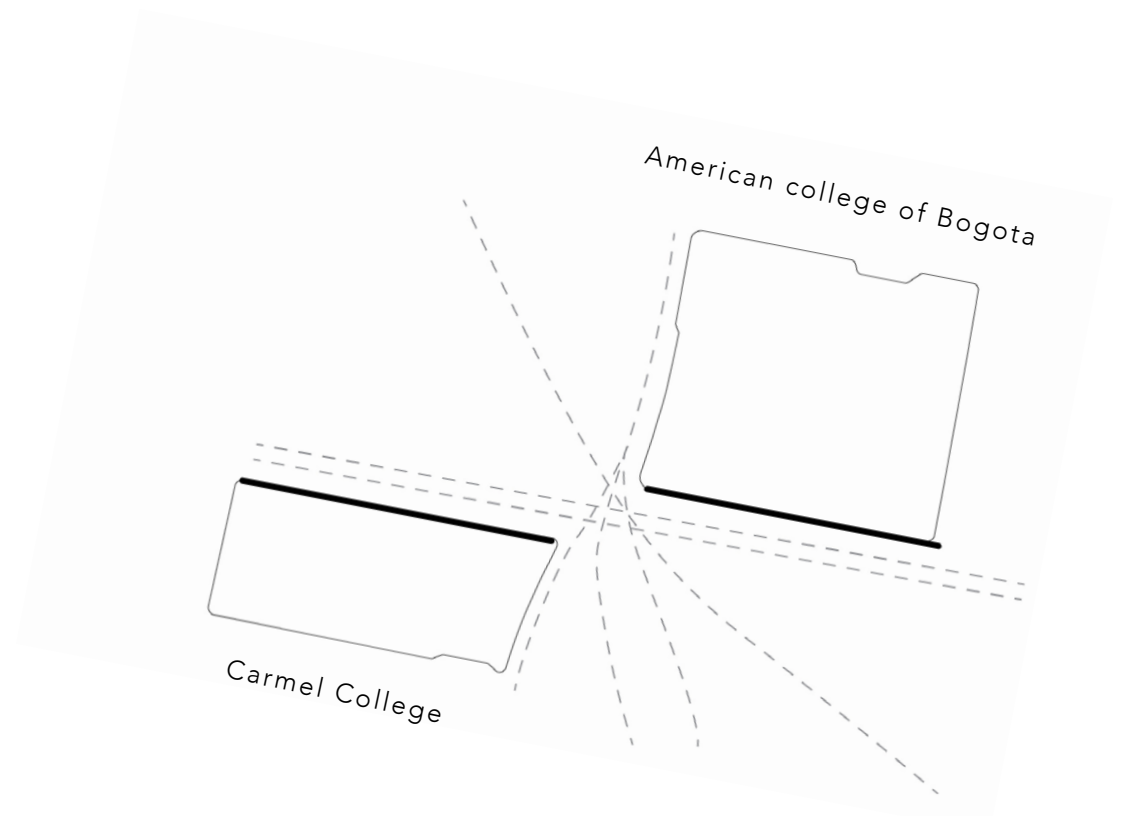
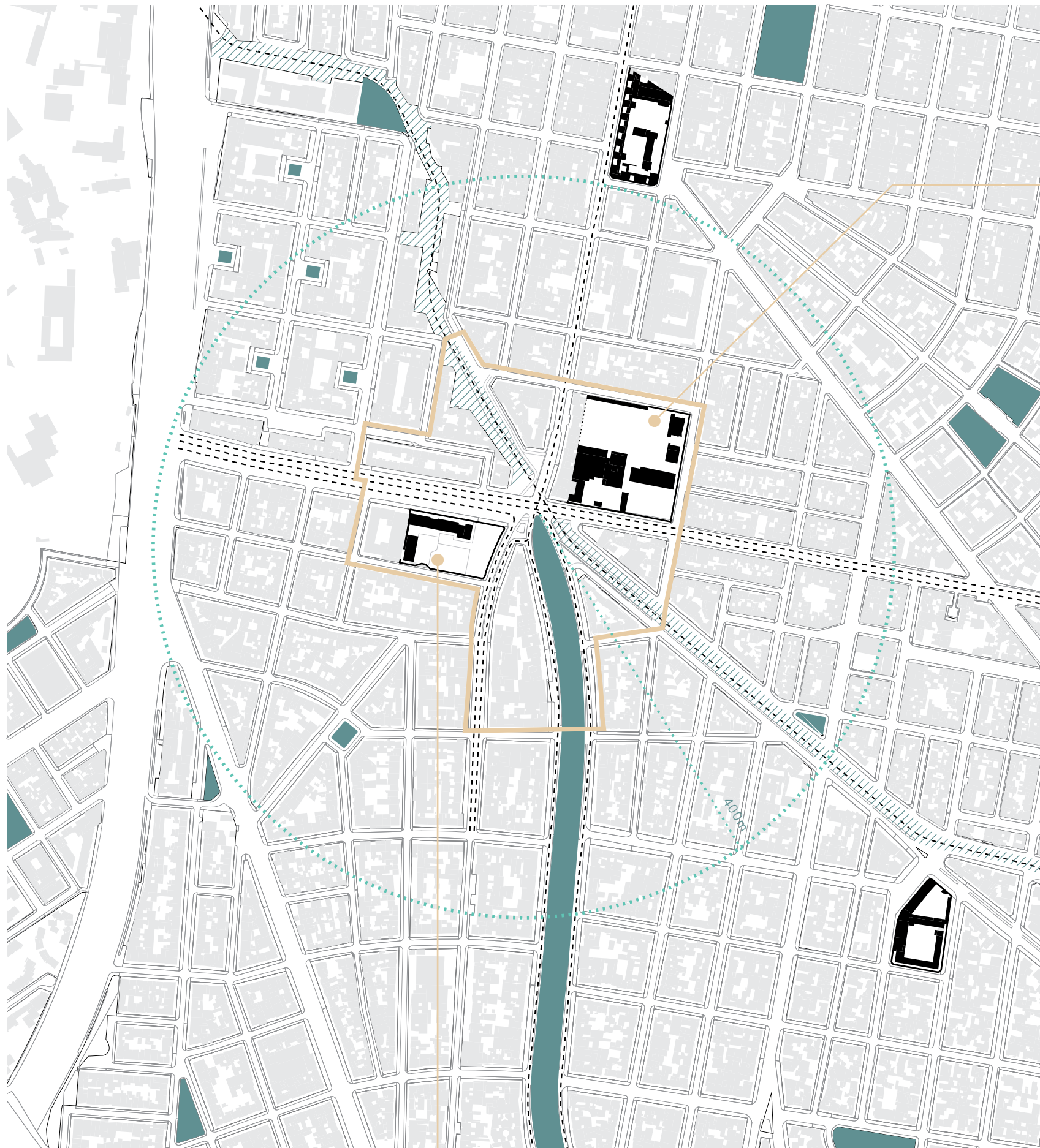
Turning the boundary wall into a structure that allow students and neighbourhood to interact



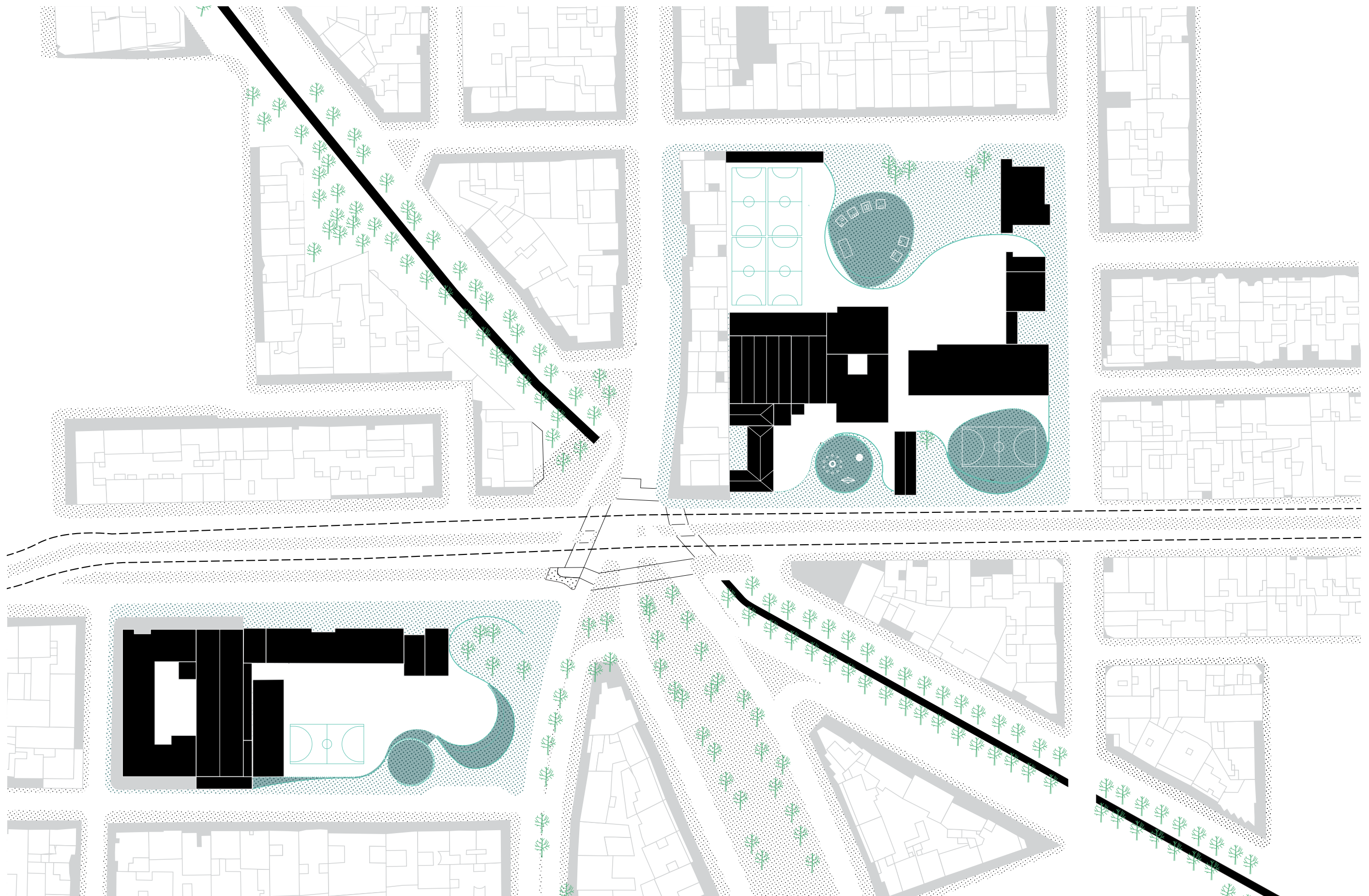
3. PUBLIC REALM

By intervening the boundary wall at the frontyard, private sector could contribute to the public realm by activating street

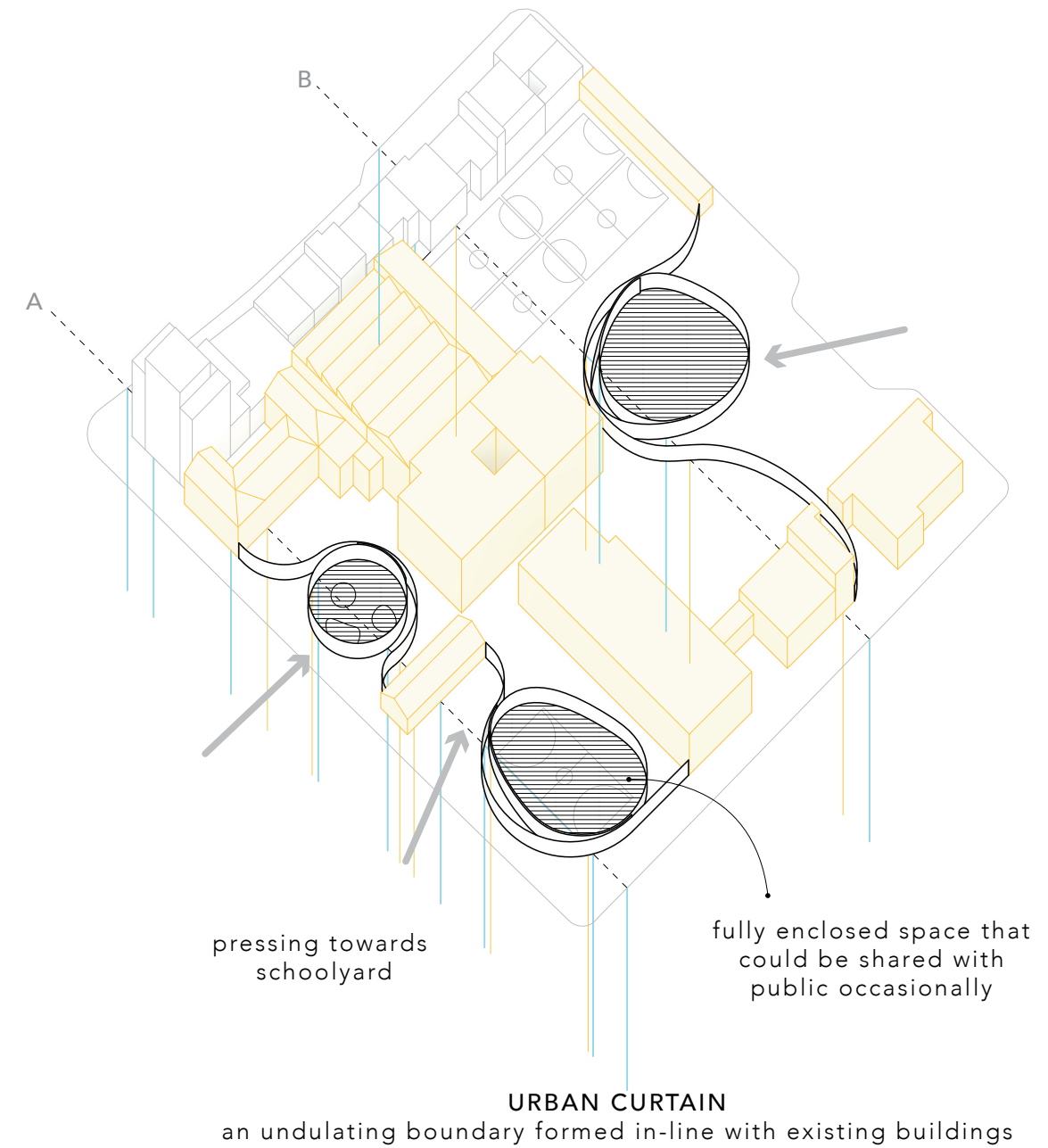
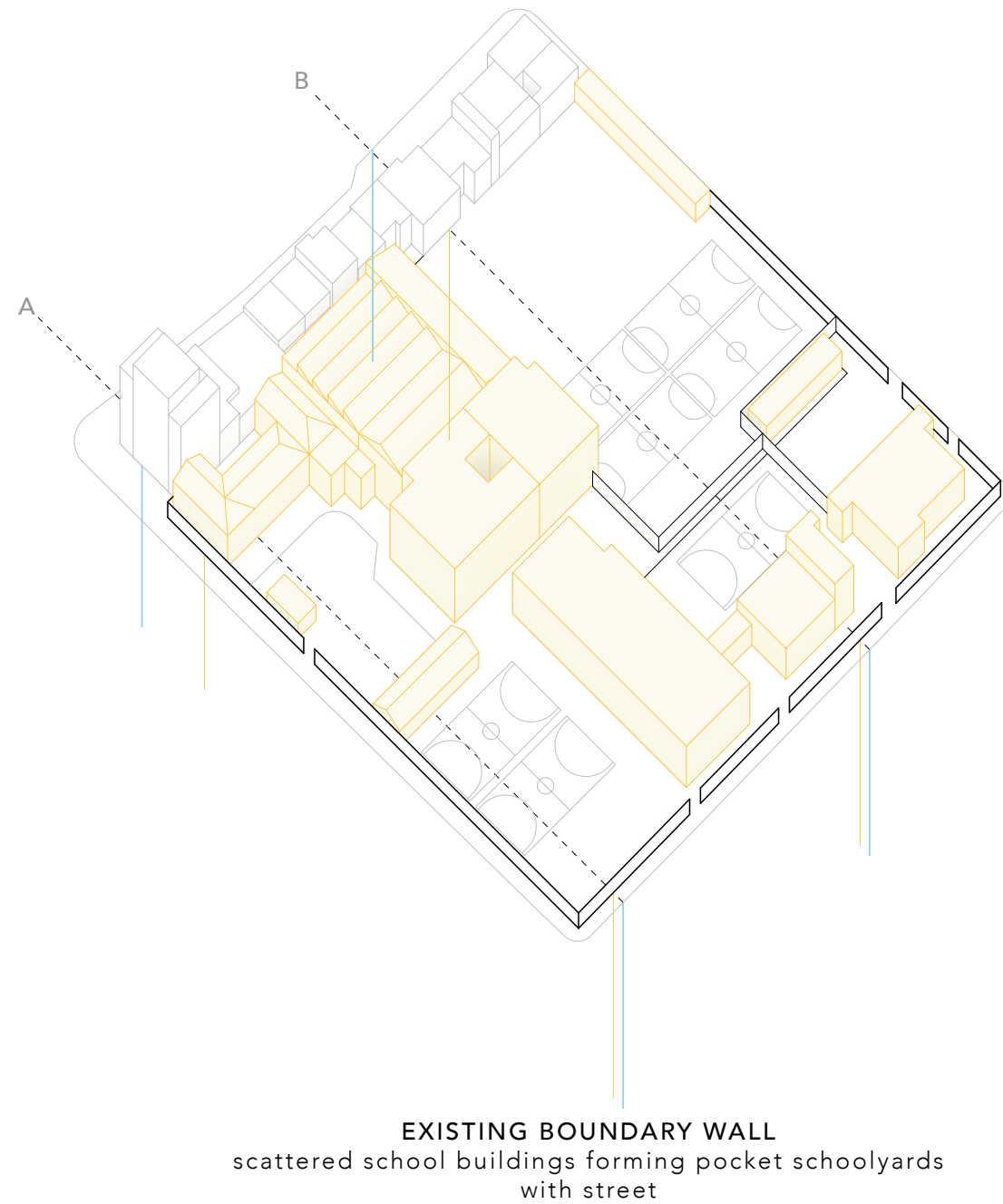
03 INTERVENTION: AN URBAN CURTAIN



boundary wall of two schools
contribute as major street facade

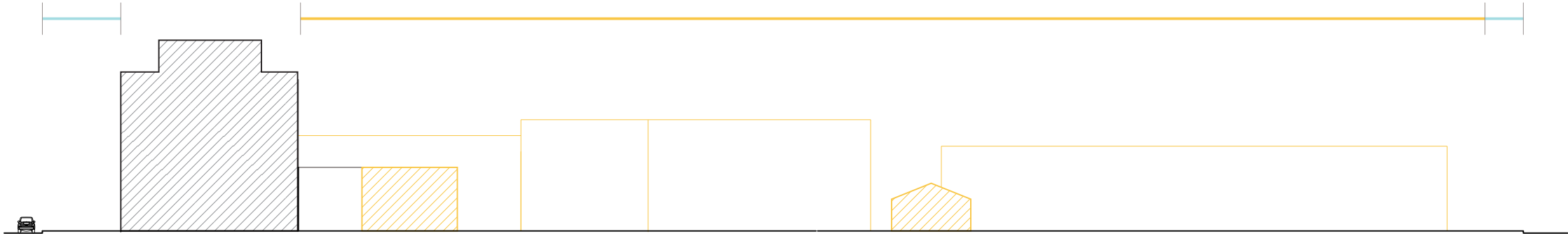
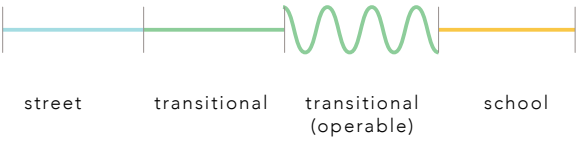


URBAN STRATEGY
beyond a periphery wall

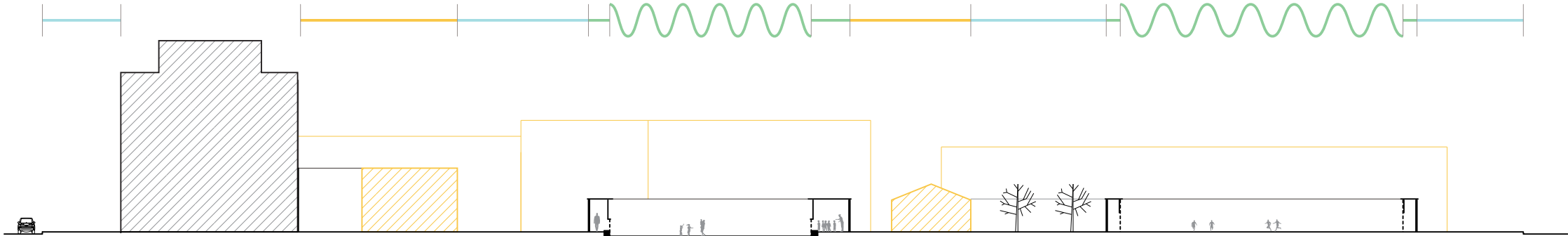


INTERVENTION STRATEGY
- American College of Bogota -

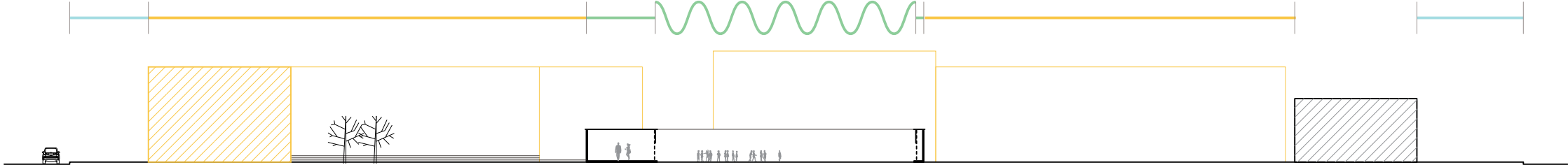
- 03 INTERVENTION -



ORIGINAL BOUNDARY WALL



SECTION A

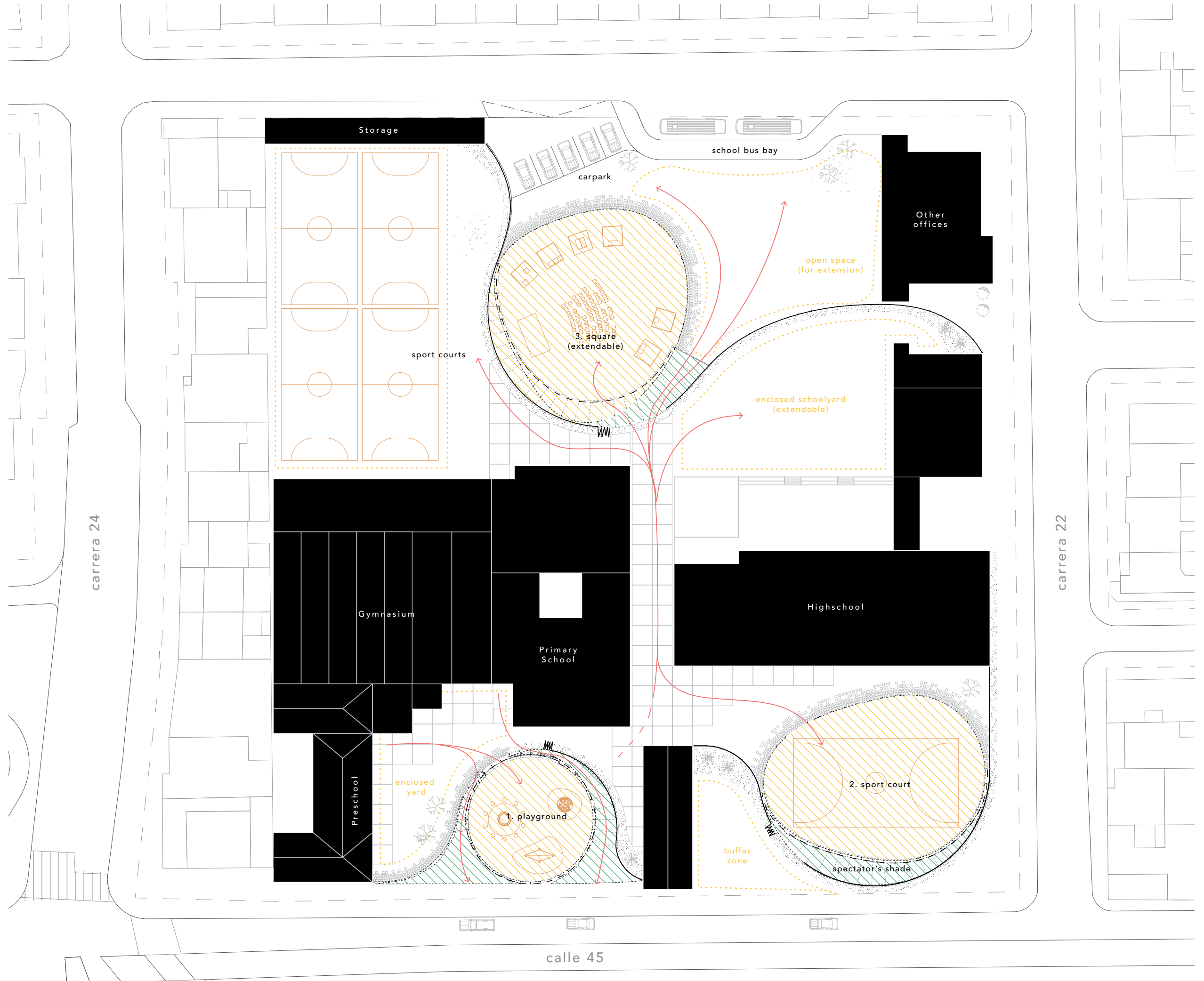
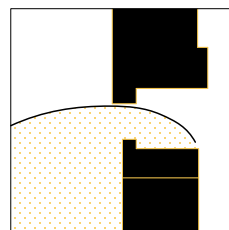
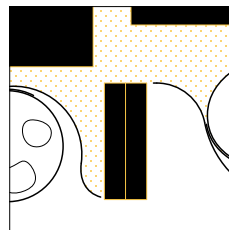
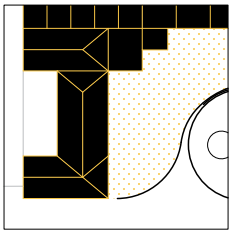


SECTION B

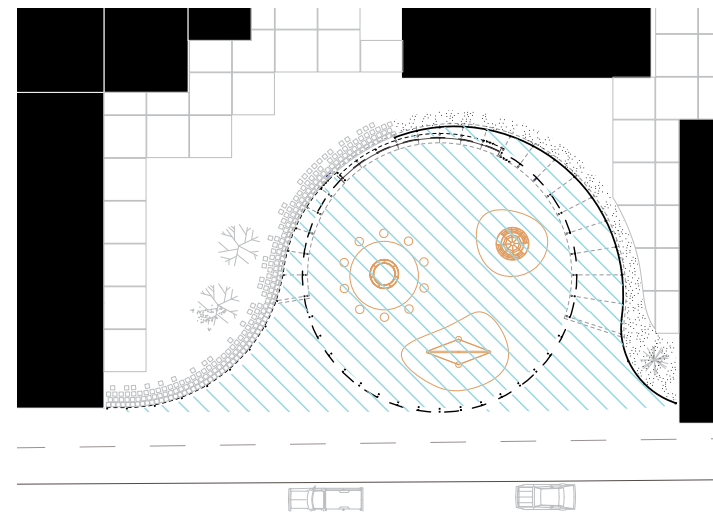
STREET SECTIONS
- American College of Bogota -

- 03 INTERVENTION -

POINT OF
CONTACT



ALTERNATE CONFIGURATION



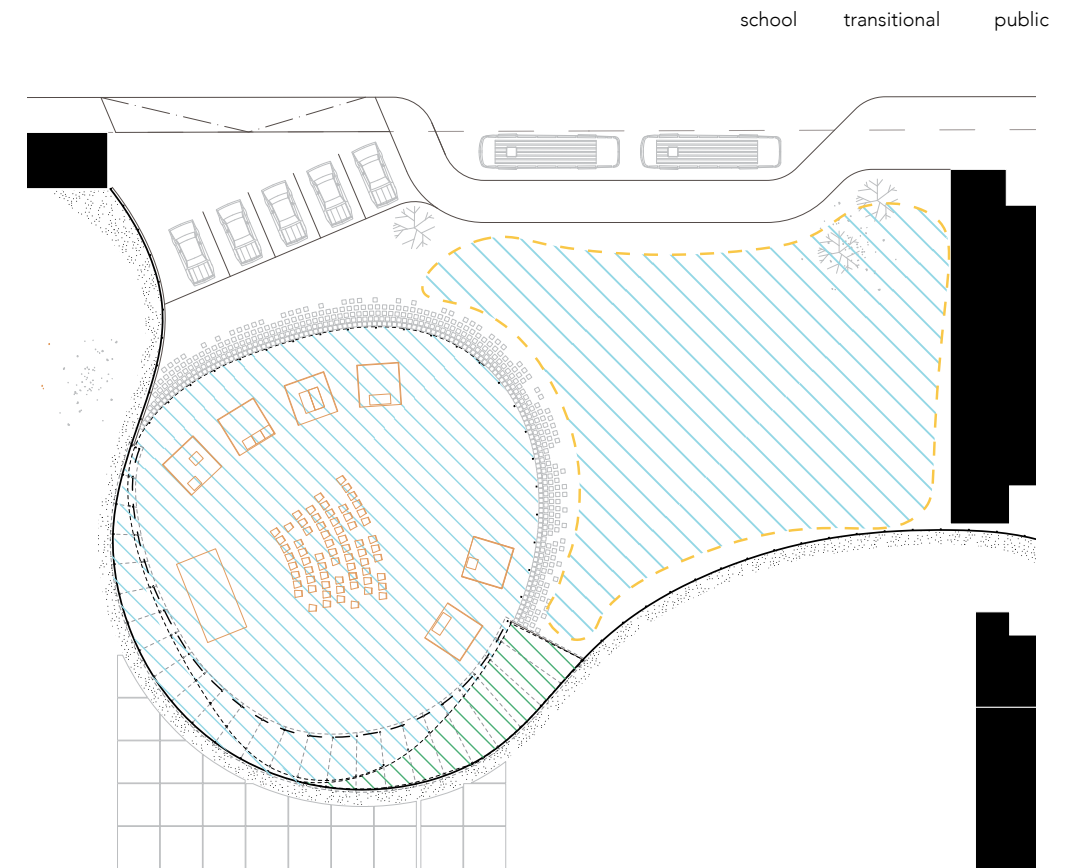
1. PUBLIC PLAYGROUND

a secluded playground with secondary space for parents to look after their kids



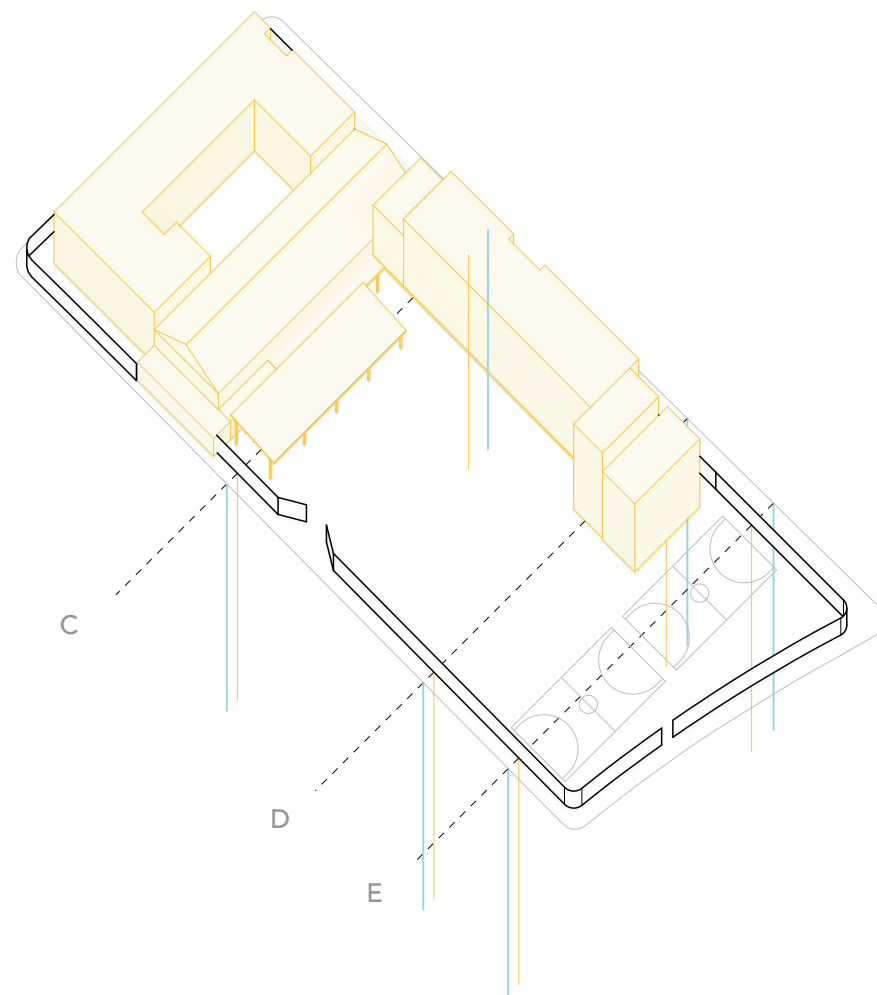
2. PUBLIC SPORTS COURT

sports court can be used by public. The buffer zone and covered corridor allow people to mingle around the court

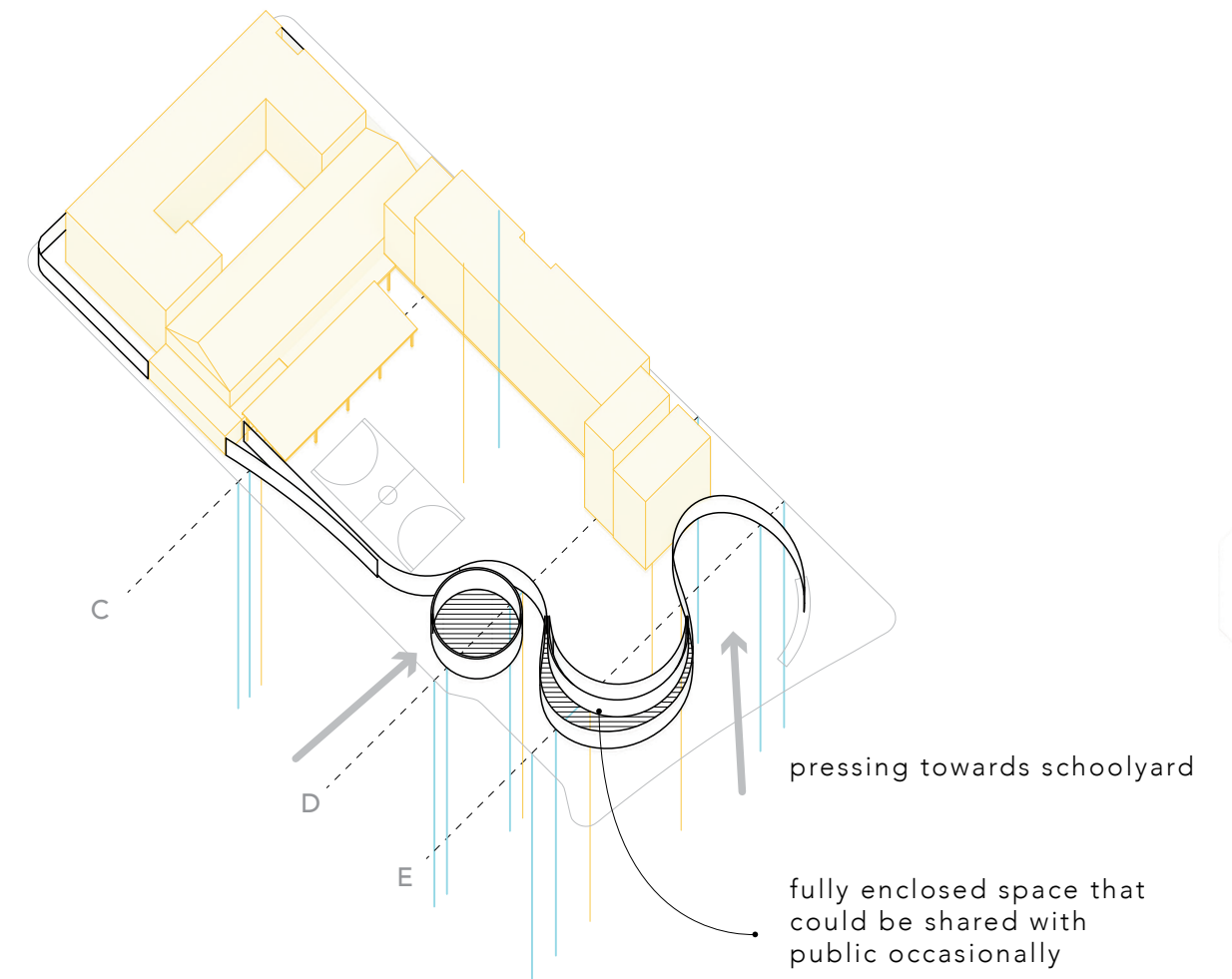


3. SCHOOL EVENT FOR PUBLIC

The school organizes a fun fair that welcomes the neighbourhood to join. The enclosed even space can be extended into the open space in front of it



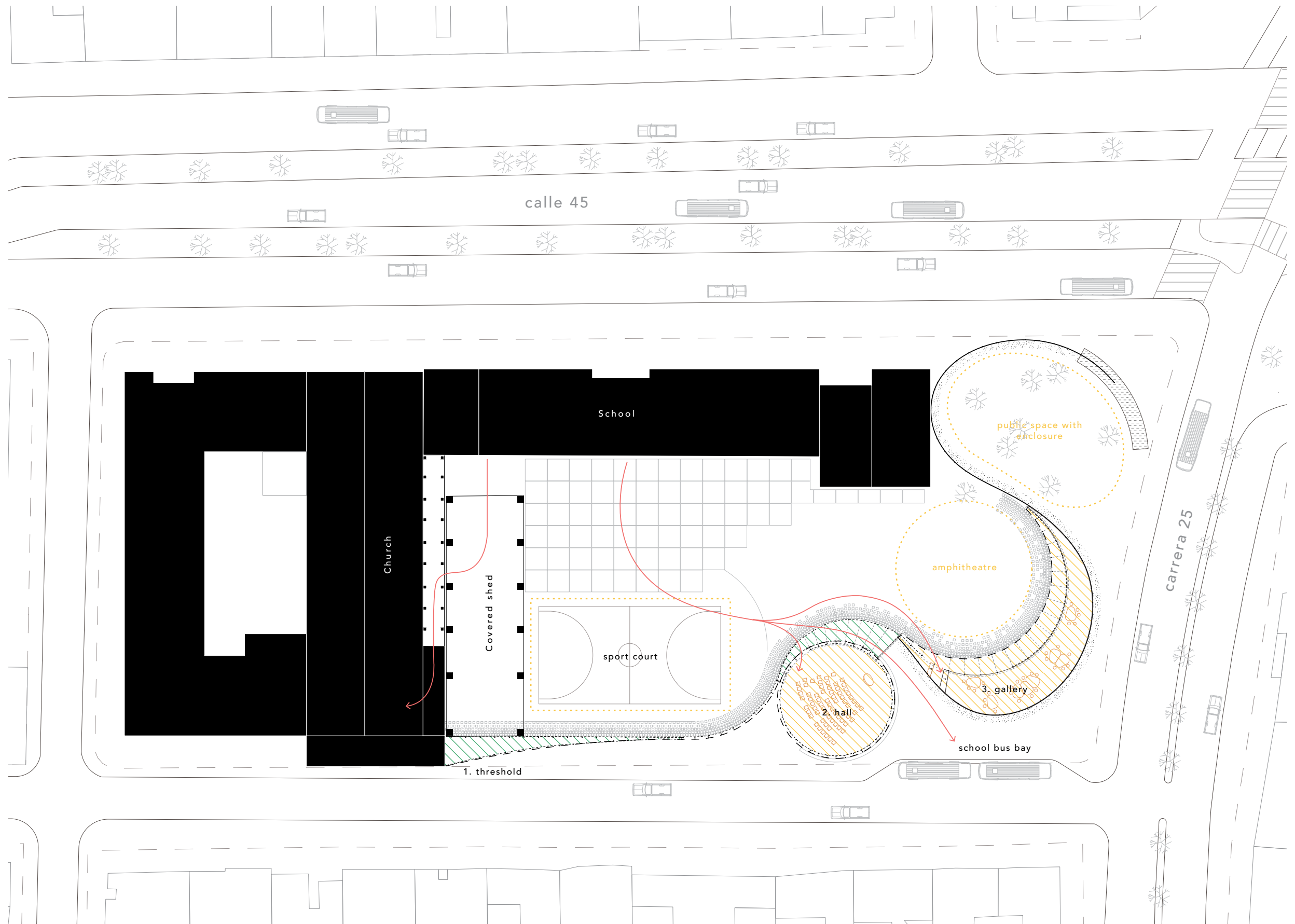
EXISTING BOUNDARY WALL
one school building + big school yard



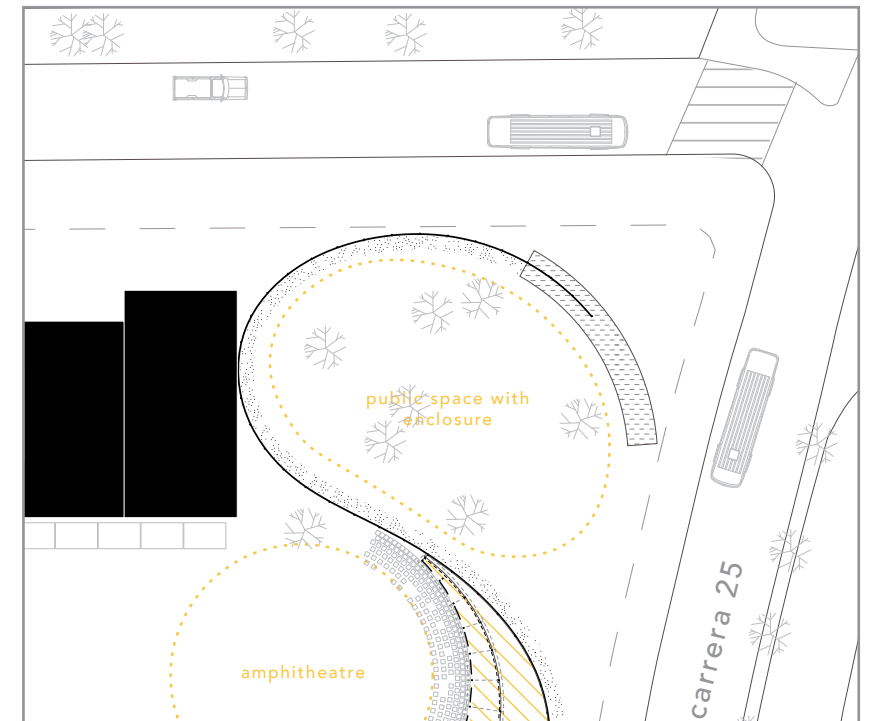
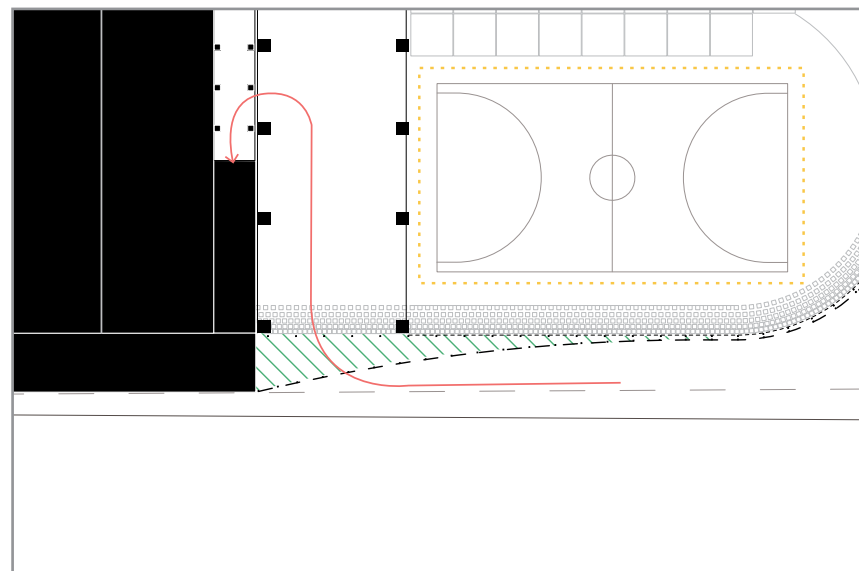
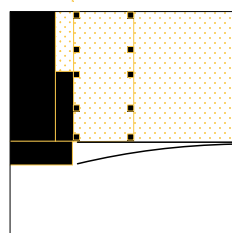
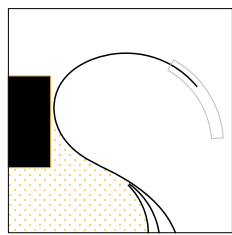
URBAN CURTAIN
curtain undulates itself to reshape schoolyard and street

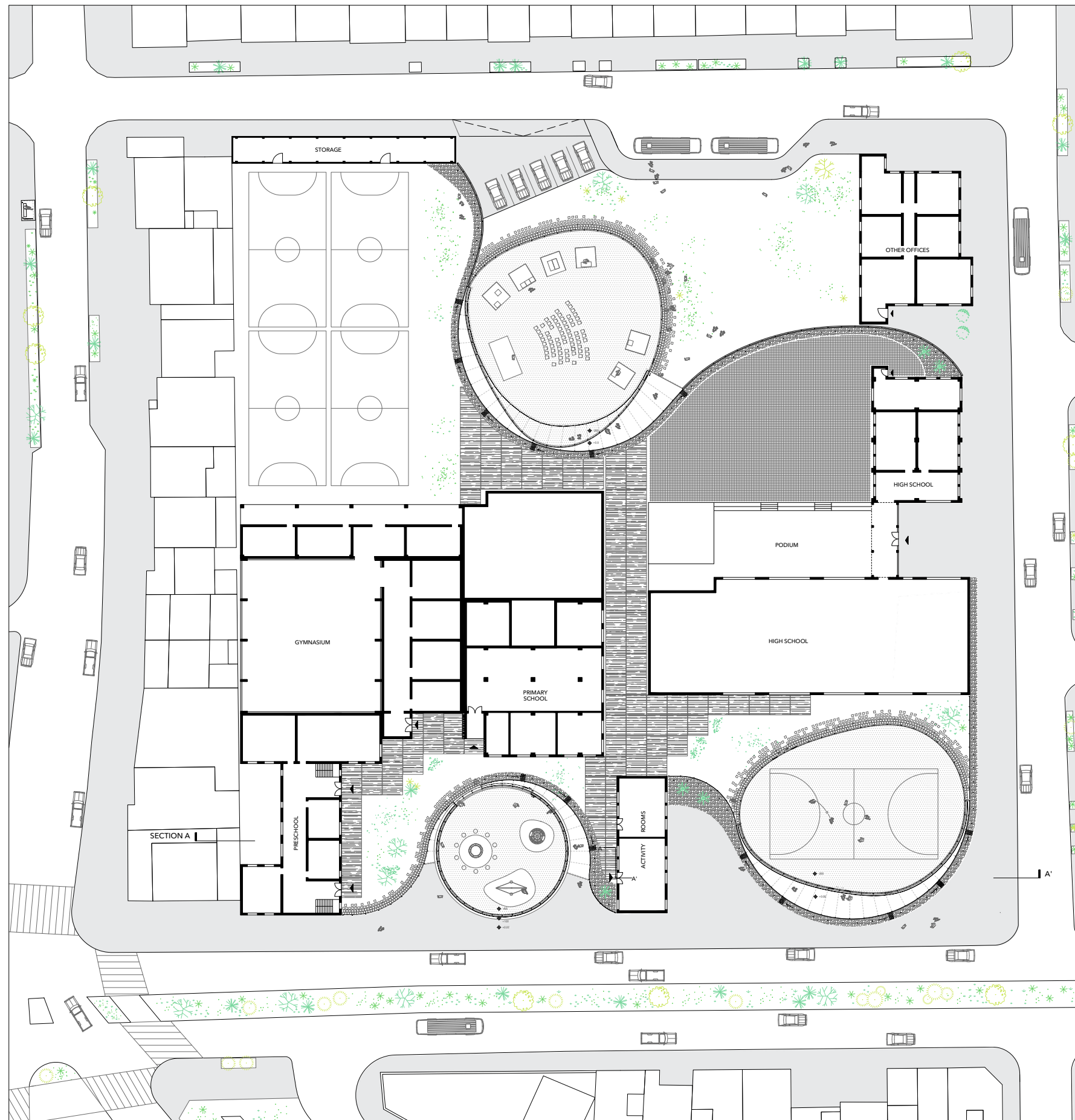
INTERVENTION STRATEGY
- Carmel College -

- 03 INTERVENTION -

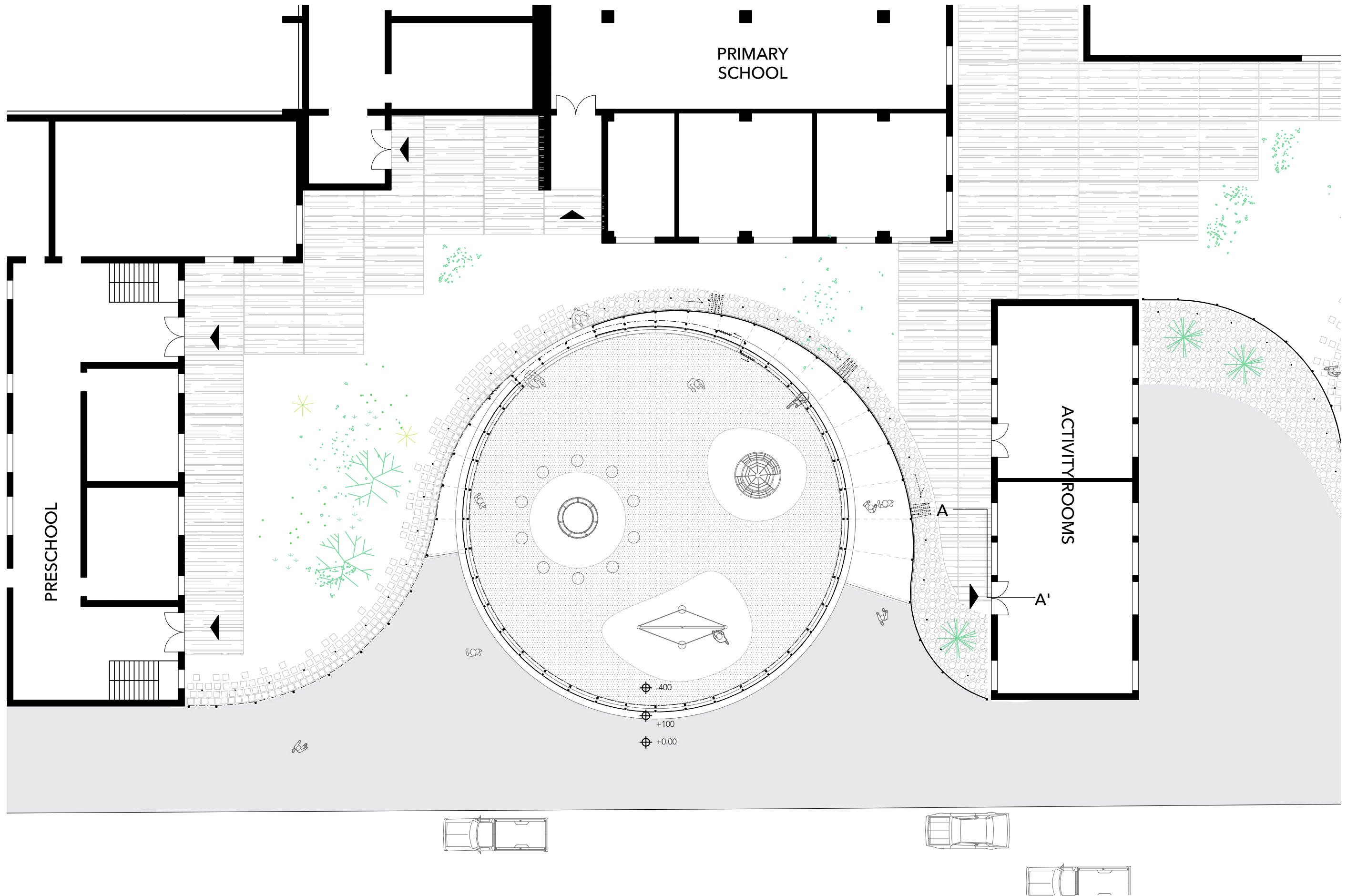


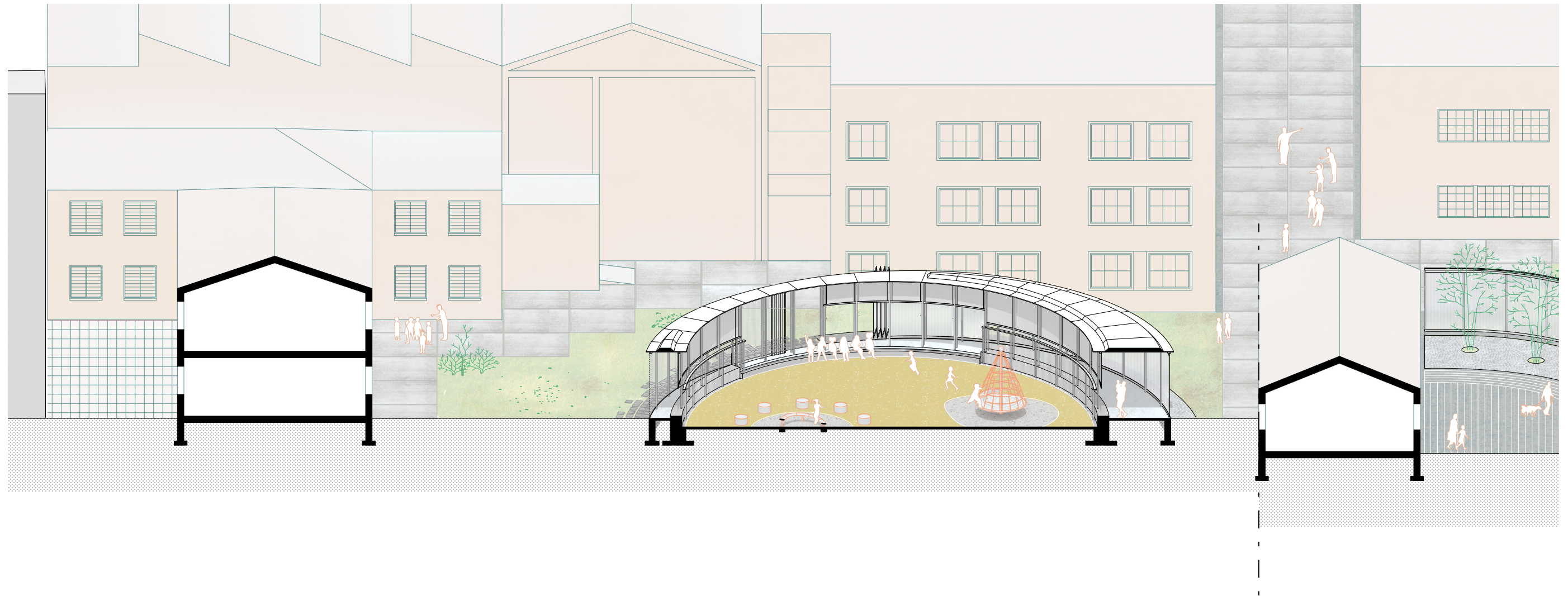
POINT OF
CONTACT

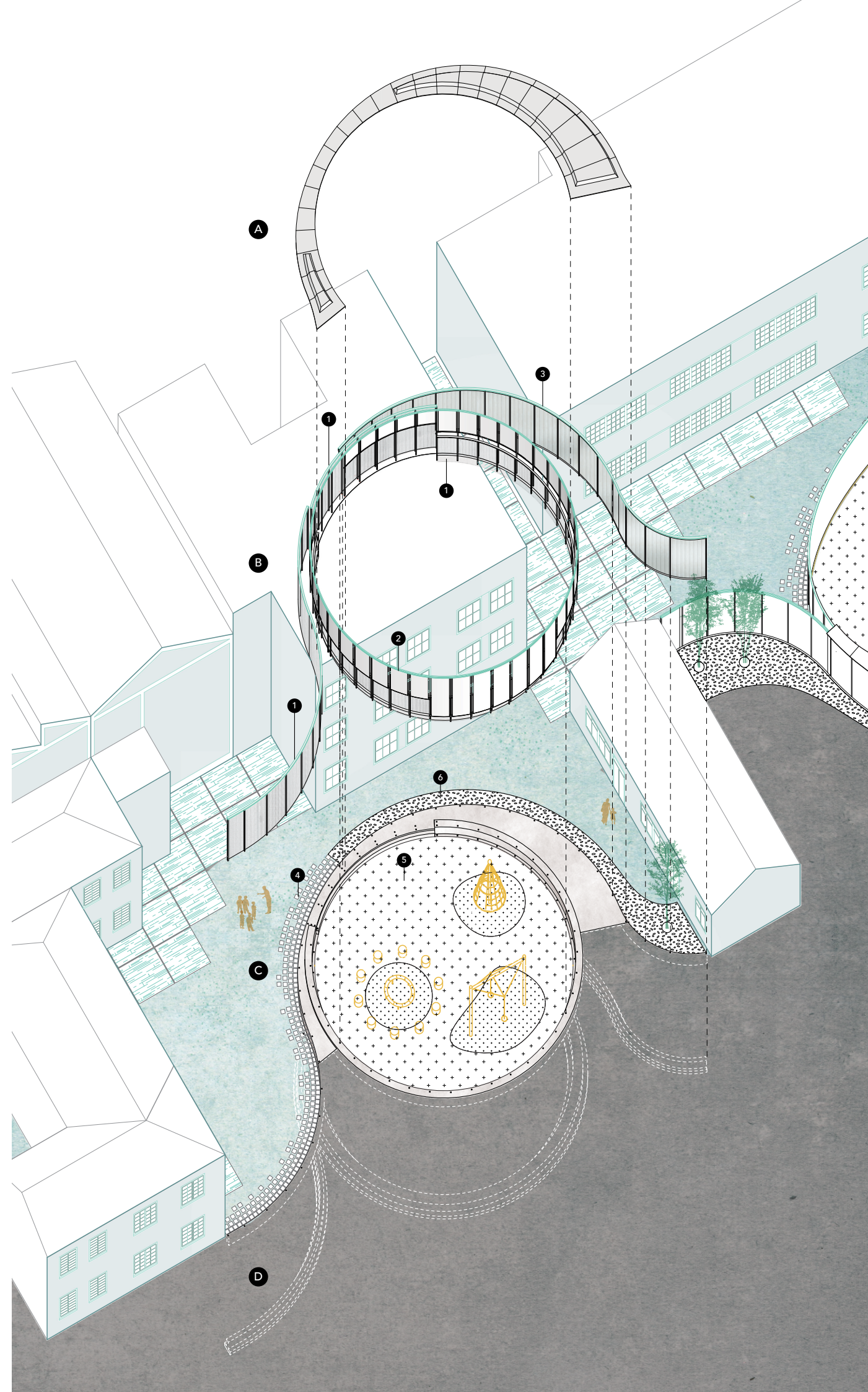




PLAN
- American College of Bogota -







A. Roof

B. Independent Curtain
Layers

C. Concrete Retaining
Wall and Slab

A

3

1

2

1




6

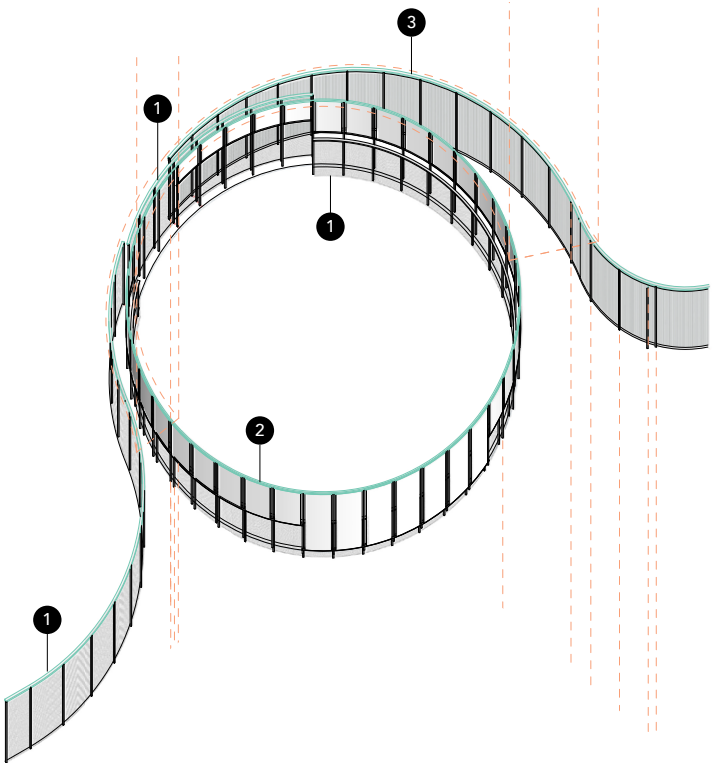
4

5

C

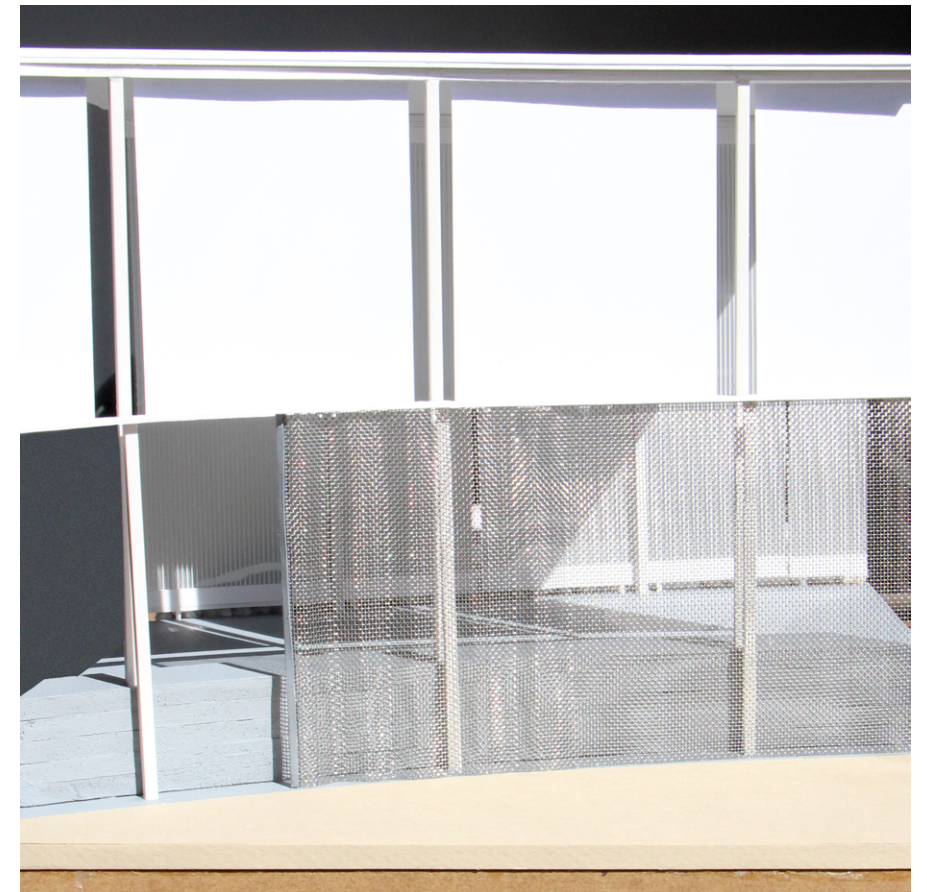
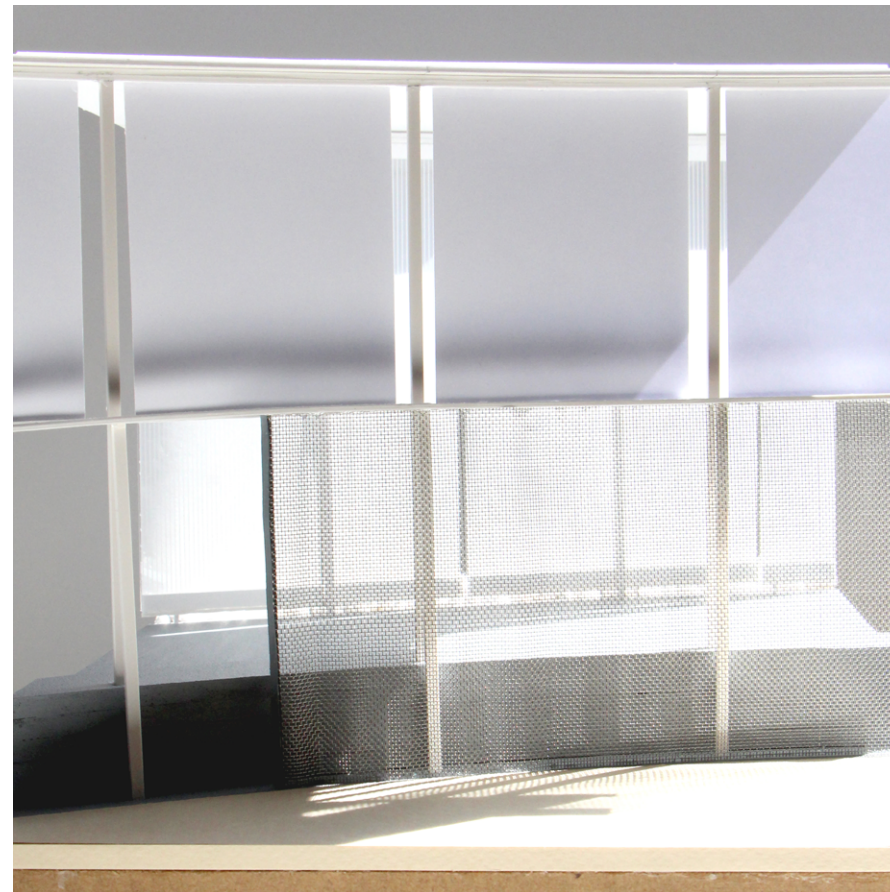
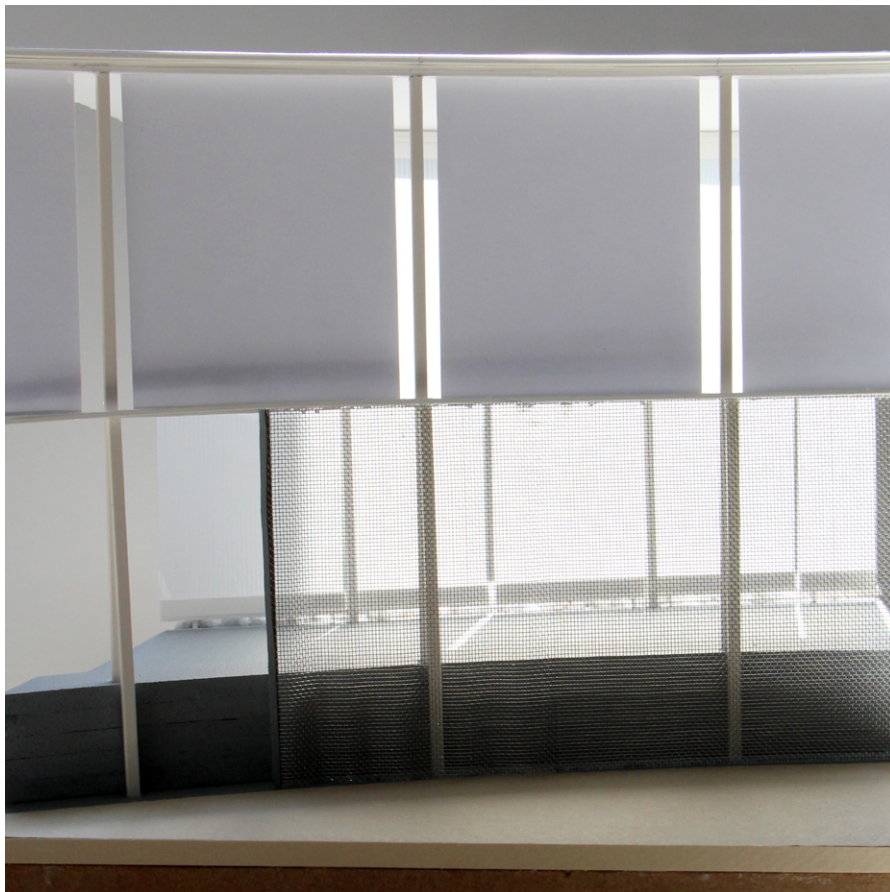
D

	TOUCH	OPERATION	VIEW	REFERENCE
1 SLIDABLE WIRE-MESH CURTAIN	soft but durable	sliding	clear view with a layer of opacity (changes with sunlight)	 Swarovski Headquarter
2 HANGING METAL PANEL	stiff	immovable	opaque, variating height to direct view and motion	 Japanese Noren Curtain
3 FOLDABLE POLYCARBONATE PANEL	stiff	folding	soften view, blurry ambience (changes with sunlight)	 Laban Dance Centre



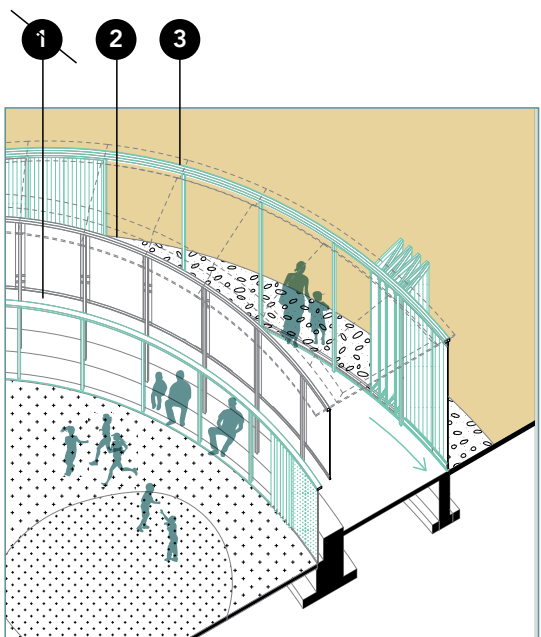
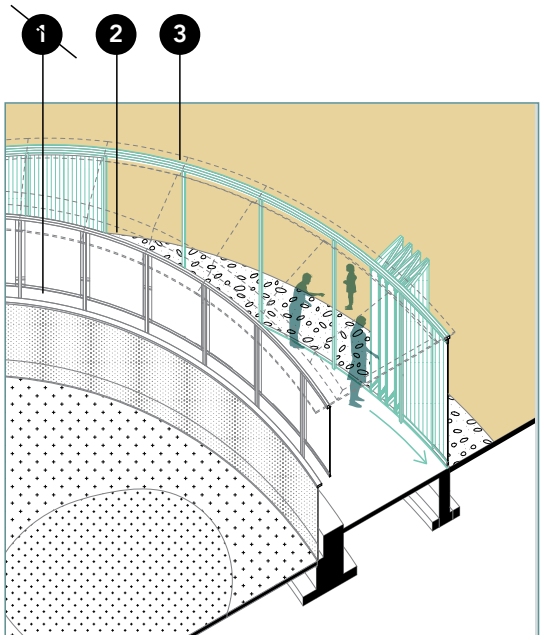
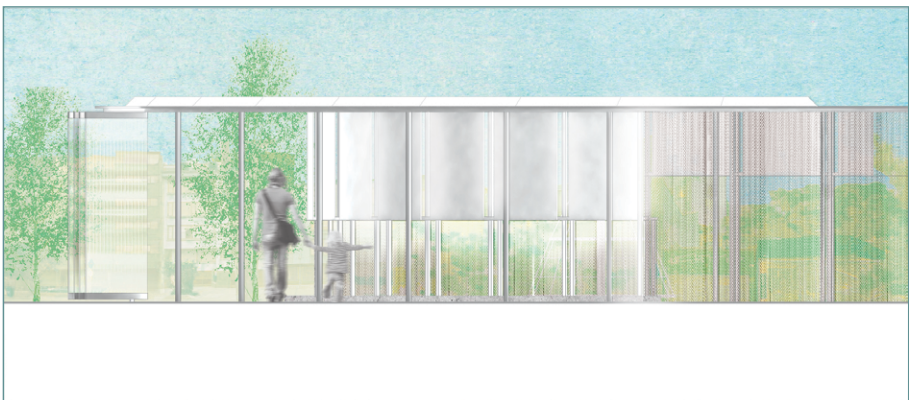
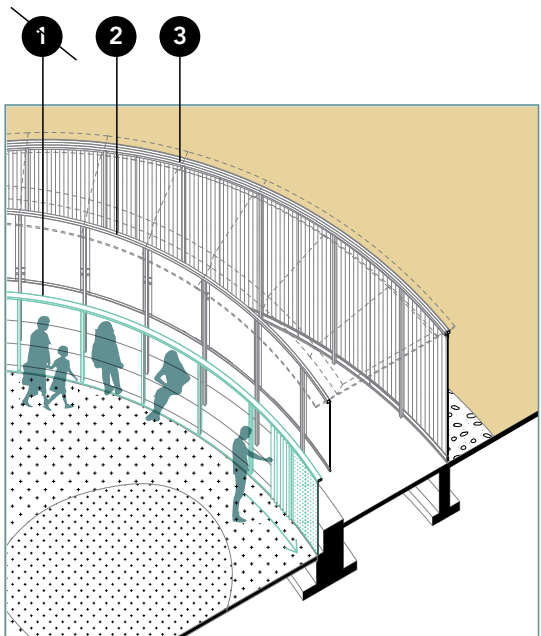
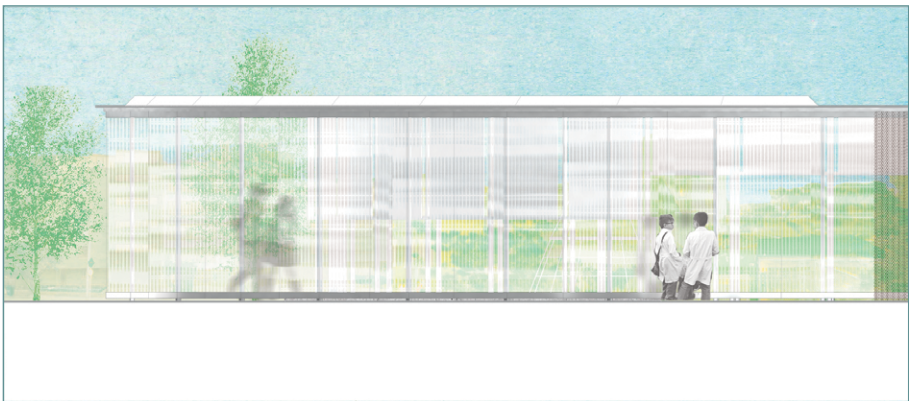
CURTAIN LAYERS

- 03 INTERVENTION -





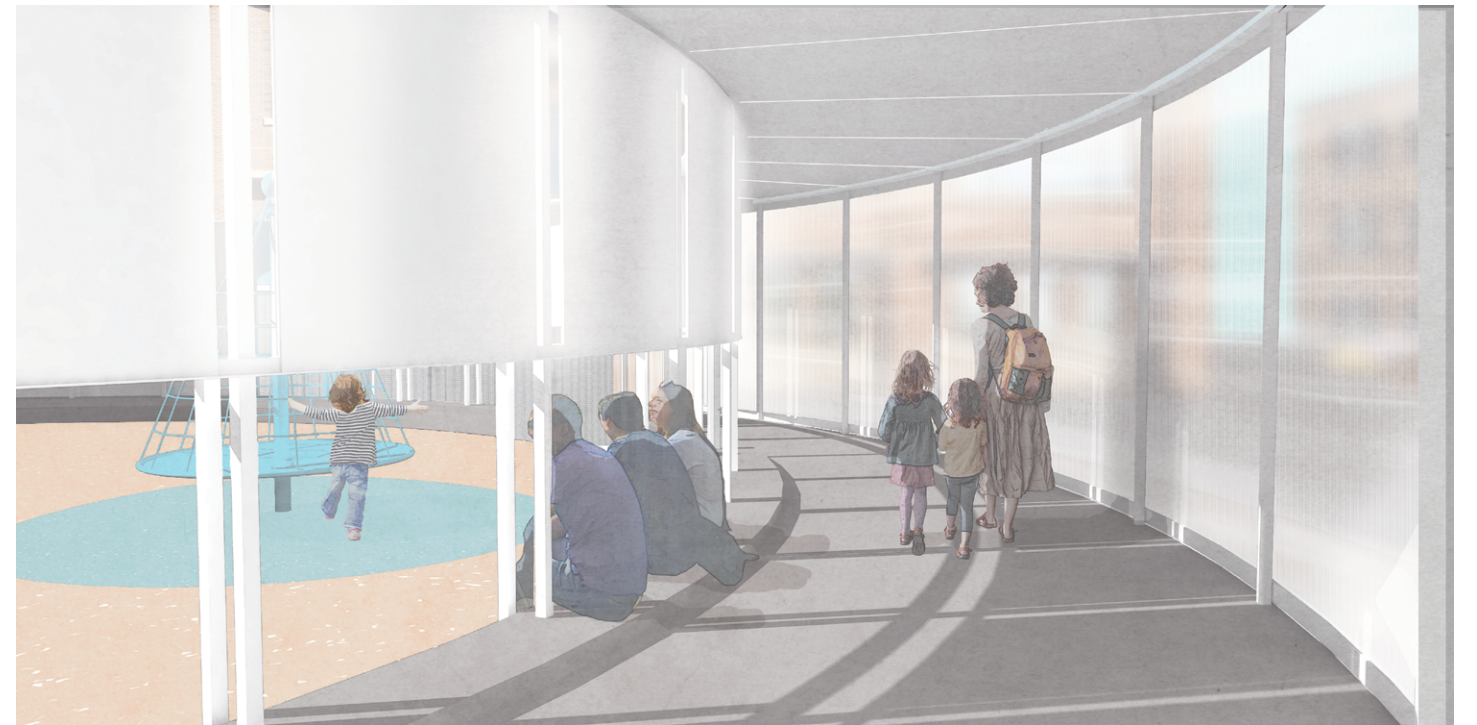
layering of textured shadows







barrier tape



*subtle cues:
levelling, shadow, curtain*

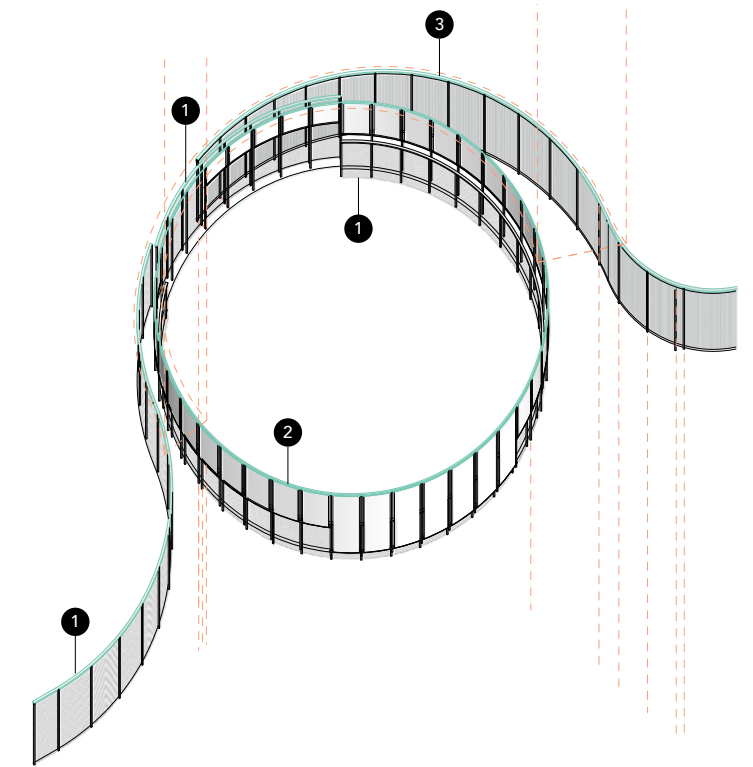
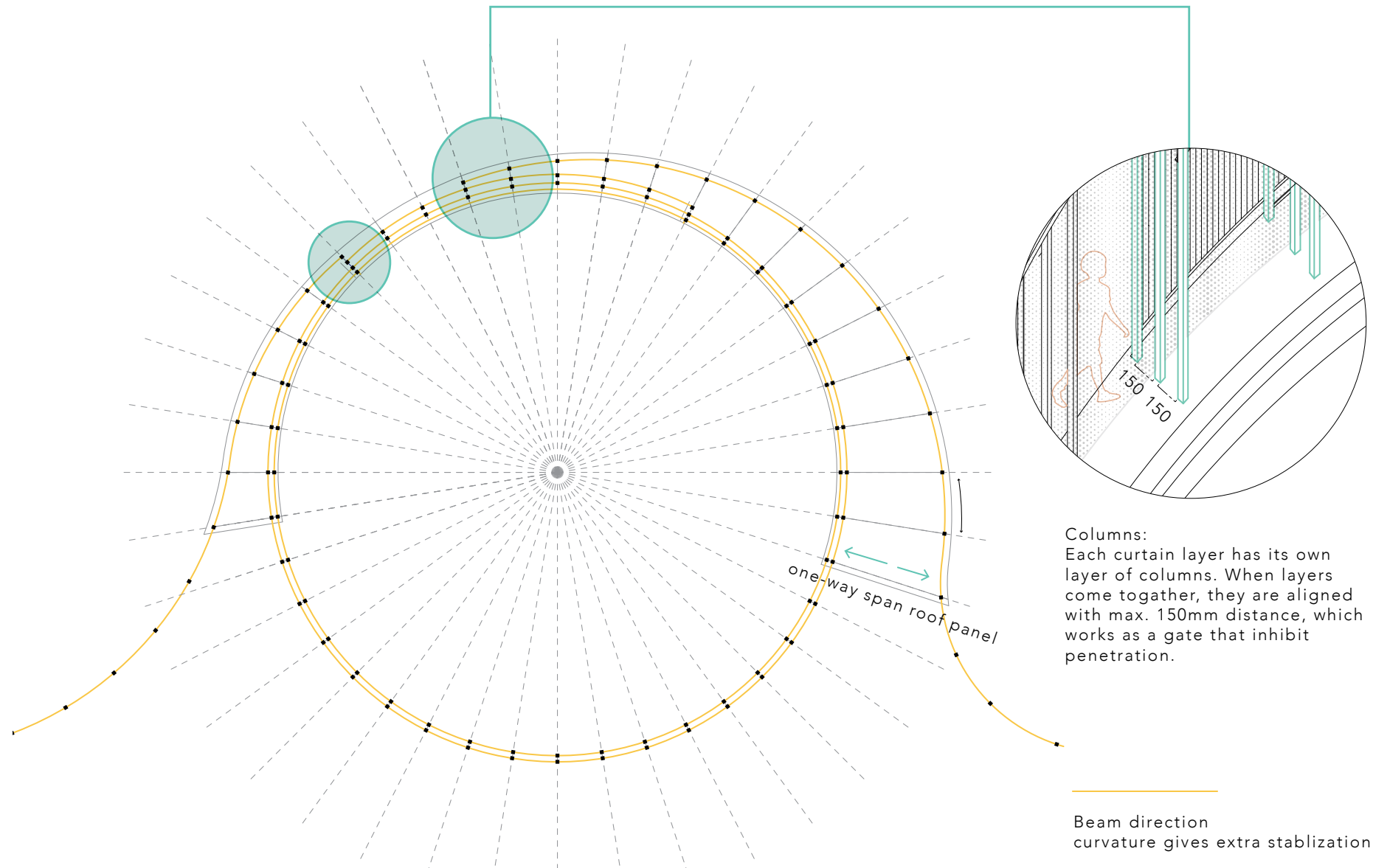


direct contact

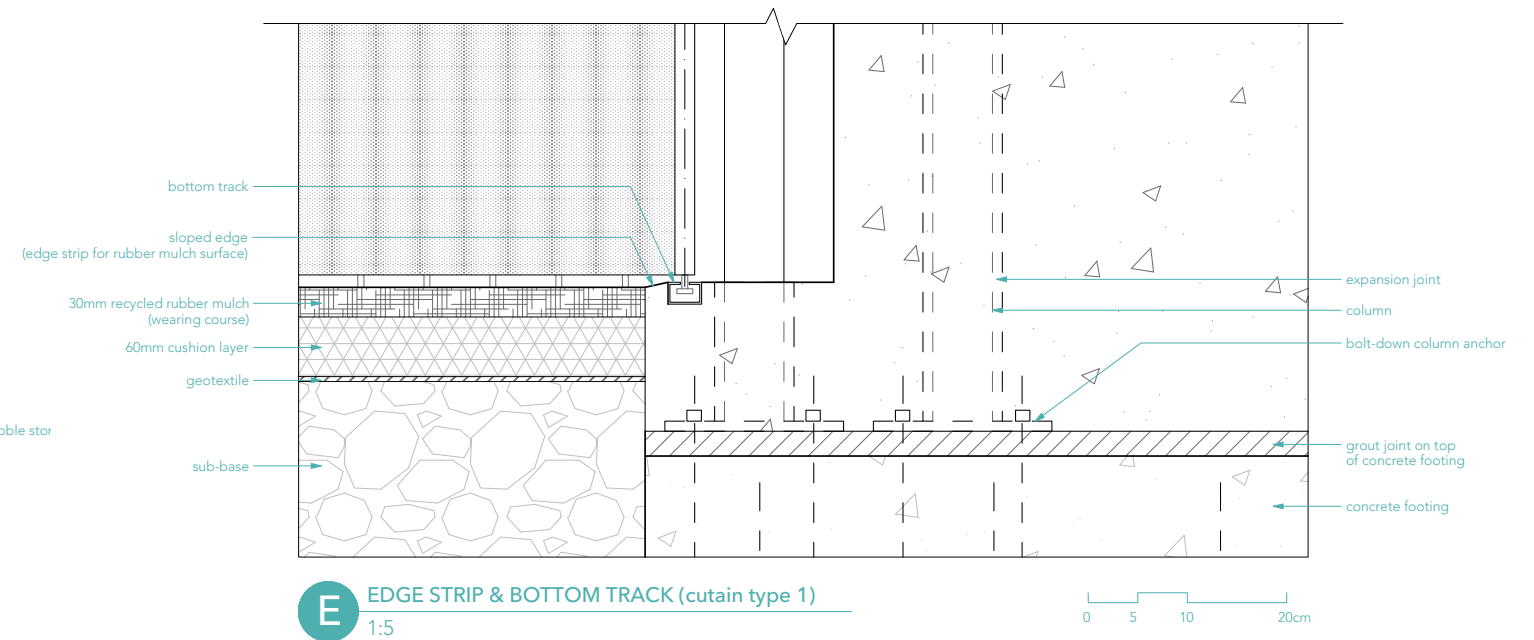
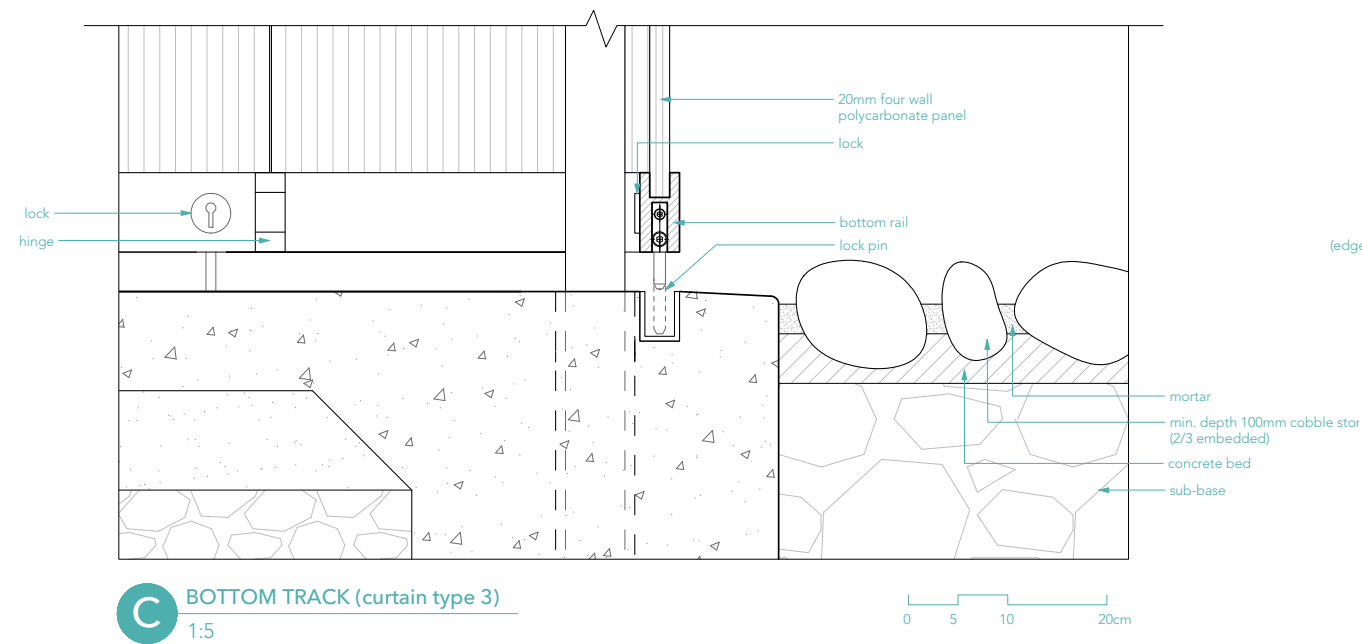
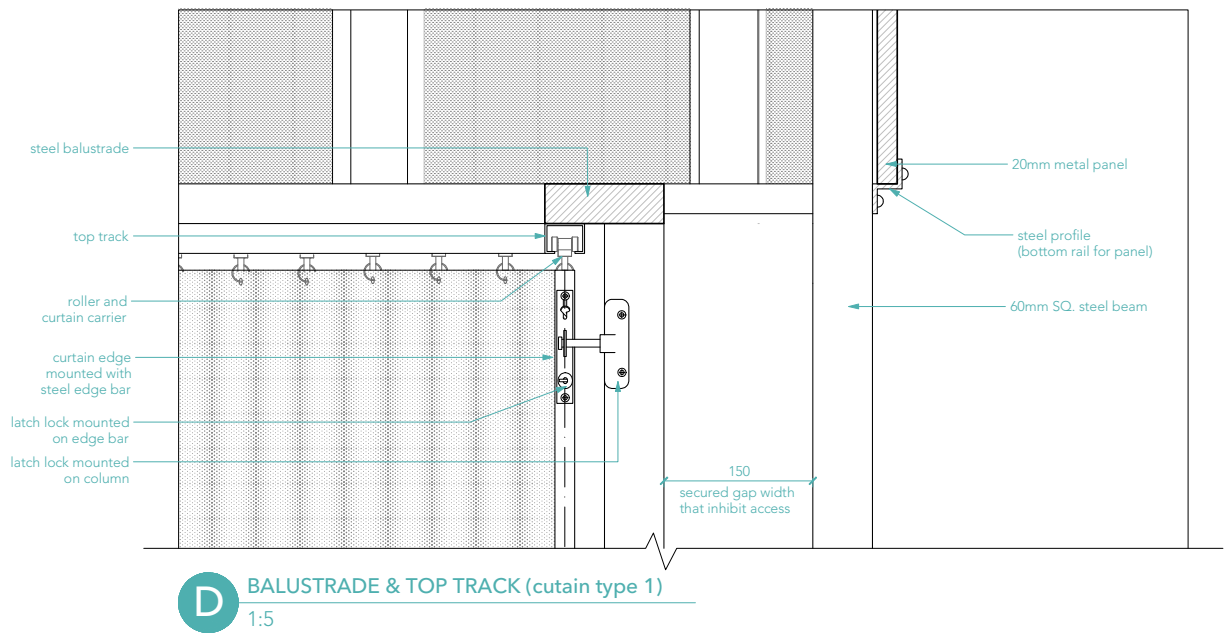
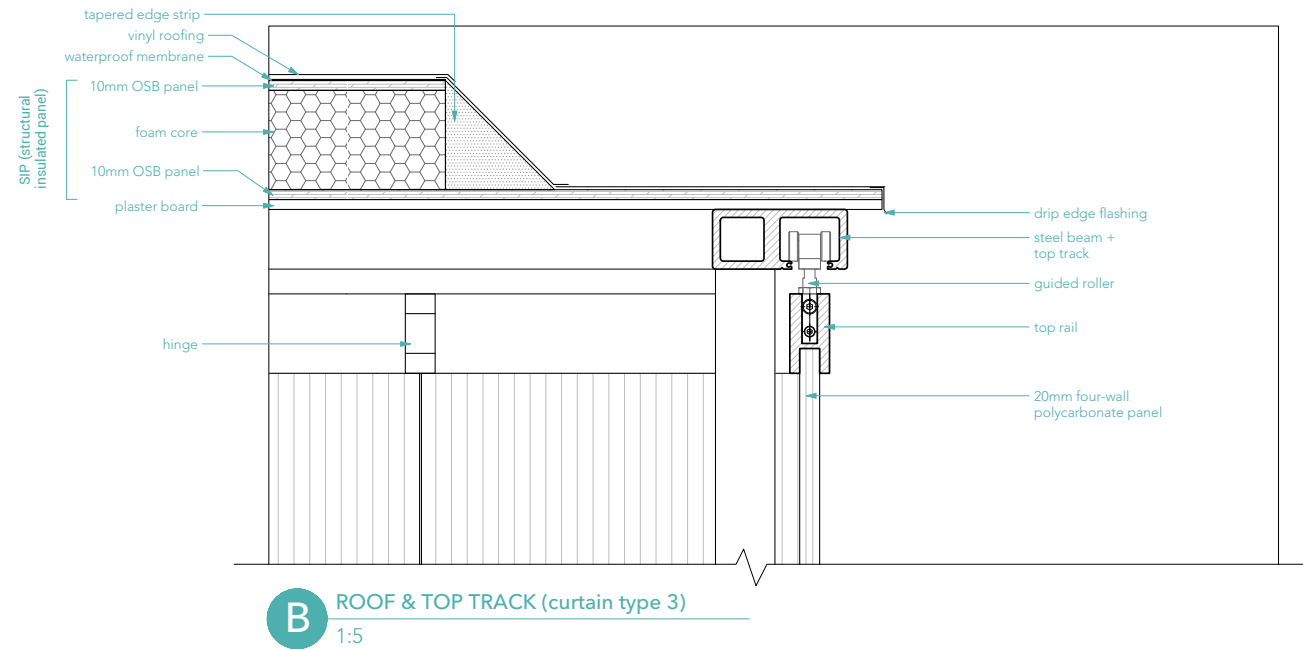


suspended contact



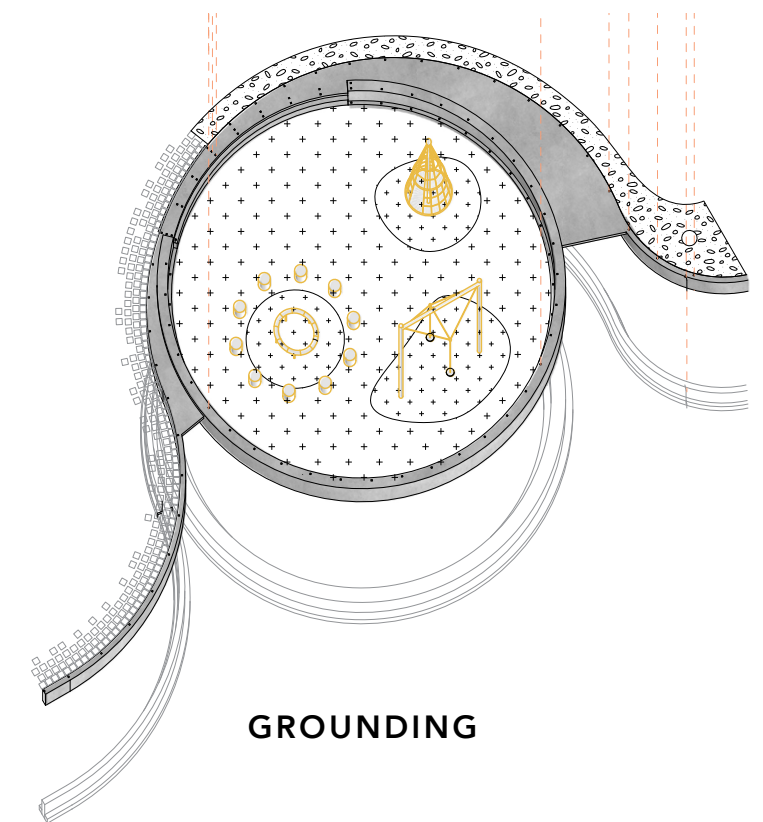
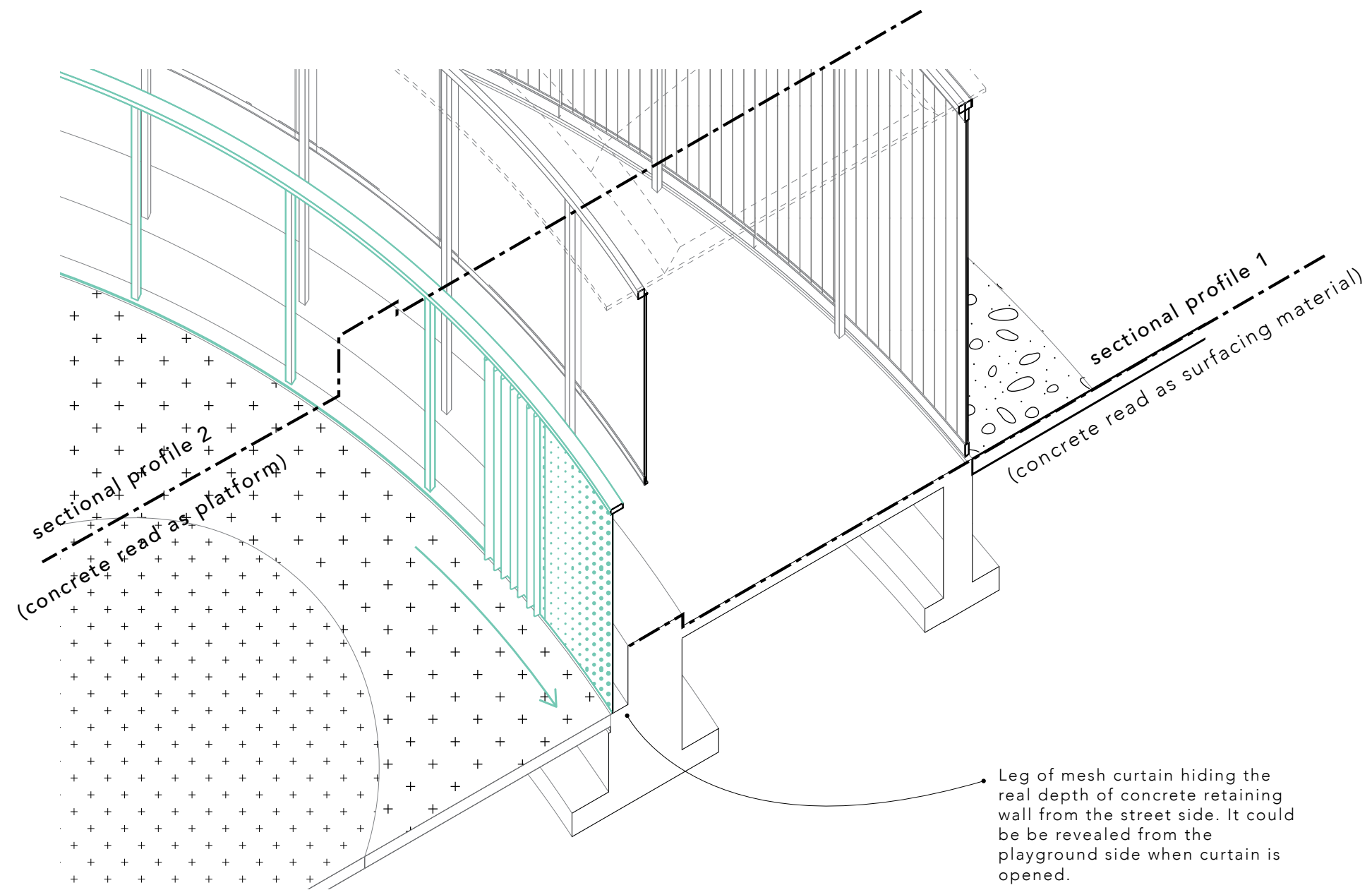


CURTAIN LAYERS

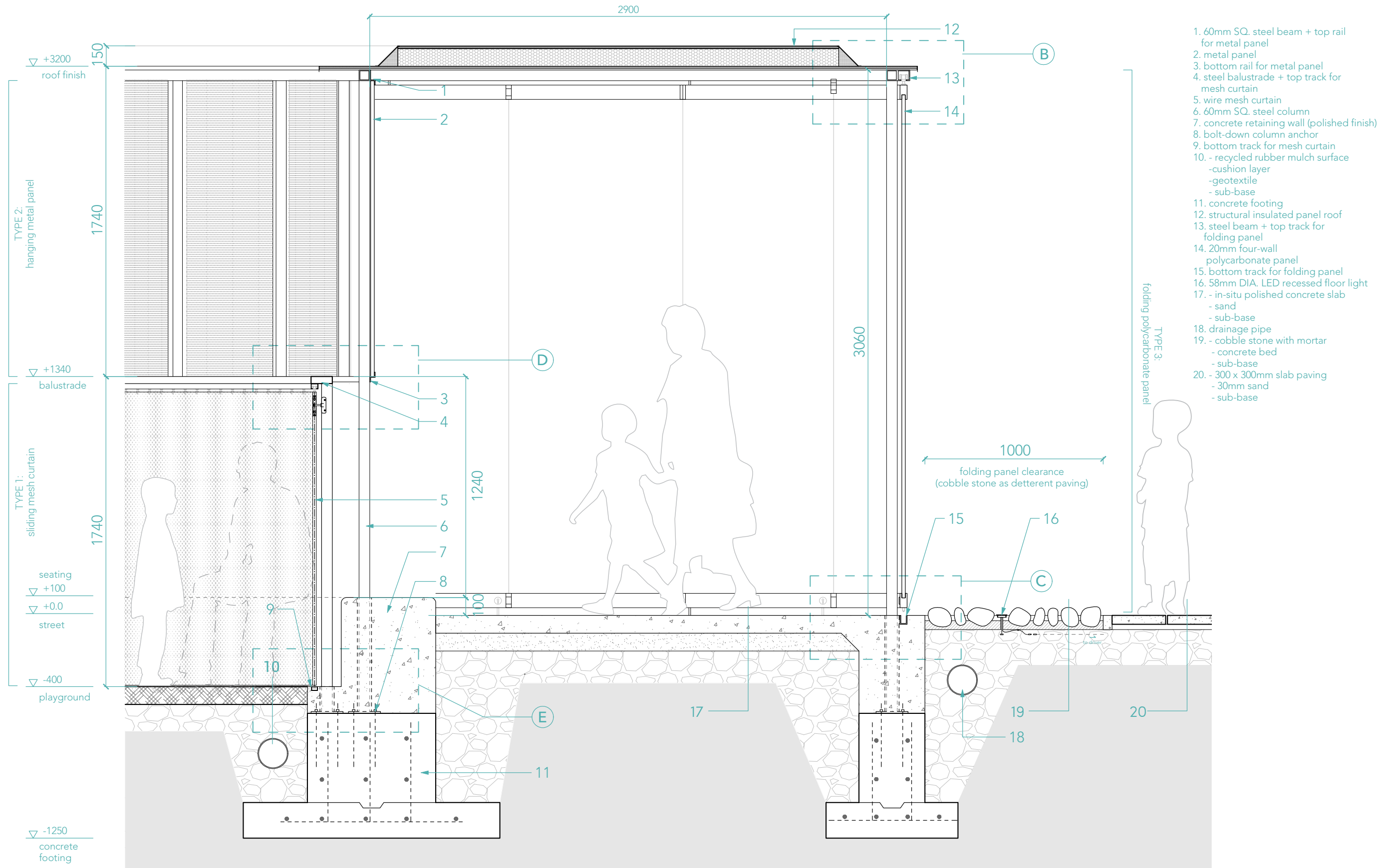


DETAILS

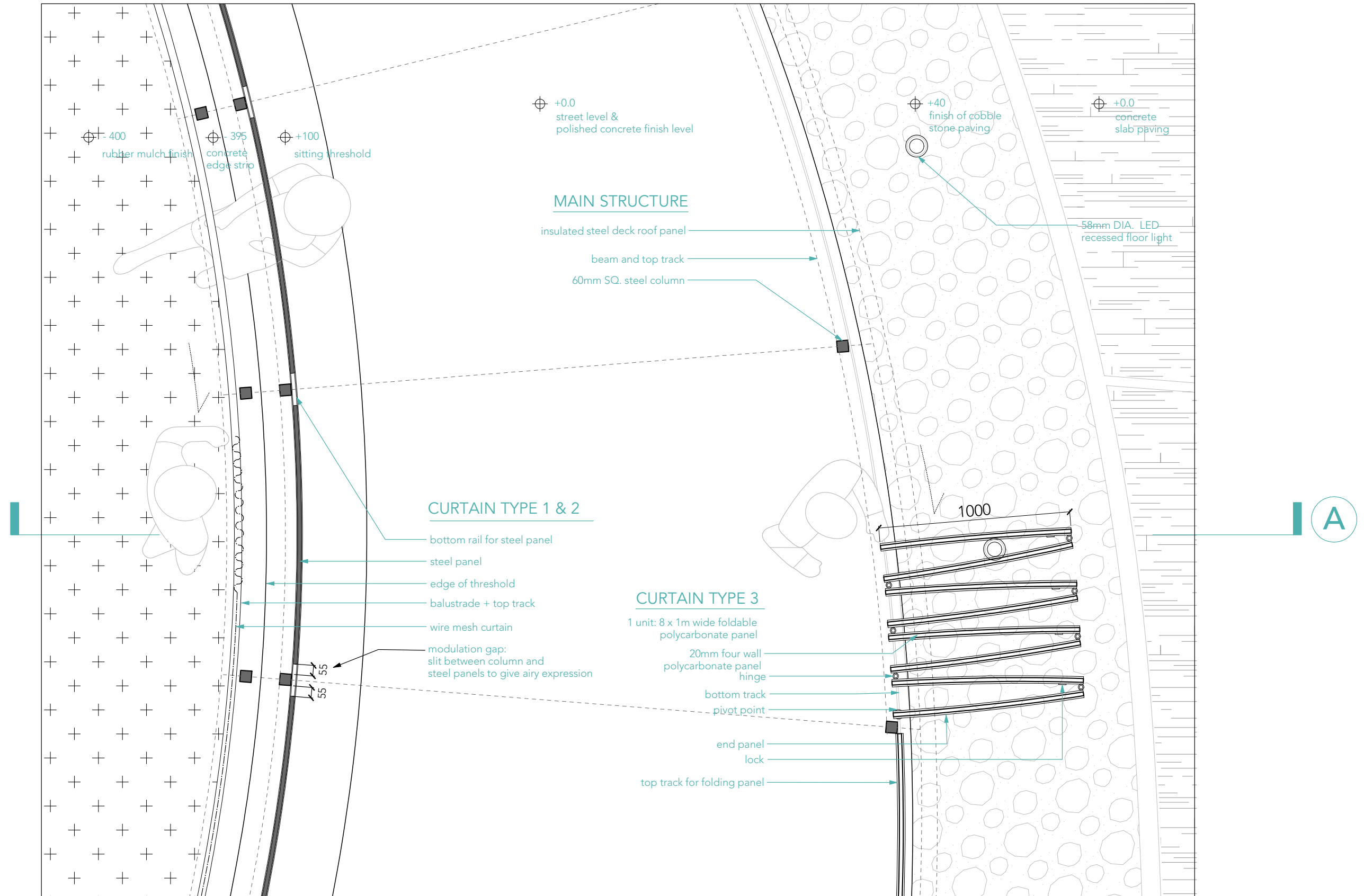
- Curtain Mechanisms -



- 03 INTERVENTION -



- 03 INTERVENTION -



- 03 INTERVENTION -

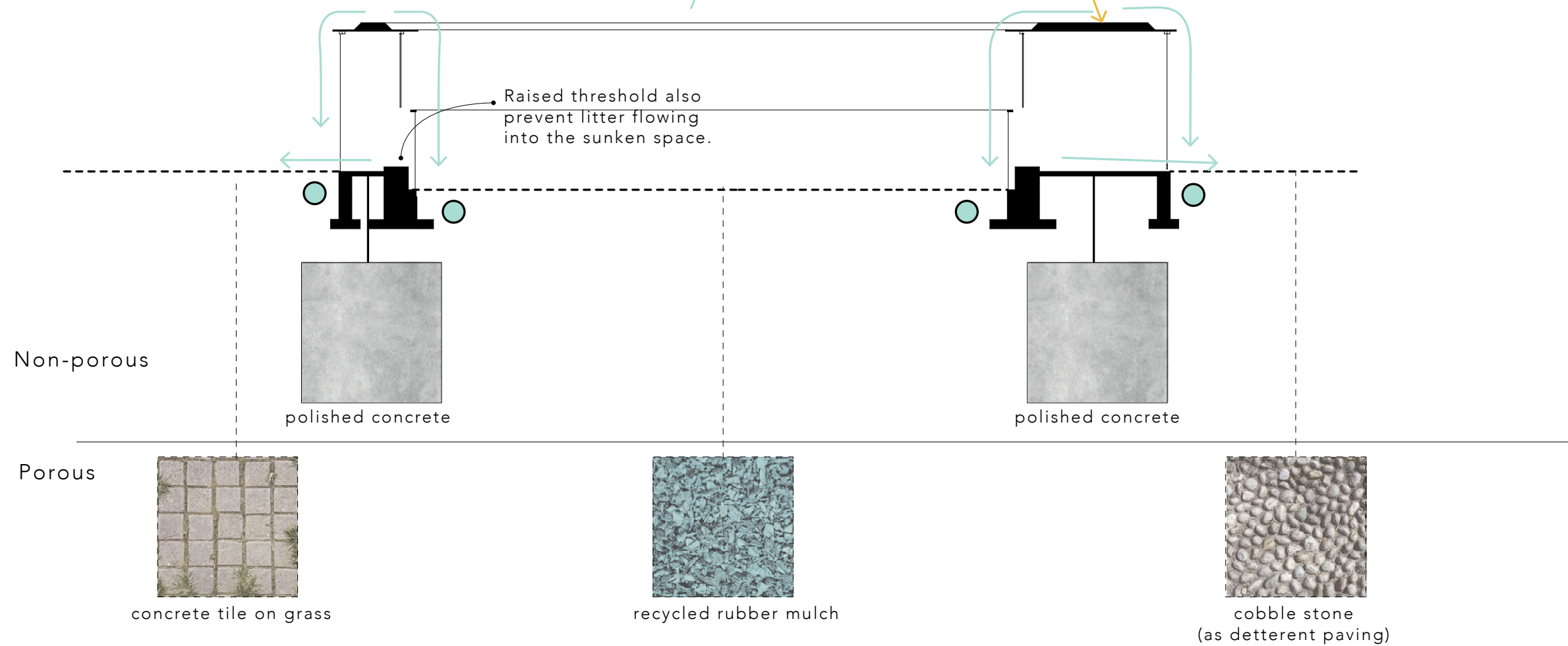
Rainwater:

The flooring of the interlayers are polished concrete surface, which makes it water repellant. Surface is sloped outwards to drain in an opposite direction from the sunken playground.

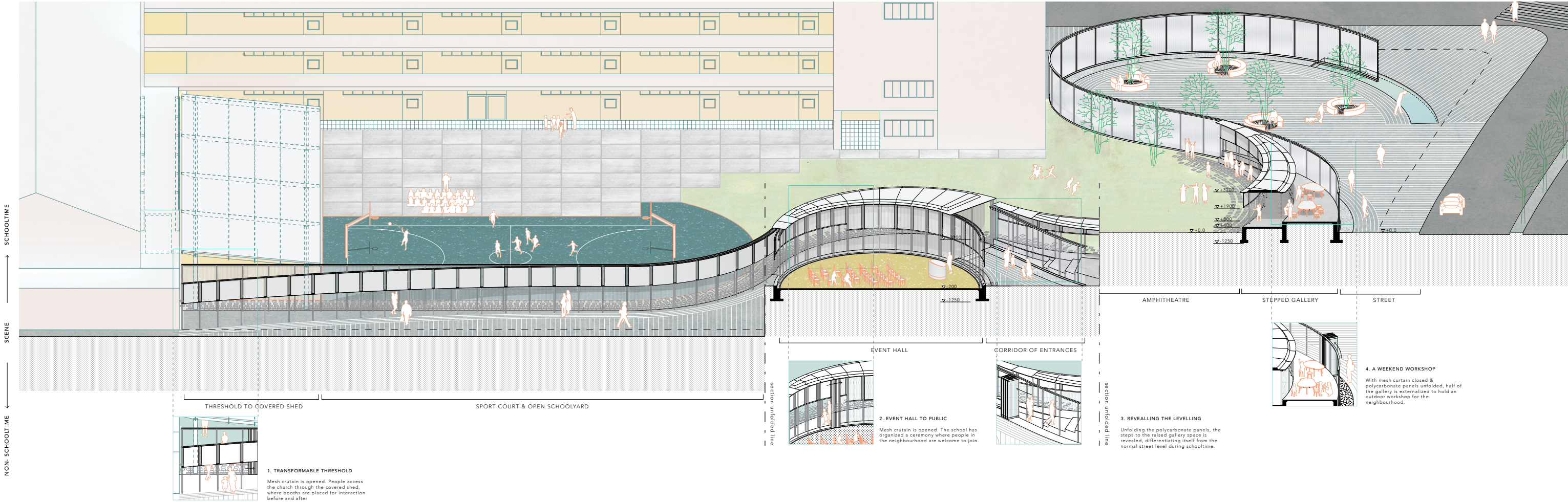


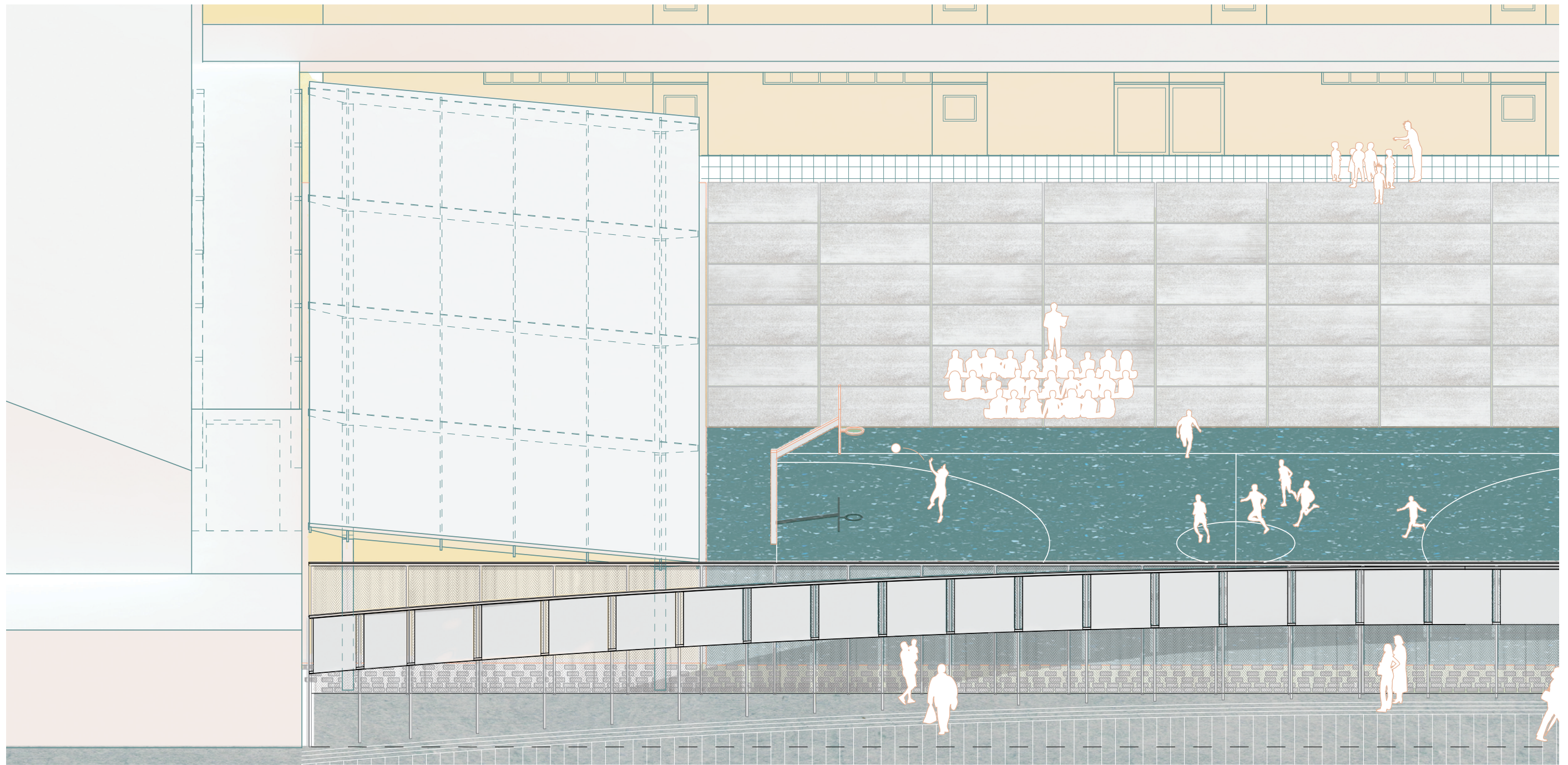
Solar heat gain:
To prevent getting the interlayer space over-heated
1. wiremesh helps to reduce solar heat gain.

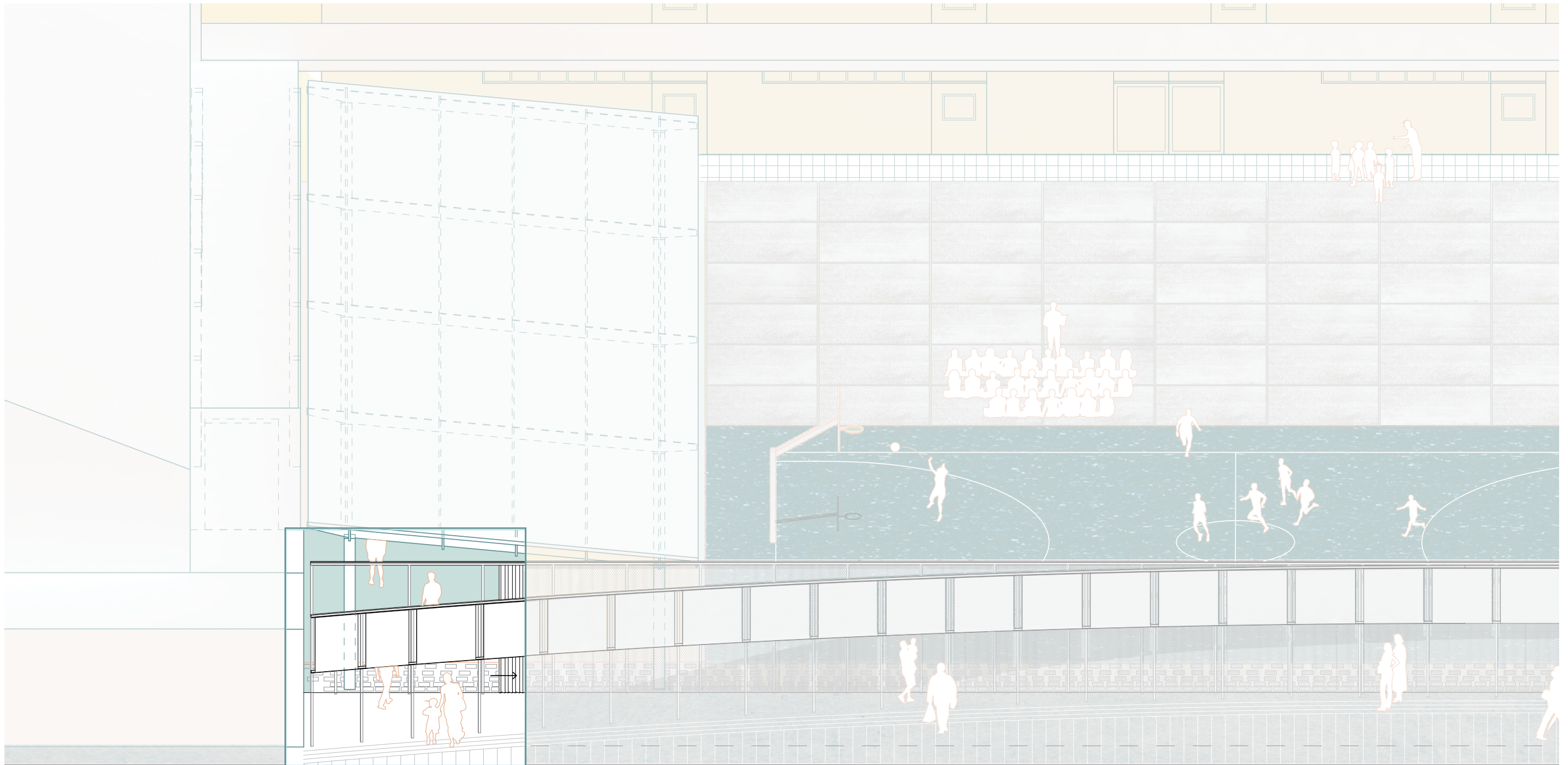
2. SIP panels are used to give insulation as well as structural support for light-weight roof construction.



- 03 INTERVENTION -

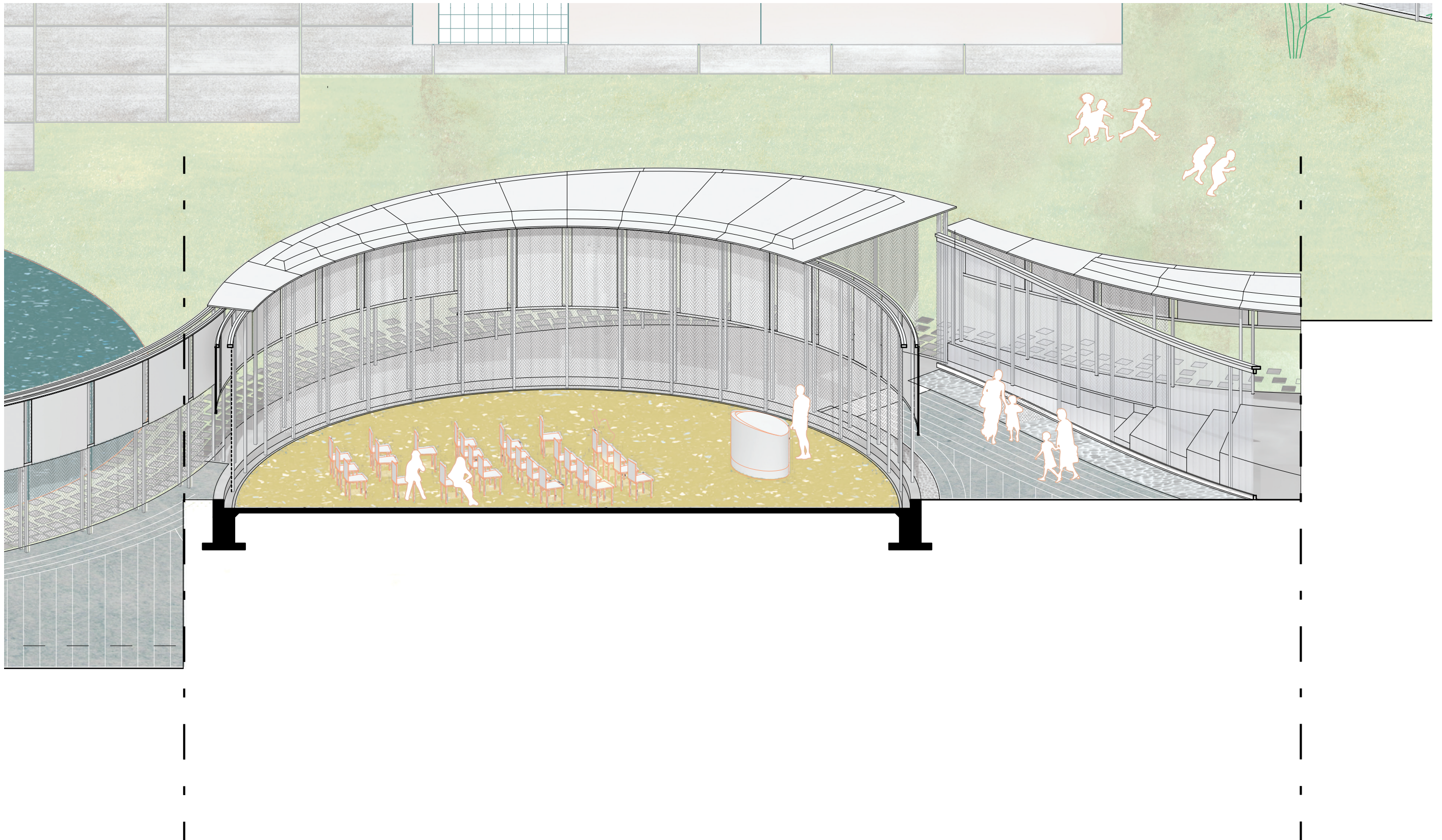


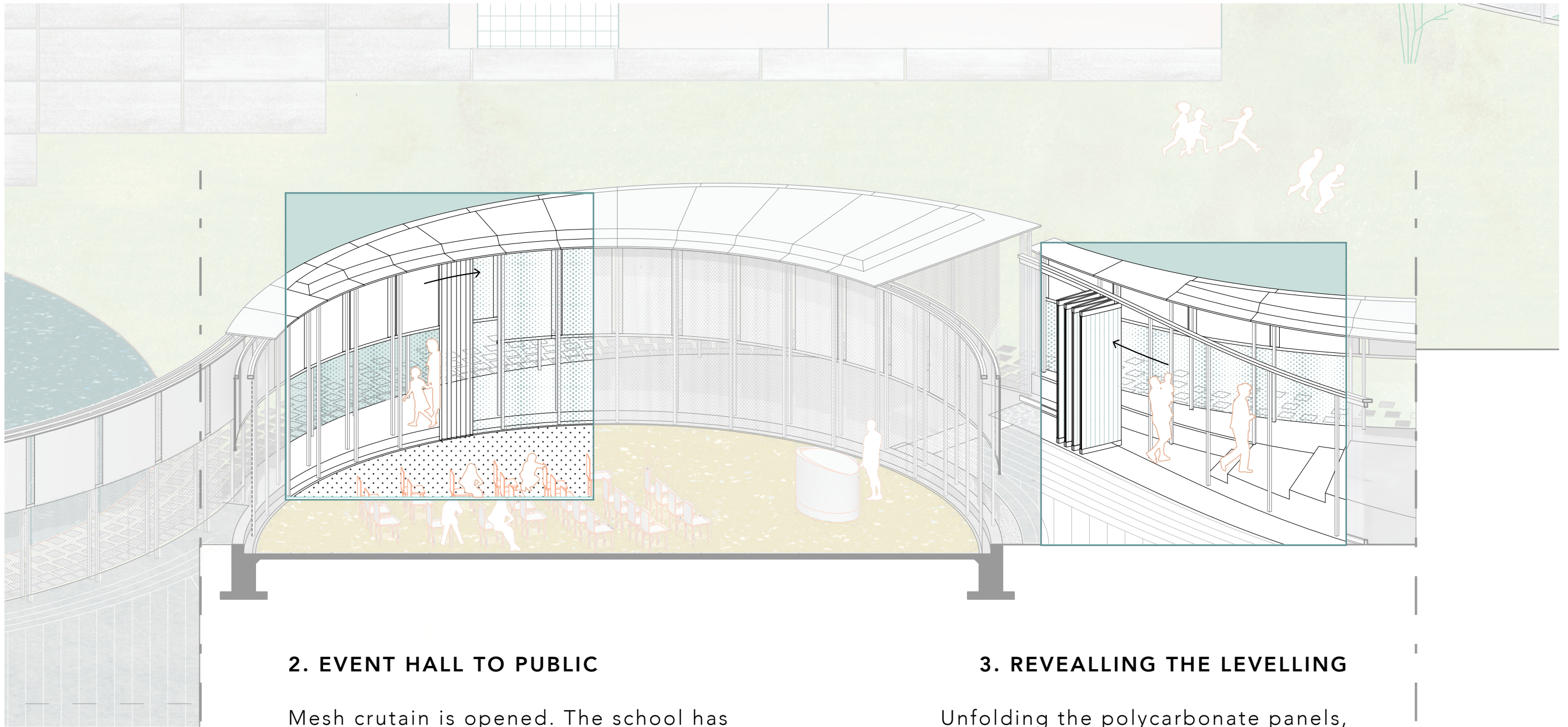




1. TRANSFORMABLE THRESHOLD

Mesh curtain is opened. People access the church through the covered shed, where booths are placed for interaction before and after



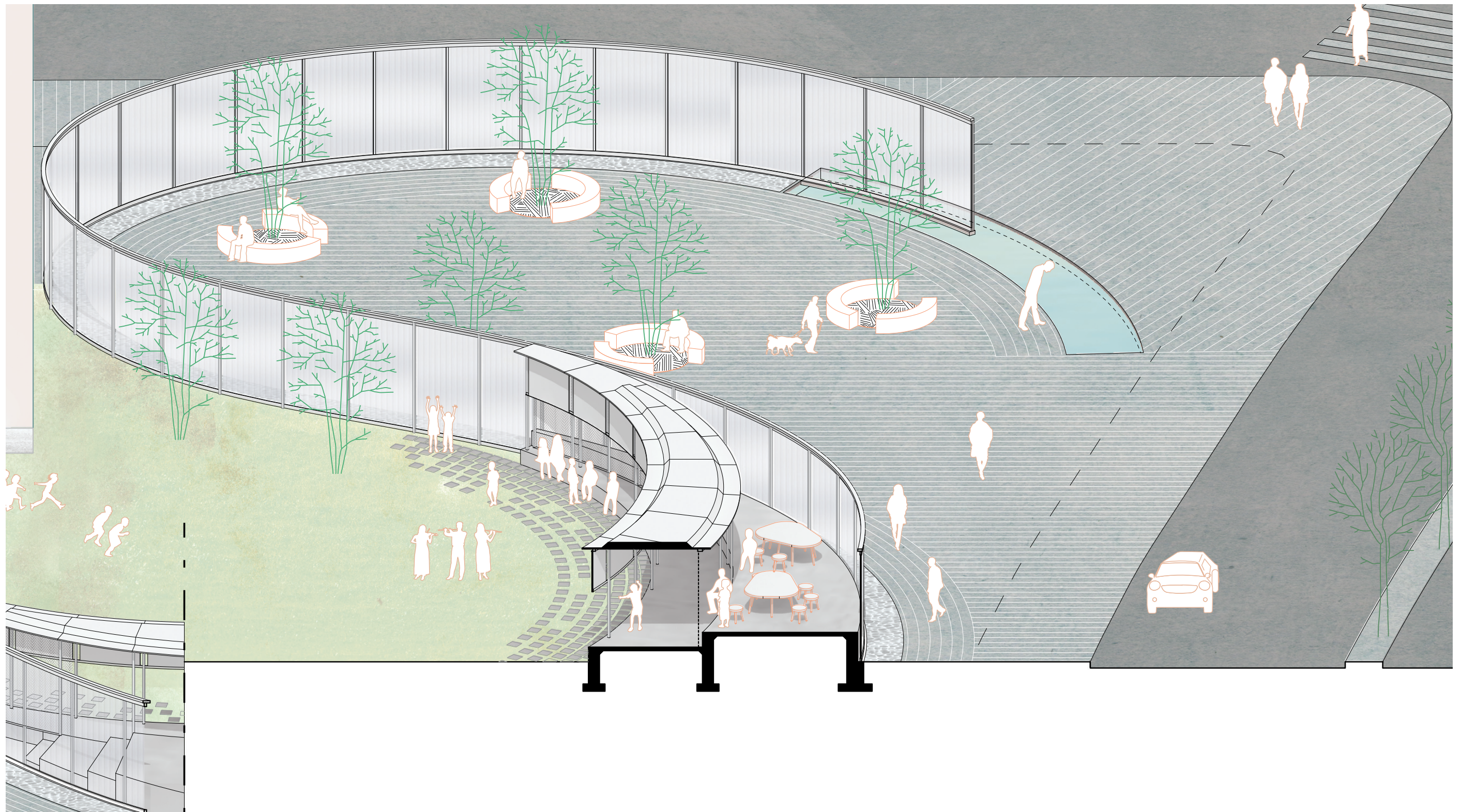


2. EVENT HALL TO PUBLIC

Mesh curtain is opened. The school has organized a ceremony where people in the neighbourhood are welcome to join.

3. REVEALLING THE LEVELLING

Unfolding the polycarbonate panels, the steps to the raised gallery space is revealed, differentiating itself from the normal street level during schooltime.



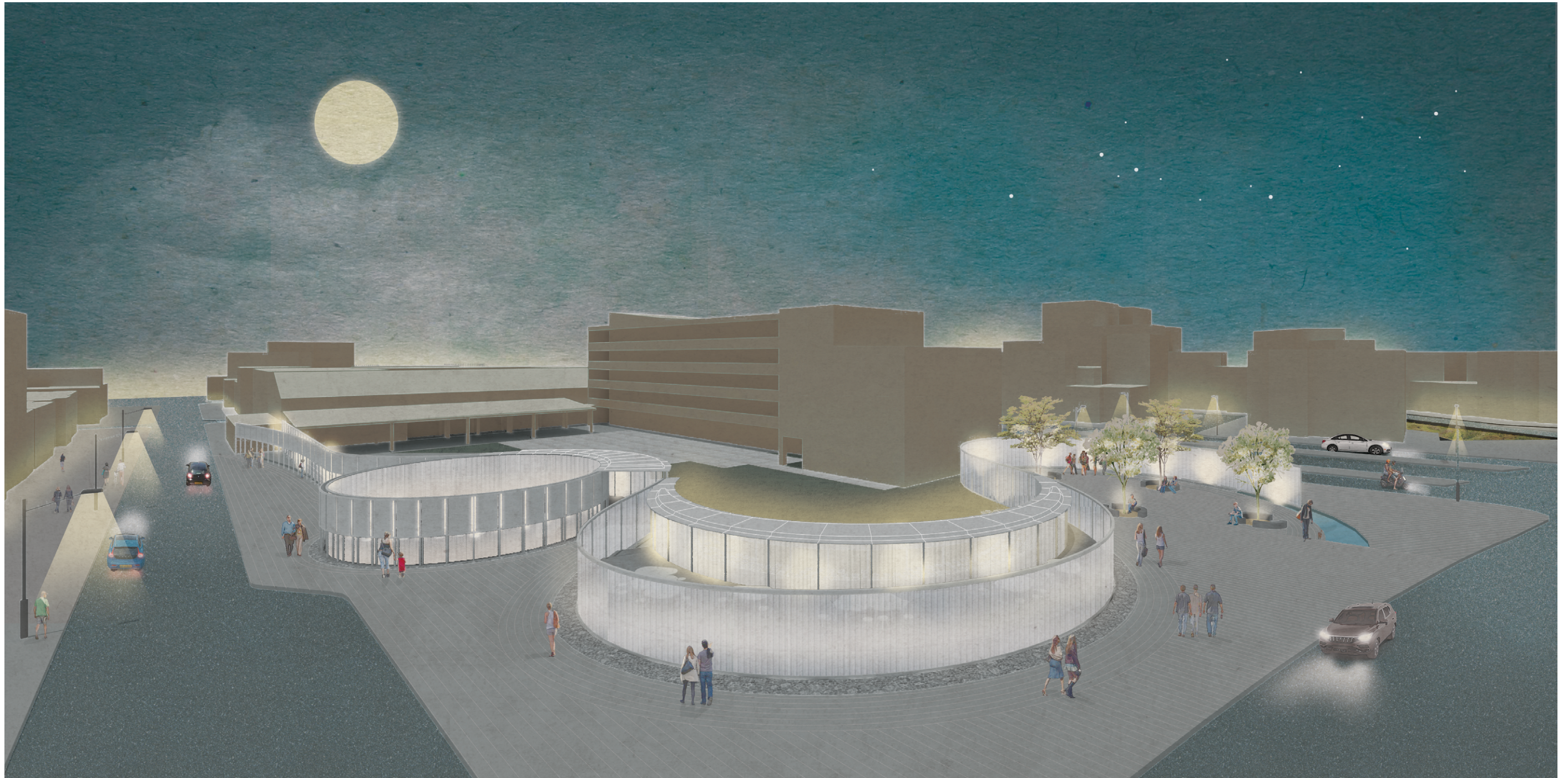


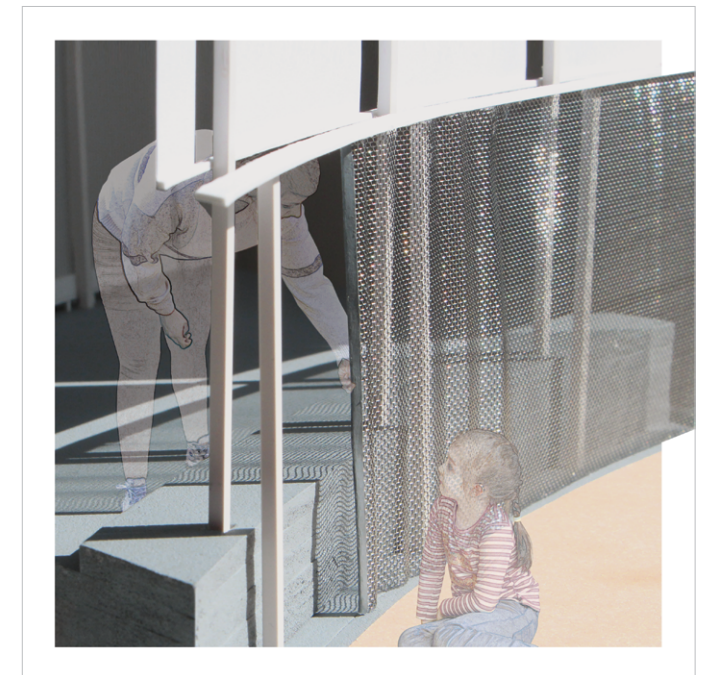
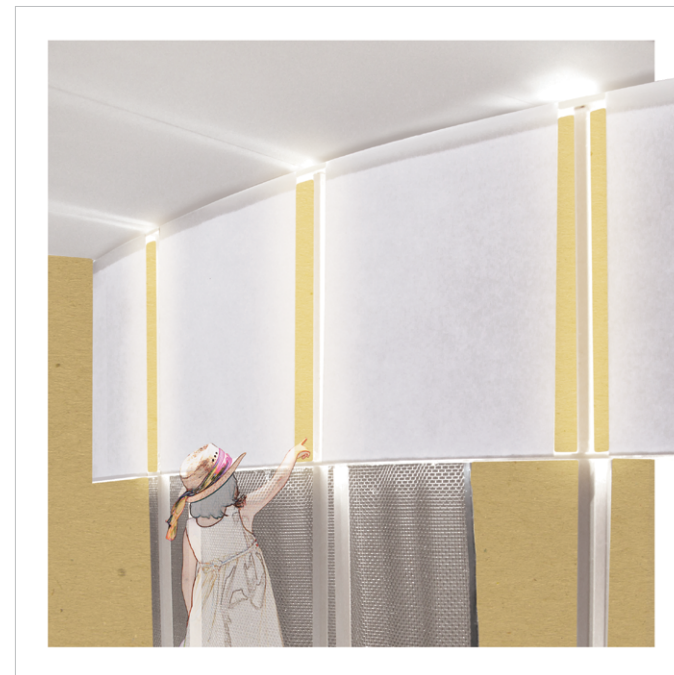
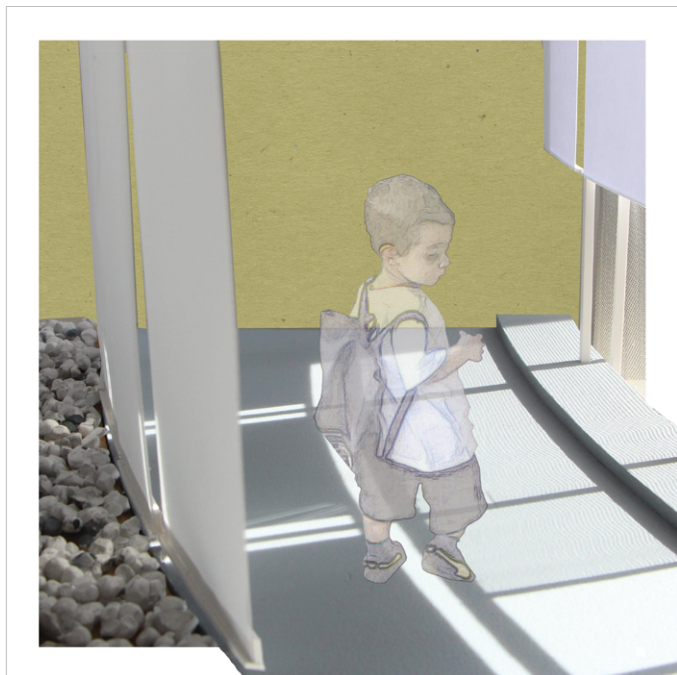
4. A WEEKEND WORKSHOP

With mesh curtain closed & polycarbonate panels unfolded, half of the gallery is externalized to hold an outdoor workshop for the neighbourhood.



While solid wall is primarily built for security, the urban curtain is built to **activate urban life** around it.



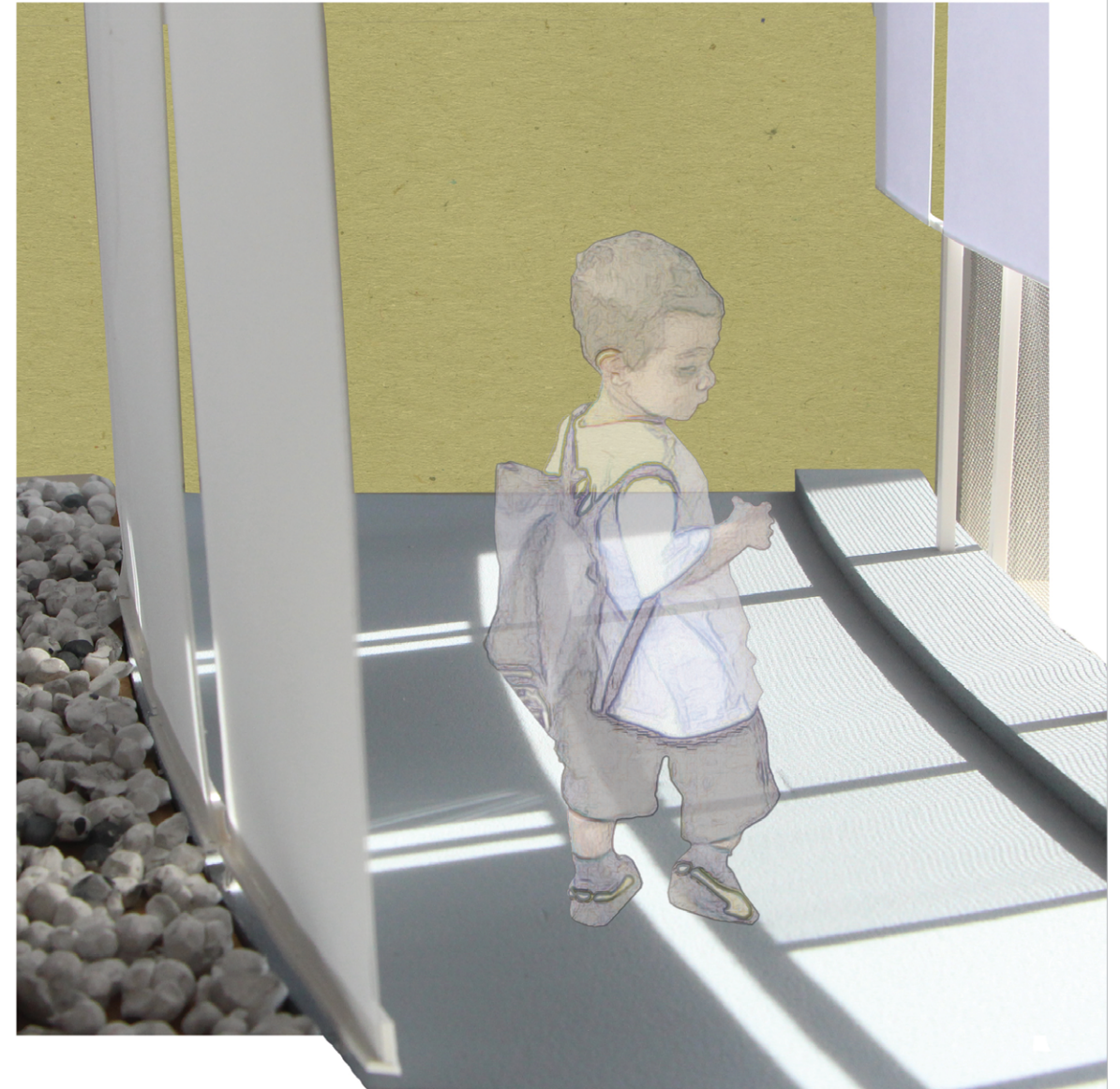


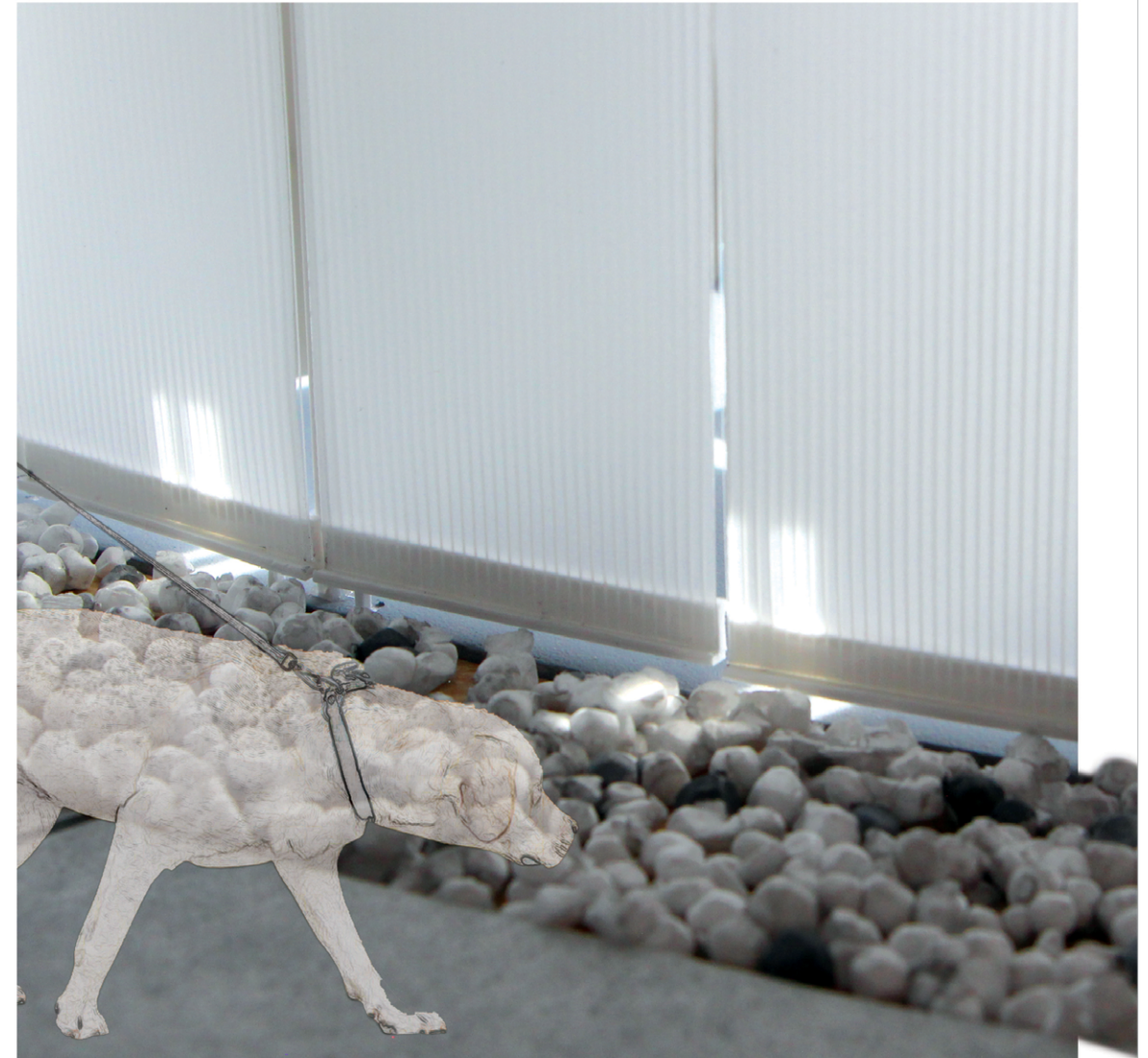
Moments of Ephemeral Beauty and Happiness



THE SHADOW

Walking along the school boundary, the kid notices the pattern and texture of shadow, making his journey a game to walk according to the rhythmic map of shadow.

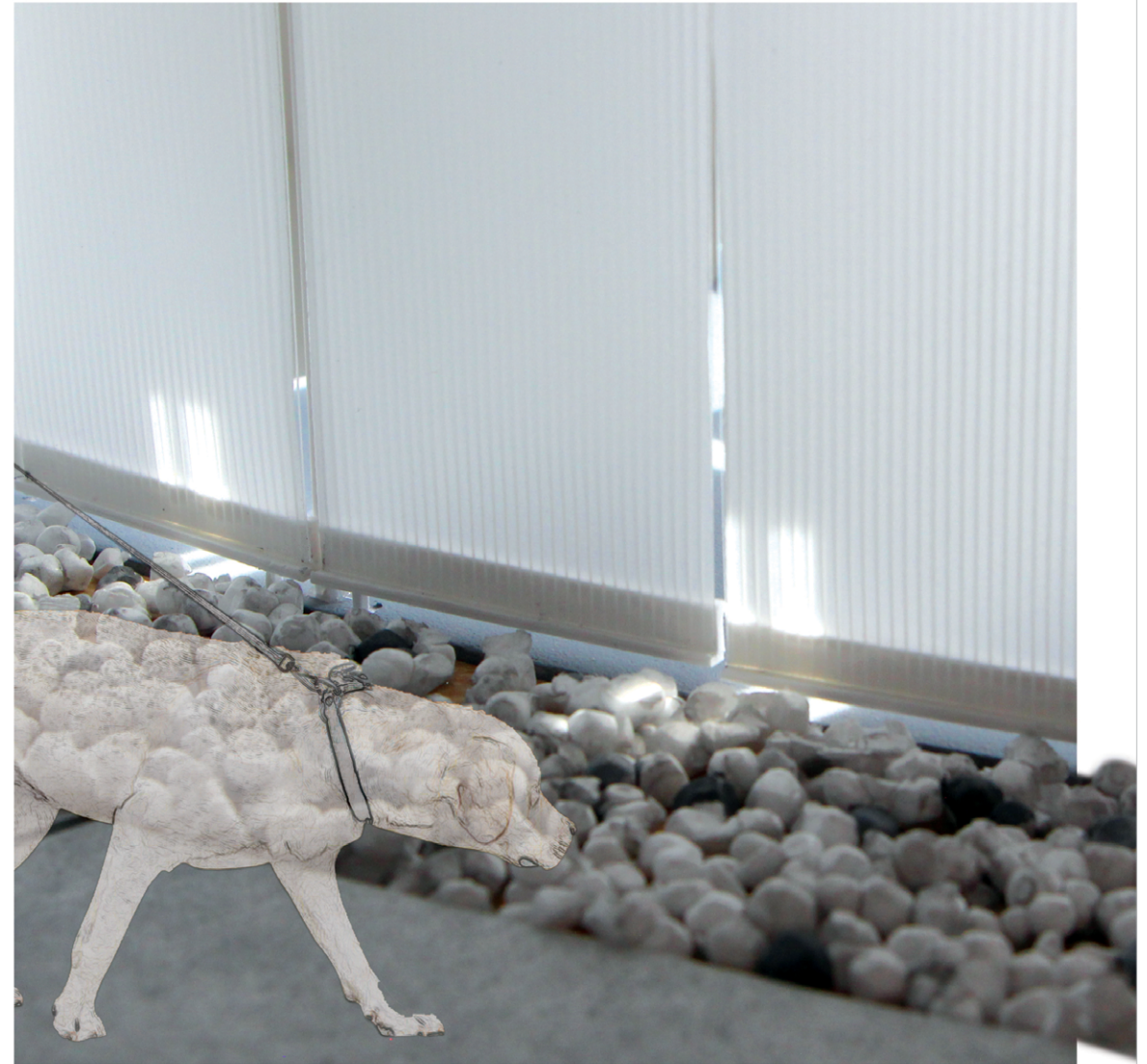




THE SUSPENDED

Lifted up from the ground, the segmented panels invite the sunlight to flow through its gaps.

Drops of sunlight are spilled onto the cobble stones, making the panels look even lighter and thinner than they are.

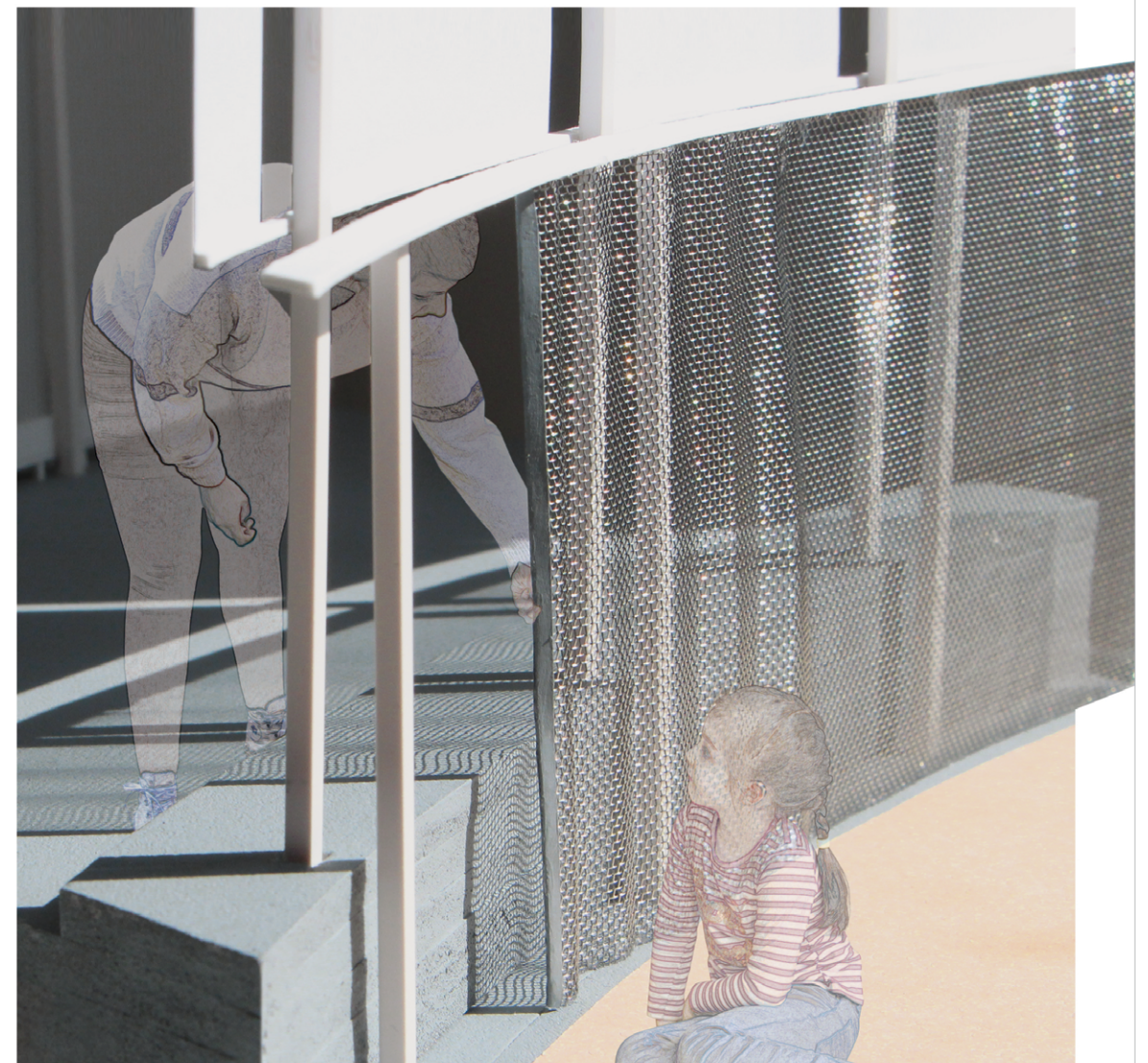




THE SEAMS

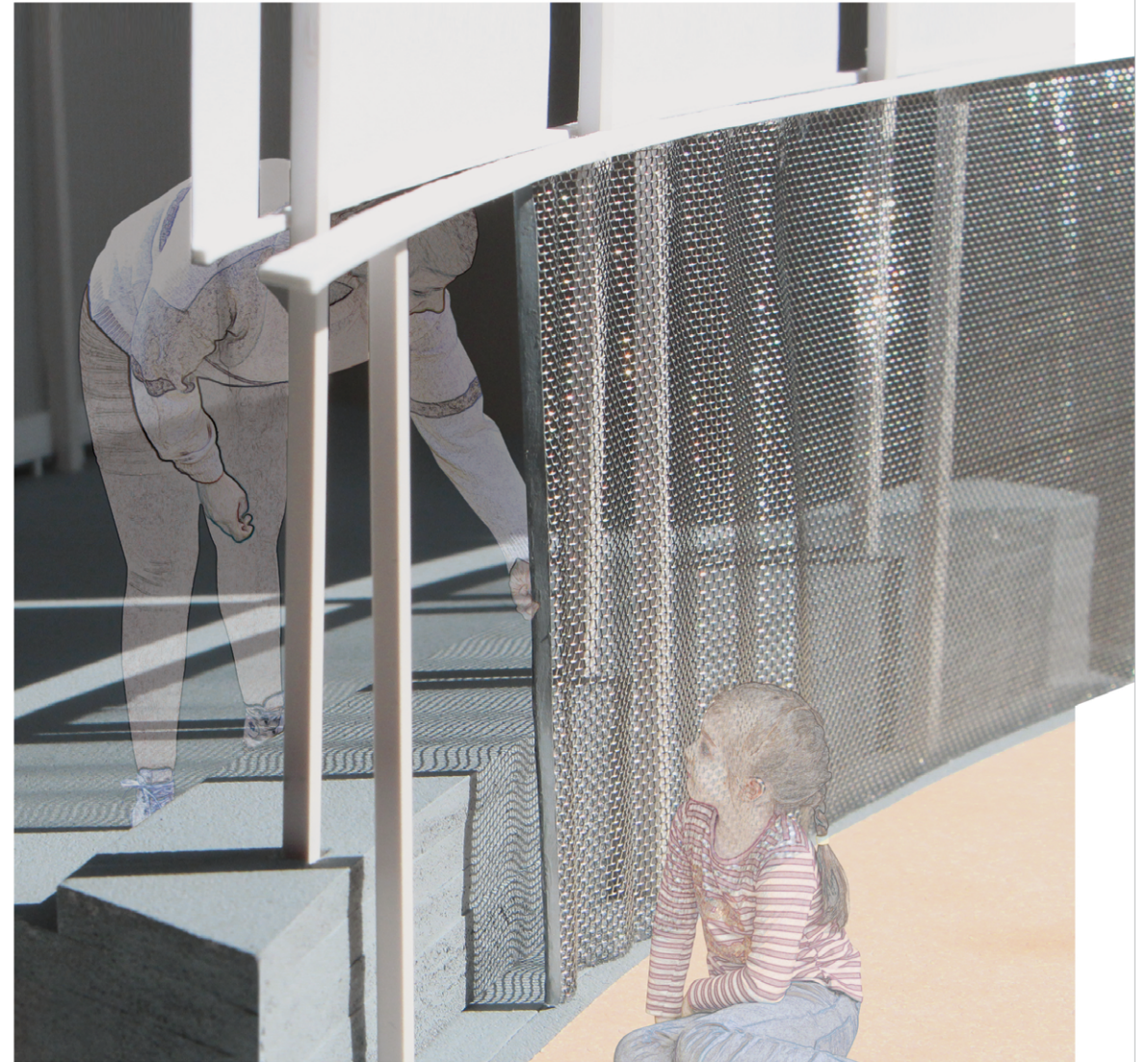
Her eyes of wonder scan through the curtain and land on the glowing seams, which allow a peek into the outside world, that is usually masked by a solid construction of fear and anxiety.



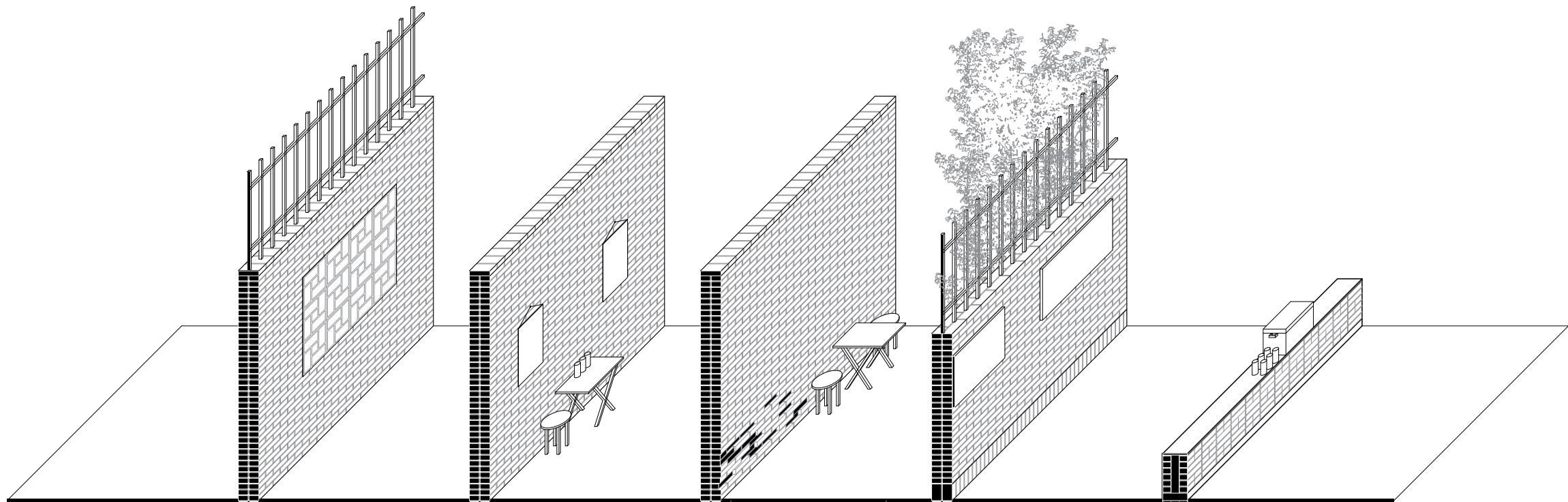


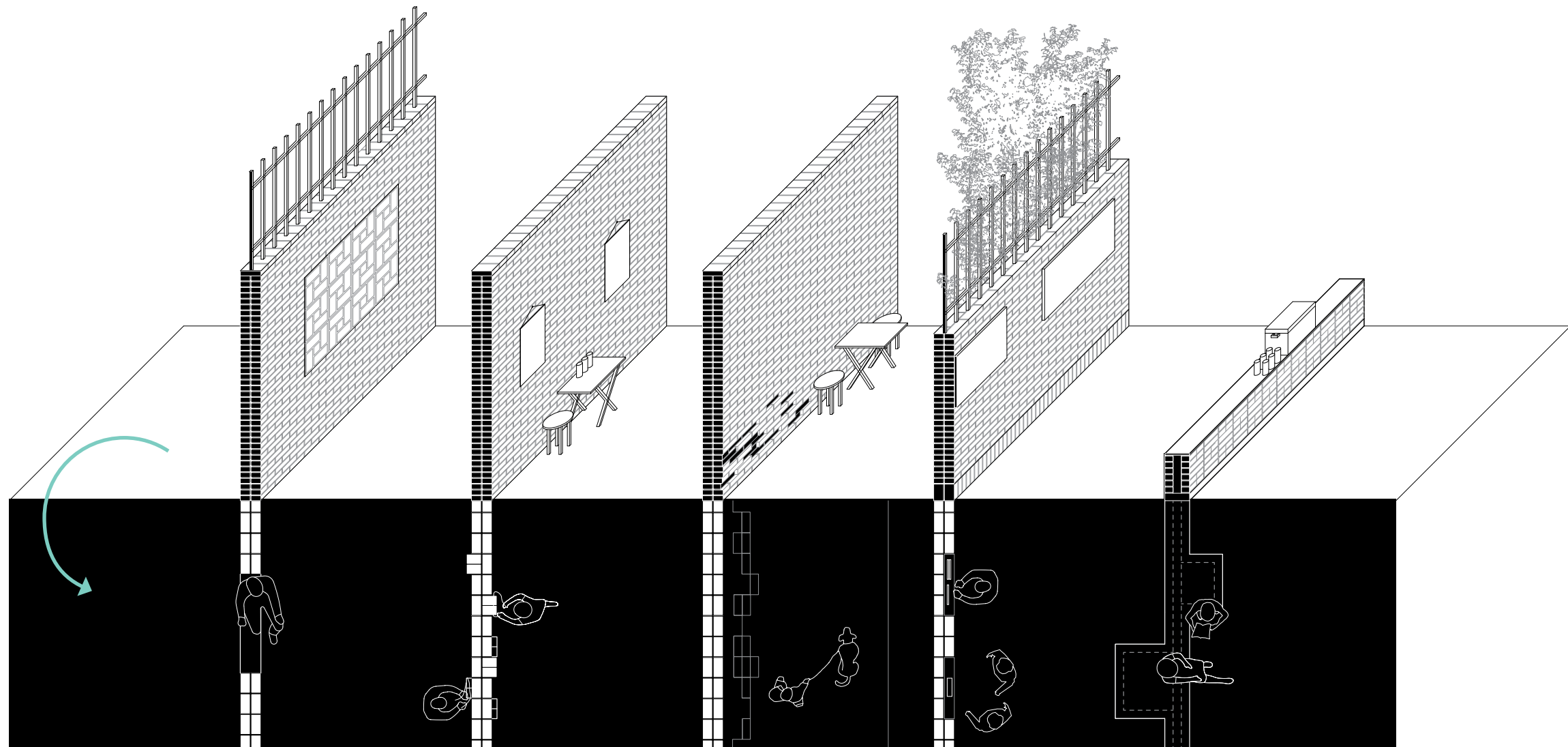
THE TOUCHED

She touches the fence, feeling coldness and stiffness running at her fingertips; She touches the curtain, feeling the impact of her fingers performing as the resilience of the wire mesh.



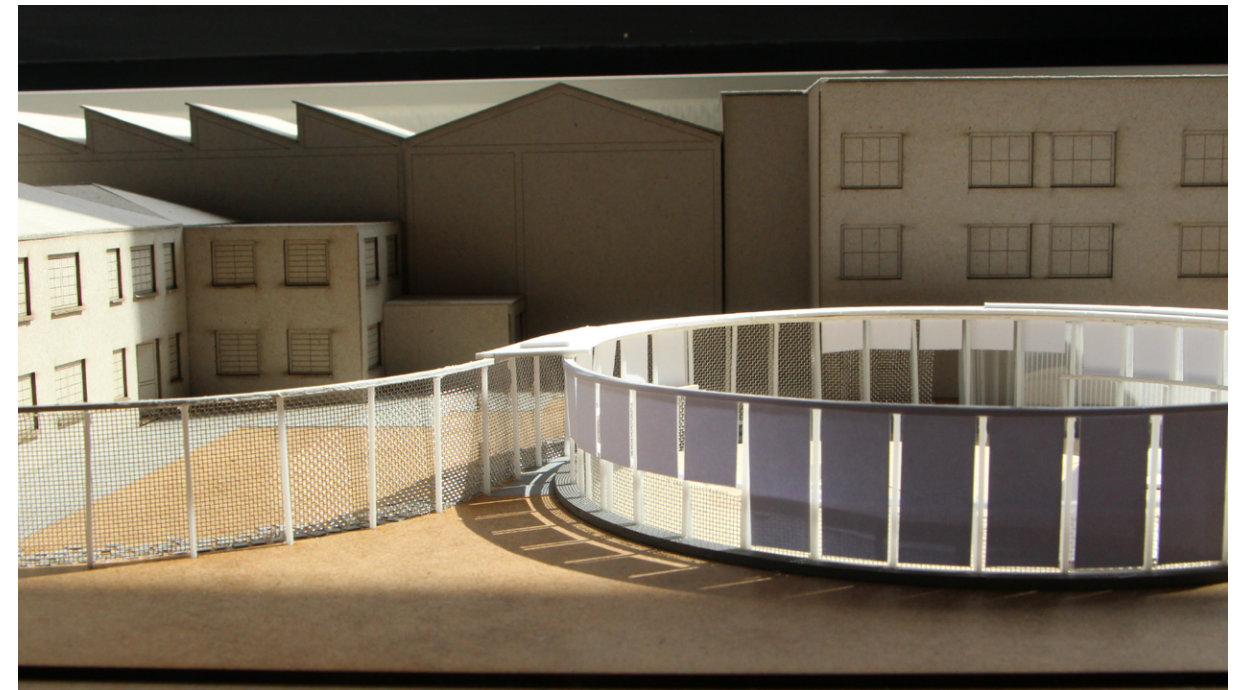
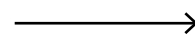
04 REFLECTION: THE 'WAND-NESS' OF WALL







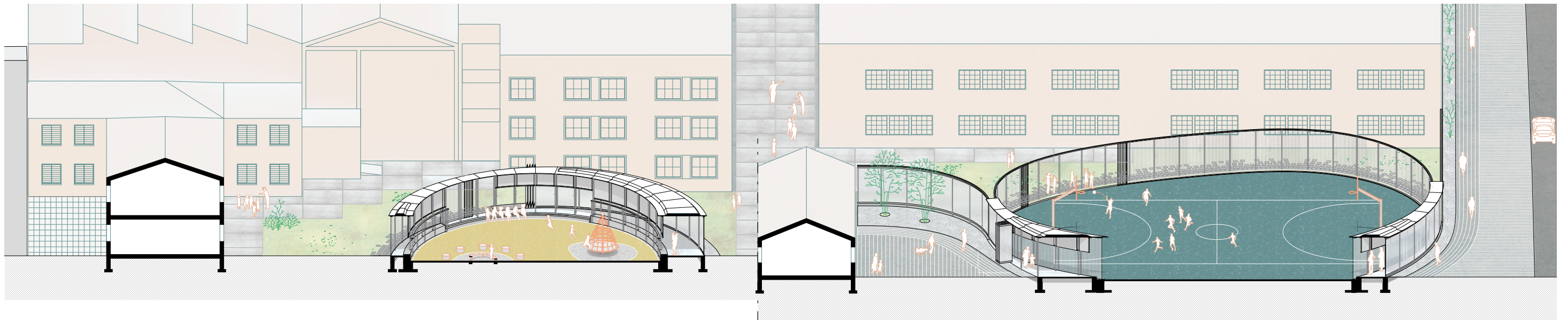
beutifying the school wall



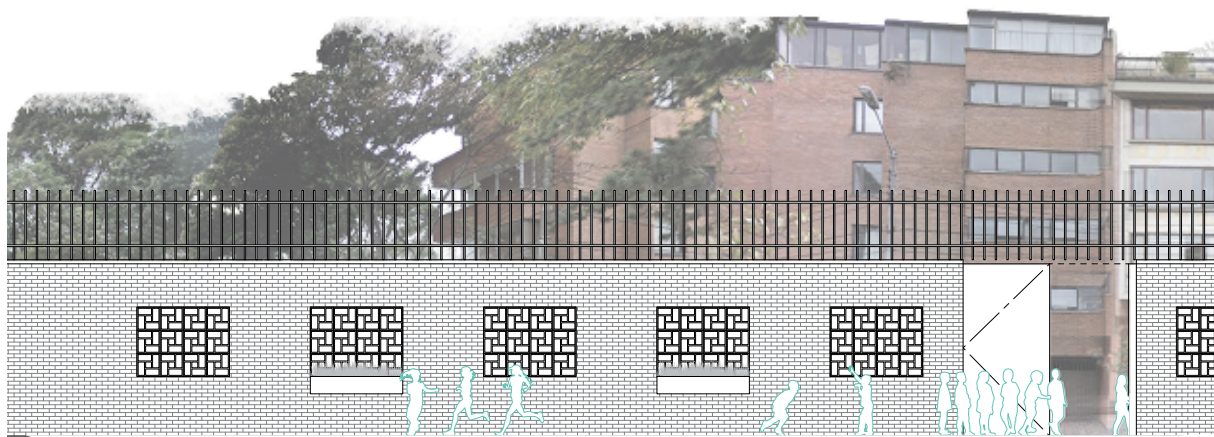
rethinking the performative value of a 'wall'

*Unlocked by 'wand-ness' of wall,
evoking the search of **meaningfulness** and
integration.*

From a site of separation,
to a site of integration



By operating each layer of curtain, the various
actors would explore their own interpretation of
this ambiguous seam

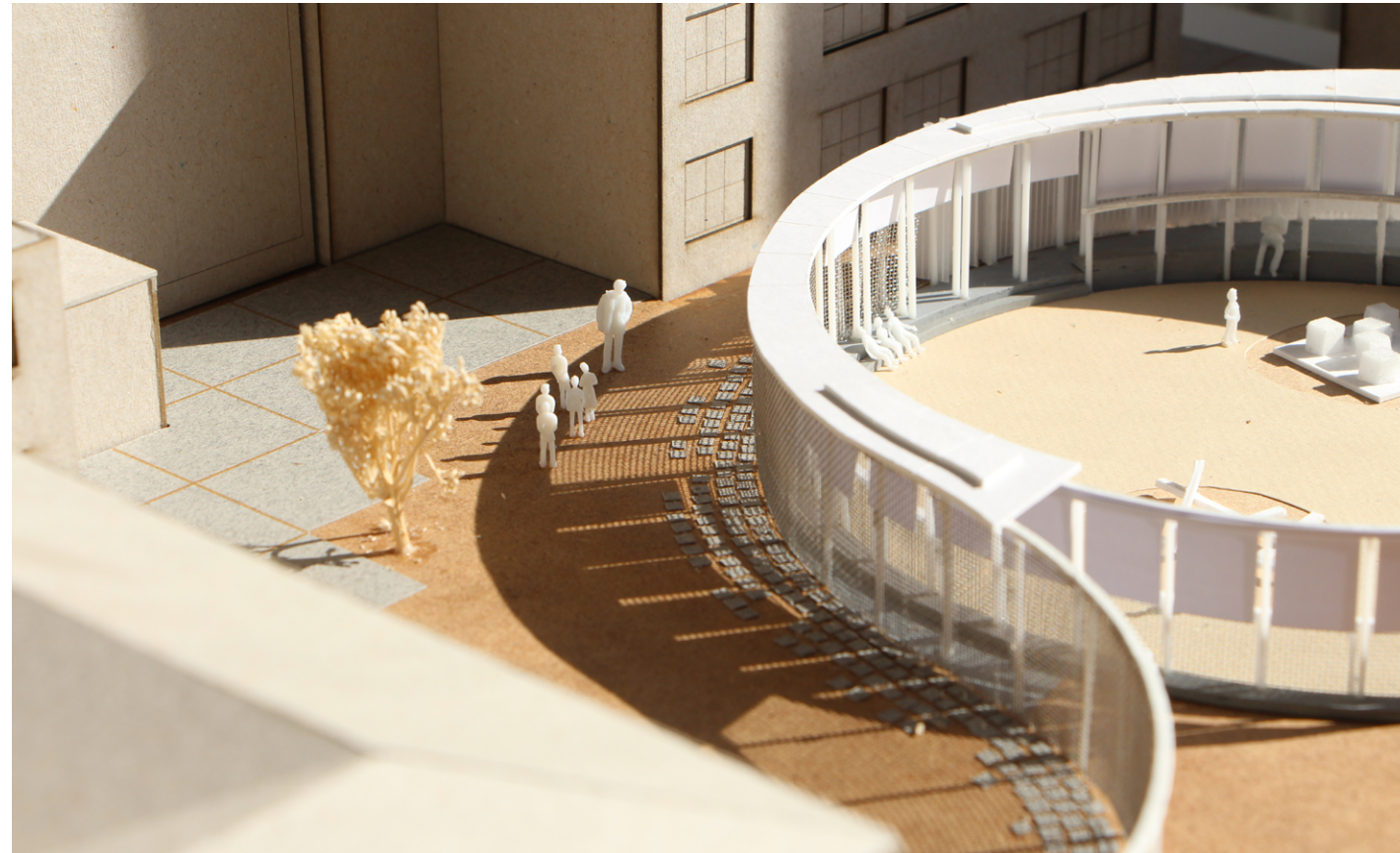


A type of security imposed by school authority



A type of co-operated security

*A currtain that has different meanings to public
and school, and they co-exist.*



*Within this narrow seam between school and street, is an unobvious yet sensitive testing ground that embodies how architect could craft capacity for an **equivocal built environment.***