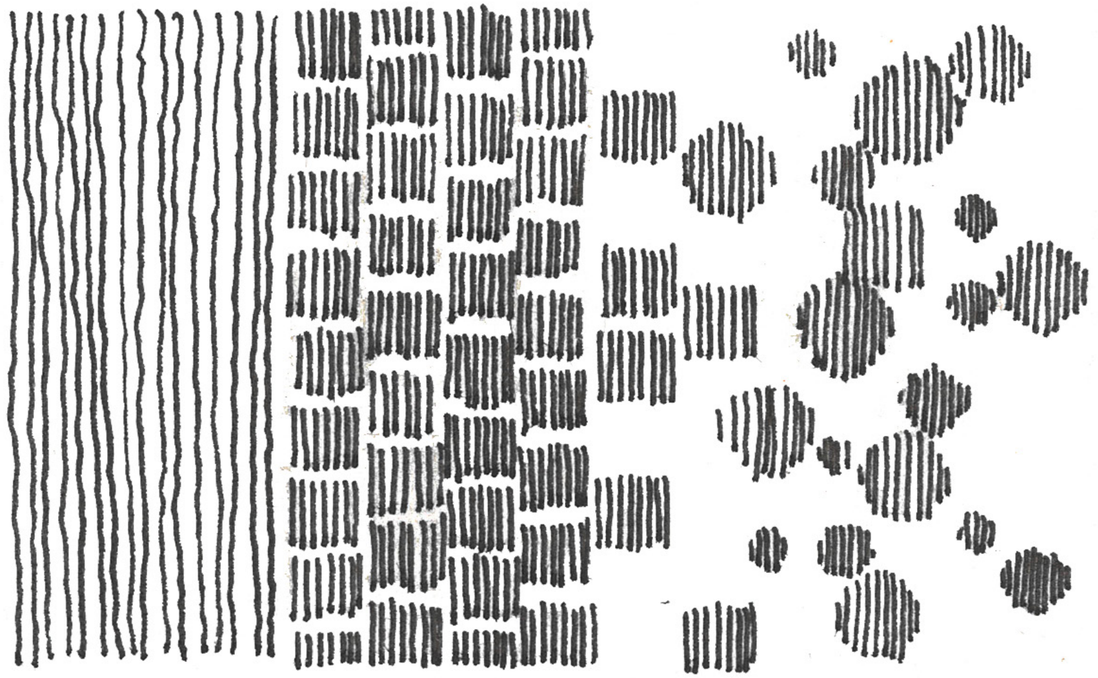

A META-FIELD

THE COEXISTING GROUNDSCAPE IN BETWEEN

Hsuanya Kao | P5 Presentation

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FIELDWORK
The Capacity of the Surface

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Urbanization in Teusaquillo

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Frontyard and Courtyard

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a. the Beauty of Normality
b. the Forming Process and Representation
c. the Heuristic Journey

1

FIELDWORK

The Capacity of the Surface

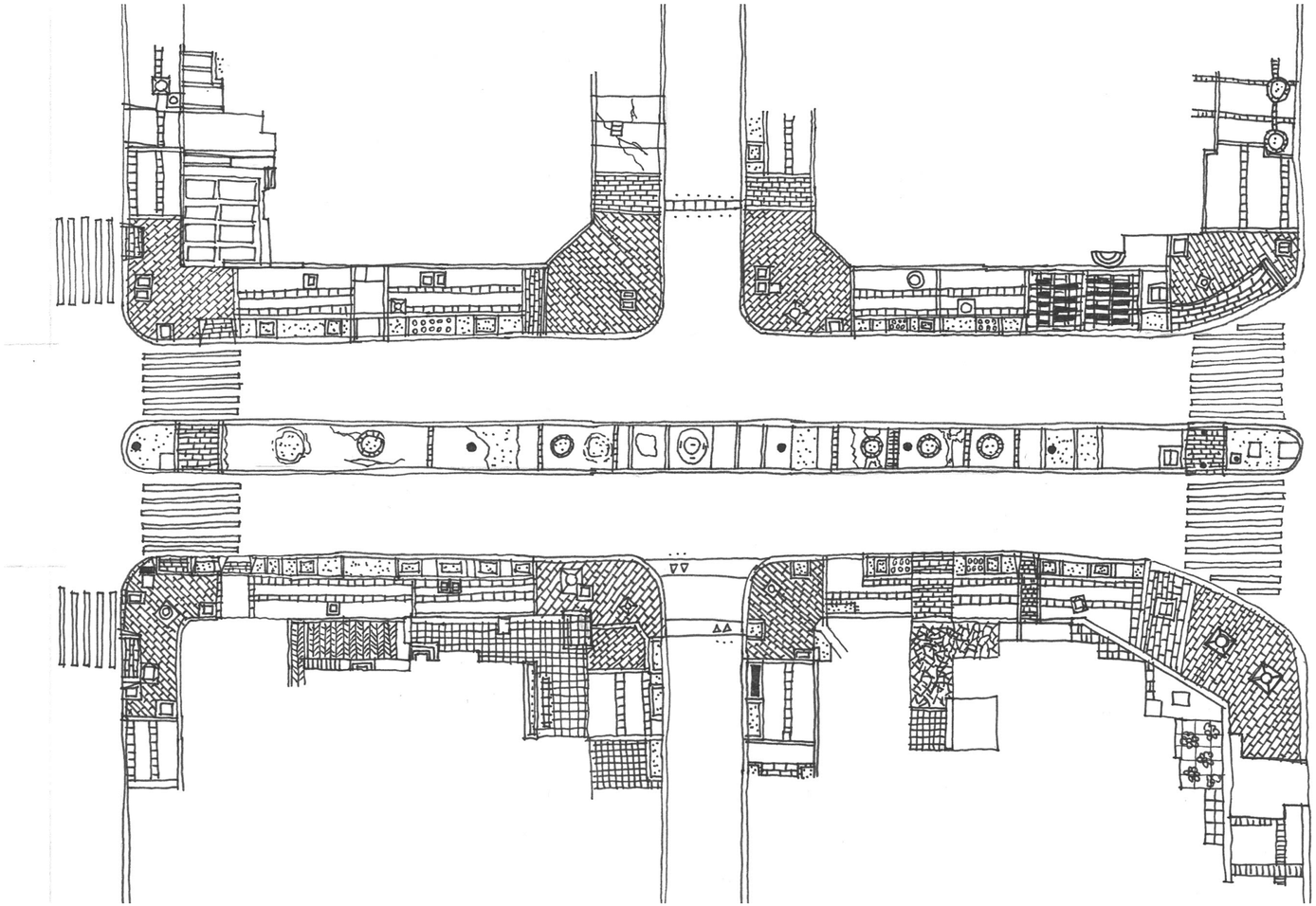
The Layered City

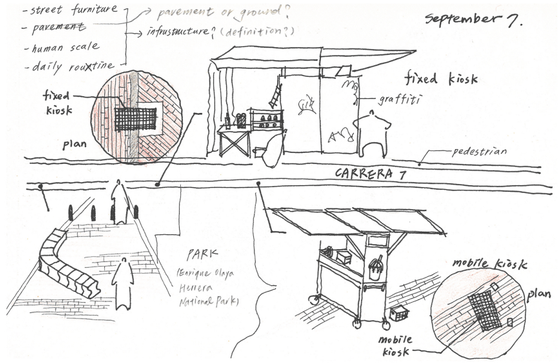


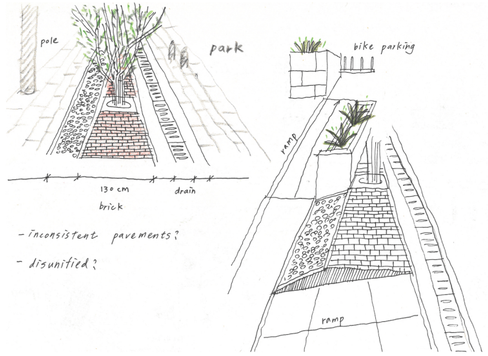


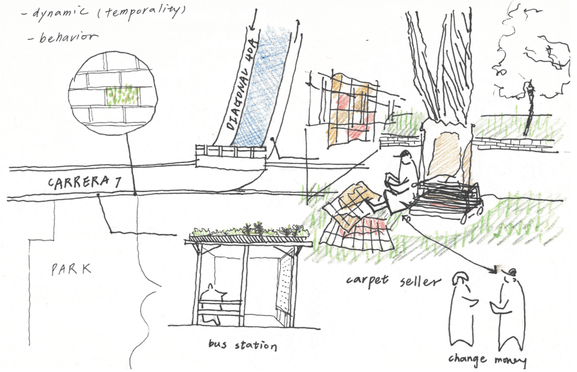


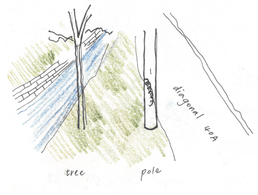
Pavement on the Street

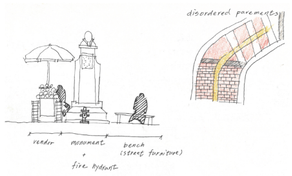


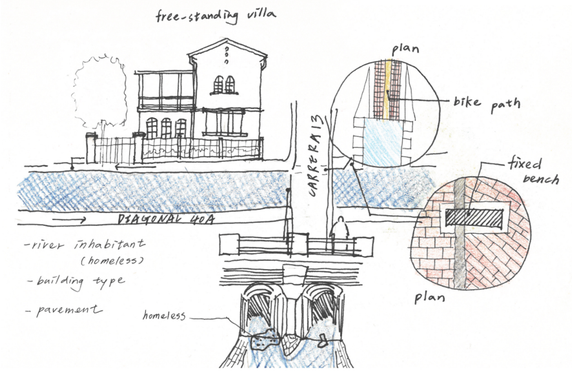

- street furniture
- pavement
- human scale
- daily routine
→ pavement or ground?
→ infrastructure? (definition?)
September 7.
fixed kiosk
graffiti
fixed kiosk
plan
pedestrian
CARRERA 7
PARK
(Enrique Olaya Herrera National Park)
mobile kiosk
plan
mobile kiosk

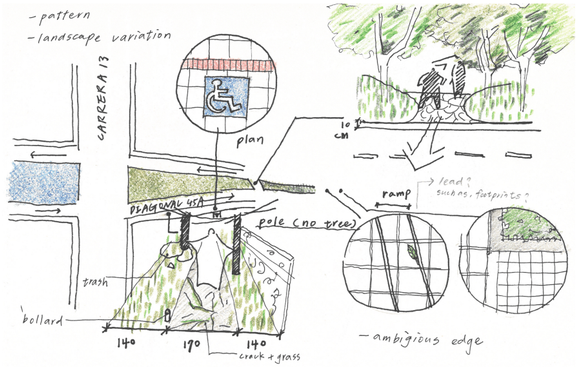

pole
park
bike parking
ramp
130 cm
brick
drain
- inconsistent pavements?
- disunified?
ramp

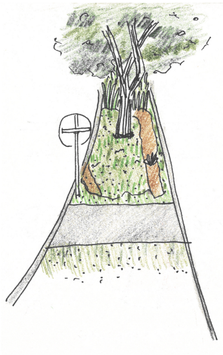

- dynamic (temporality)
- behavior
DIAGONAL 40A
CARRERA 7
PARK
carpet seller
bus station
change money

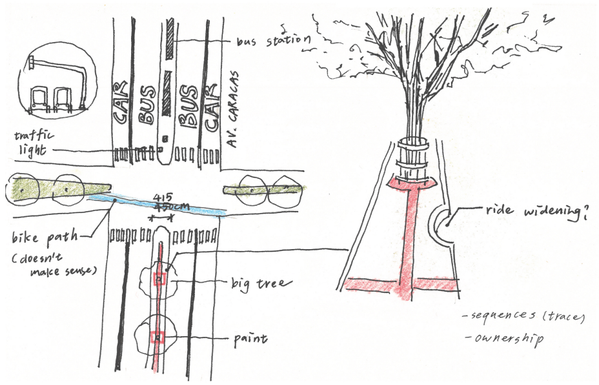

diagonal 40A
tree
pole

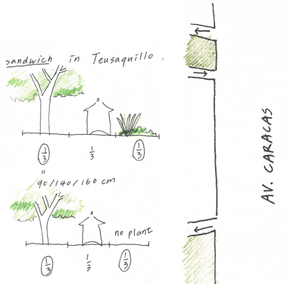

disordered pavements
vendor
monument
bench (street furniture)
fire hydrant


tree-standing villa
plan
bike path
CARRERA 13
fixed bench
DIAGONAL 40A
plan
- river inhabitant (homeless)
- building type
- pavement
homeless

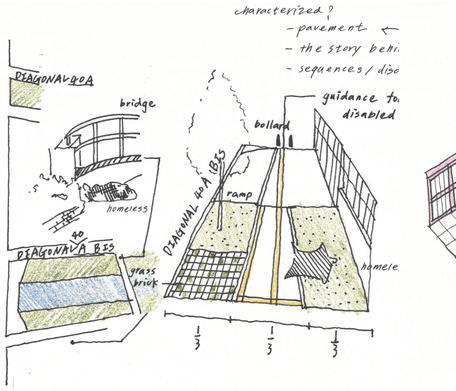

- pattern
- landscape variation
CARRERA 13
plan
10 cm
DIAGONAL 41A
pole (no tree)
ramp
→ lead? signs, footprints?
trash
bollard
140
190
140
crack + grass
- ambigious edge

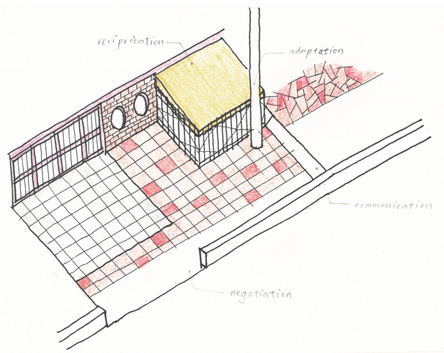


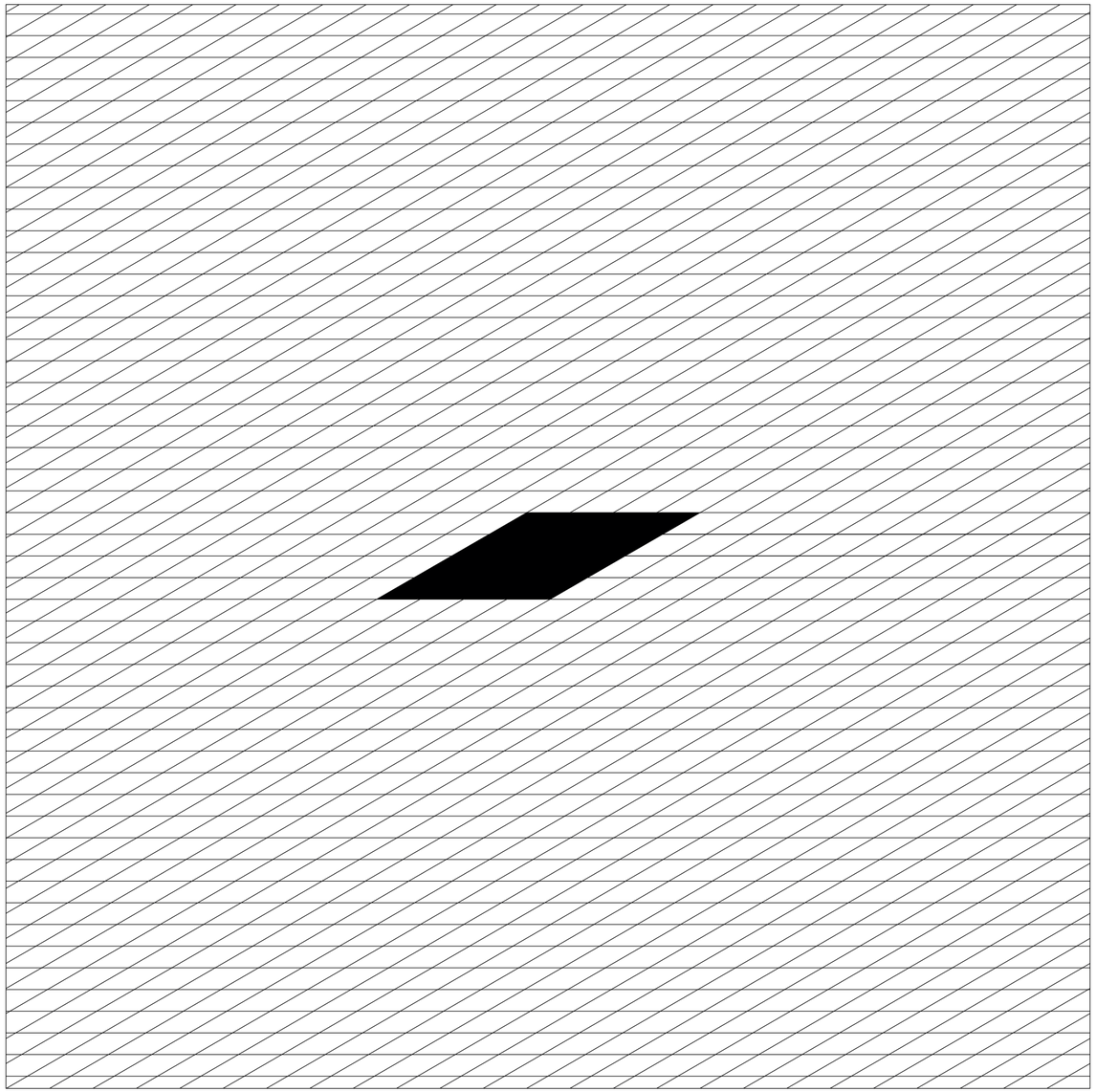

CAR
BUS
BUS
CAR
AV. CARACAS
bus station
traffic light
415
450cm
bike path
(doesn't make sense)
big tree
paint
ride widening?
- sequences (trace)
- ownership

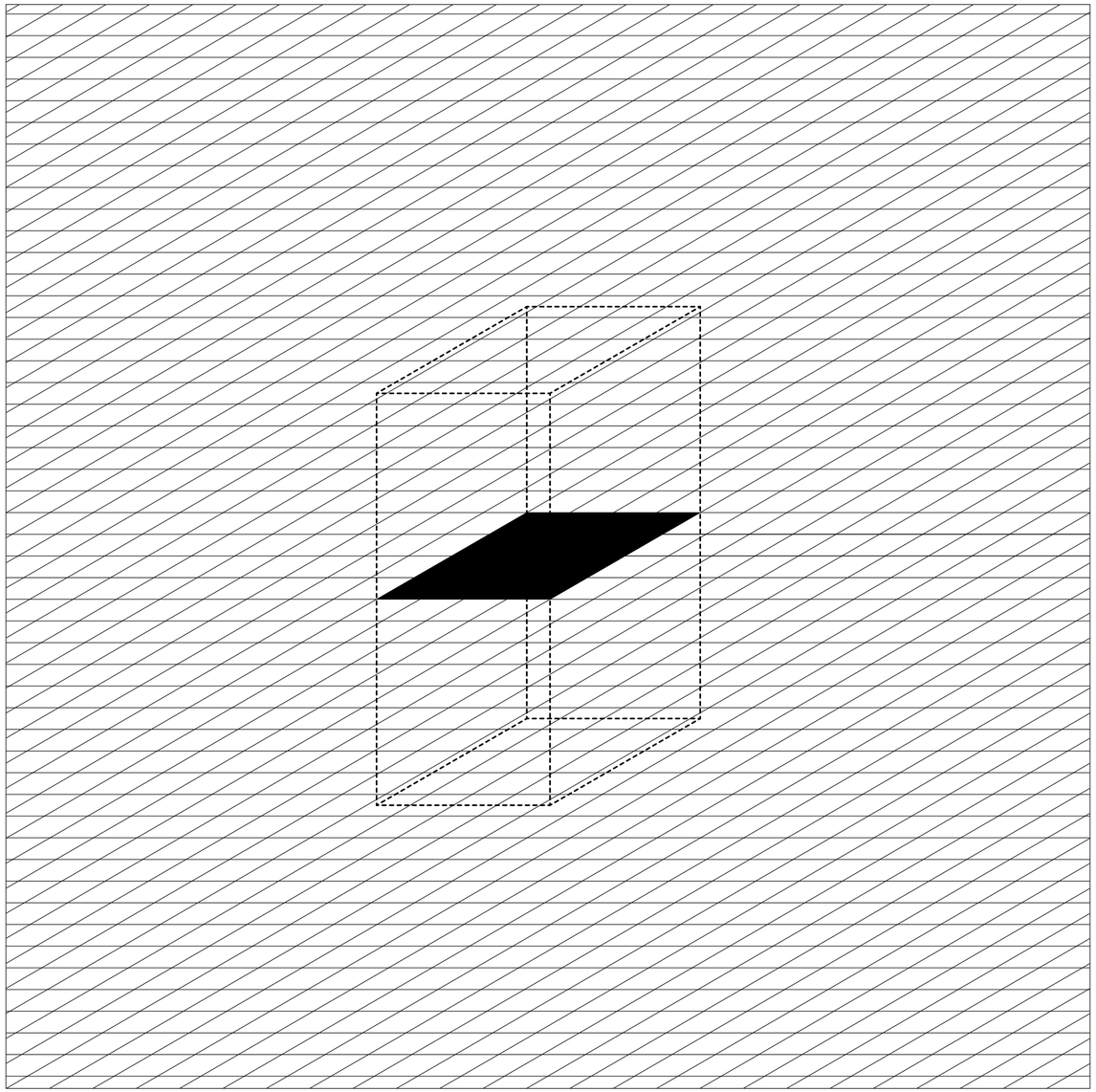

sandwich in Teusaquillo
1/3
1/3
90/140/160 cm
no plant
1/3
1/3

AV. CARACAS


characterized?
- pavement
- the story behi
- sequences / dise
DIAGONAL 40A
bridge
guidance to disabled
bollard
ramp
homeless
DIAGONAL 40A BIS
grass brick
DIAGONAL 40A BIS
homele
1/3
1/3
1/3

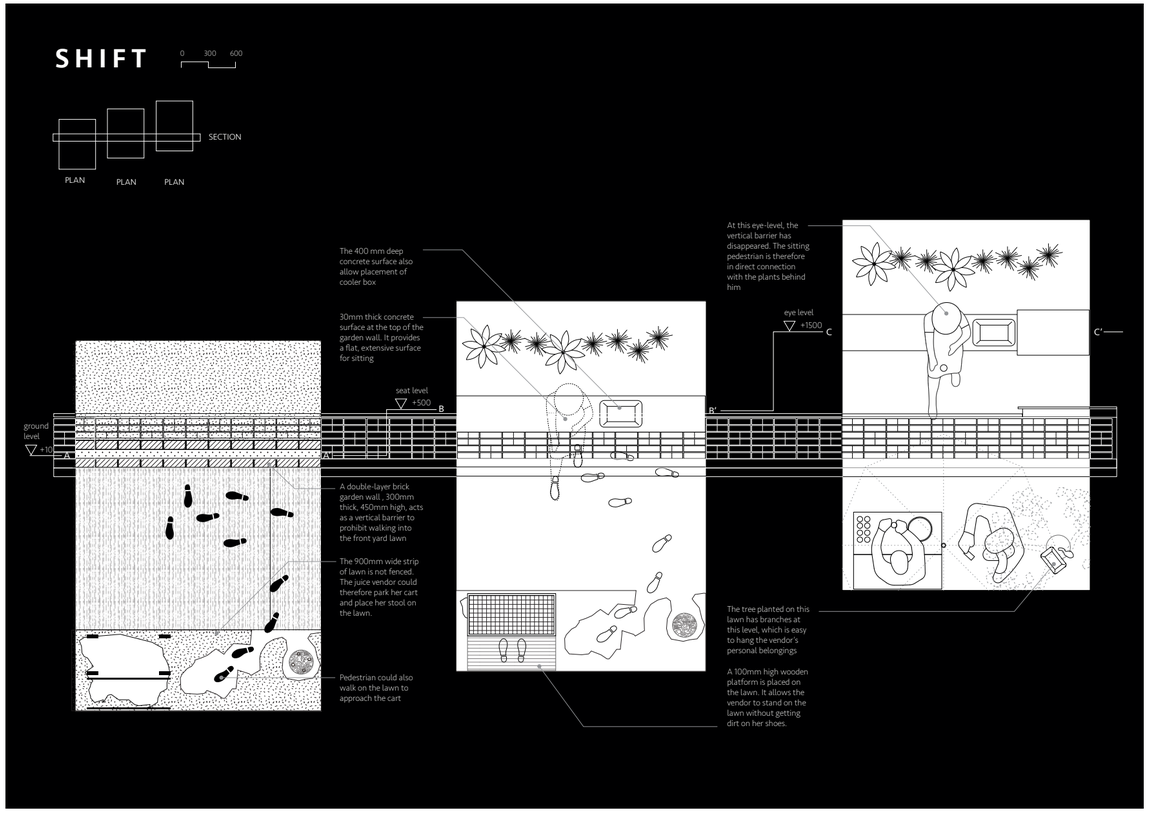

reciprocation
adaptation
communication
negotiation

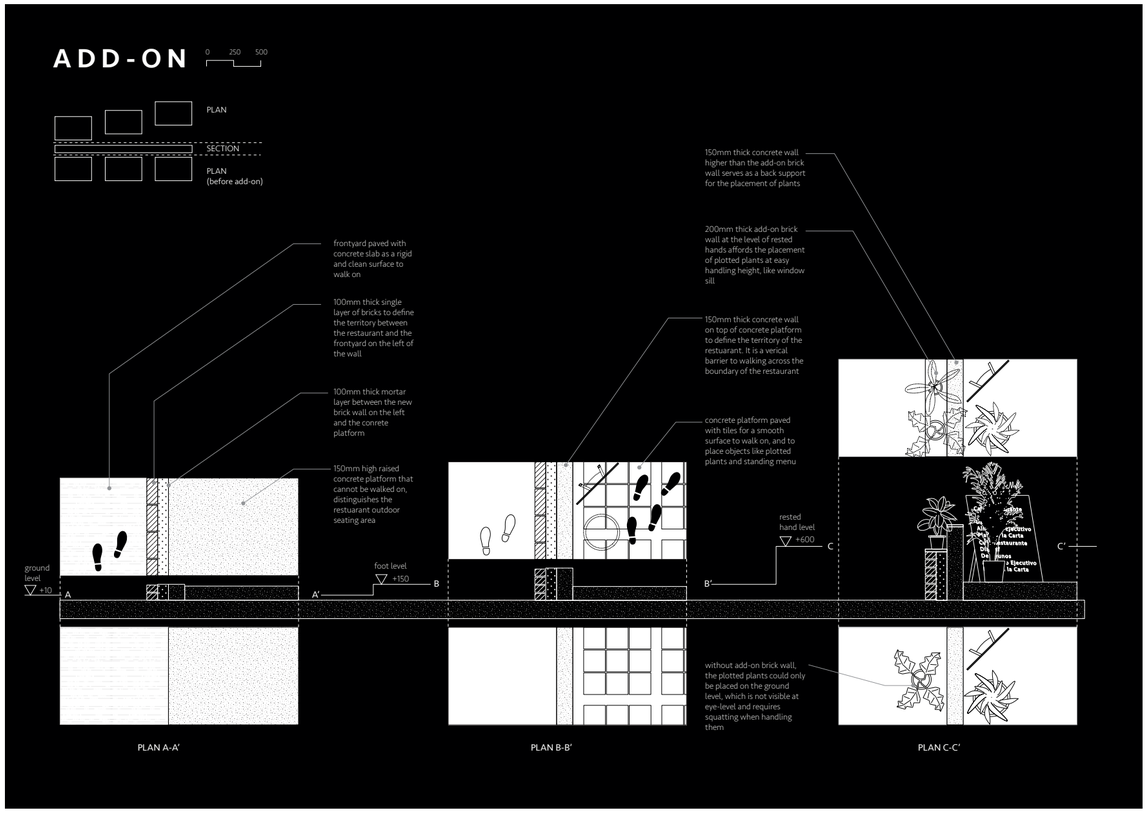




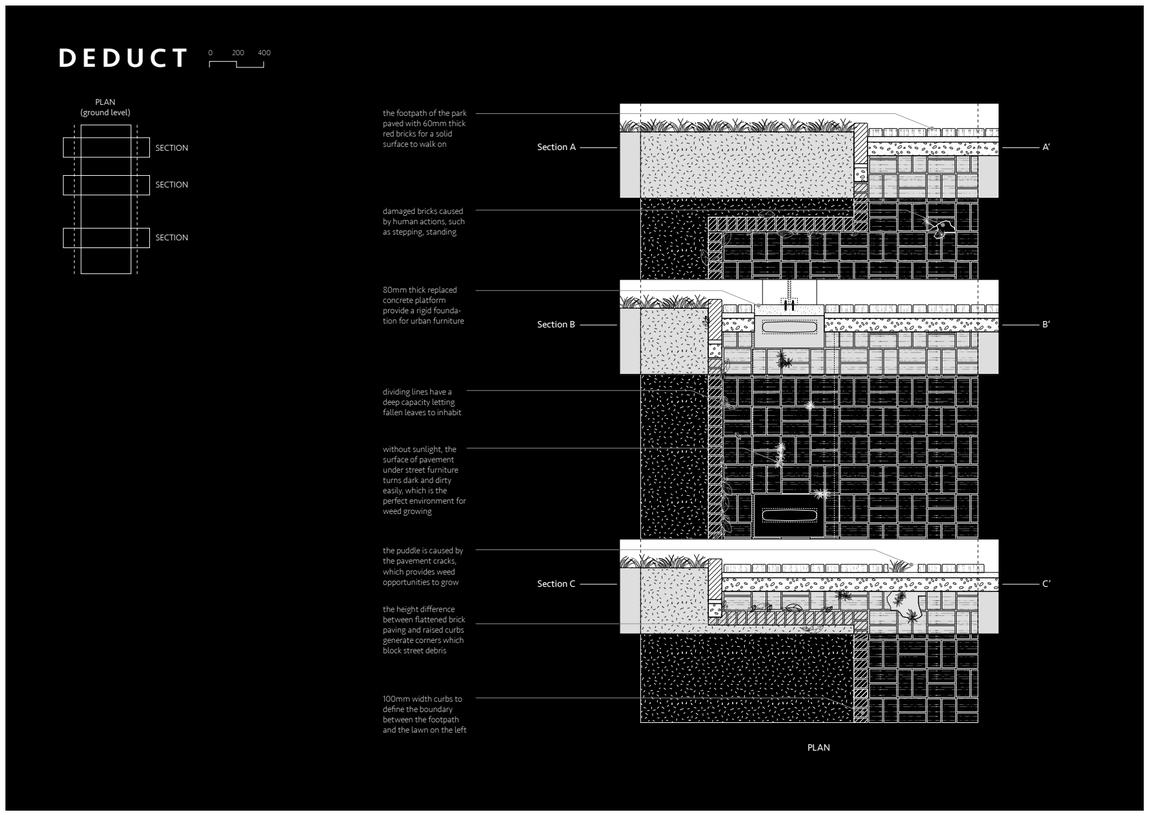
What is happenning
above / under
the surface?

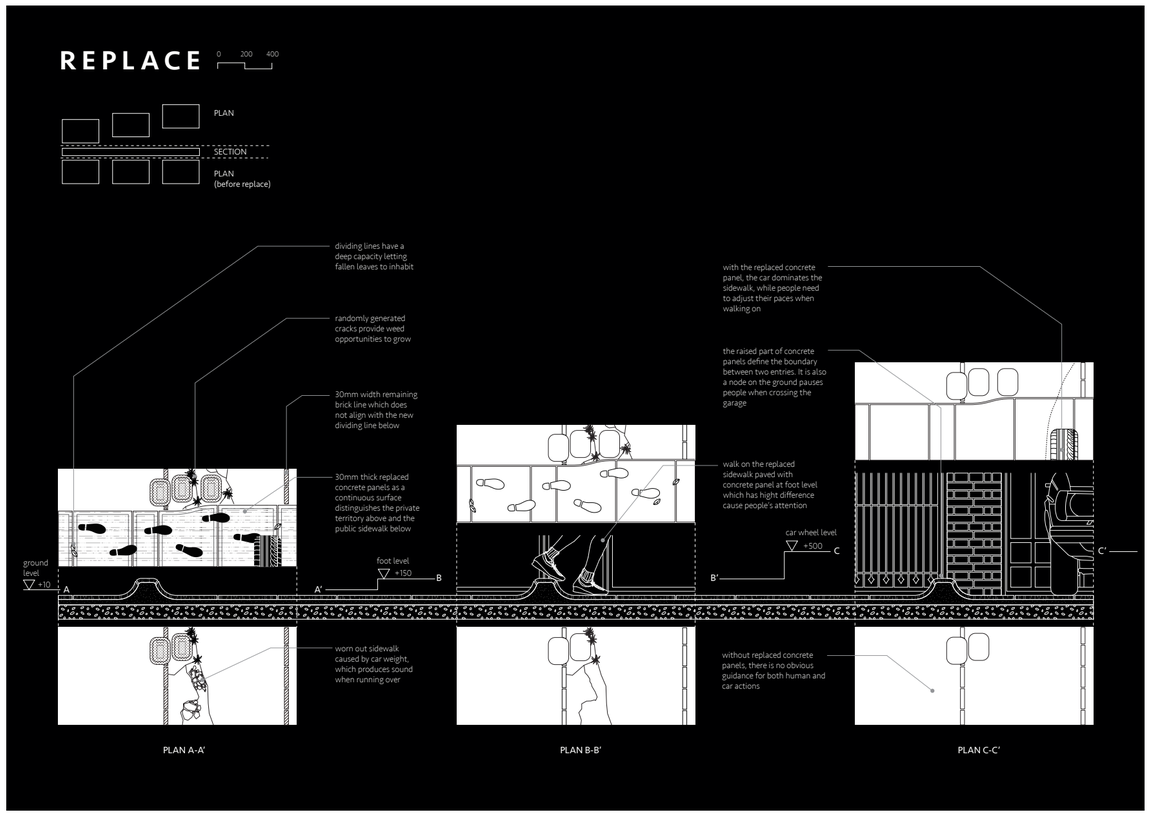
Study Surface through the Lens of Affordance





Study Surface through the Lens of Affordance





Position



1

Dealing with the often-overlooked **architectural dimension** between urban tissue and individual character

2

Revealing the actual process
Ask: ‘What is going on?‘
instead of ‘What it looks like?‘

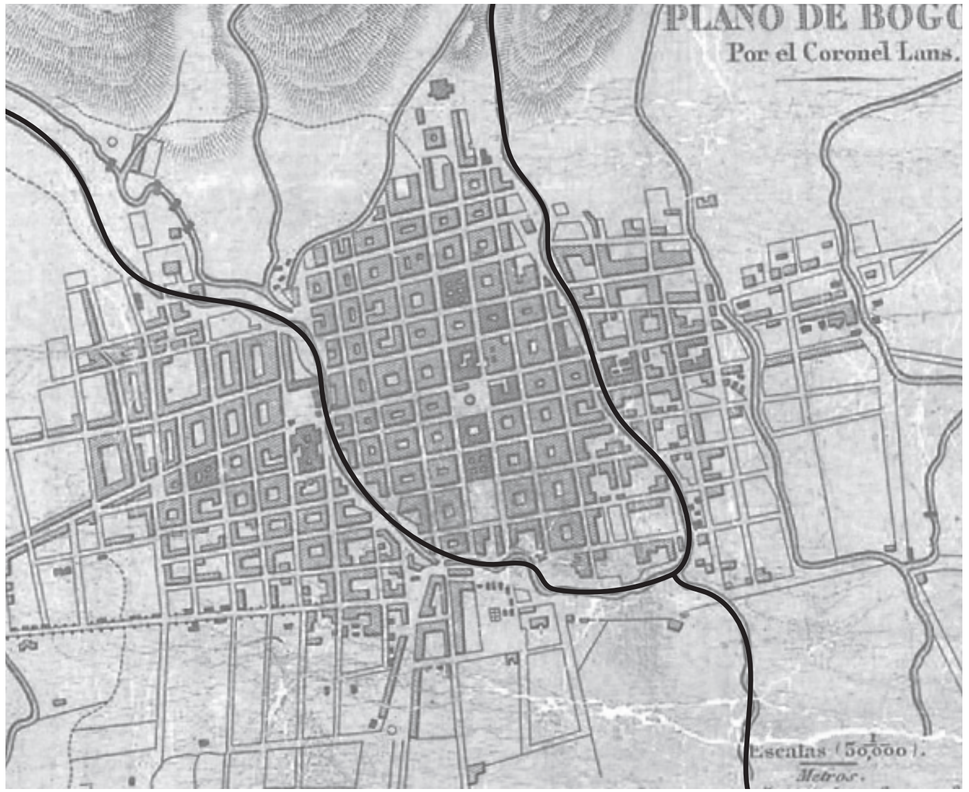
2
ANALYSIS

Urbanization in Teusaquillo

Colonial Grid Pattern



1797



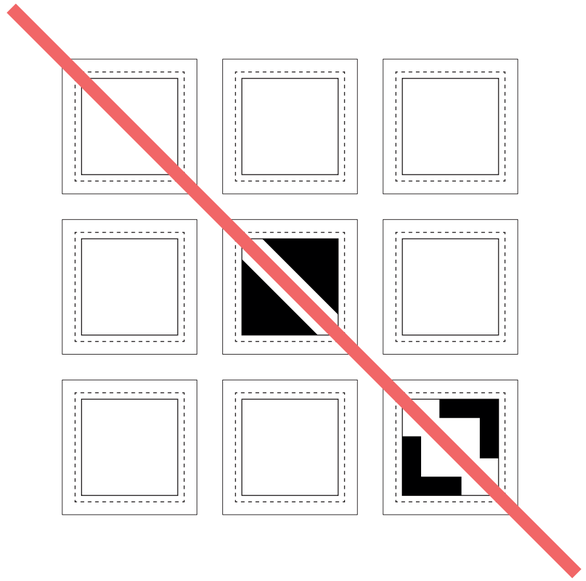
1824

The First Half of the 20th Century: Urban Population and Economic Boom

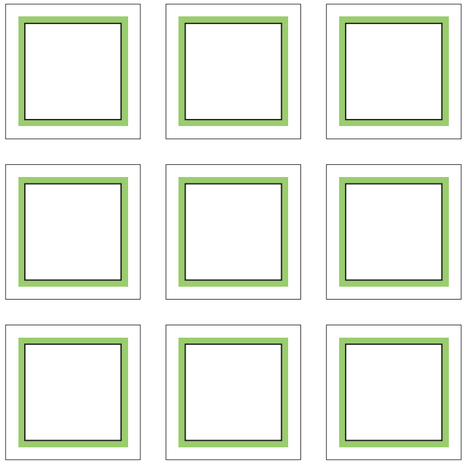




the ‘Desired‘ Modernity



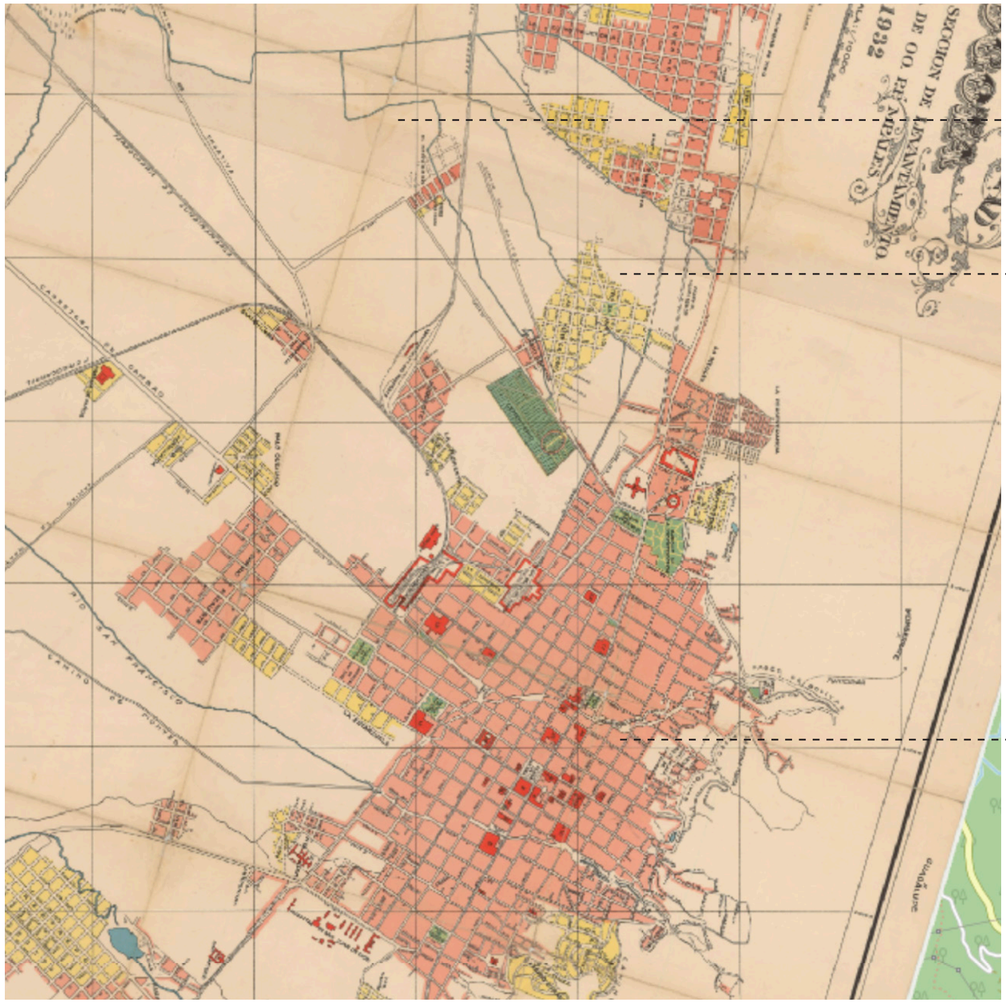
Diagonal Pattern



Frontyard Planning

Uneven Regional Development

1932

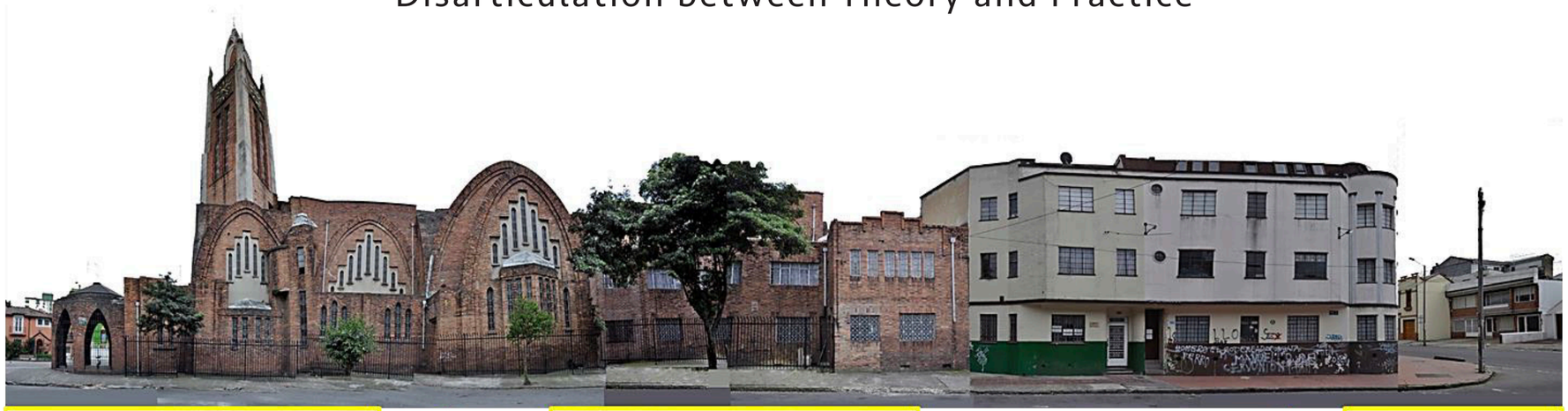


Universidad Nacional de Colombia

Teusaquillo

Downtown

Disarticulation between Theory and Practice





(Alonso Gutiérrez Aristizábal, 2013)

3
METHOD

Manual and Urban Project

Research Question

How could the groundscape contributes as part of public realm and be transformed into a figure for the construction of common ground among different groups?

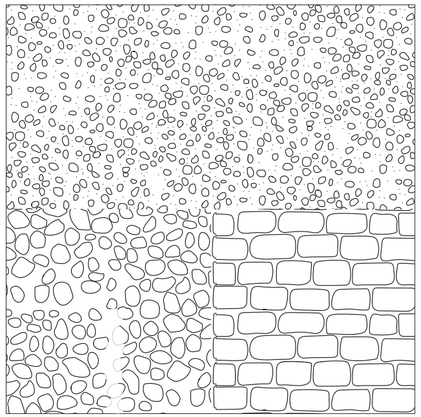
Proposition

1
involving two-way communication, not one-way demonstration

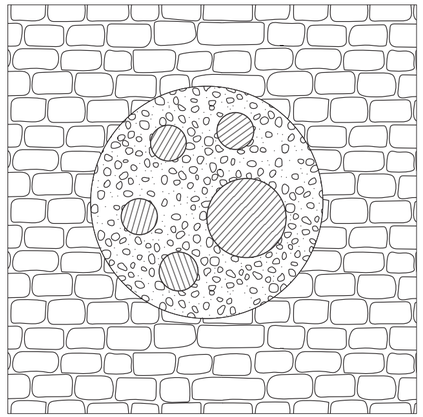
2
providing alternatives, not problem solutions

3
embracing heterogeneity, not homogeneity

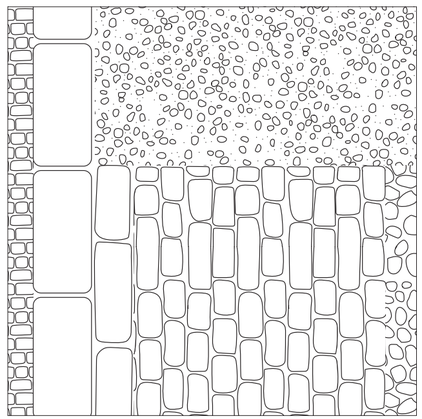
1 - involving two-way communication, not one-way demonstration → **Geometry**



new precast concrete path
fieldstones
large fieldstones strips
large smooth granite



new precast concrete path fieldstones
large smooth granite
stainless steel grilles with minor finish



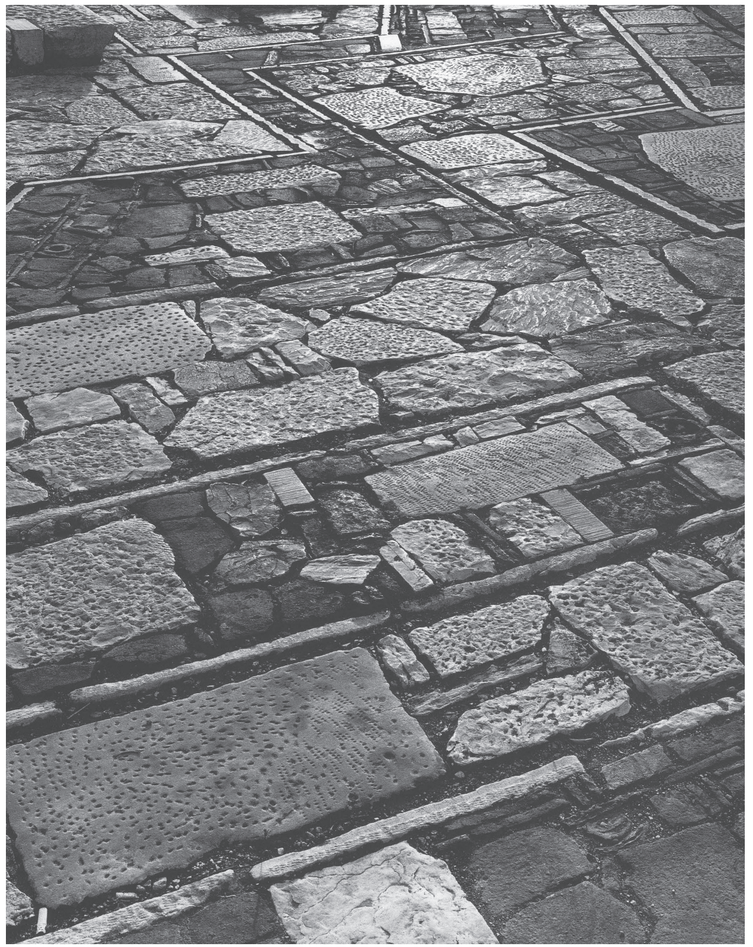
small stone cut pavement
kerbstones
new precast concrete path
gutterstones
large smooth granite
fieldstones



Stortorget(Grand Square) in Kalmar by Caruso St John

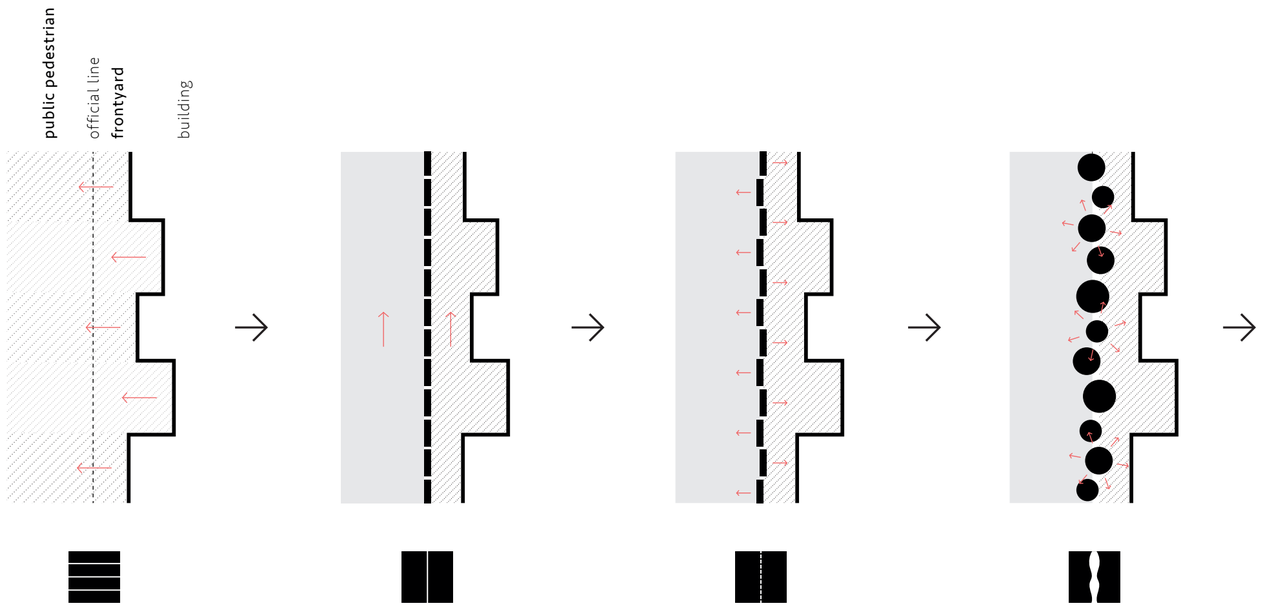
1 - involving two-way communication, not one-way demonstration → **Geometry**

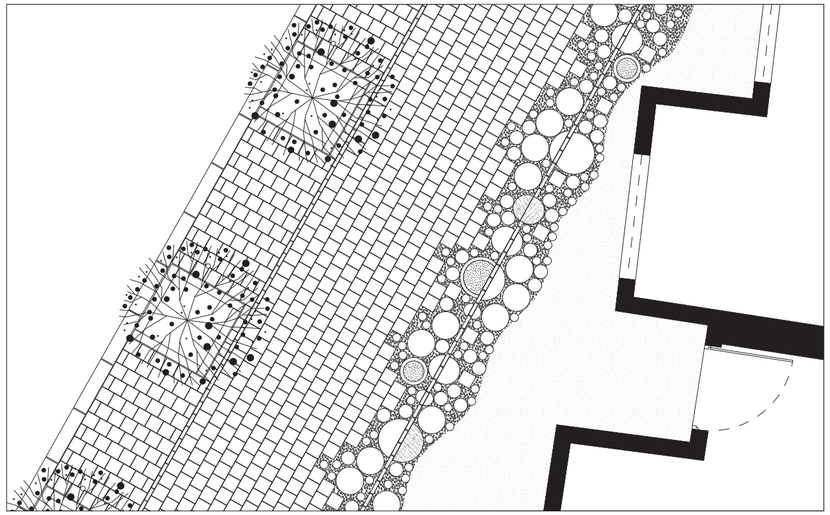




The Path to the Acropolis of Athens by Dimitris Pikionis

1 - involving two-way communication, not one-way demonstration → Geometry





The fixed boundary could be diluted by means of the repetition of a basic geometry with a diverse range of dimensions.

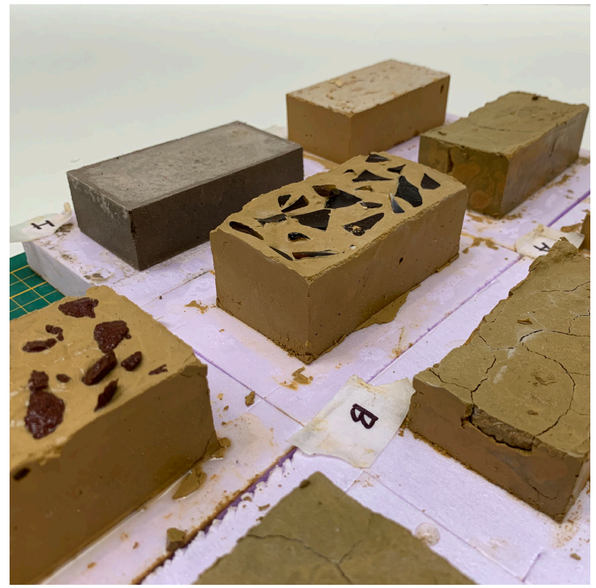
the shifting center

1 - involving two-way communication, not one-way demonstration → **In-Situ Process**



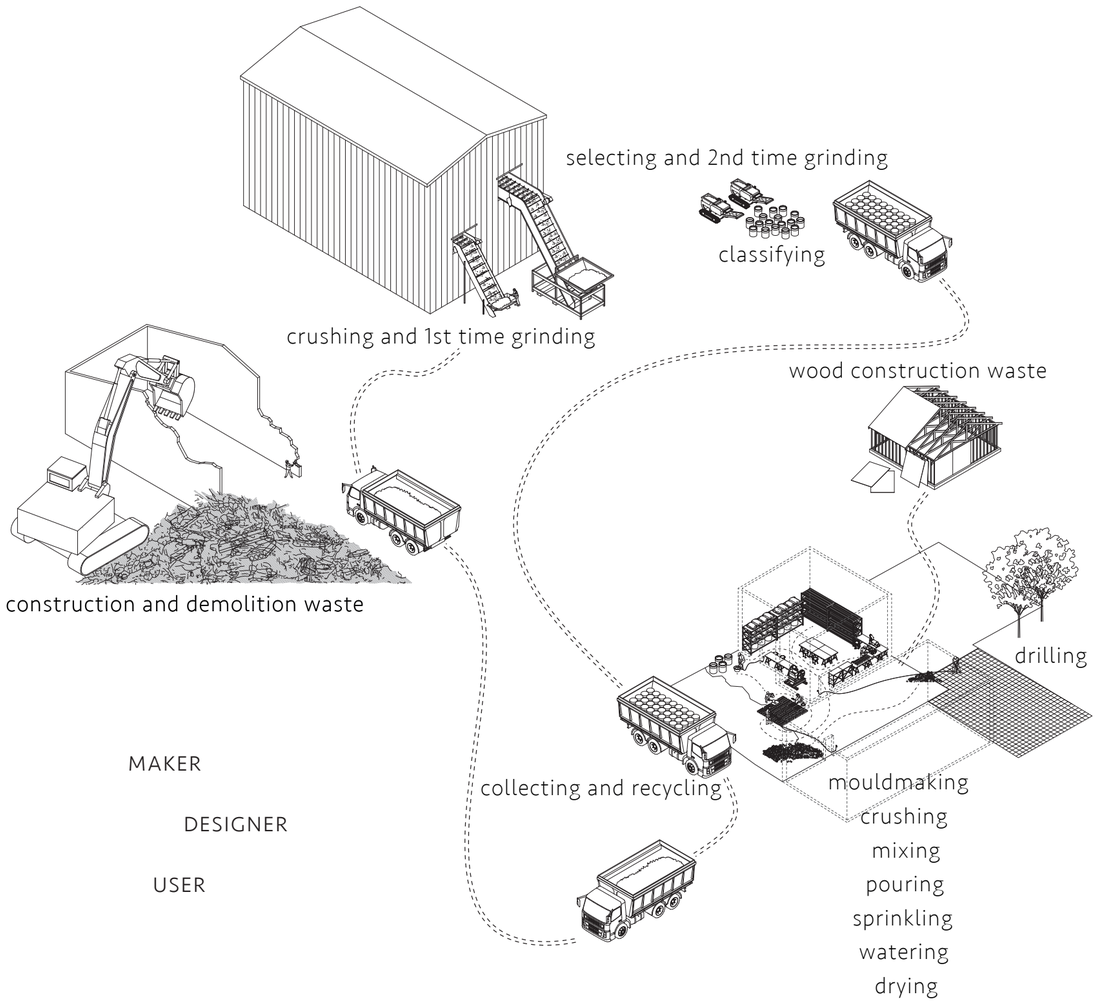






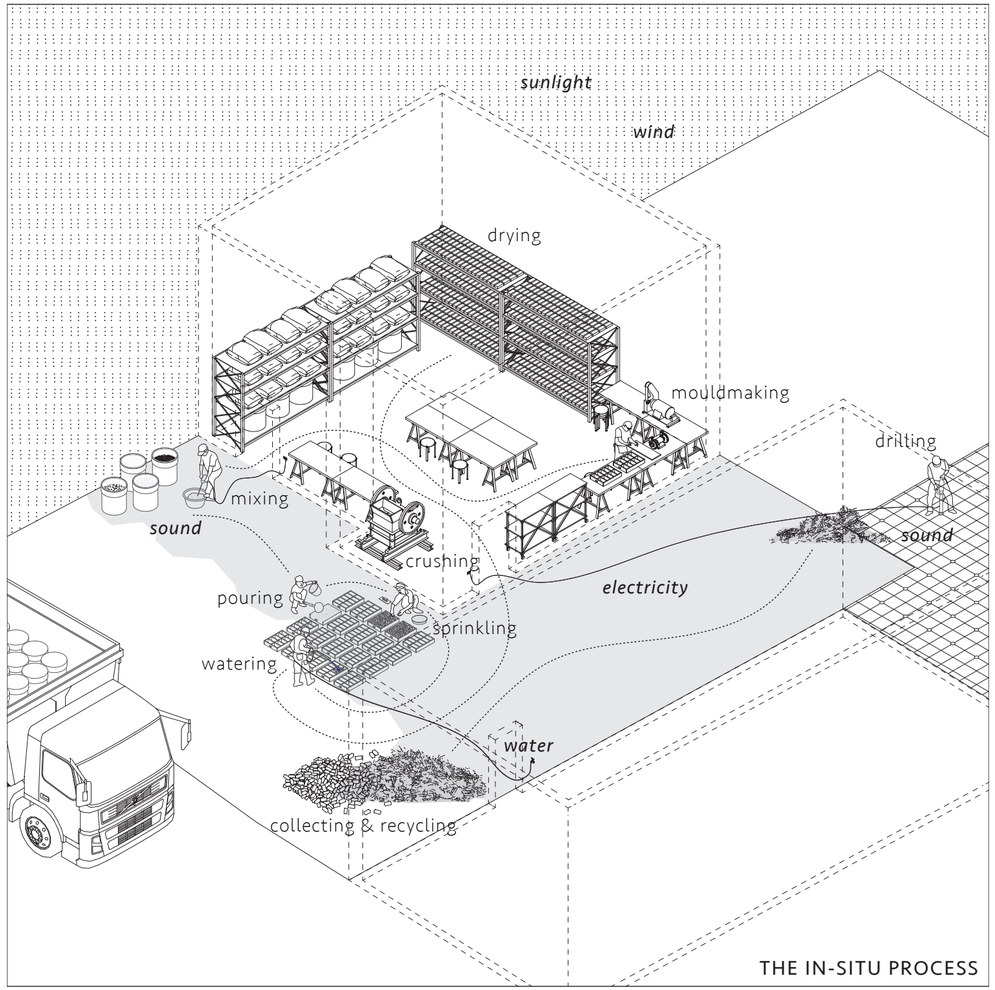
learning from the actual process

1 - involving two-way communication, not one-way demonstration → **In-Situ Process**



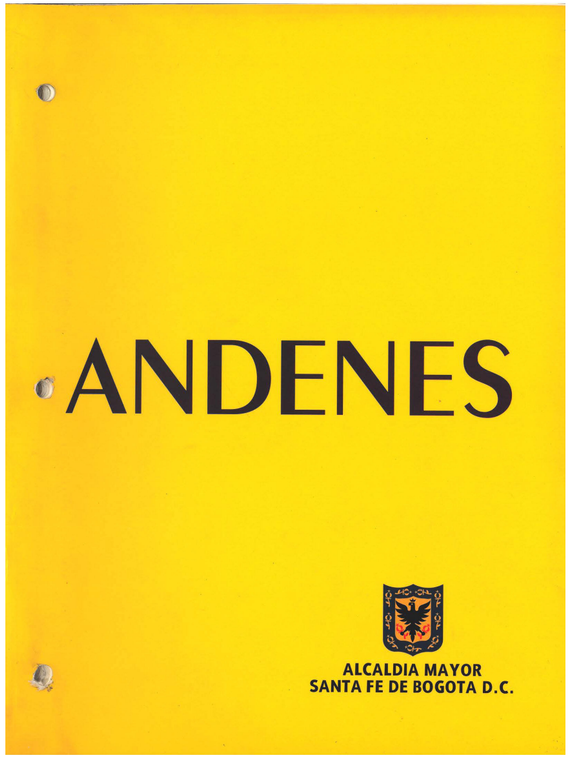
the relation between Maker and Designer

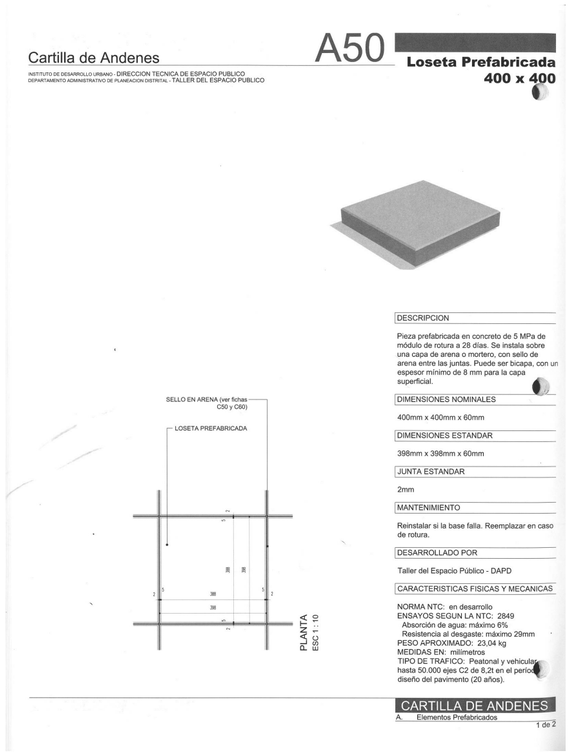
1 - involving two-way communication, not one-way demonstration → **In-Situ Process**

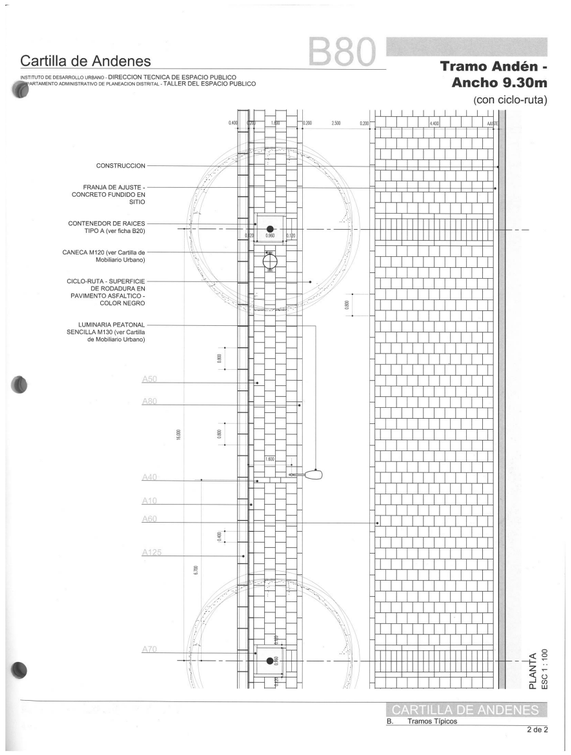


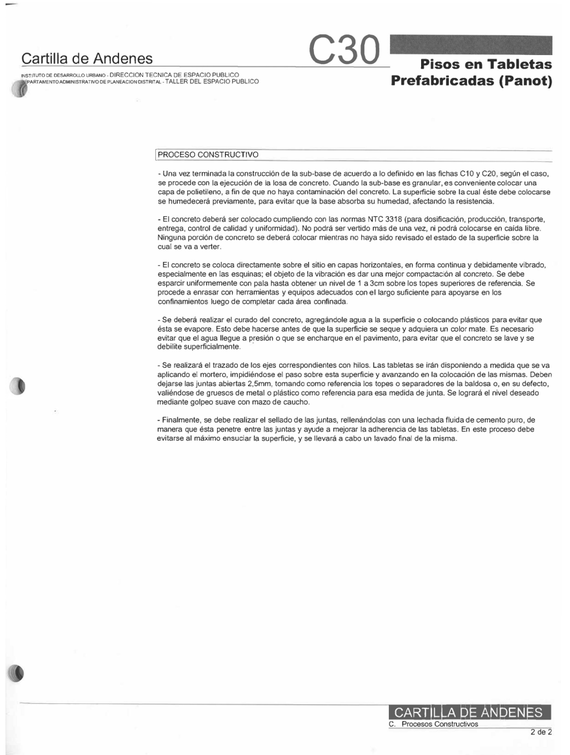
the construction process as a performance

2 - providing alternatives, not problem solutions → MANUAL



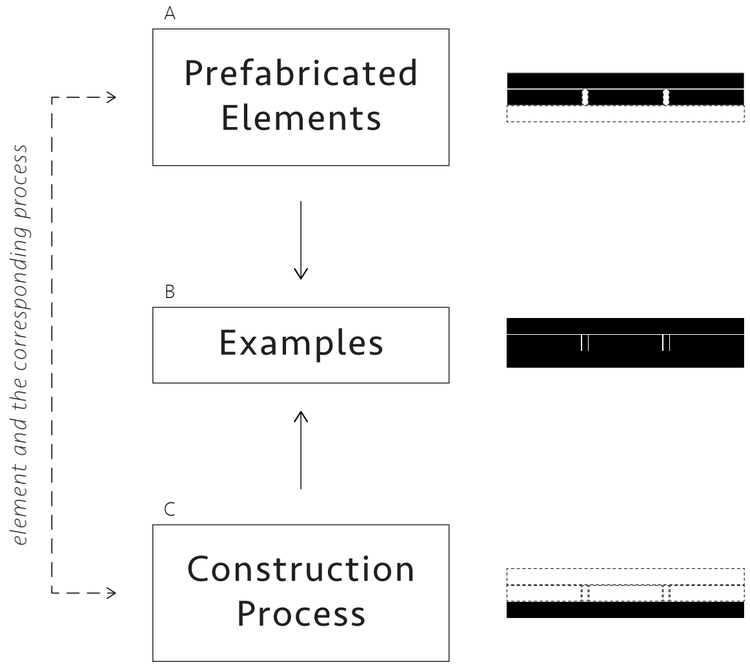




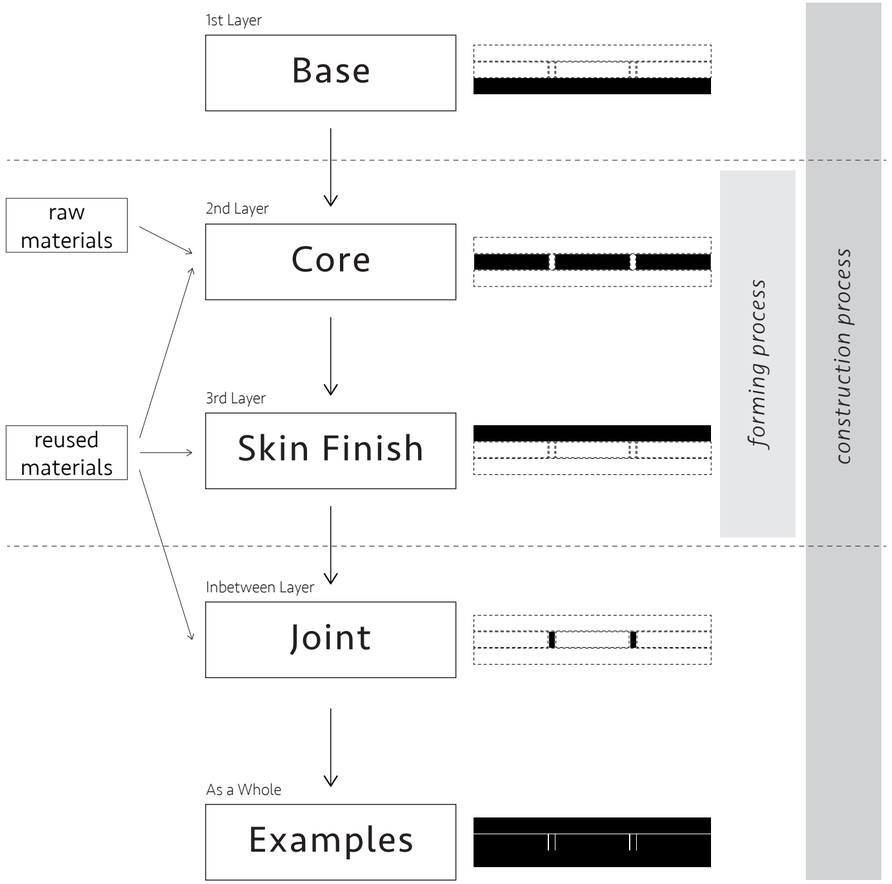


'ANDENES' published by the local municipality

2 - providing alternatives, not problem solutions → MANUAL



'ANDENES'
by the local municipality



'GROUNDSCAPE'
by Hsuanya

2 - providing alternatives, not problem solutions → MANUAL

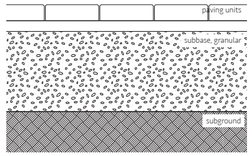
GROUNDSCAPE

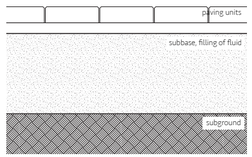
HSUANYA KAO

GROUNDSCAPE

Subbase

C10&C20





The base's total thickness is calculated with reference to the properties of the building ground, the desired surface, and load. Therefore, the necessary modification of excavation or fill can be calculated.

SUBBASE

(refer to C10 in ANDENES)
If it is a stable existing subground, it is possible to proceed directly with the execution of the subbase.

For subbase courses, segregation and contamination should be avoided. Once the course has the proper humidity, it should be compacted with the equipment until reaching the specified density. The compaction begins with the periphery and moving towards the center, overlapping the last path.

(refer to C20 in ANDENES)
If the subbase consists of a filling of fluid, the resistance to compression is at 28 days of 20kg / cm².

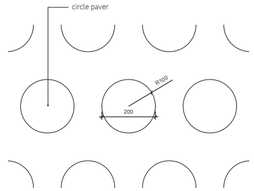
MAINTENANCE

In case of any extension, the execution of levelling and compacting the previous layer should be verified. It is not allowed to carry out the execution during rainy days or the temperature is lower than 2°C.

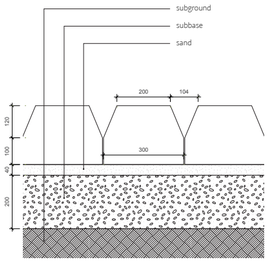
GROUNDSCAPE

Circle Paver
Ø200 X 220

AC200



PLAN
scale: 1/10



SECTION
scale: 1/10



DESCRIPTION

Circle paver made of the mixture of recycled paving pieces and construction waste. It is installed on the bedding course consists of sand and the granular base, with sand or chippings filling joints.

DIMENSIONS

upper half: Ø200mm X 120mm
bottom half: Ø300mm X 100mm

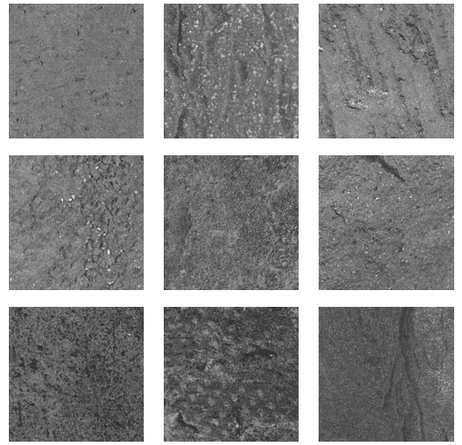
JOINT WIDTH

irregular (sand or chippings)

MAINTENANCE

Replace the tiles in the case of breakage. The paving and its bedding layer should be compacted again with the accredited equipment, working from the edges to the center.

GROUNDSCAPE

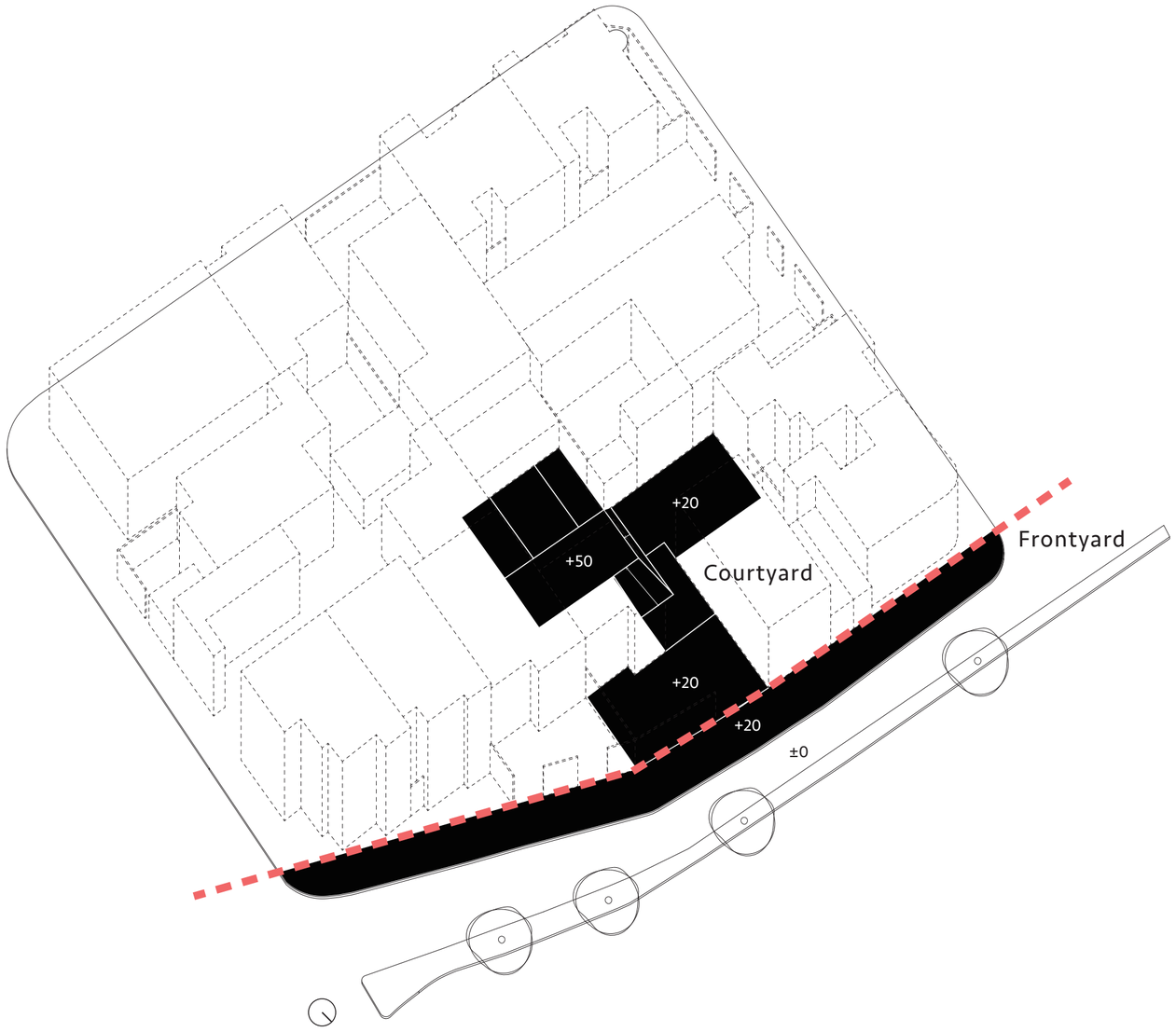


ADDITIONAL SURFACE TREATMENT

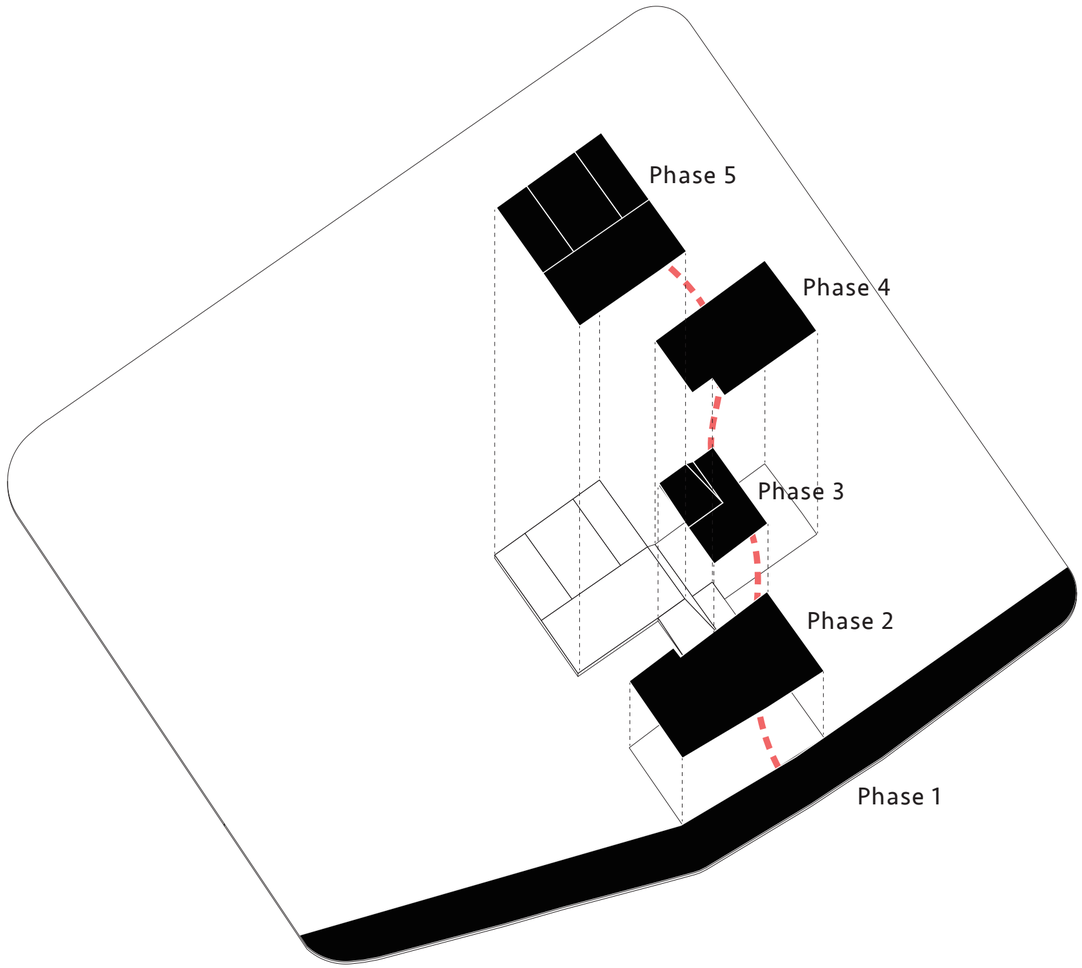
The secondary finishing step makes various surface finishes possible. The firing process is one of the methods to give bricks color and texture, the type of raw clay or the firing environment can affect the surface color. Besides, the pattern can be made by hands or rollers while bricks are still damp. Extra applied color by spray process is another option.

‘GROUNDSCAPE’ by Hsuanya

3 - embracing heterogeneity, not homogeneity → **Episodic Urban Project**



3 - embracing heterogeneity, not homogeneity → **Episodic Urban Project**

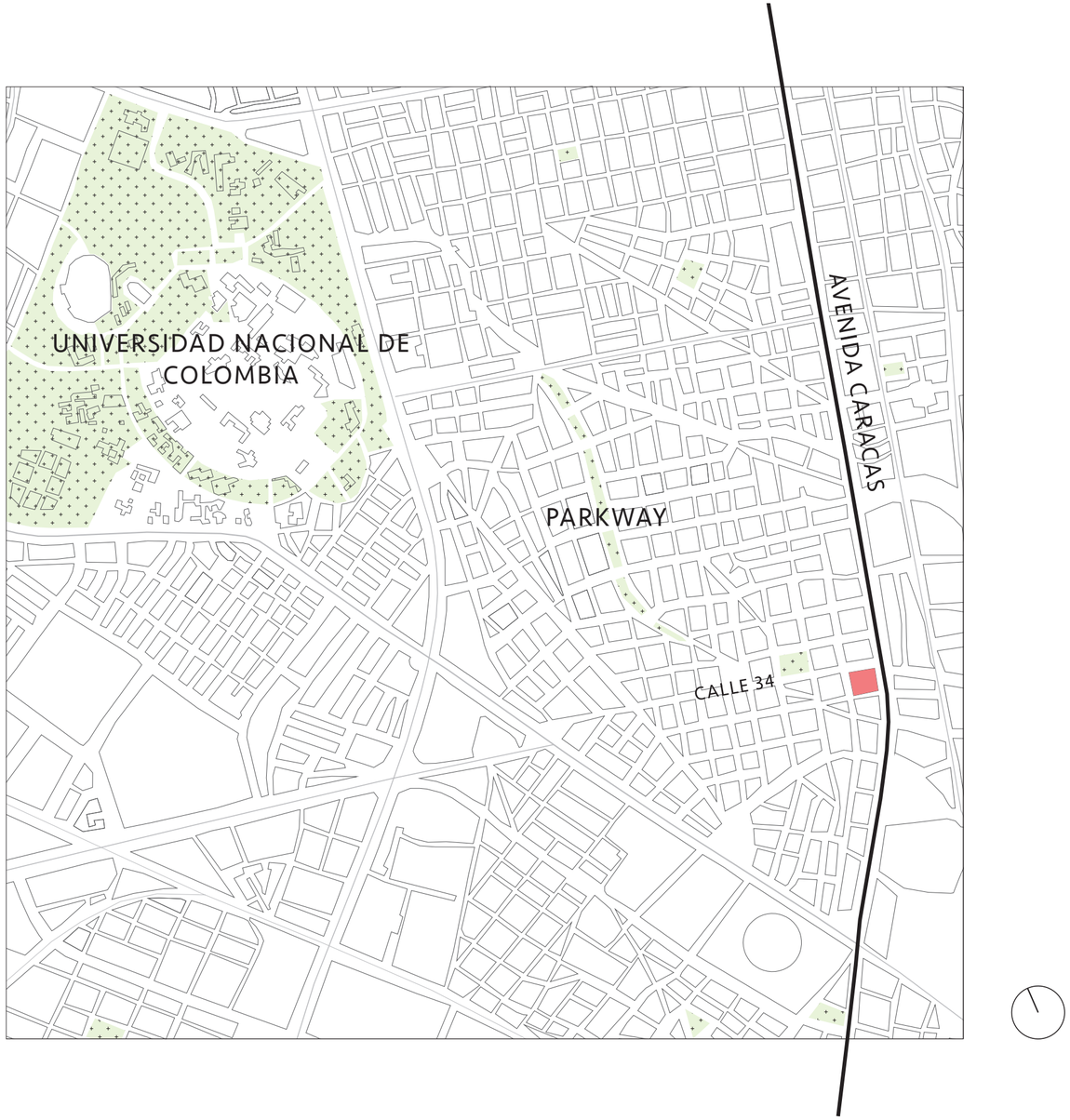


4

INTERVENTION

Frontyard and Courtyard

Site


UNIVERSIDAD NACIONAL DE COLOMBIA
PARKWAY
AVENIDA CARACAS
CALLE 34


Frontyard
Courtyard
AV. CALLE 34
CARRERA 14
CALLE 34
CALLE 33A





frontyard - sidewalk





courtyard - unbuilt plot (parking lot)

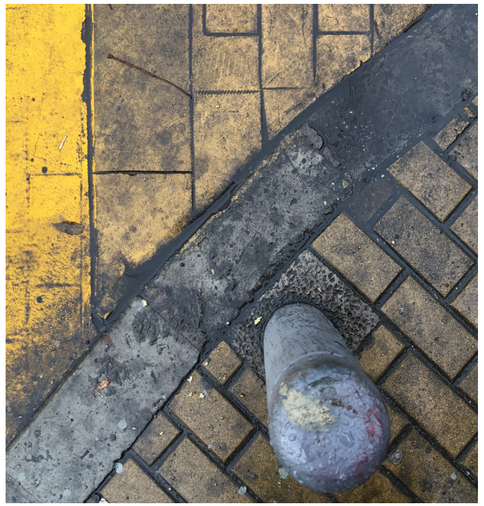


EXISTING

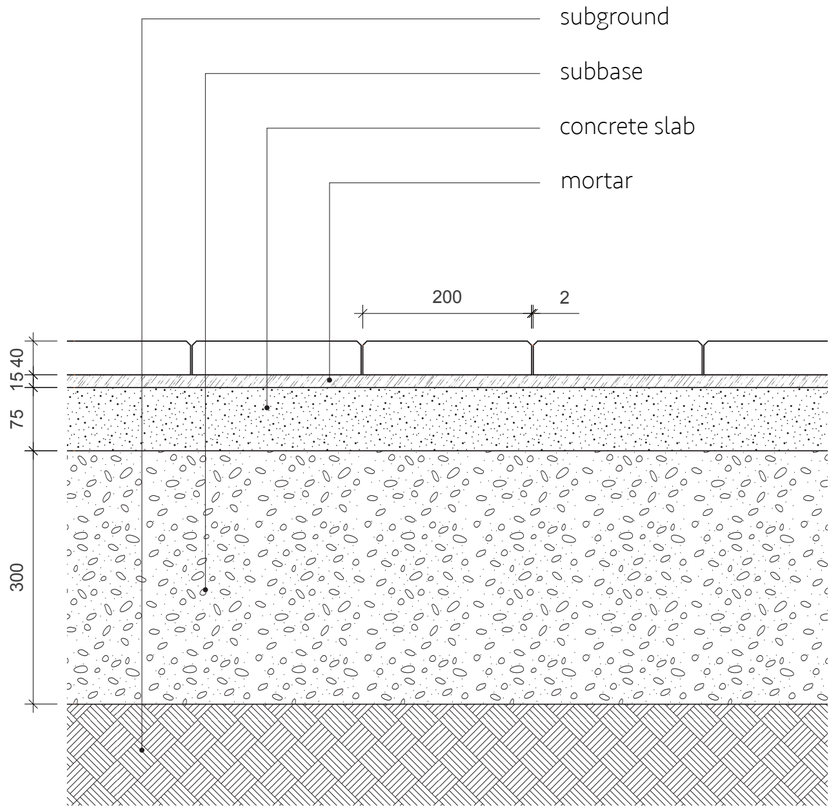
0 0.5 1 3 6(M)










subground
subbase
concrete slab
mortar
200
2
40
15
75
300

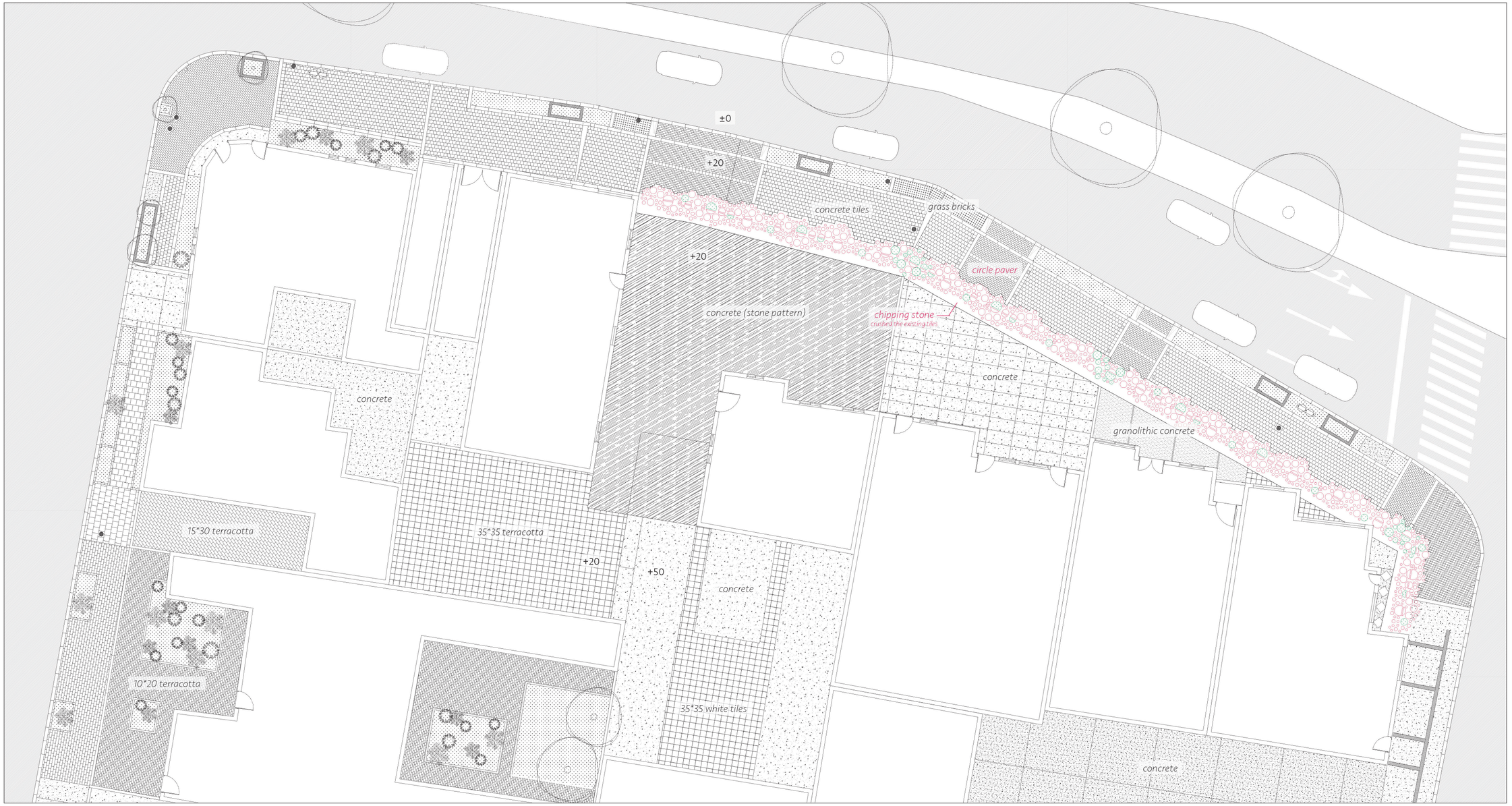
Phases

Phase 1

Dissolve the boundaries of frontyard

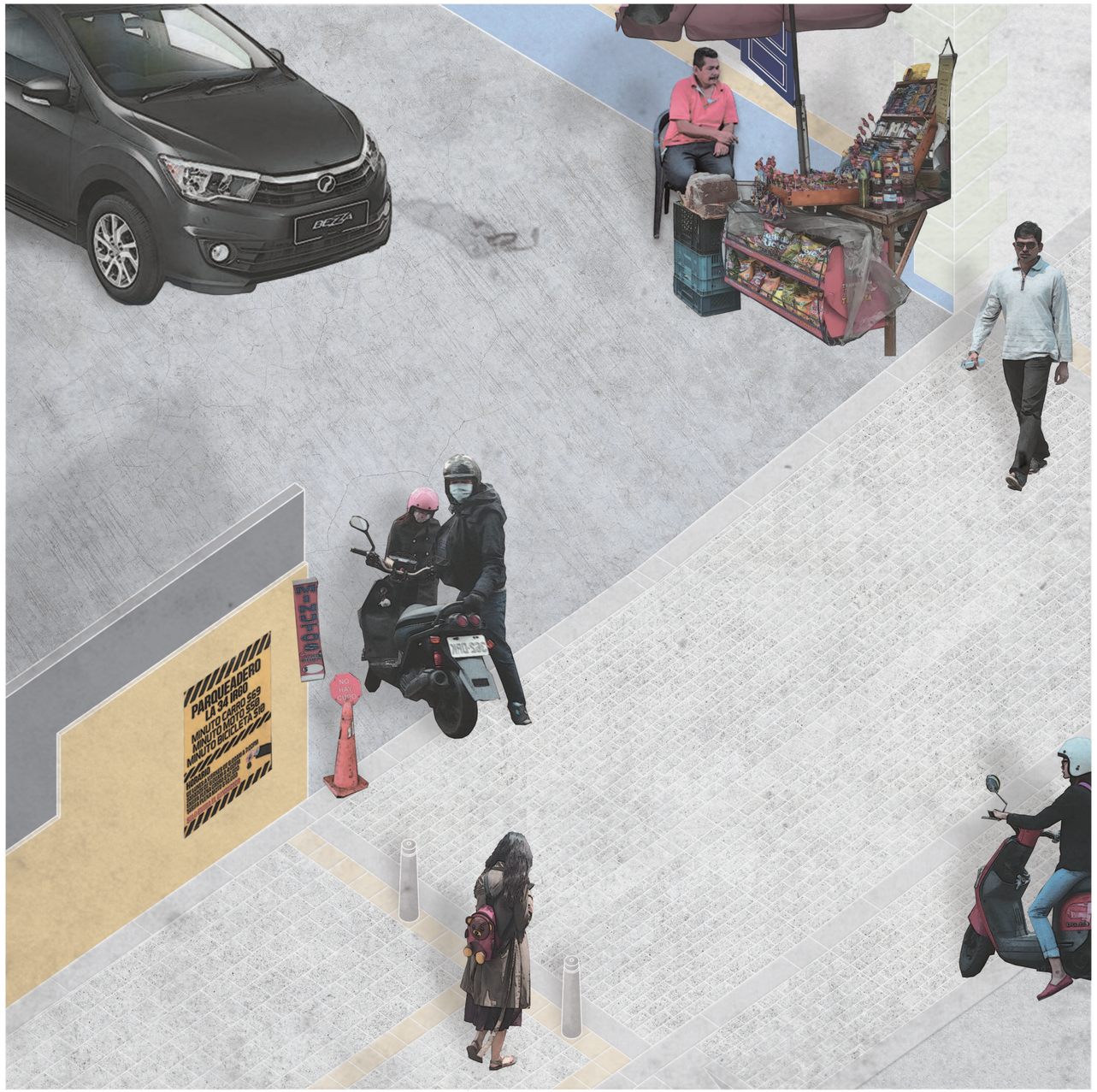
-by introducing the circle paver
-by demolishing part of the fences

[Daily Behaviors]
walking
[Construction Actions]
installing Ø12cm / 20cm / 40cm circle paver
collecting / classifying the removed concrete paving
crushing the demolished paving



PHASE 1

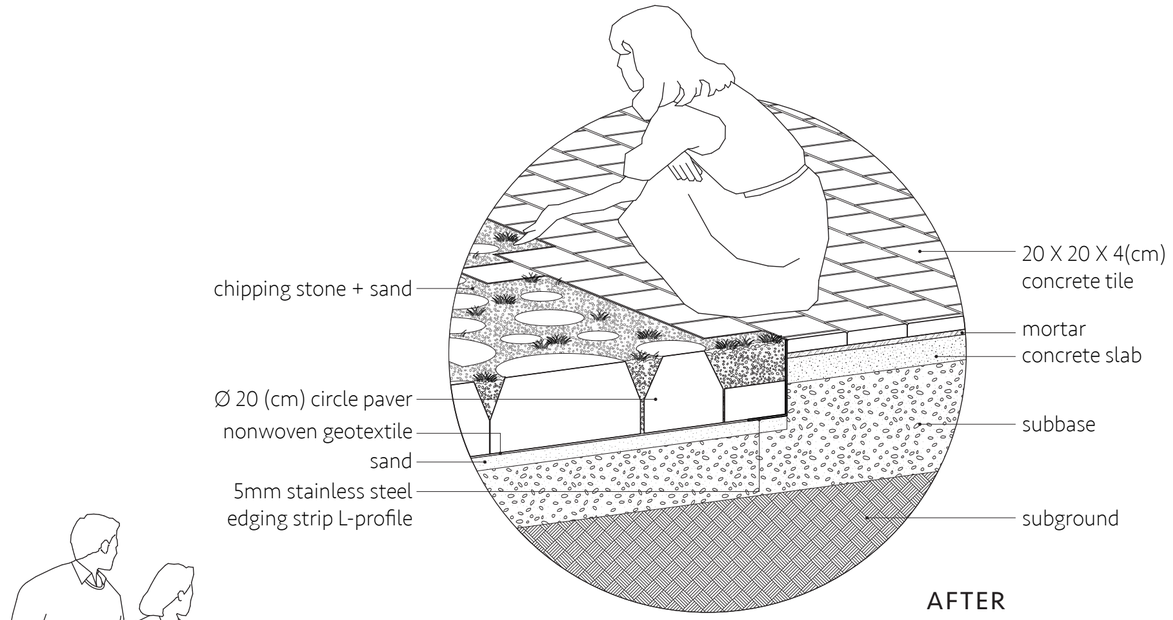
0 0.5 1 3 6(M)


BEZZA
PARQUEADERO
LA 34 IRGO
MINUTO CARRO S69
MINUTO MOTO S58
MINUTO BICICLETA S10
HORARIO
MINUTOS
NO HAY CUPO

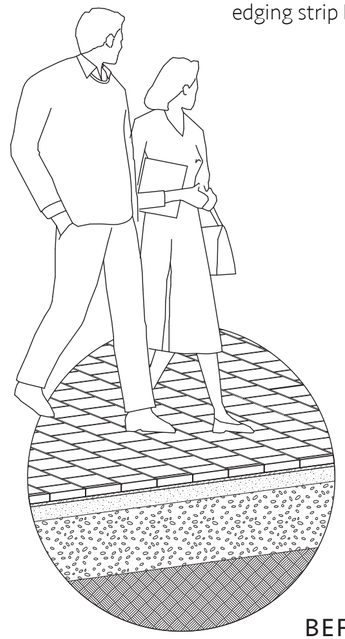
existing



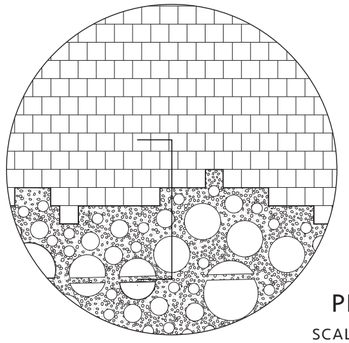
phase 1



AFTER



BEFORE



PLAN

SCALE 1:50

Phase 2

Create the pause points

-by introducing street furniture for seating
-by reclaiming the green spaces of public sidewalk

[Daily Behaviors]
walking, seating
[Construction Actions]
installing 20x20cm brick tiles, planting trees
replacing a few circle pavers with street furniture
treating (eg, grinding), reproducing the 10*10 bricks for next phase
(eg, mixing, making molds, pouring, watering)



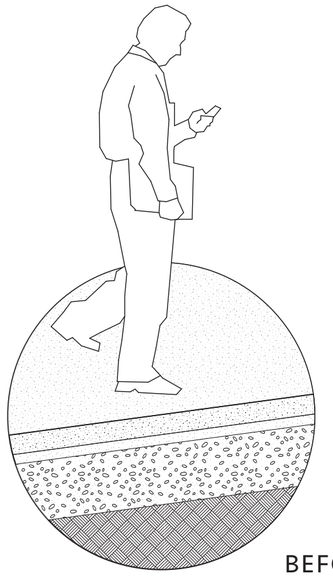
Creating the Pause Points

PHASE 2

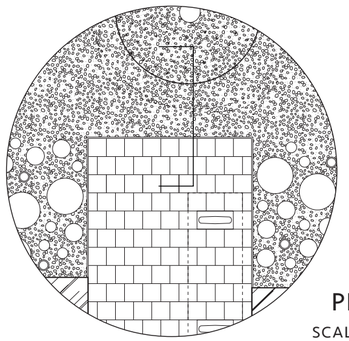
0 0.5 1 3 6(M)



phase 2

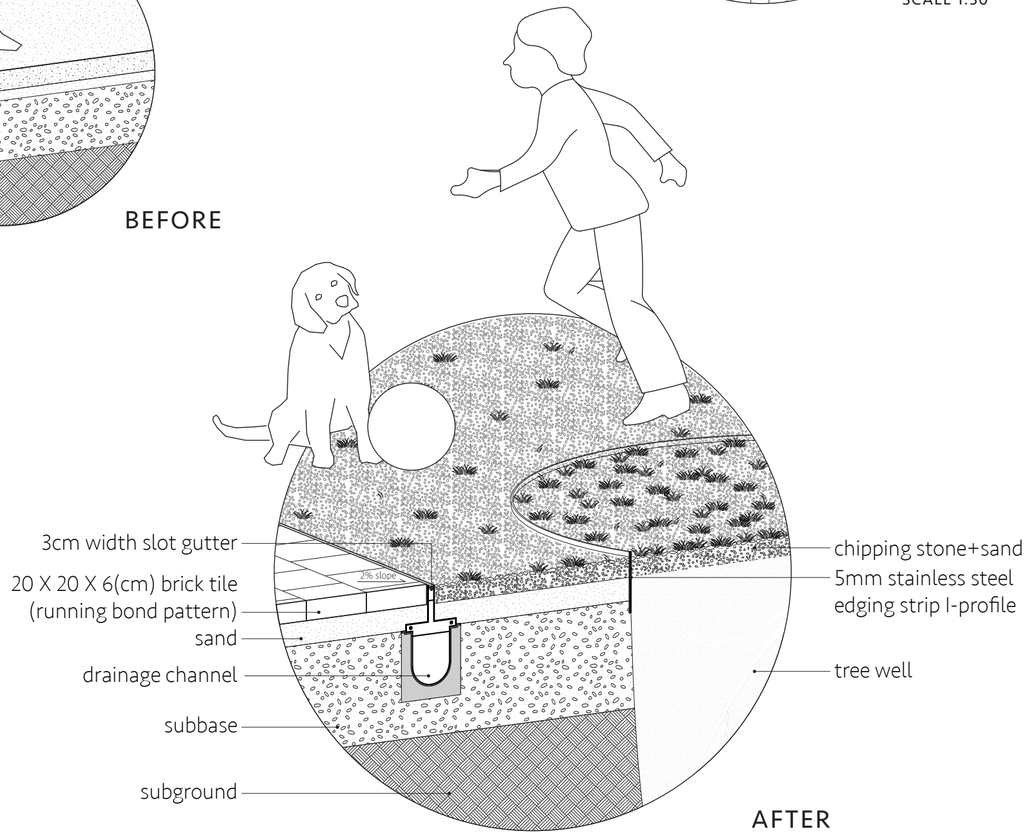


BEFORE



PLAN

SCALE 1:50



AFTER

Phase 3

Highlight the richness of the groundscape

-by intensifying the detectable clues of surroundings
-by stimulating the diversity of human behaviors

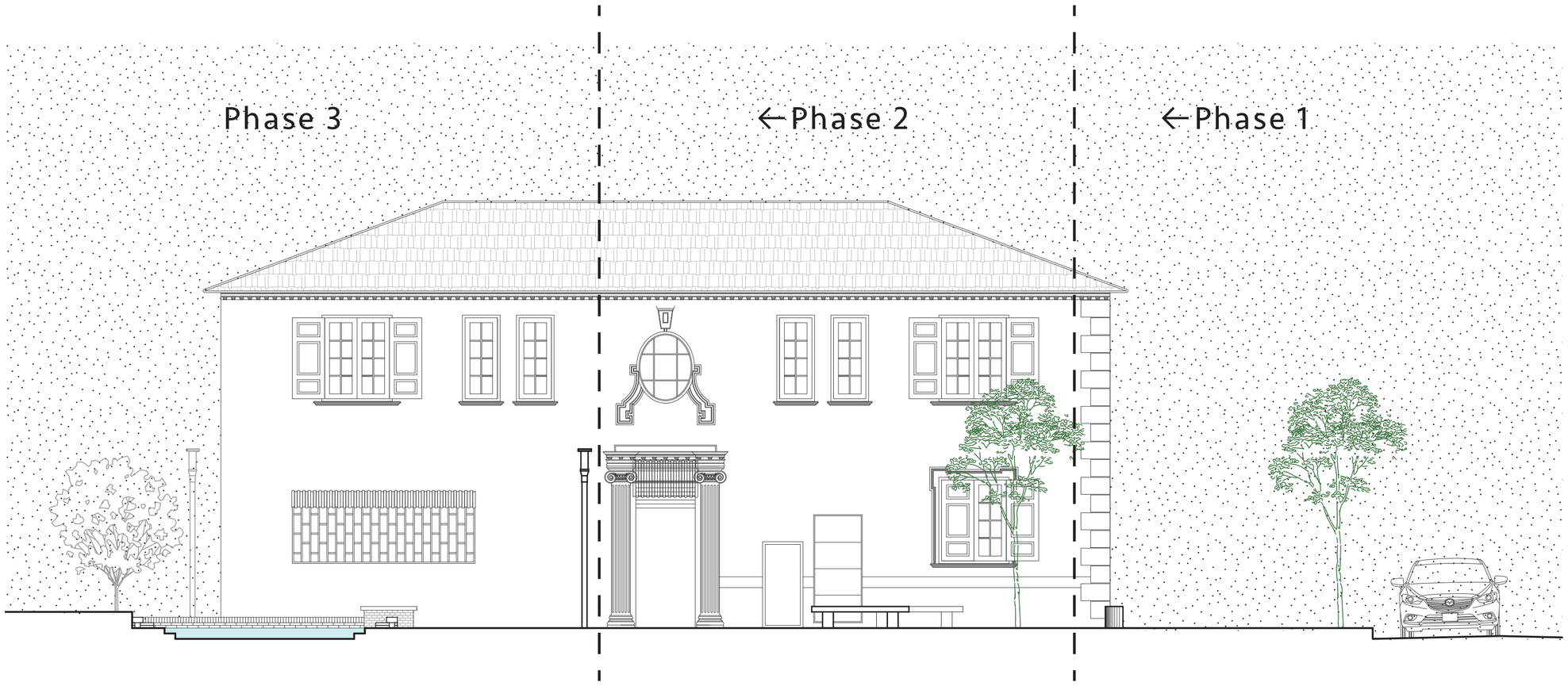
[Daily Behaviors]
walking, seating, listening, touching, feeling, resting
[Construction Actions]
installing 20x10cm brick tiles in herringbone pattern
laying bricks for acoustic seating and pool
removing the existing concrete paving (eg, marking, cutting)
replacing a few 20*20 brick tiles with street furniture



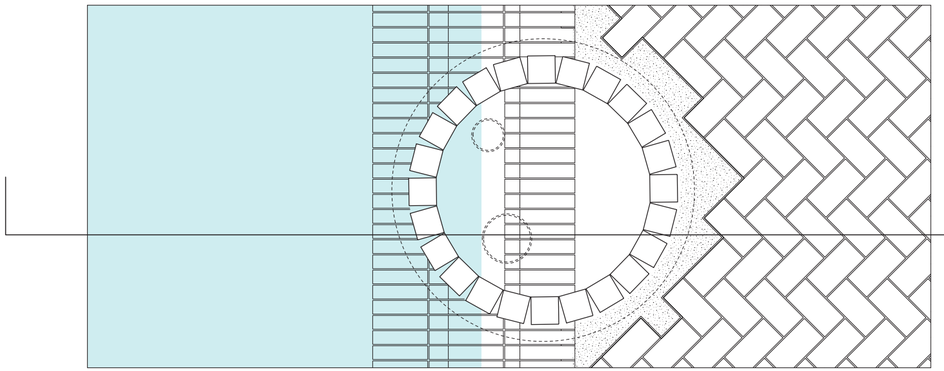
Highlighting the Richness of the Groundscape

PHASE 3

0 0.5 1 3 6(M)

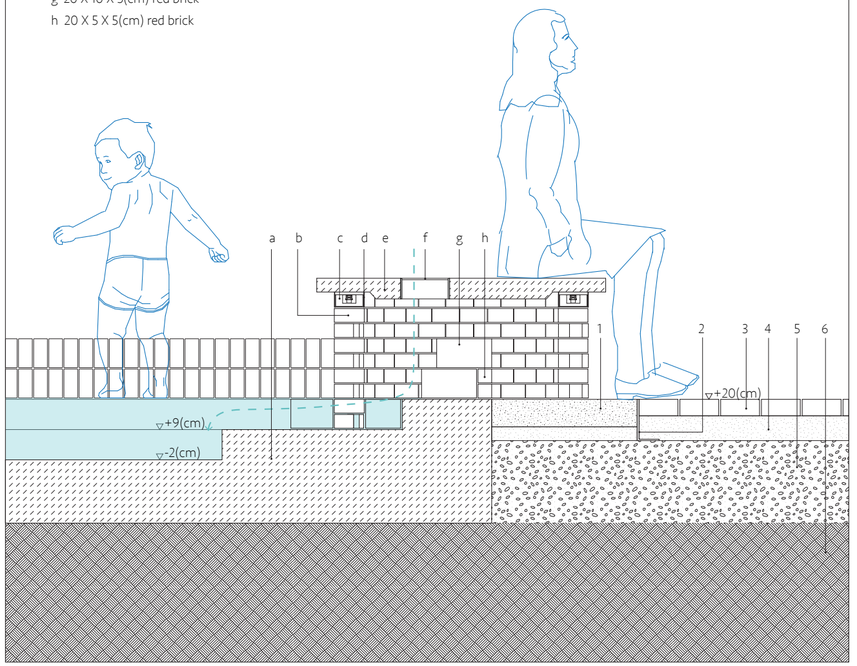

Phase 3
←Phase 2
←Phase 1





a in-situ pool support structure in water proof concrete
b 10 X 10 X 5(cm) red brick
c lamp installation with LED light
d 2mm perforated metalsheet over 3mm opal acrylic sheet
e precast concrete cover
f Ø18 cm stainless steel grille
g 20 X 10 X 5(cm) red brick
h 20 X 5 X 5(cm) red brick

1 existing concrete paving
2 5mm stainless steel edging strip L-profile
3 20 X 10 X 6(cm) brick tile, herringbone pattern
4 sand 5 subbase 6 subground







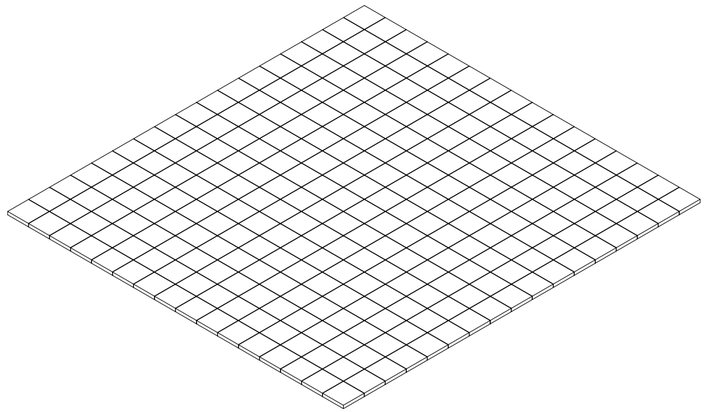
Phase 4

Increase the flexibility of paving system

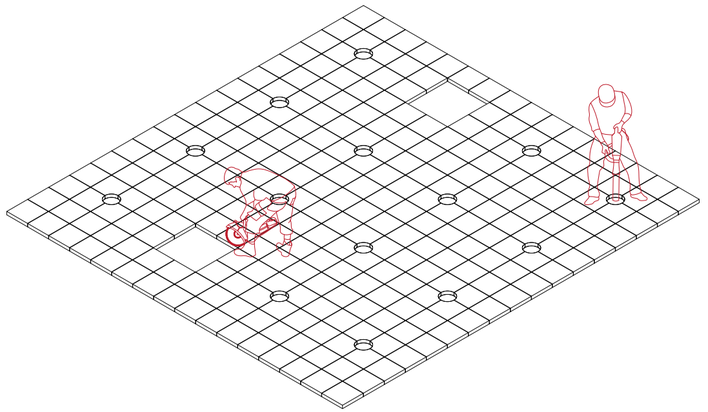
-by drilling holes in the existing paving
-by completing the modularized system

[Daily Behaviors]
walking, seating, listening, touching, feeling, resting, observing
[Construction Actions]
drilling holes, installing street furniture (eg, benches, lamps)
planting trees, laying grass turf

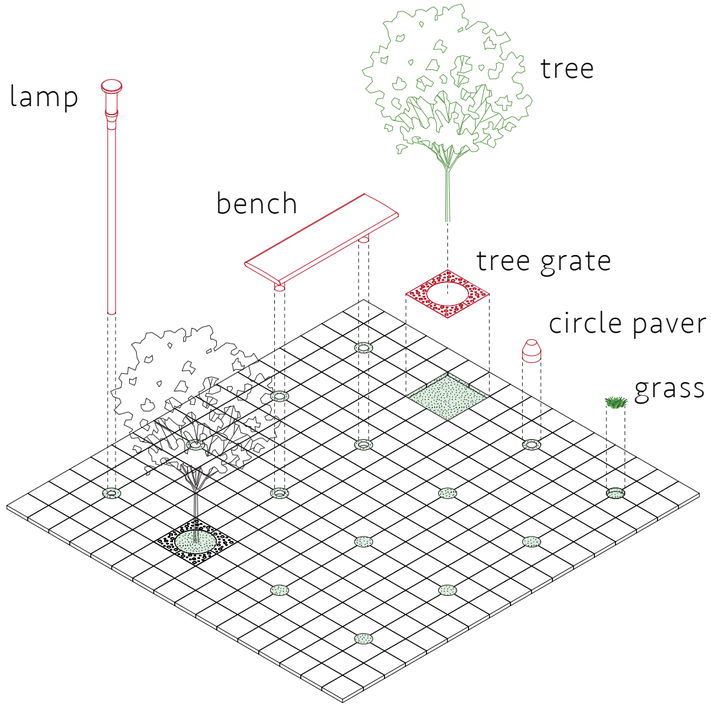

±0
+20
concrete tiles
grass bricks
street furniture
seating + illuminating
circle paver
street furniture
seating
20*20 brick tiles
chipping stone
crushed the existing tiles
ground recessed LED
concrete (stone pattern)
street lamp
concrete
10*20 brick tiles
concrete
street furniture
seating
street furniture
acoustic seating
pool
15*30 terracotta
35*35 terracotta
+20
+50
concrete
circle paver
bullnose bricks
10*20 terracotta
35*35 white tiles
concrete
PHASE 4
0 0.5 1 3 6(M)



existing paving
35 X 35 terracotta



cutting & drilling



the modularized system

I stand in the corner

while watching

He is drilling holes in the dark red ground

He is concentrating on cutting the tiles

with a circular machine,

meeting the eyes of another wonderor

smiling at each other

I do not hear the street anymore



in progress



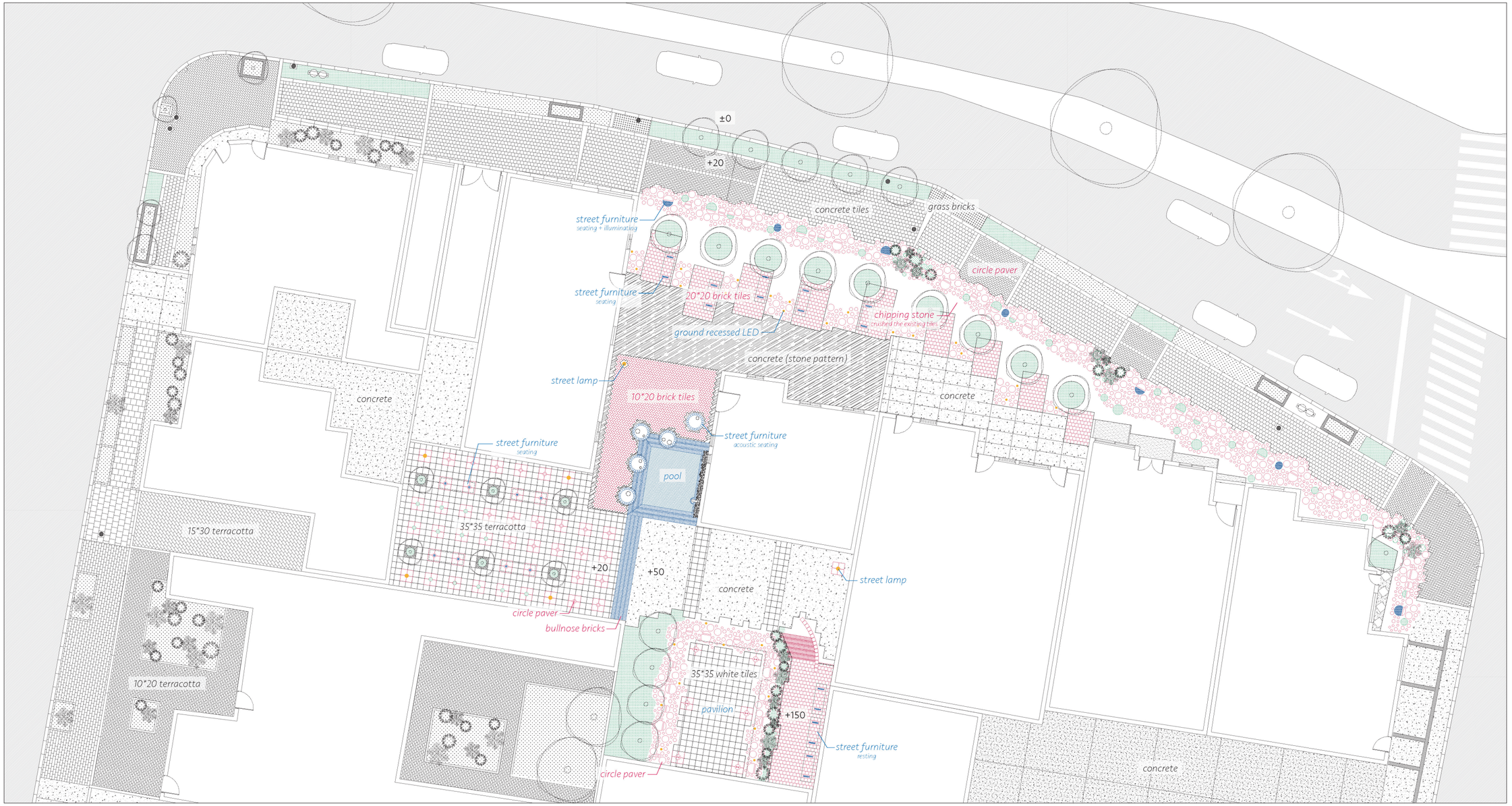
completed

Phase 5

Adapt to various social possibilities

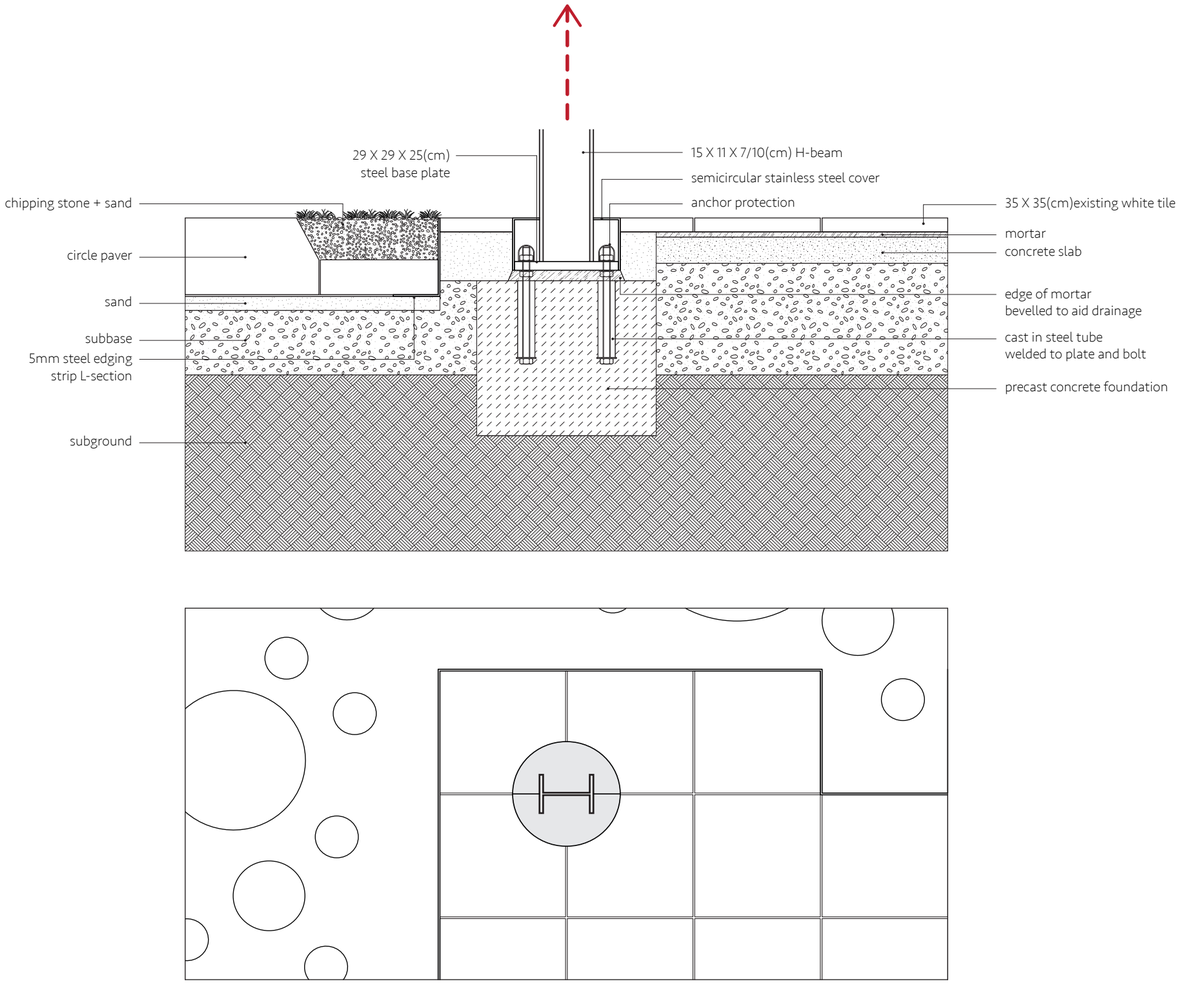
-by reconciling the boundaries between existing and new paving
-by providing alternatives for urban interiors

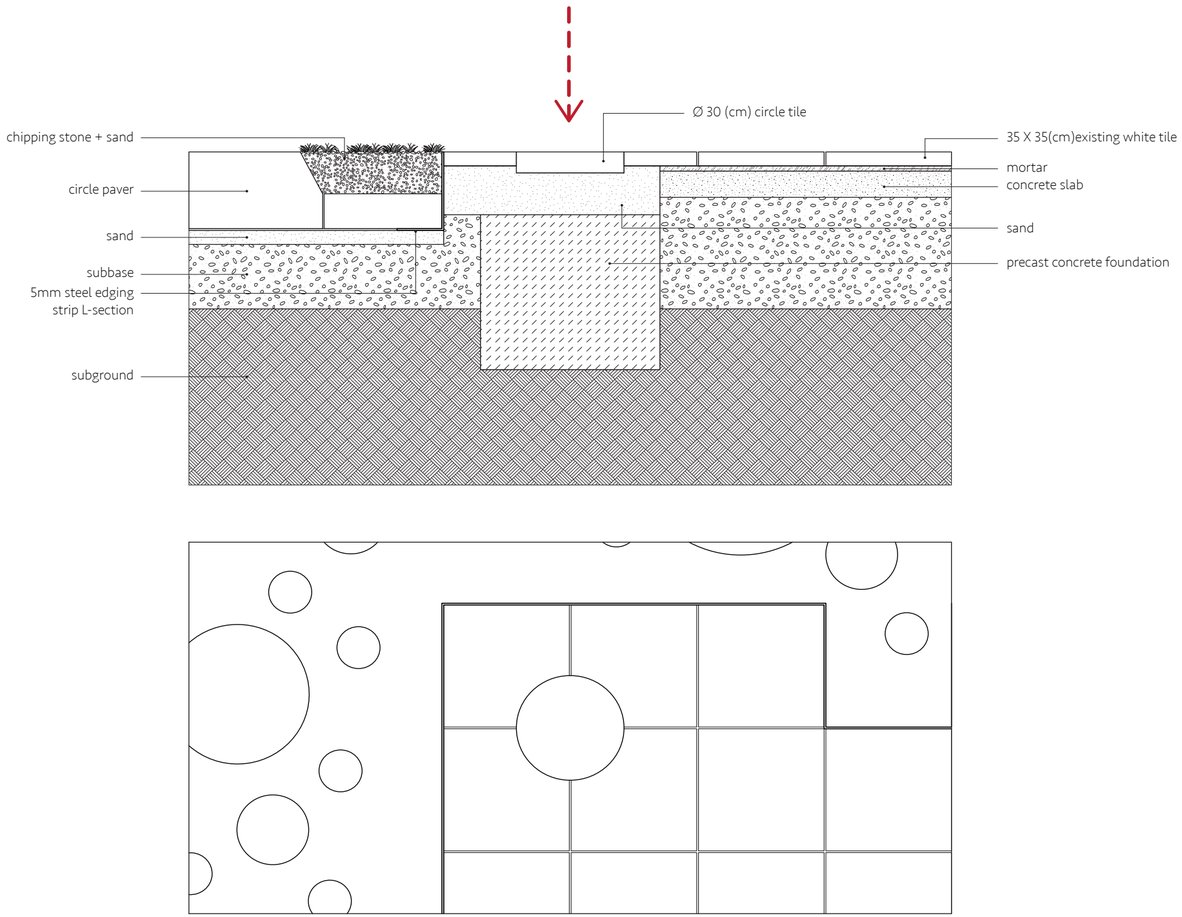
[Daily Behaviors]
walking, seating, listening, touching, feeling, resting, observing, gathering, exploring
[Construction Actions]
installing circle paver, drilling holes, cutting and removing the existing paving
planting trees, laying grass turf, installing benches
building the raised platform (eg, earthwork, reinforcing the stones)
constructing brick steps, installing ground recessed LED
building a pavilion which extends from the existing façade pattern



PHASE 5

0 0.5 1 3 6(M)

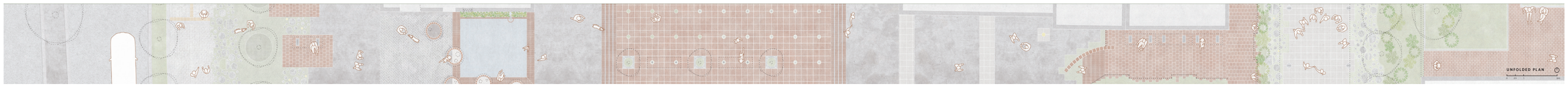

29 X 29 X 25(cm)
steel base plate
15 X 11 X 7/10(cm) H-beam
semicircular stainless steel cover
anchor protection
chipping stone + sand
circle paver
sand
subbase
5mm steel edging
strip L-section
subground
35 X 35(cm)existing white tile
mortar
concrete slab
edge of mortar
bevelled to aid drainage
cast in steel tube
welded to plate and bolt
precast concrete foundation


Ø 30 (cm) circle tile
chipping stone + sand
circle paver
sand
subbase
5mm steel edging
strip L-section
subground
35 X 35(cm)existing white tile
mortar
concrete slab
sand
precast concrete foundation






ROAD
REFUGE ISLAND
ROAD
SIDEWALK
FRONTYARD
COURTYARD
BACKYARD
asphalt
concrete
asphalt
vegetation
concrete tiles
circle pavers
vegetation
brick tiles
concrete
brick tiles
pool
concrete
brick stairs
vegetation
terracotta
vegetation
terracotta
vegetation
terracotta
brick stairs
concrete
white tiles
concrete
white tiles
concrete
chipping + sand
brick stairs
brick tiles
vegetation
circle pavers
white tiles
circle pavers
vegetation
brick tiles
vegetation
UNFOLDED SECTION


UNFOLDED PLAN




PASARÁ
EL
METRO







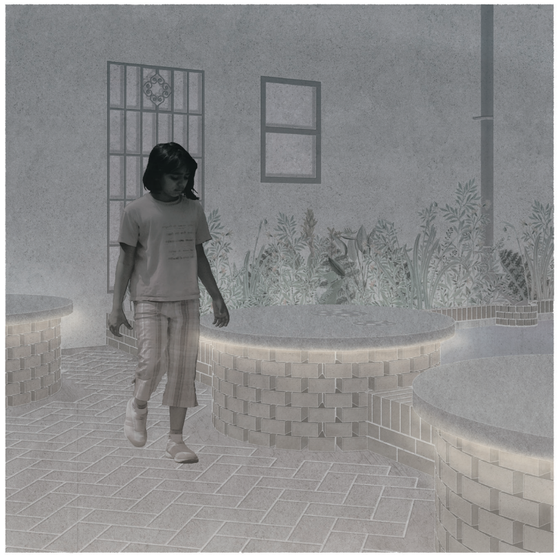






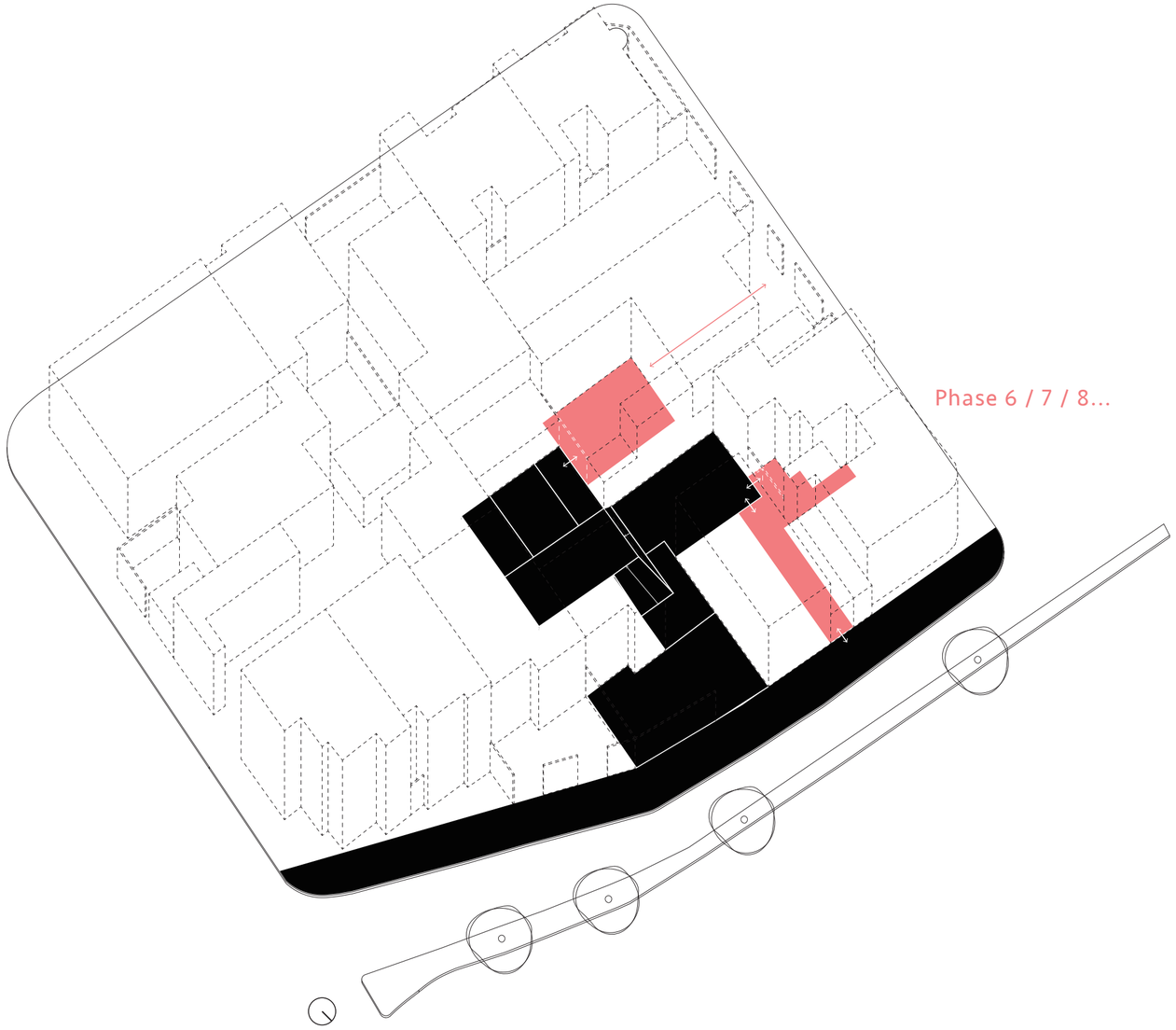








the Future Prospect

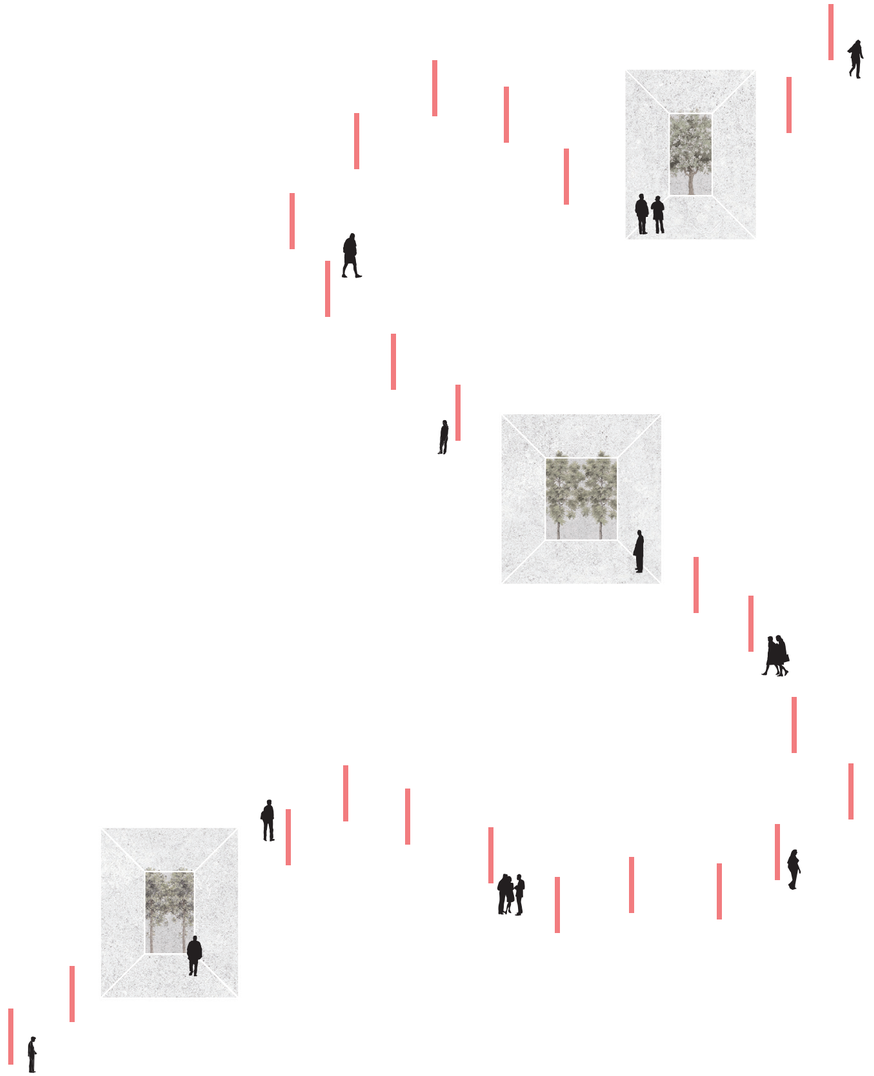


the Future Prospect



the generation of things as an episode of the whole

the Future Prospect



a stream of public spaces

5
REFLECTION

Reflection 1 : the Beauty of Normality



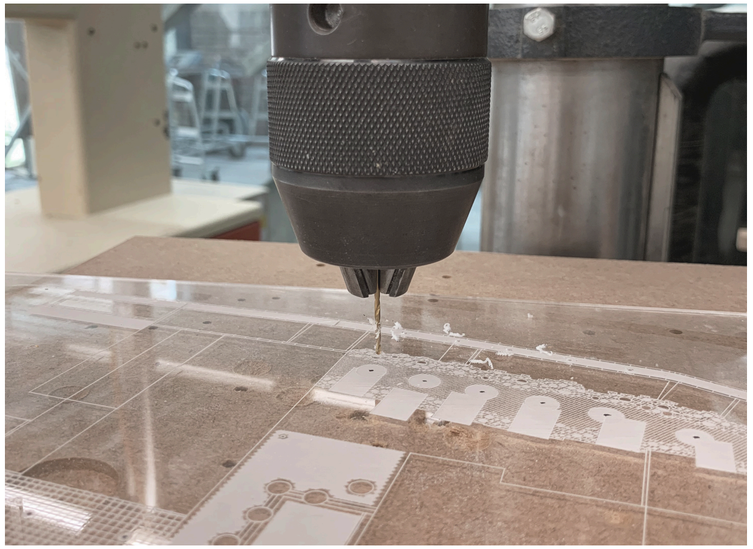


Reflection 2 : the Forming Process and Representation



Reflection 2 : the Forming Process and Representation



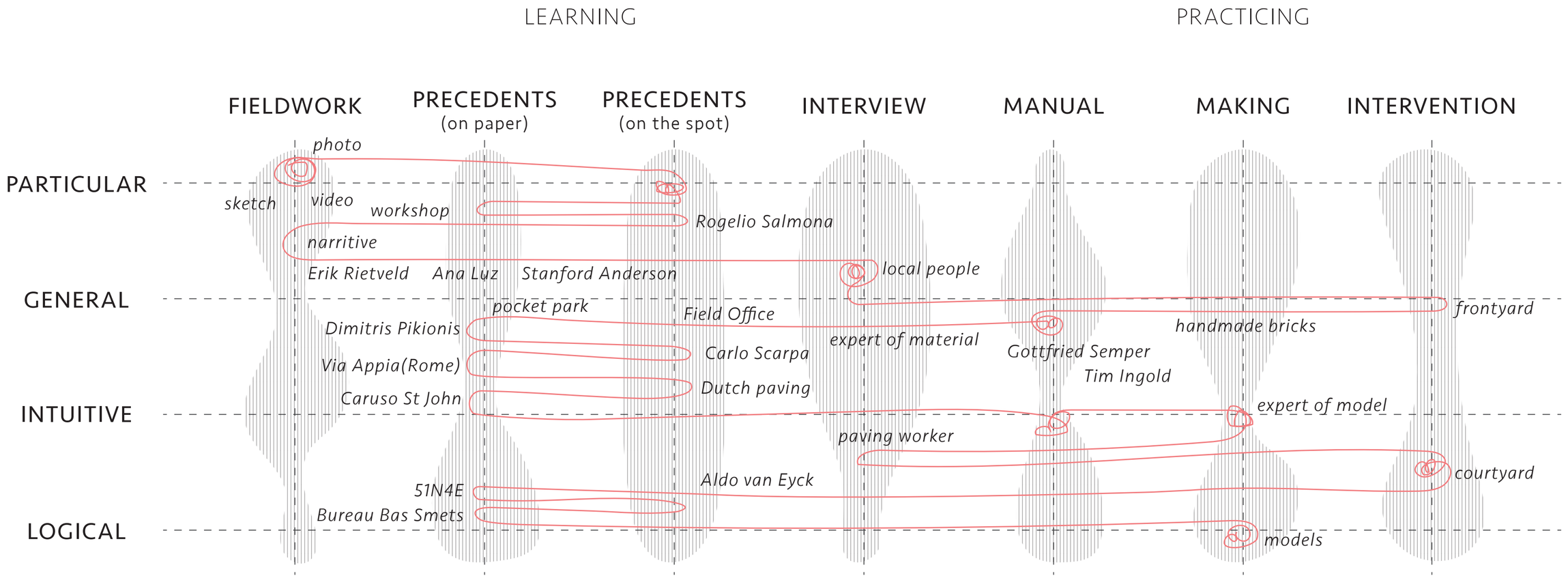




Reflection 3: the Heuristic Journey



Reflection 3: the Heuristic Journey



Me as an Architect / a Maker / a User

THANK YOU FOR BEING HERE :)