Addis Ababa

2005

2011

2016

Built Mass vs. Open Space

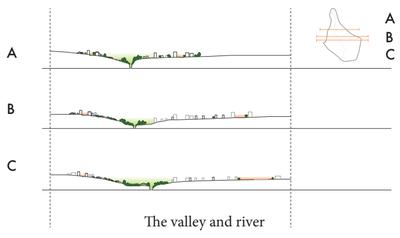
Gradient of Open Spaces

Negative Space

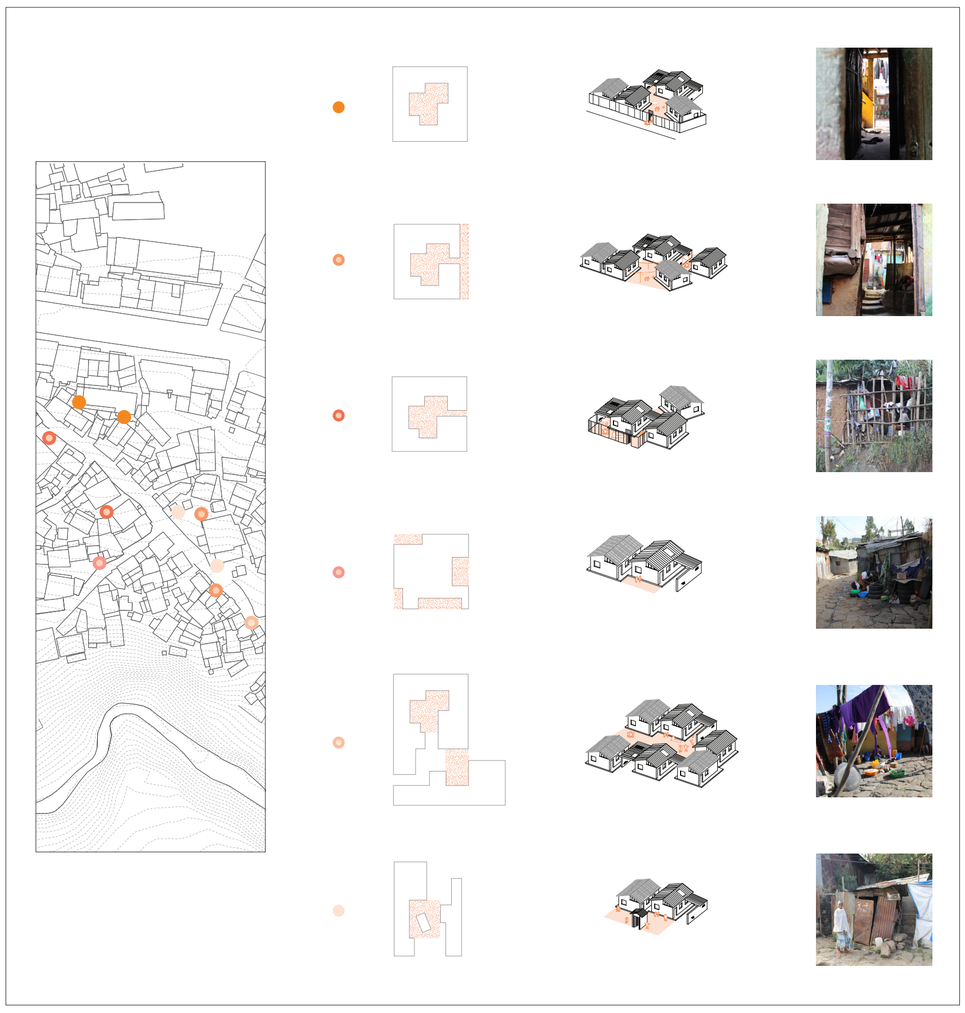
Connections

Arada

The valley and river



The valley and river



Social Spaces Pattern

Income Generation Pattern

The commercial roads as a border

Using the existing connections to articulate the HSR and the river

The intervention contributing to revitalizing the river

Bridges connect both sides of the river

Creating a scenic footpath along the river

Preserving the social spaces gradient

Accessible river and vegetable gardens

The Public Axis

The River

The Meeting Place

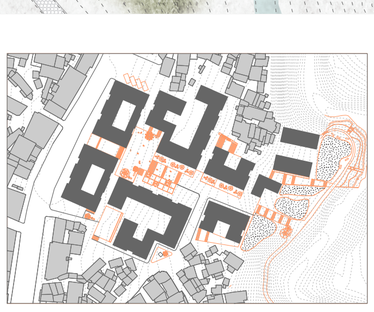
The In Between Space

MASTERPLAN
1:500

The first blocks are built on empty ground, to start the phase of relocating inhabitants of the existing sefer.

To introduce the public main axis, public functions are implemented such as a public square and a market structure, where vendors but also the owners of the existing vegetable garden can generate income.

The cluster blocks along the main axis are built together in construction phases, connecting the neighbouring informal settlements to the new plan and also providing them with the connection from the HSR to the river. At the same time the revitalization of the river is occuring.



The cluster blocks bordering to the informal settlements are now completed, finishing the last phase of the masterplan.

THE COMMERCIAL PLINTH
user diversity *formality*

THE MARKET
user diversity *formality*

THE VEGETABLE GARDEN
user diversity *formality*

PUBLIC ROUTE
1:500

THE CLOSED COURTYARD
user diversity

THE ALLEY
user diversity

THE VISIBLE COURTYARD
user diversity

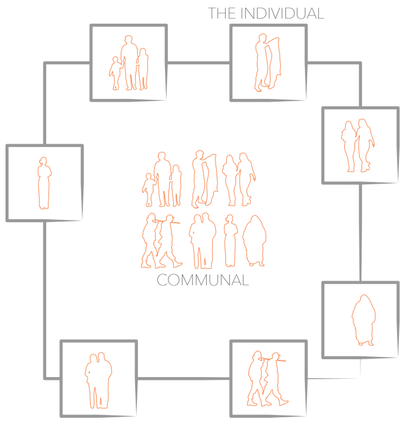
THE MEETING PLACE
user diversity

THE CORNER SHOP
user diversity

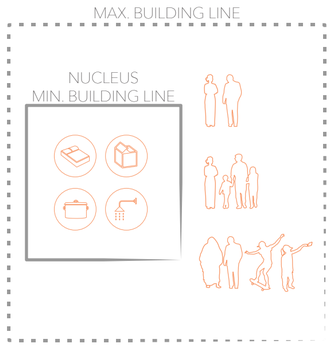
THE OPEN COURTYARD
user diversity

THE RIVER
user diversity

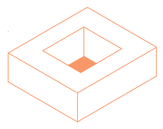
RESIDENTIAL ROUTE
1:500



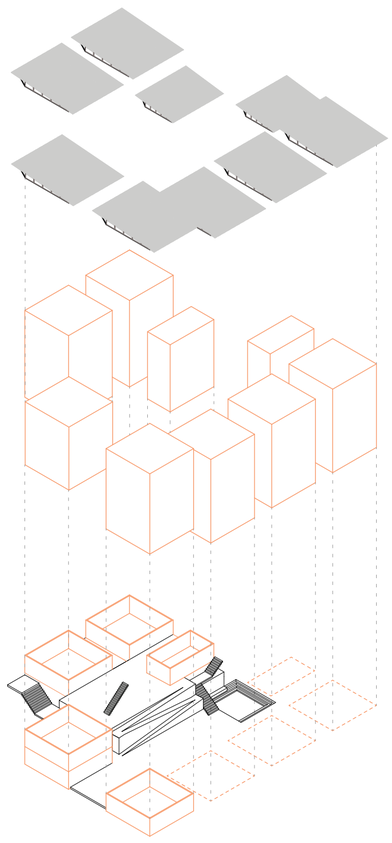
Theory of Inspiration
Hertzberger, H.



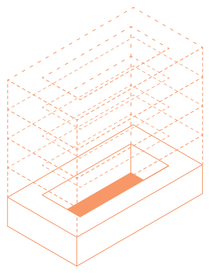
Theory of Inspiration
Bakema, J. B.



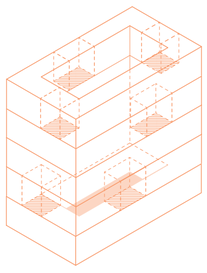
Courtyard typology
Sense of Community



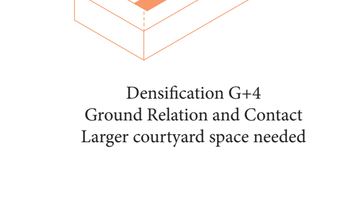
Ground Floor exception function
Commercial Plinth and Storage



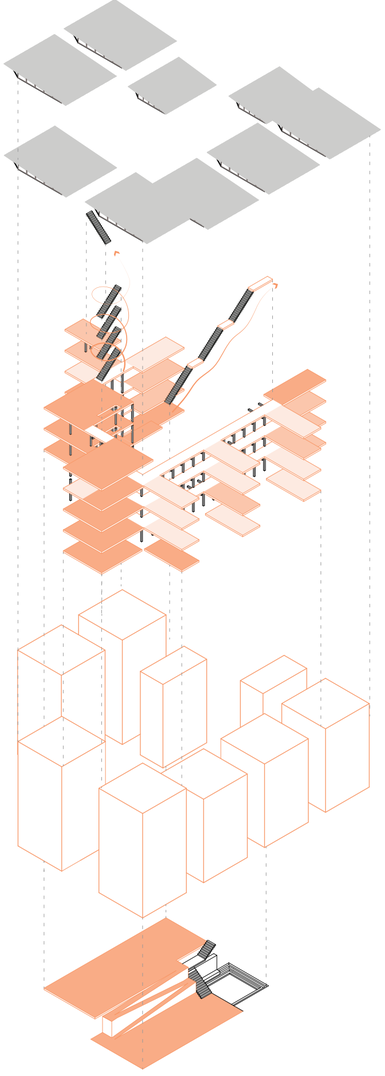
Densification G+4
Ground Relation and Contact
Larger courtyard space needed



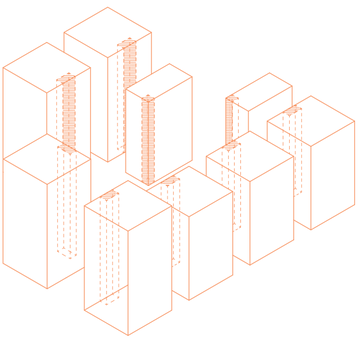
Collective space on each level



Anchors catering for Essential functions



Hierarchy of 'Space for Time'



Space for time meandering between Anchors

Organization of collectivity and privacy

LEVEL 0
+1200
1:200

LEVEL 3
+11100

LEVEL 1
+4500

+5630
+4500
+2000
+4500
+5630
+4500
+4500

LEVEL 2
+7800

+7800
+6630
+5630
+4500
+5630
+7800
+7800
+4500

LEVEL 4
+14400

+14400

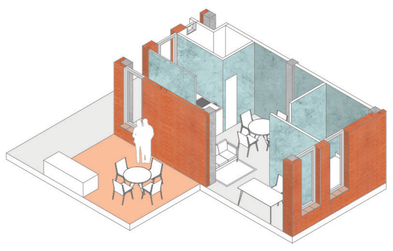
LEVEL 5
+17700

+17700

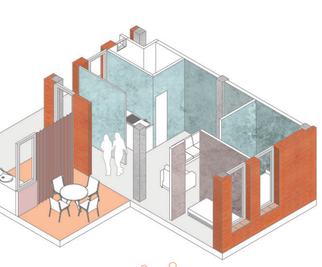
East Elevation - Alley view

East Elevation - Courtyard view

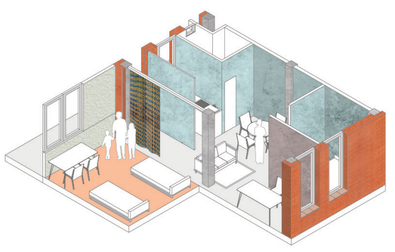
Facade System



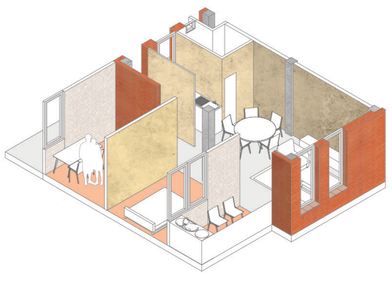
young couple
‘space for time’ initial appropriation- simple use of outdoor space
floor area: 47m^2
23.5 m^2 p. person



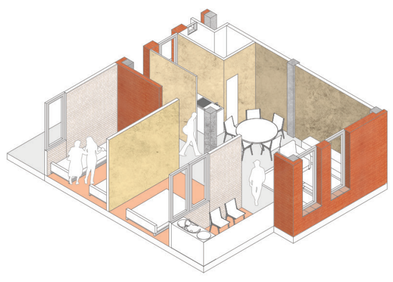
young couple- first child
extra sleeping room,
‘space for time’ as partial in and out-door space
floor area: 47m^2
16 m^2 p. person



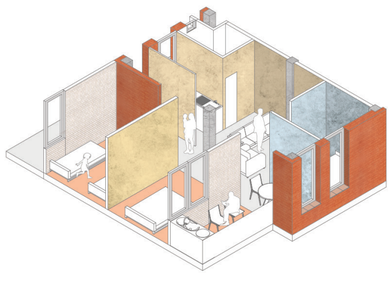
young couple- two children
‘space for time’ as complete indoor space for extra sleeping room
floor area: 47m^2
11.75 m^2 p. person



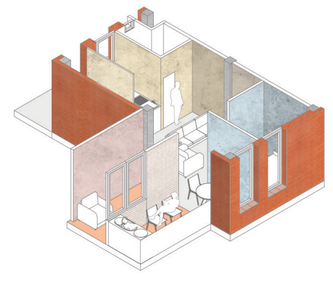
couple- planning to start family
‘space for time’ 2 rooms and a private outdoor space
floor area: 59m^2
29.5 m^2 p. person



couple- two teenage children
‘space for time’ extra sleeping room and a private outdoor space
floor area: 59m^2
14.75 m^2 p. person



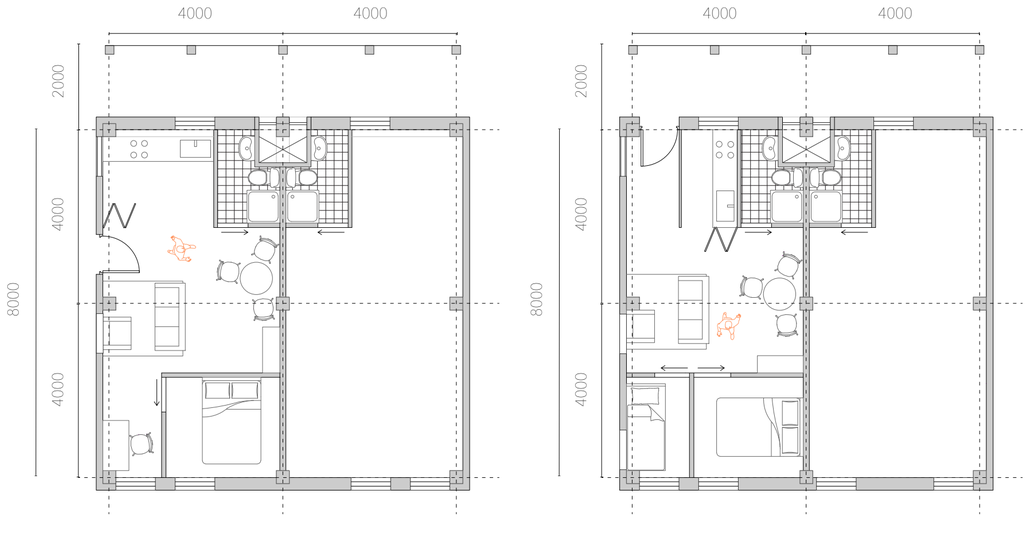
older couple- children and grandchildren
‘space for time’ two sleeping rooms and a private outdoor space
floor area: 59m^2
9.8 m^2 p. person



older couple- moved out children
‘space for time’ partially sold back - partial in and out-door space
floor area: 59m^2
22 m^2 p. person

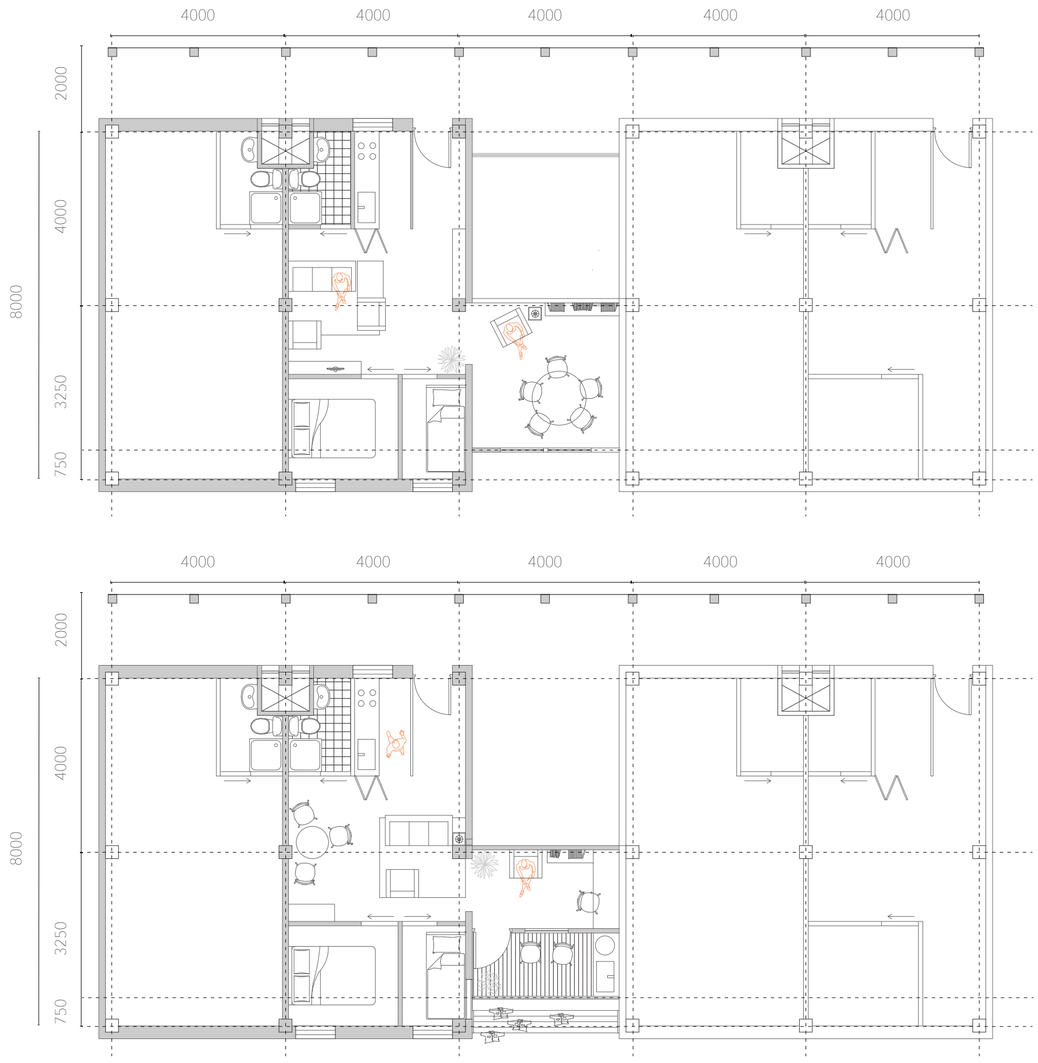
THE MODULE

32m²



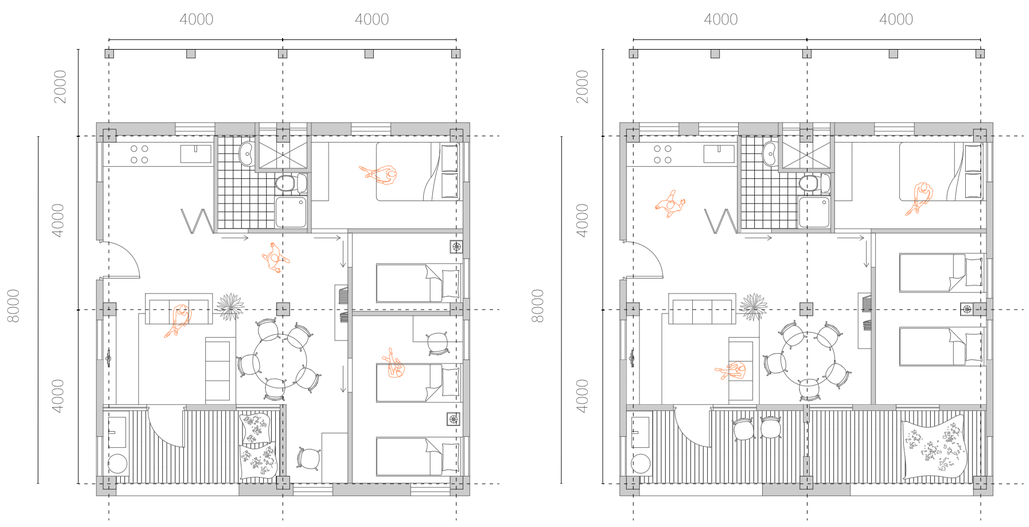
THE MODULE + A

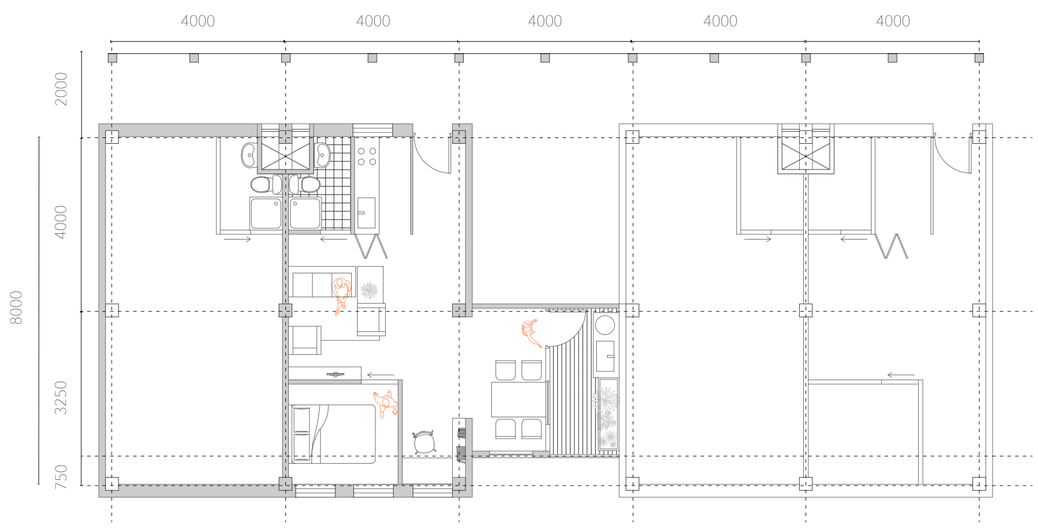
59m²



THE ANCHOR

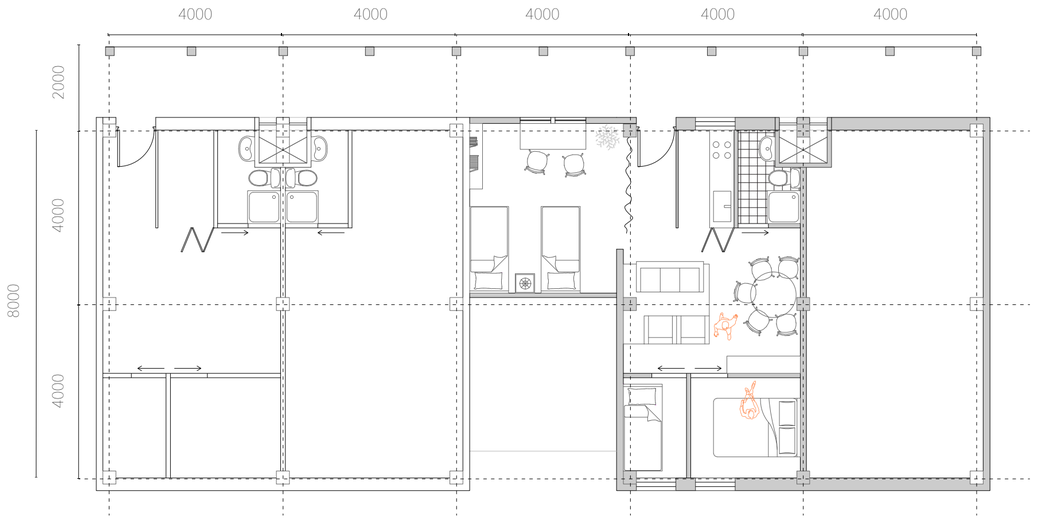
64m²





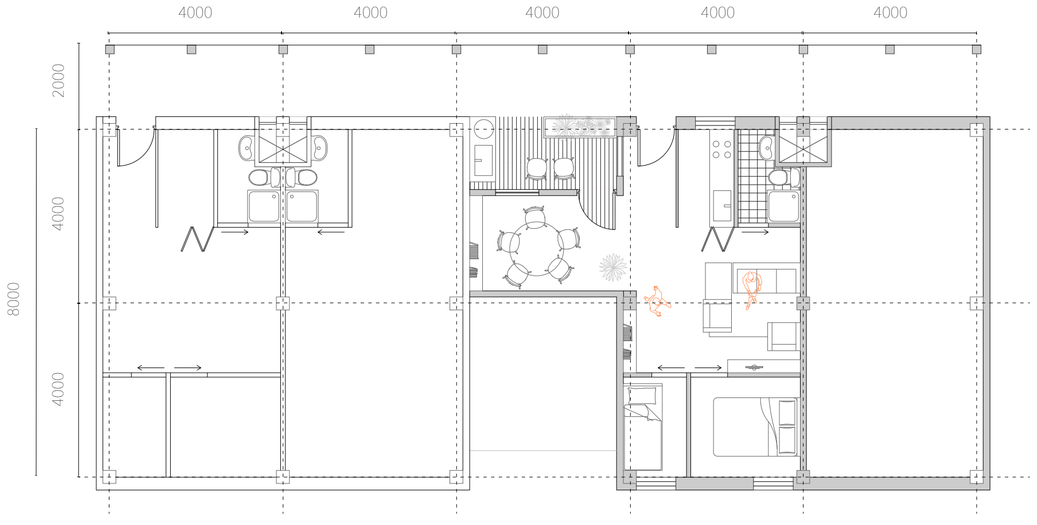
THE MODULE + B

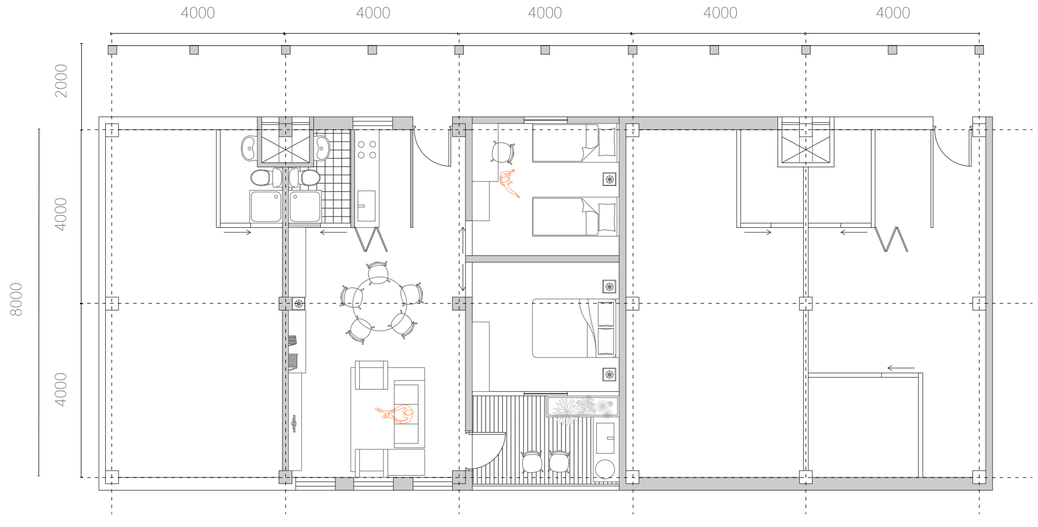
47m²

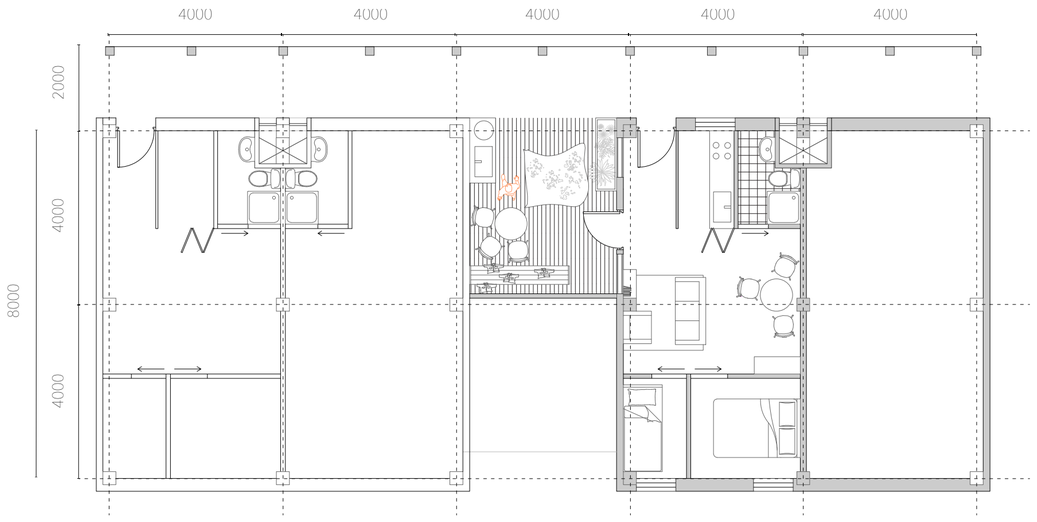


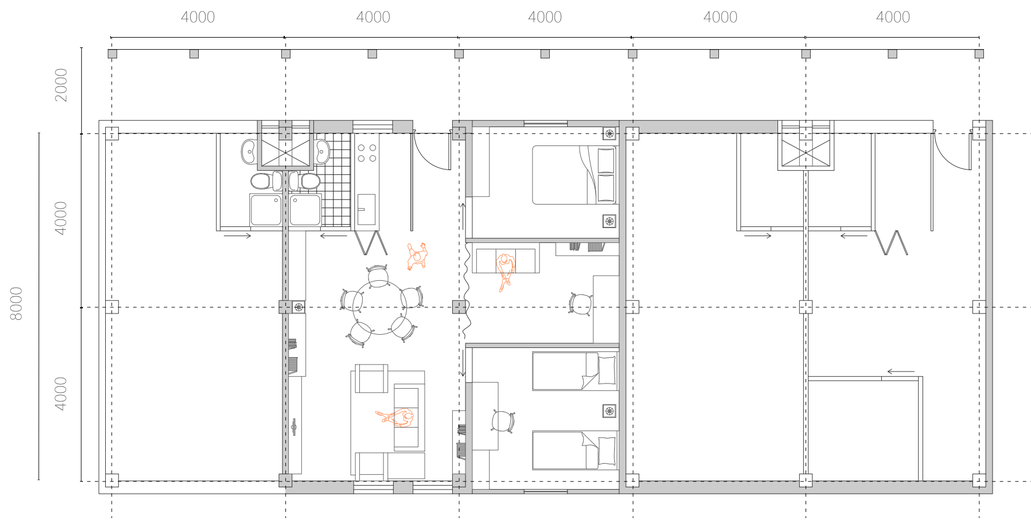
THE MODULE + C

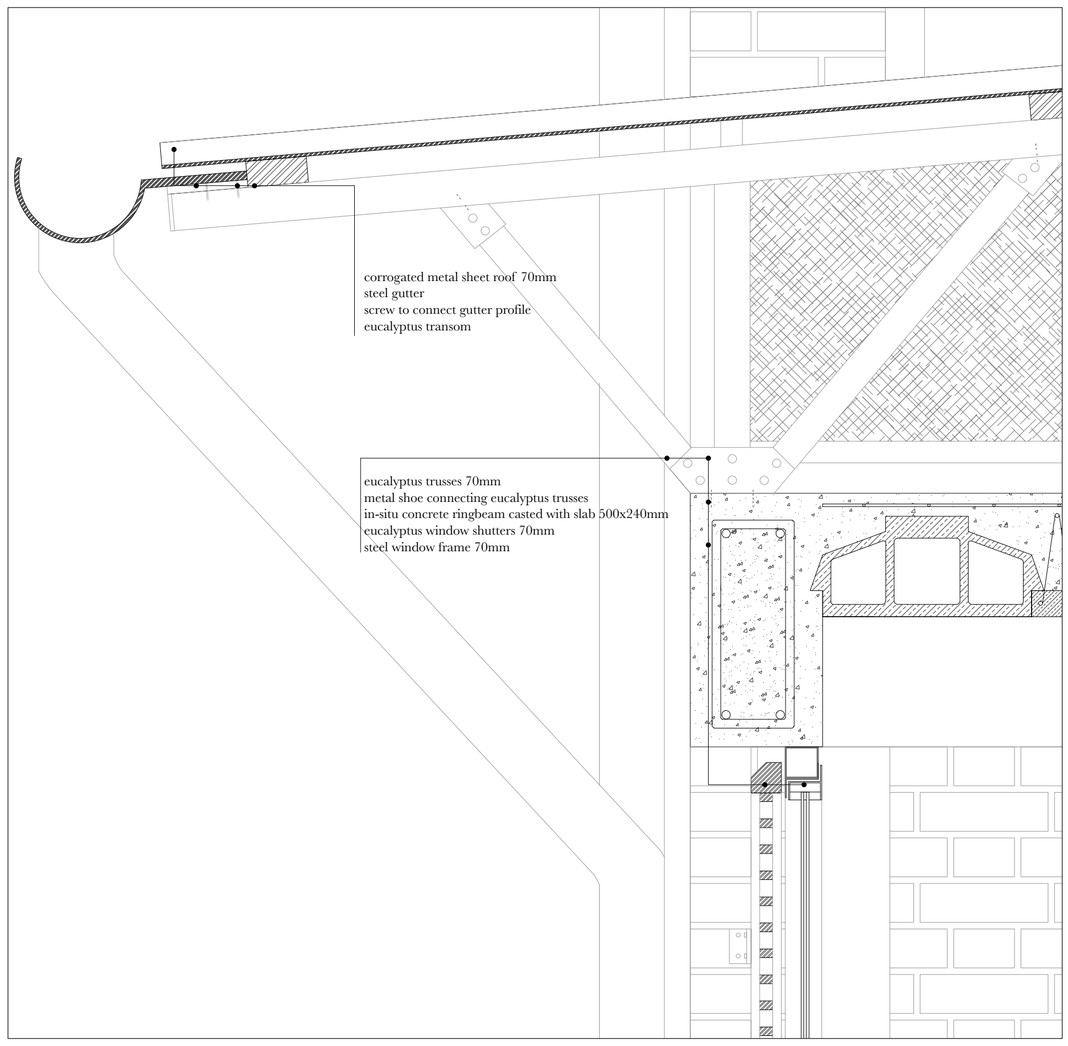
64m²



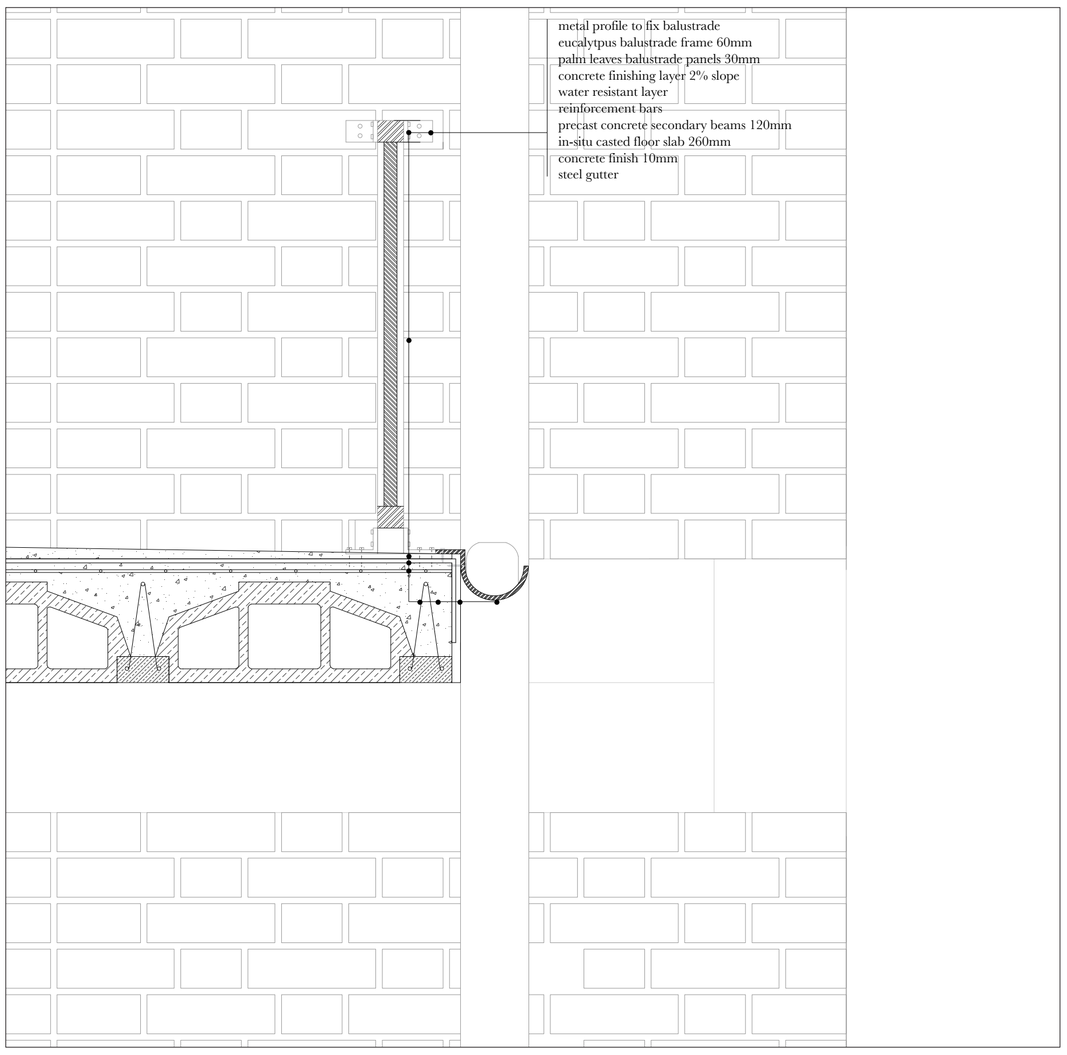




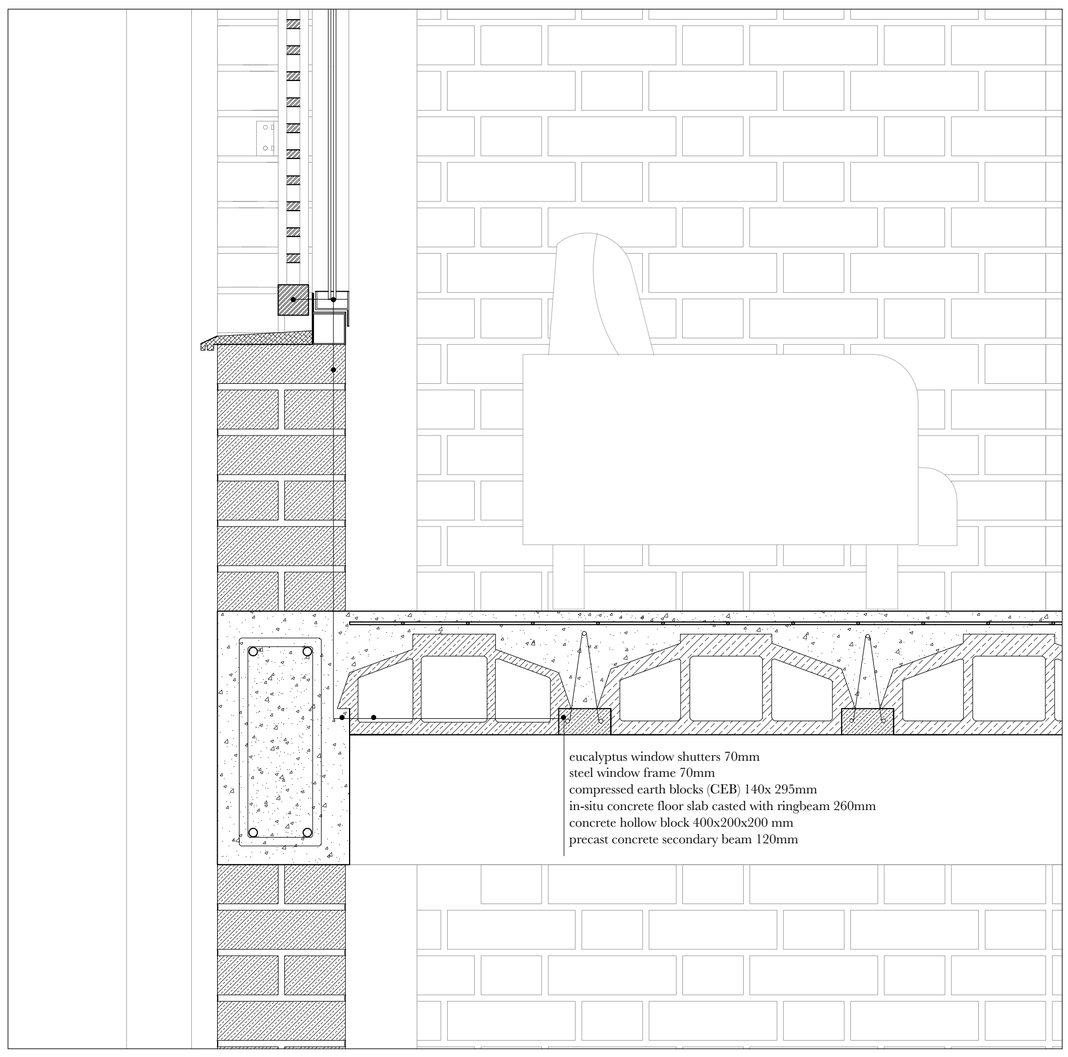




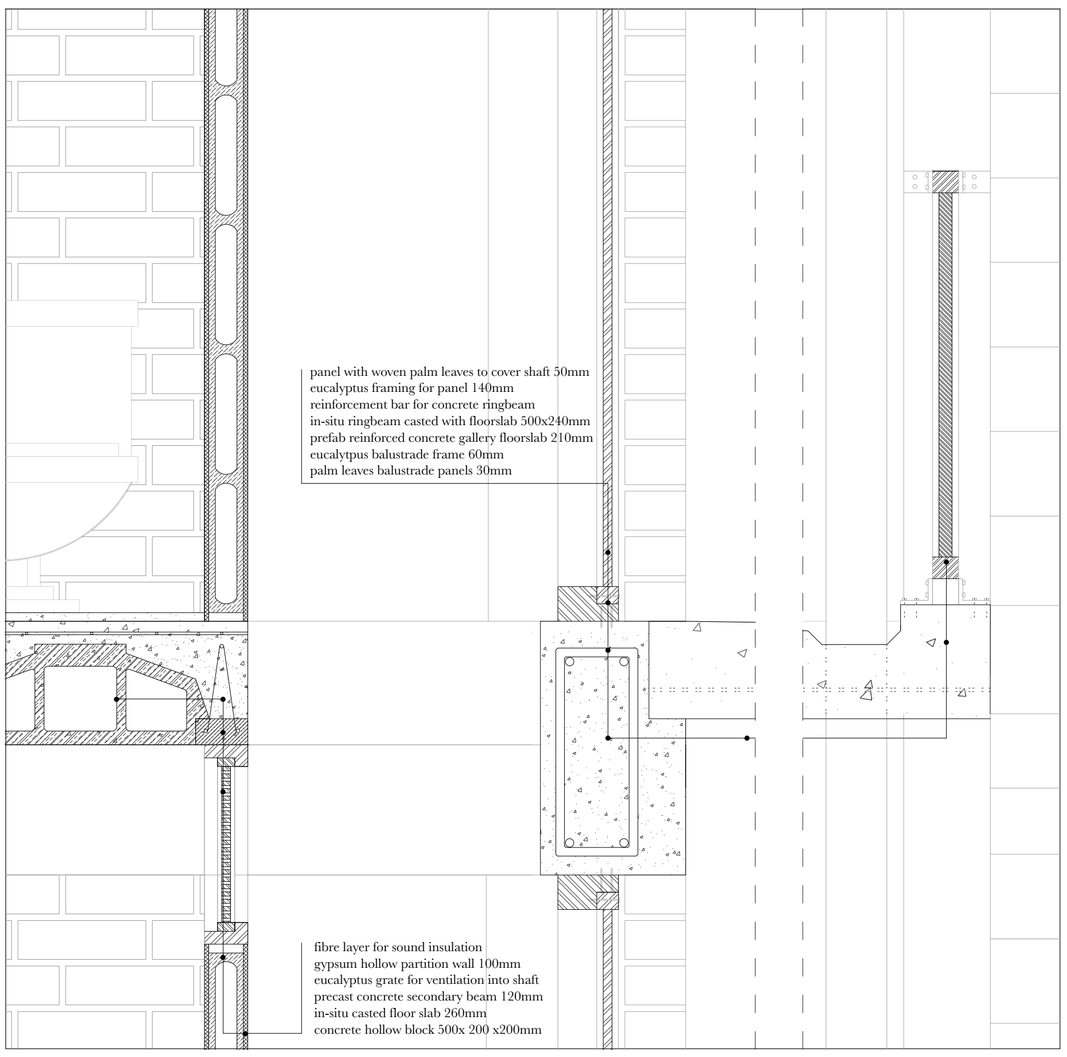
Roof Detail 1:10



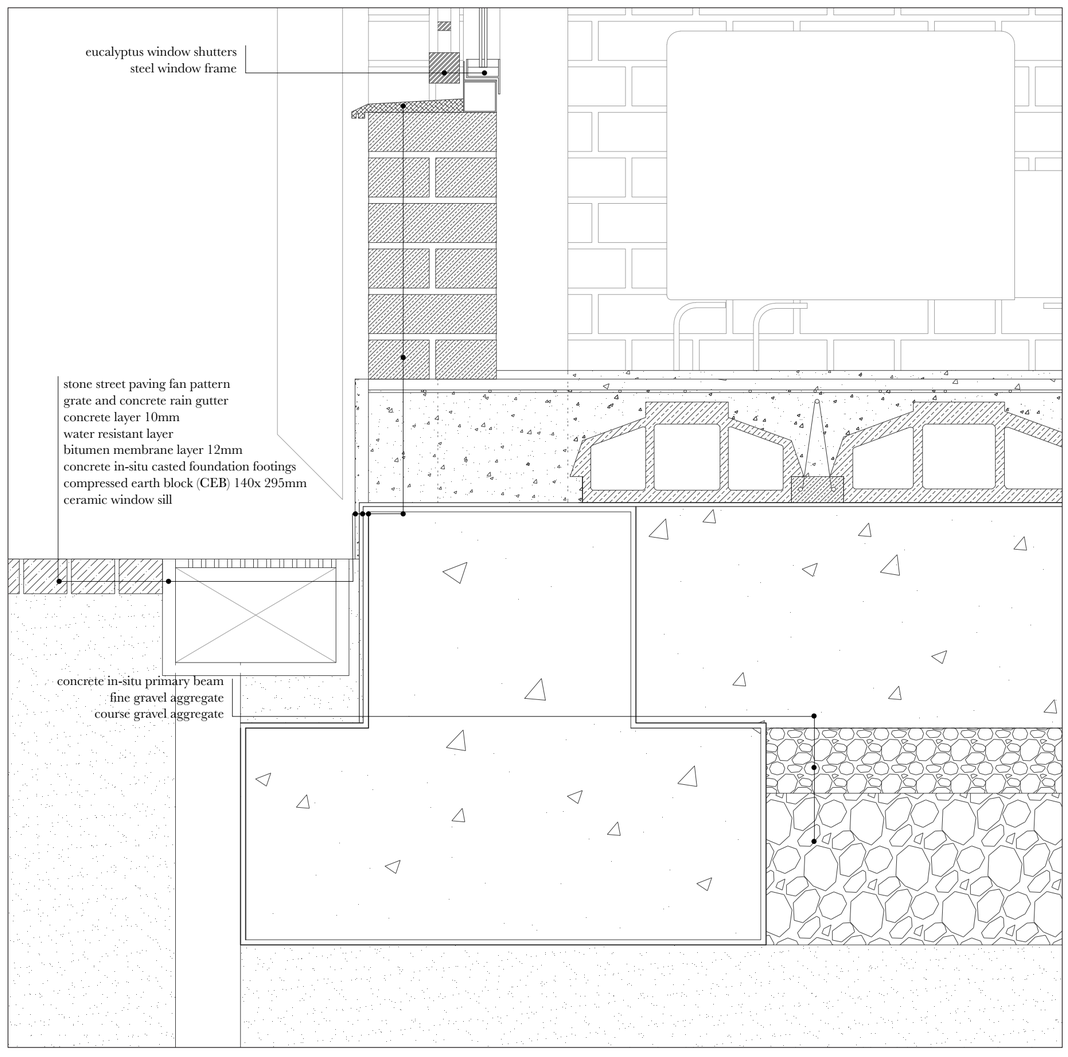
'Space for Time' Floorslab 1:10



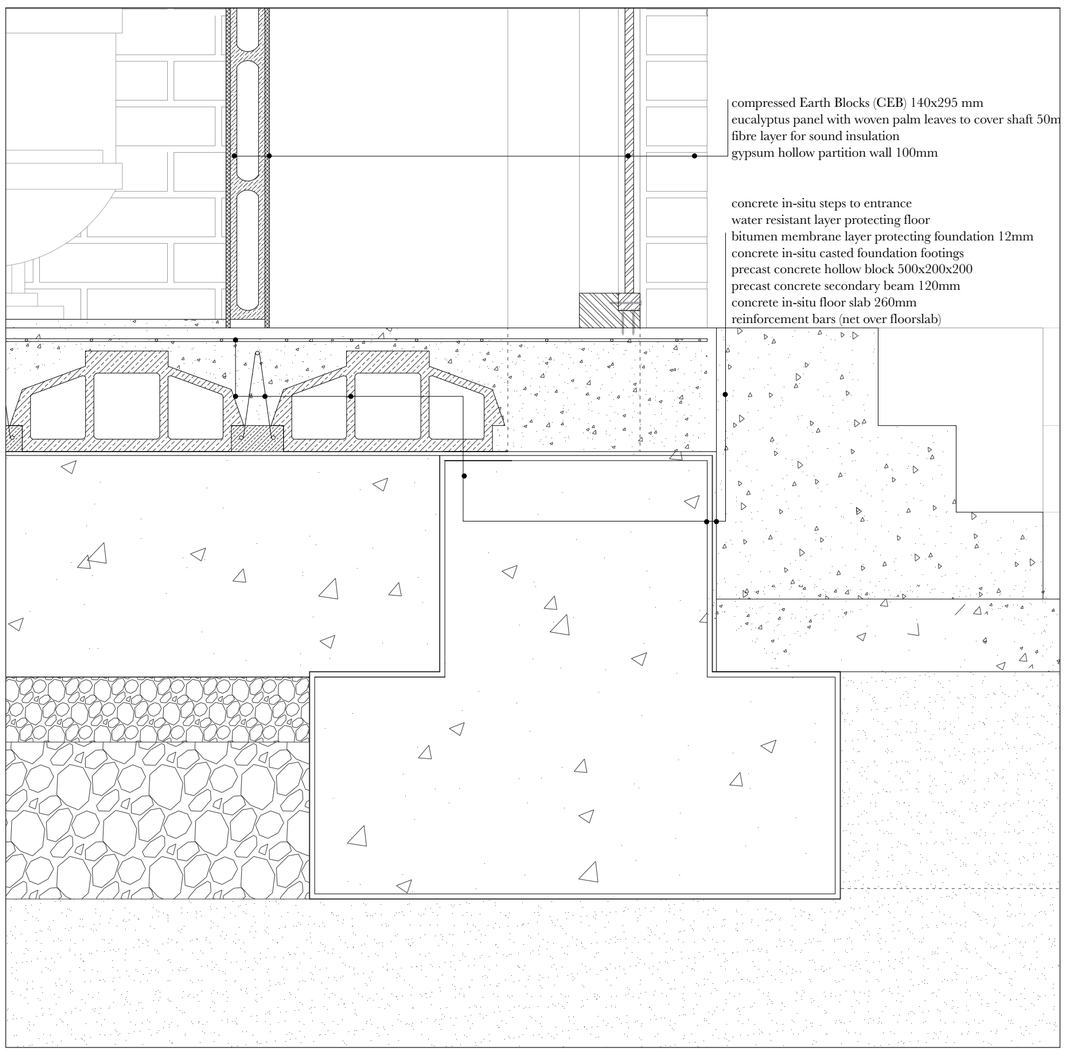
Floor and Facade connection 1:10



Gallery connection 1:10

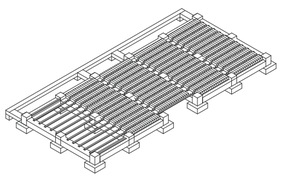


Foundation Street Side 1:10

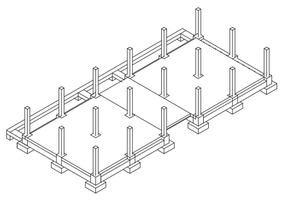


Foundation courtyard side 1:10

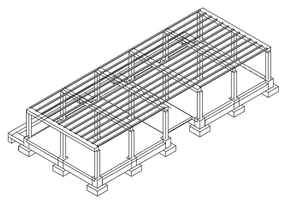
DETAILS
1:10



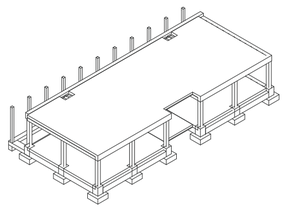
Foundation and Prefabricated floor elements



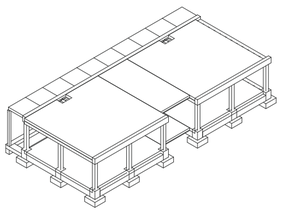
Concrete poured floor and In-situ casted columns



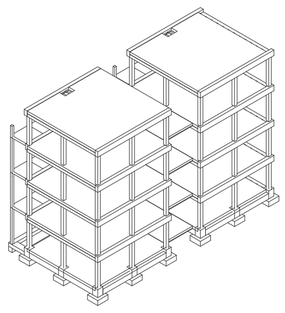
Prefabricated floor elements mounted



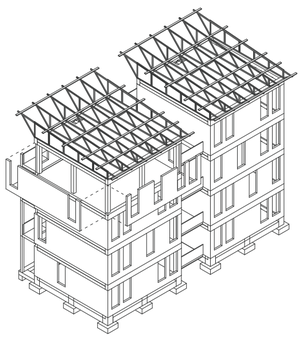
Concrete poured floor, with shaft opening



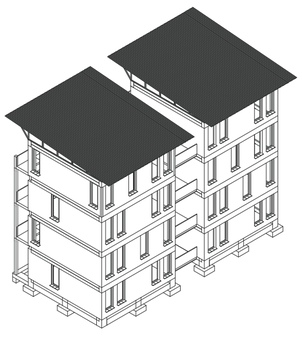
Prefabricated Gallery floor slabs



Construction repeated on 4 levels



Compressed Earth Blocks as facade infill and construction of Eucalyptus roof trusses



Corrugated metal sheet roofing and steel window frame placement

Building Sequence

Corrugated Metal Sheet roof

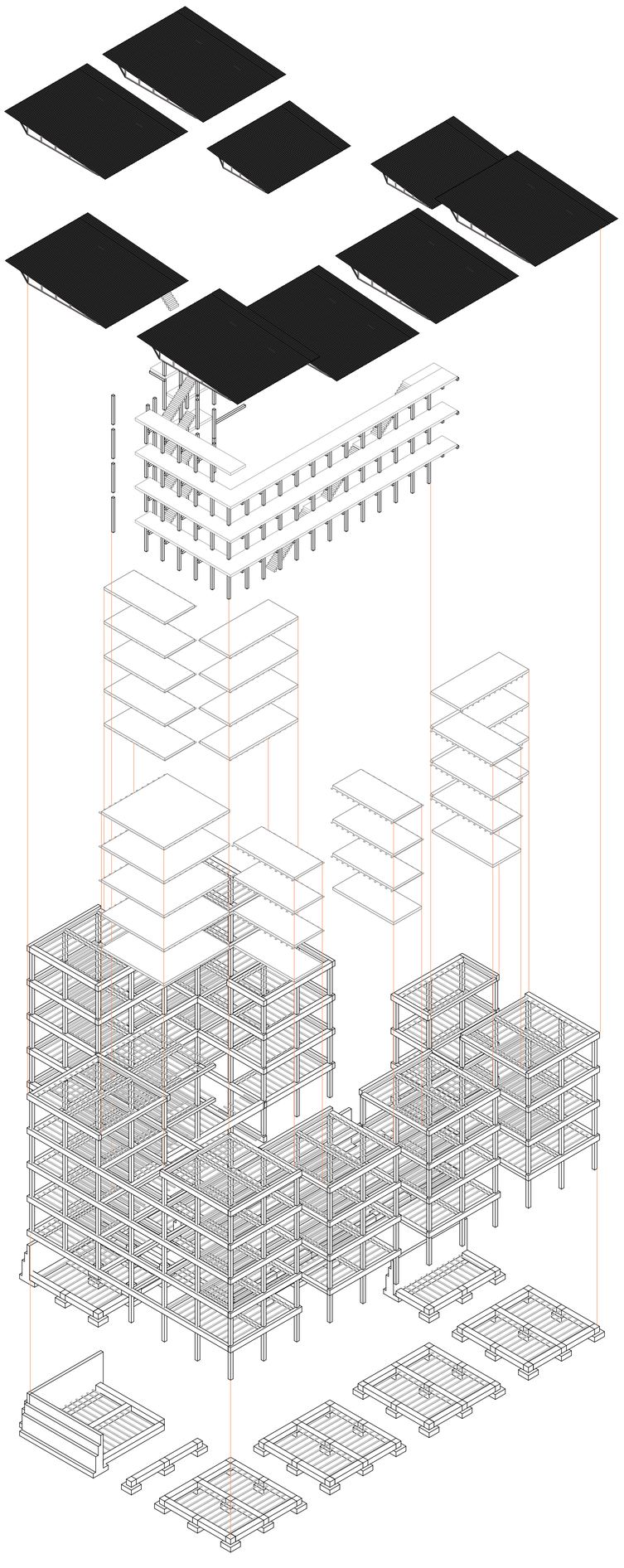
Eucalyptus timber light structures

Woven Palm leaves panels

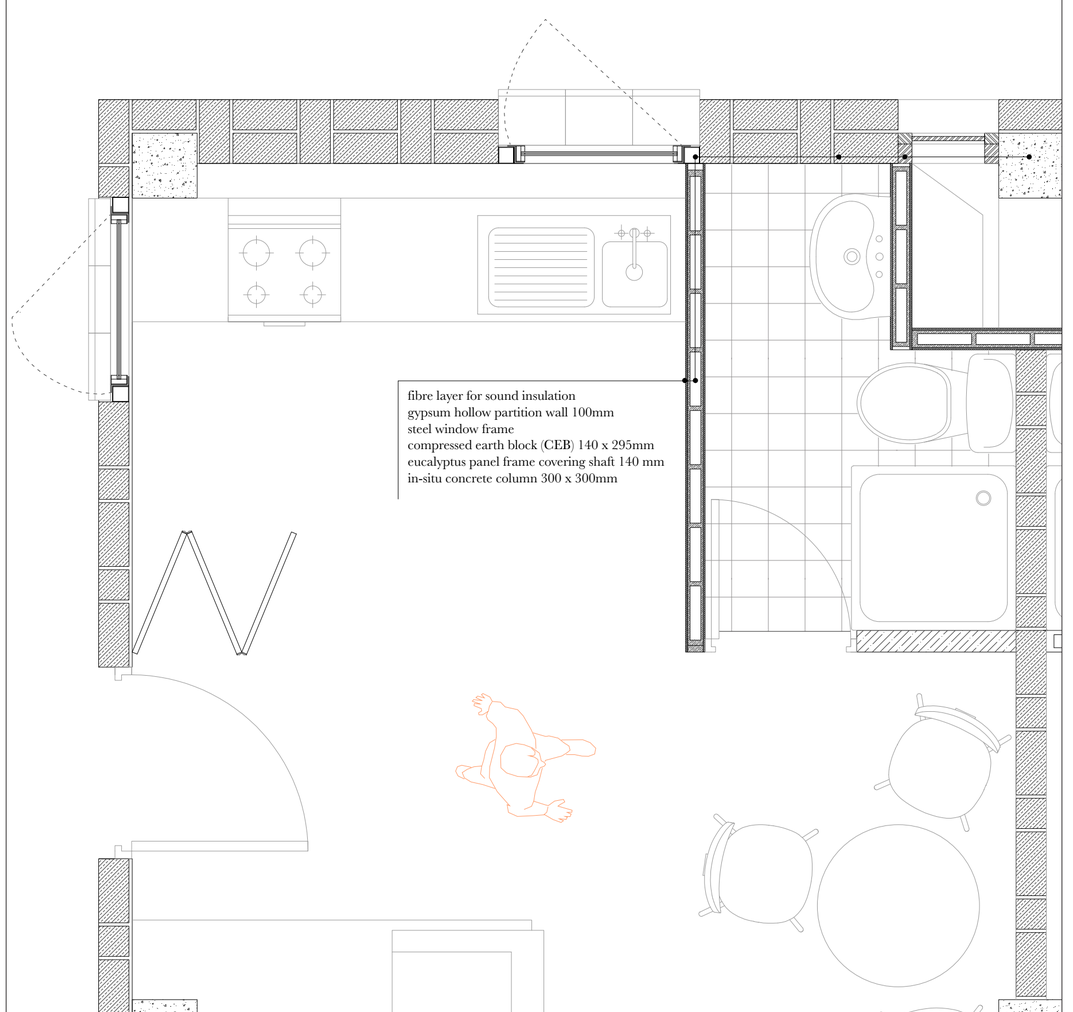
Compressed Earth Blocks

Concrete Structural framework

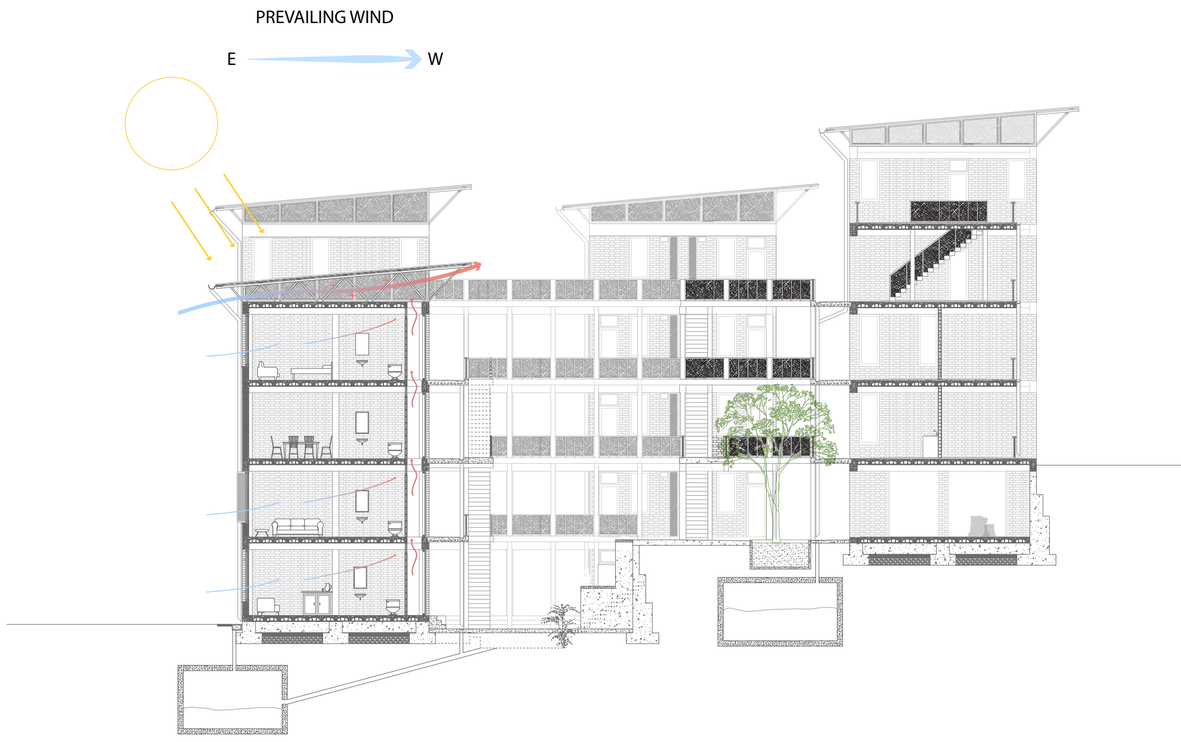
Building Materials



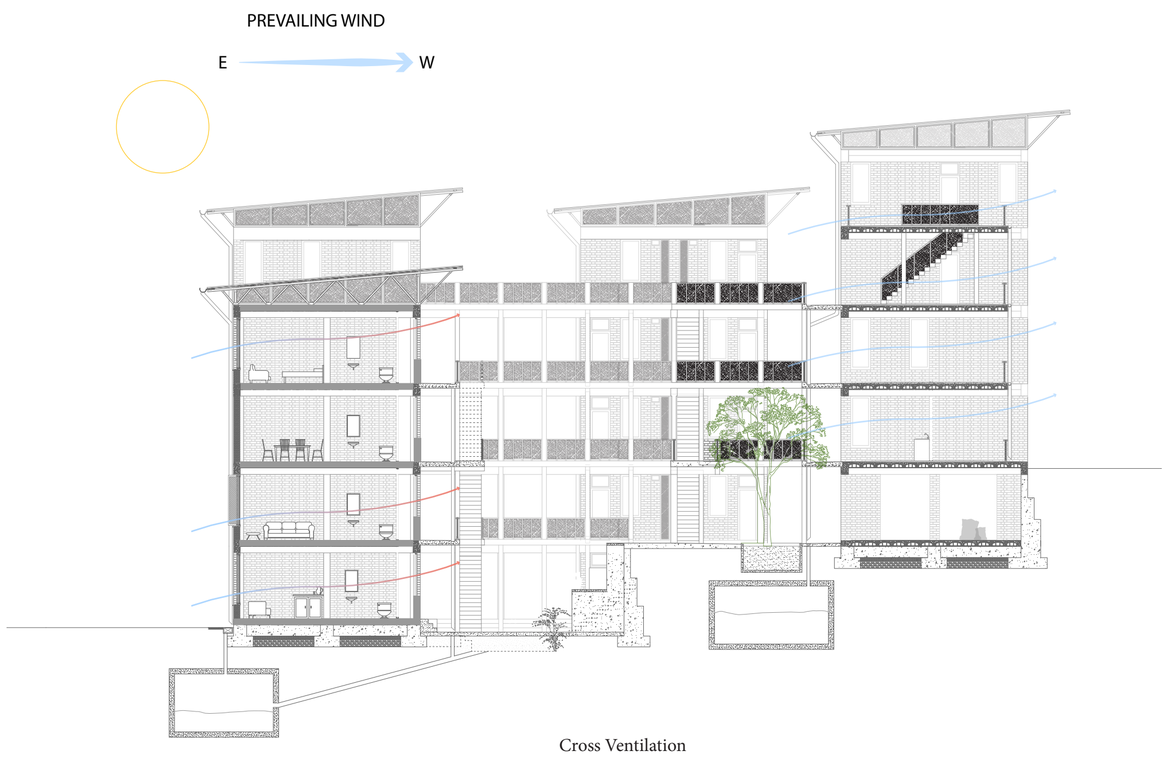
Construction Components



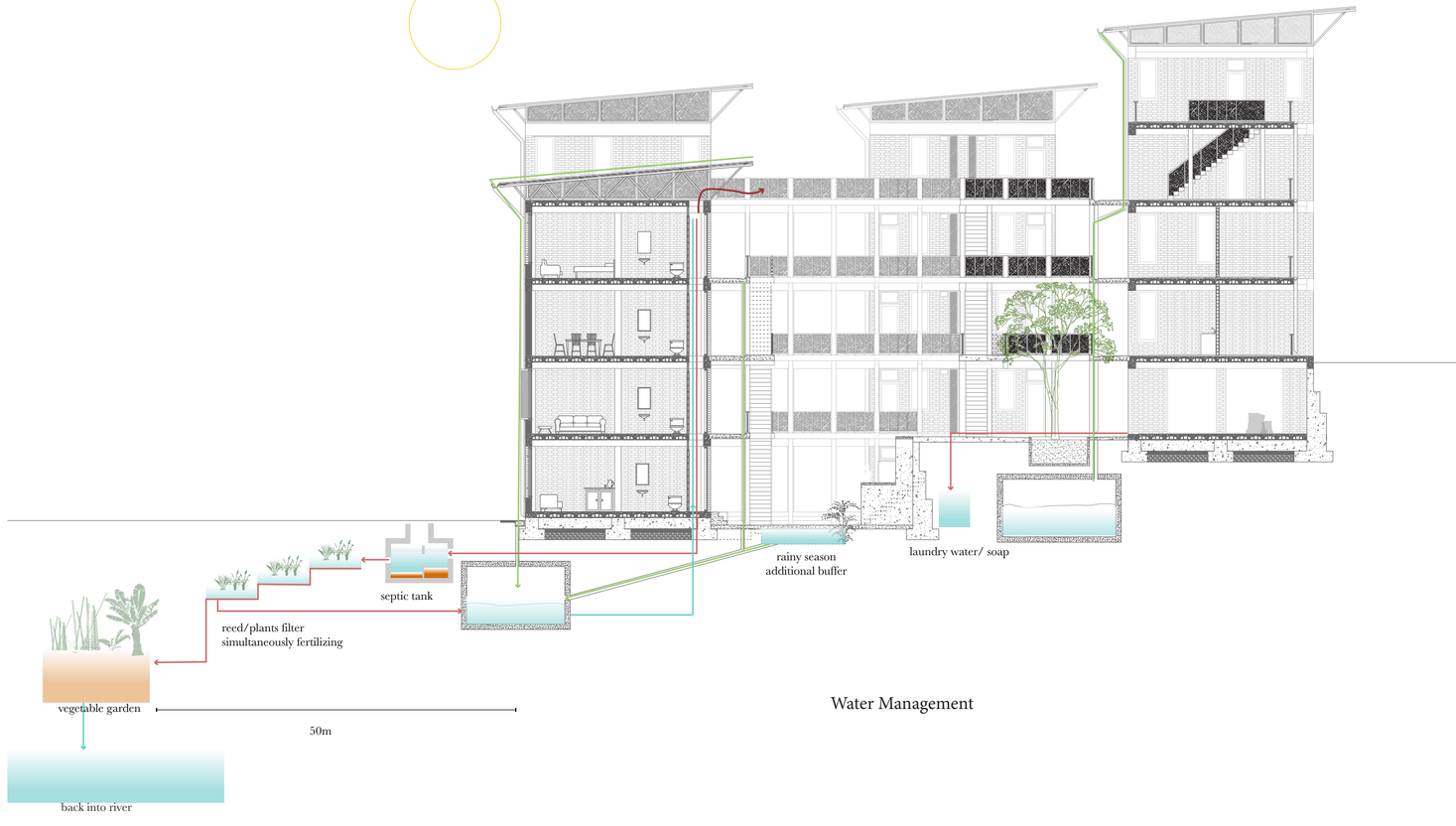
Horizontal Section 1:20



Airflow and Ventilation Shaft



Cross Ventilation



Water Management

Transformation over time- Day 1

Transformation over time- After 5 years