

Farah Hisham Ghalayini

A Collection of Creative Work
Architecture + Design



PERSONAL PROFILE

Farah Hisham Ghalayini

Date of Birth: April 1,1996

Nationality: Lebanese

Languages: English & Arabic

Phone Number: 76813356

Email: fhg01@mail.aub.edu - farah.ghalayini01@gmail.com

Degree: Bachelor of Architecture with Distinction (AUB)

EDUCATION

2014 - Today | The American University of Beirut

Faculty of Engineering and Architecture FEA

Bachelor of Architecture

2000 - 2014 | Saint Marry's Orthodox College (SMOC)

Lebanese Baccalaureate: Life Sciences

SKILLS

Software: Autocad (2D & 3D), Revit, Lumion, Photoshop, Microsoft Office (word, powerpoint, excel)

Other skills include, but are not limited to:

- Creating Architectural Timelines based on concept, visual comparisons and themes.
- Assessing and Understanding all sorts of architectural drawings (plans, sections, elevations, details...)
- Establishing a full climatic analysis report to understand the behavior of architecture in its context climate.
 - Building topography and architectural models.
- Surveying sites using different equipment (e.g theodolite, engineering level...)
- Photographing Architecture, Especially around Beirut.

WORK EXPERIENCE

Phoencia Hotel:

Dec 2017 - Jan 2018: Architecture Trainee, Engineering Department

Bernard Mallat Architects:

May 2017 - July 2017 : Architecture Trainee

DI-LAB AUB:

May 2018 - July 2018: Design Architect



To design in harmony with nature, and not the opposite.
Personal Photograph taken from the city of Beirut



PART 5 | Versatile Public Spaces: Revisiting Malaab El-Baladi Region
Beirut, Lebanon

List of Drawings |
Concept
Plans
Sections
Elevations

EXPLODED CONCEPT

Extension of the pitch allowing accessibility to the players.

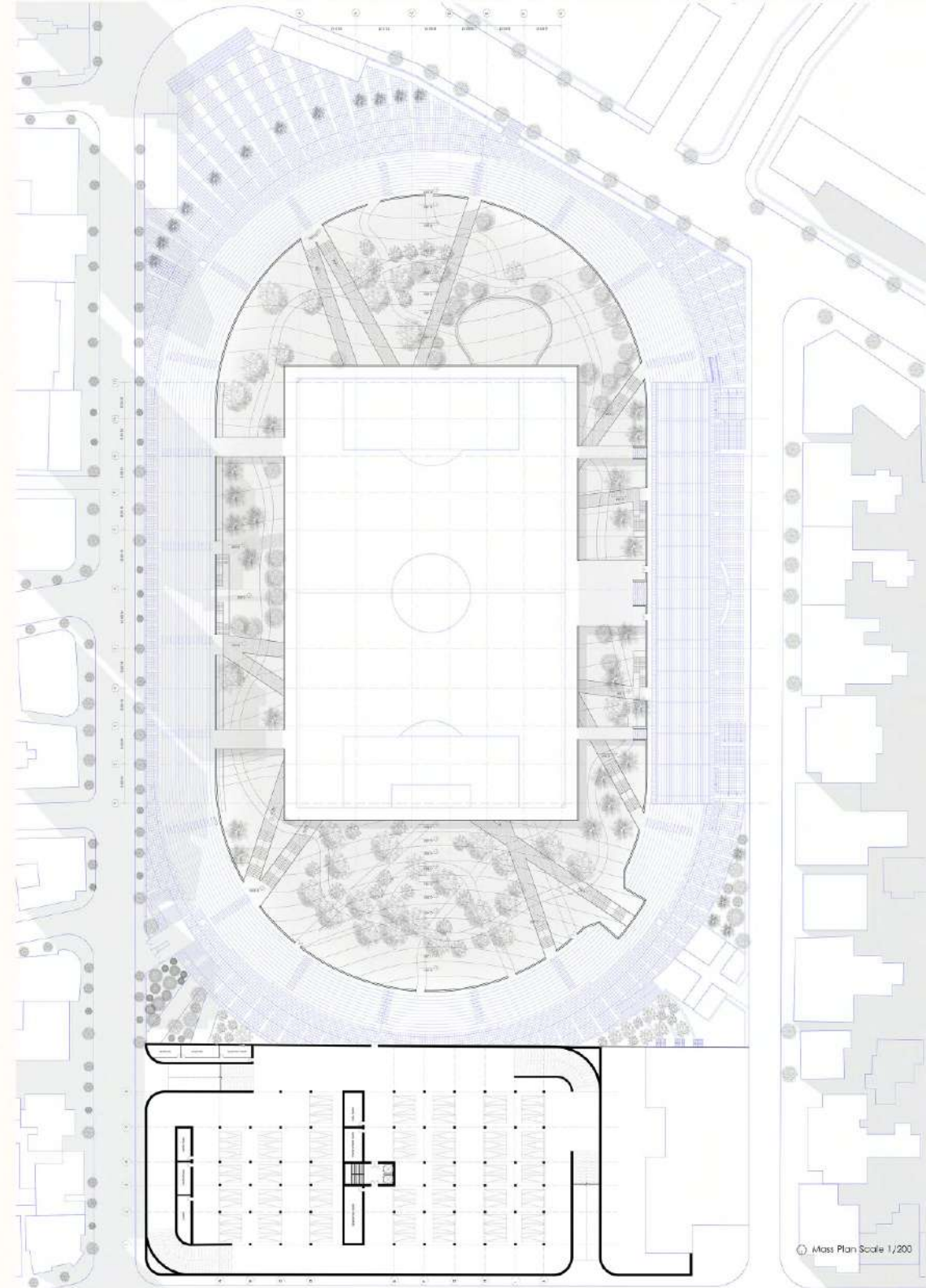
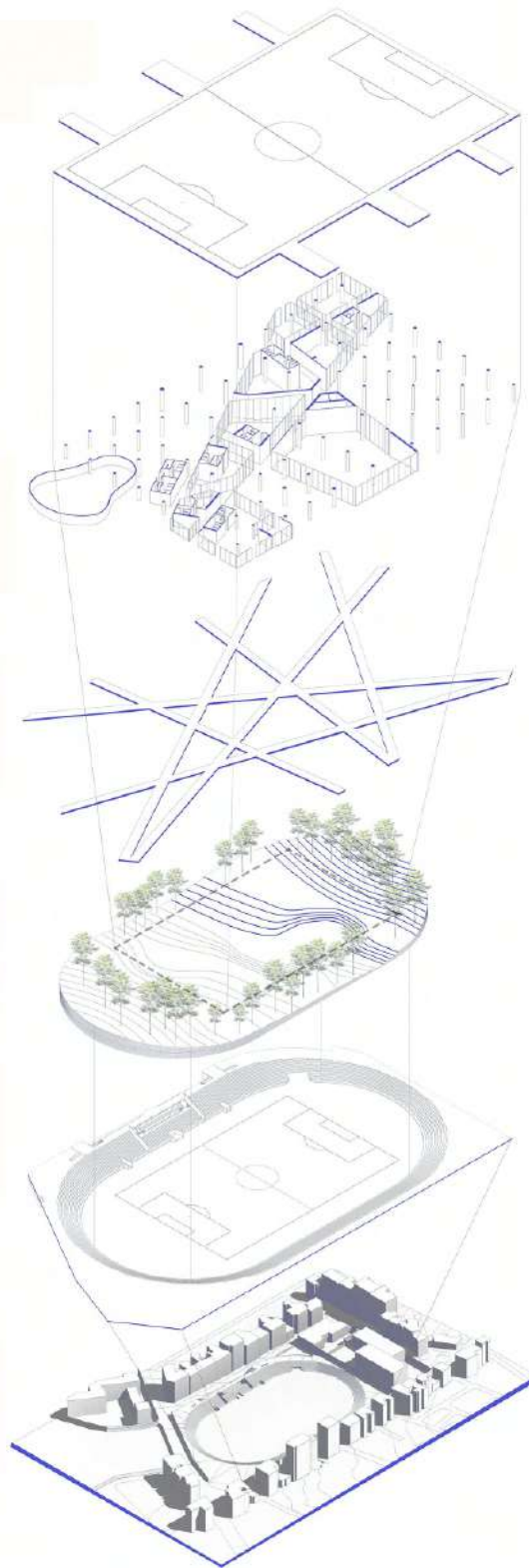
The public program under the pitch is a garden that is composed of an outdoor amphitheater, an auditorium, a pool area, a cafeteria with an outdoor garden, a public library, a gym and a gallery space. This program is intended to introduce a new layer of diversity to the neighborhood, as the neighborhood is reaching out for a public space while maintaining the stadium's identity.

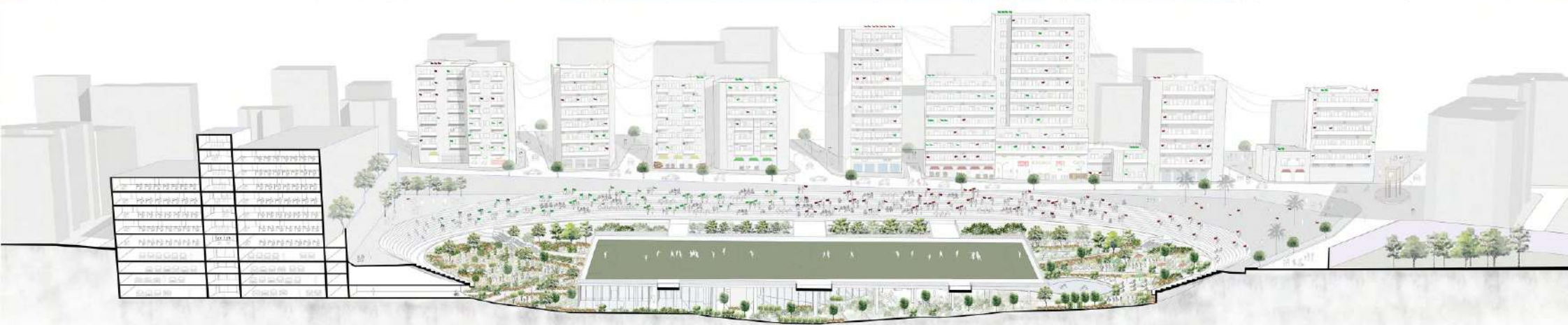
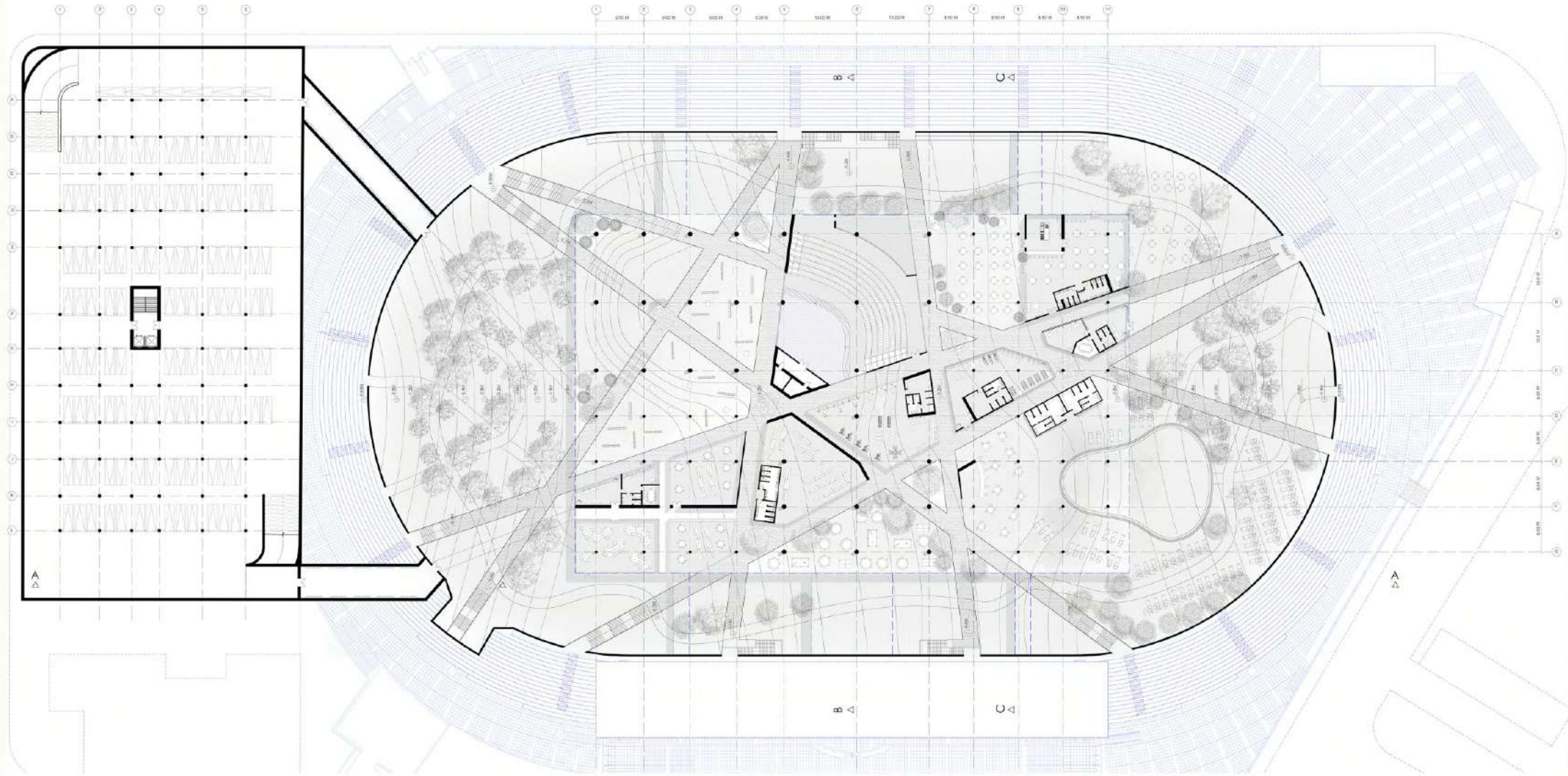
Creation of "Everyday-Everybody" pathways that connect the stadium to its surrounds. Pedestrians will pass through these pathways as they try to circulate around the stadium.

Creation of a public space underneath the pitch. The space is composed of a surface that slope down and create a lit experience.

Preservation of the stadium's pitch and bleachers as two constant elements that are untouched. The project takes a very subtle and sensitive approach that will intervene underneath the pitch.

The concept of the project is to preserve the stadium's identity as it has existed since 1936 while integrating to it a new public program that will not jeopardize its identity and function. The new program rather adds a new layer of diversity to the neighborhood.







SECTION CC SCALE 1/200



SECTION BB SCALE 1/200

This project aims to revive back the essence of the Siwa. It depends on preserving the cultural heritage while taking into consideration the climate and the context. Interaction is another key factor in this project.

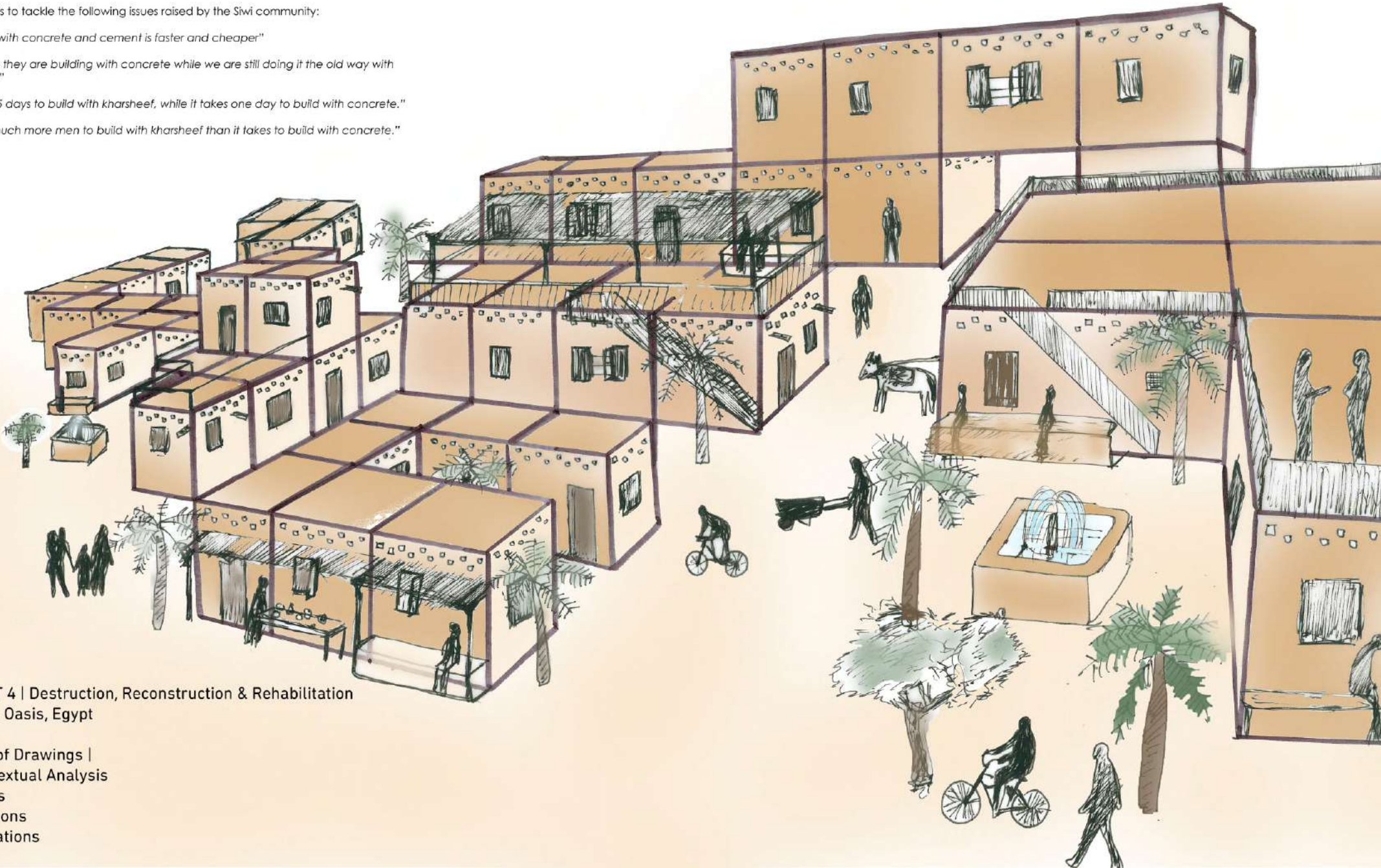
The focus is to tackle the following issues raised by the Siwi community:

"Building with concrete and cement is faster and cheaper"

"In Europe they are building with concrete while we are still doing it the old way with kharsheef."

"It takes 15 days to build with kharsheef, while it takes one day to build with concrete."

"It takes much more men to build with kharsheef than it takes to build with concrete."

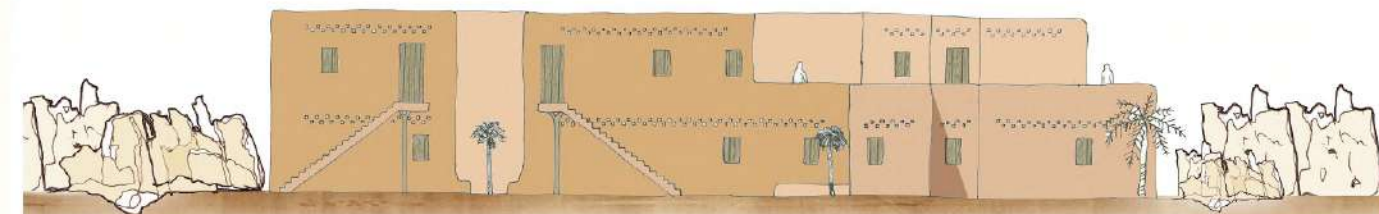


PART 4 | Destruction, Reconstruction & Rehabilitation
Siwa Oasis, Egypt

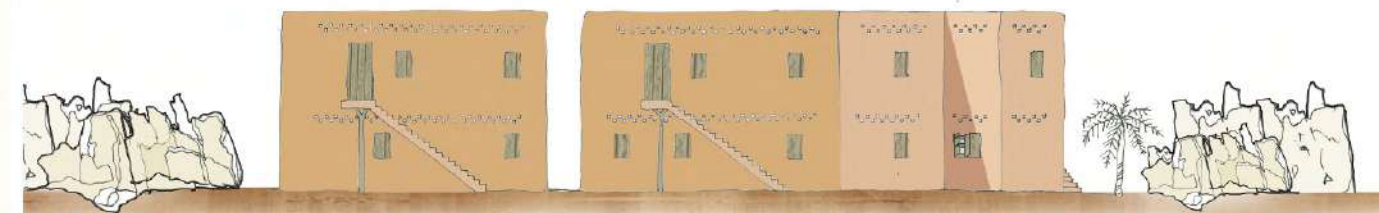
- List of Drawings |
- Contextual Analysis
- Plans
- Sections
- Elevations



Housing Top View Scale 1:150

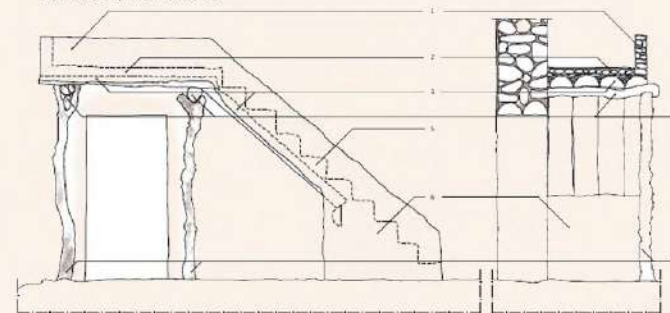


West Elevation Scale 1:100



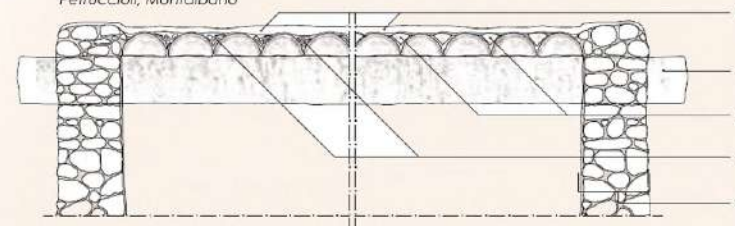
South West Elevation Scale 1:100

Exterior Stair Detail
Scale 1/20
Petrucchioli, Montalbano



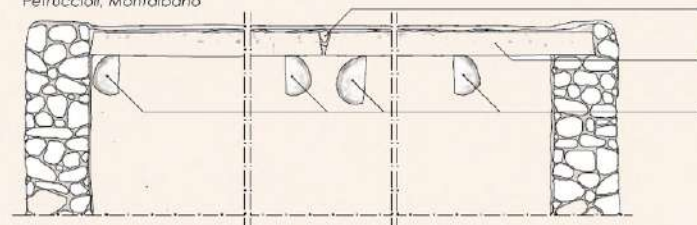
1. Karsheef masonry
2. Infill made of karsheef and reported ground
3. Ceiling made of semi-logs of palm tree
4. Beams made of olive tree logs
5. Infill of the step in karsheef
6. Embankment made of karsheef
7. Columns made of olive tree logs

Floor Detail
Scale 1/20
Petrucchioli, Montalbano



4. Covering of ground layers and a mat made of leaves of palm tree
5. Beams made of semi-logs of palm tree
6. Wedges made of palm tree wood
7. Leaves of palm tree, rubble, debris
8. Karsheef Masonry

Roof Detail
Scale 1/20
Petrucchioli, Montalbano



9. Wedges made of palm wood, rubble, debris
10. Ceiling made of semi-logs of palm tree
11. Beams made of semi-logs of palm tree





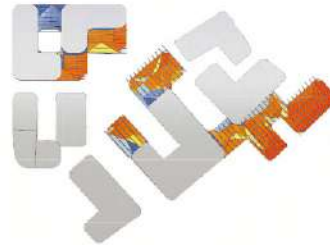
Trial 1 massing at 9 am



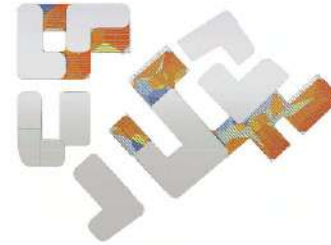
Trial 3 massing at 9 am



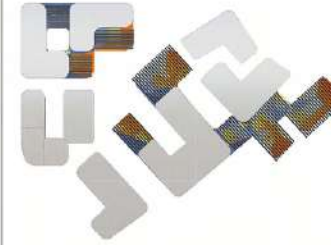
Trial 1 Shading at 9 am (distance =50cm)



Trial 2 Shading at 9 am (distance =20cm)



Trial 3 Shading at 9 am (distance =40cm, axis rotation)



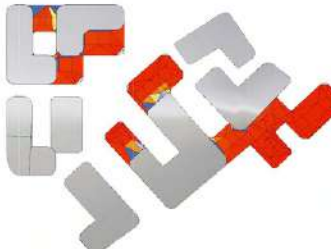
Massing effect on Courtyard (trial3) at 9am



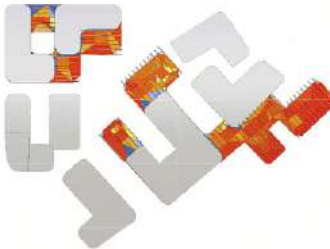
Trial 1 massing at 4 pm



Trial 3 massing at 12 pm



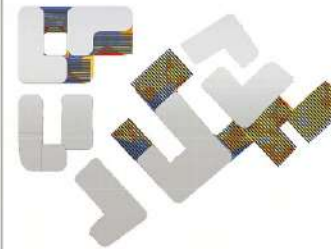
Trial 1 Shading at 12pm (distance =50cm)



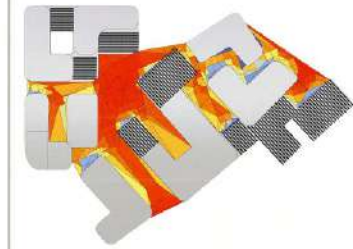
Trial 2 Shading at 12pm (distance =20cm)



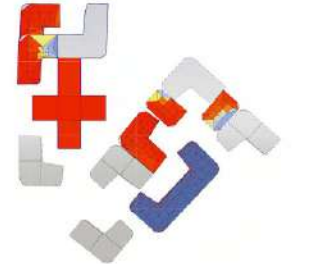
Trial 3 Shading at 12pm (distance =40cm, axis rotation)



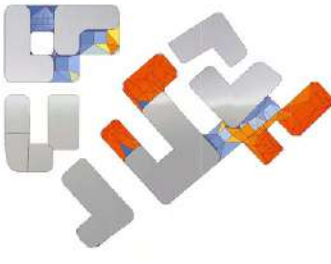
Massing effect on Courtyard (trial3) at 12pm



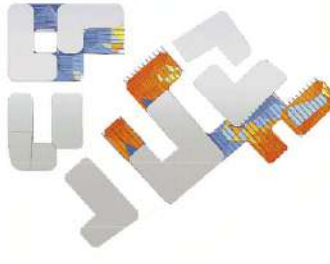
Trial 2 massing at 9am



Trial 3 massing at 4 pm



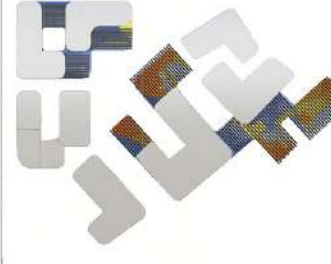
Trial 1 Shading at 4pm (distance =50cm)



Trial 2 Shading at 4pm (distance =20cm)



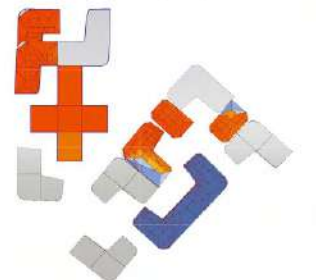
Trial 3 Shading at 4pm (distance =40cm, axis rotation)



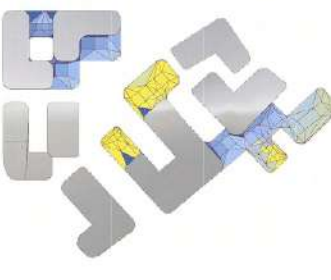
Massing effect on Courtyard (trial3) at 4pm



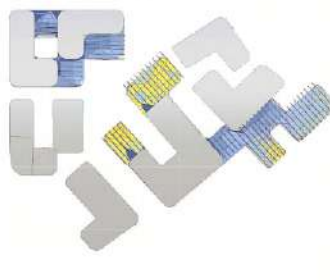
Trial 2 massing at 4pm



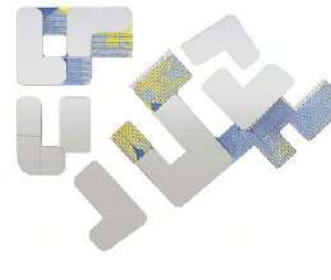
Trial 3 massing at 6 pm



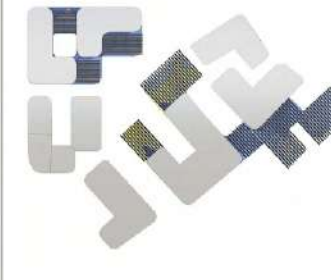
Trial 1 Shading at 4pm (distance =50cm)



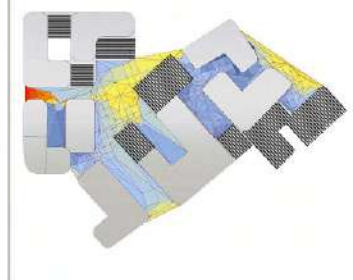
Trial 2 Shading at 6pm (distance =20cm)



Trial 3 Shading at 6pm (distance =40cm, axis rotation)



Massing effect on Courtyard (trial3) at 6pm







PART 4 | Shading Structure (Built Project)
UN Women for Peace
Barelhas, Lebanon
Zahle District, Bekaa

List of Drawings |
Plans
Sections
Elevations
Details

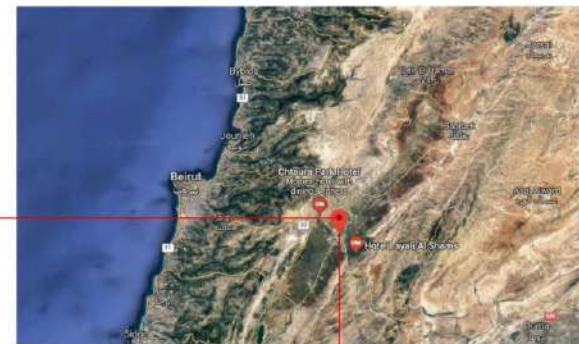


Nobel Prize Winner Malala Yousafzai, in partnership with Kayany Foundation, established the first all-girls school for Syrian refugees in Lebanon in 2015. She celebrated her 18th birthday by going to the school and meeting the new students at a ribbon-cutting ceremony. The Malala Fund continues its partnership with Kayany Foundation, and together they have since established a second Malala Yousafzai all-girls school for Syrian refugees.

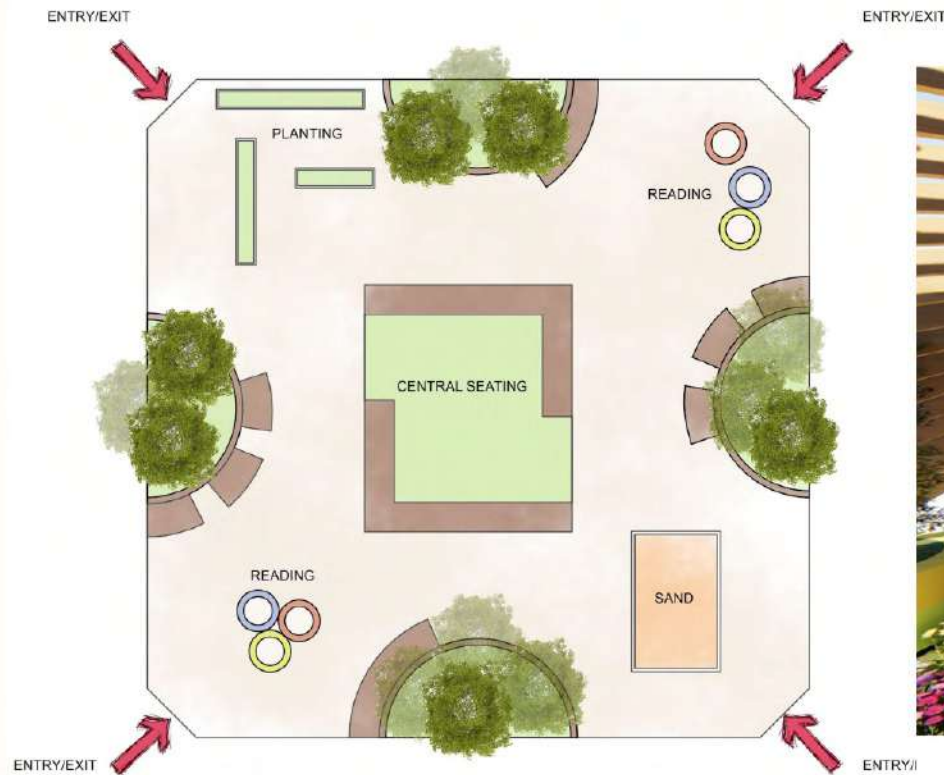
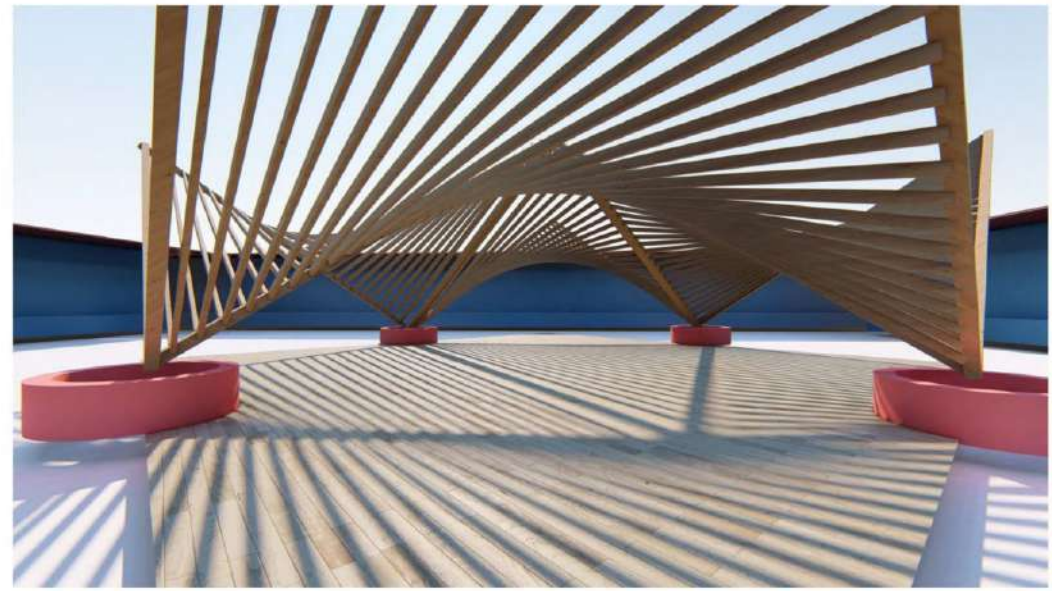
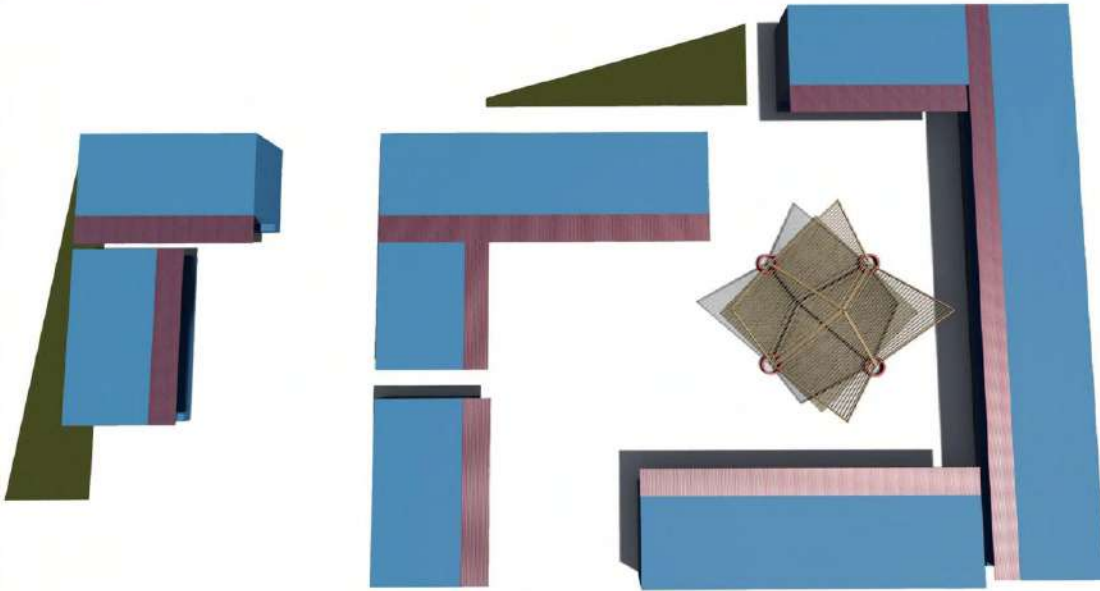


Barelias, or Bar Elias, is a town located in the Zahlé District, Bekaa Governorate, Lebanon. With around 60,000 inhabitants it is the second largest town, after Zahlé, in the Zahlé District.

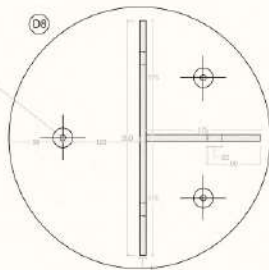
Bar Elias is 900 m above sea level, at a distance of 51 km from Beirut via Damascus-Chtoura. It is spread over both sides of the international line between Beirut and Damascus over the exterior 4 km. A lovely green plain extends across distances up to Anjar to the east, Zahlé to the west, Kafr Zabad and Addalhamiah to the north, and Almarj to the south.



The project consists of building a low-cost, shaded, light weight structure in the playground of a The UN women for Peace School in Barelias, under which the students of the school can sit and relax without having **to suffer from the extensive heat and sun.**



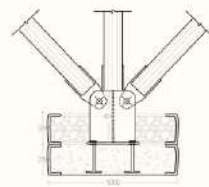
INSTRUCTIONS:
10mm steel plates
Diameter 40 cm
M22 bolts (3)
steel anchor (3)
2.2 cm diameter



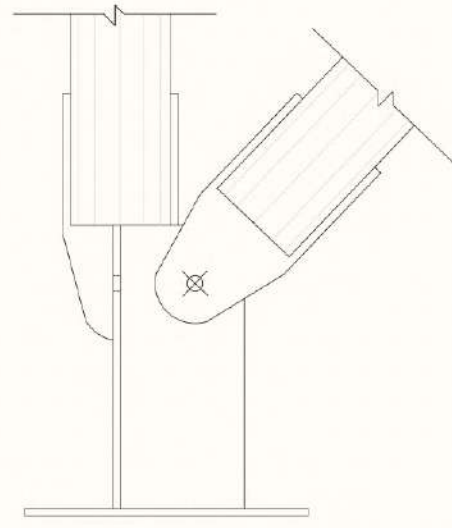
SCALE 1:5



SCALE 1:2



SCALE 1:10



SCALE 1:5

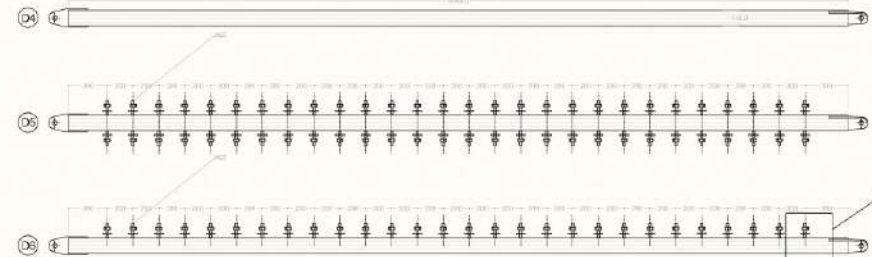
UN WOMEN FOR PEACE
BAR ELIAS - BEQAA LEBANON

DI - LAB
AMERICAN UNIVERSITY OF BEIRUT
ARCHITECTURE DEPARTMENT

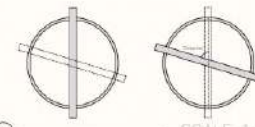
PROJECT NAME
PROJECT LOCATION
PROJECT DATE
PROJECT SCALE
PROJECT DRAWN BY
PROJECT CHECKED BY

STRUCTURAL DRAWINGS
WOOD AND STEEL CONNECTION PROPOSALS
SCALE 1:50 - 1:10
DATE 2018-12-12
PROJECT 2018-12-12
PROJECT 2018-12-12

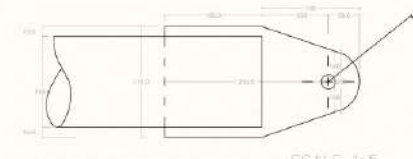
SHEET
S3
2 OF 4



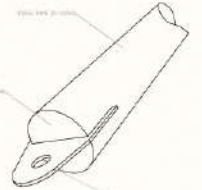
SCALE 1:10



SCALE 1:5



SCALE 1:5



INSTRUCTIONS:
M22 bolt

STEEL PIPE 14
CM DIAMETER
4MM
THICKNESS

STEEL PLATE
10MM
THICKNESS

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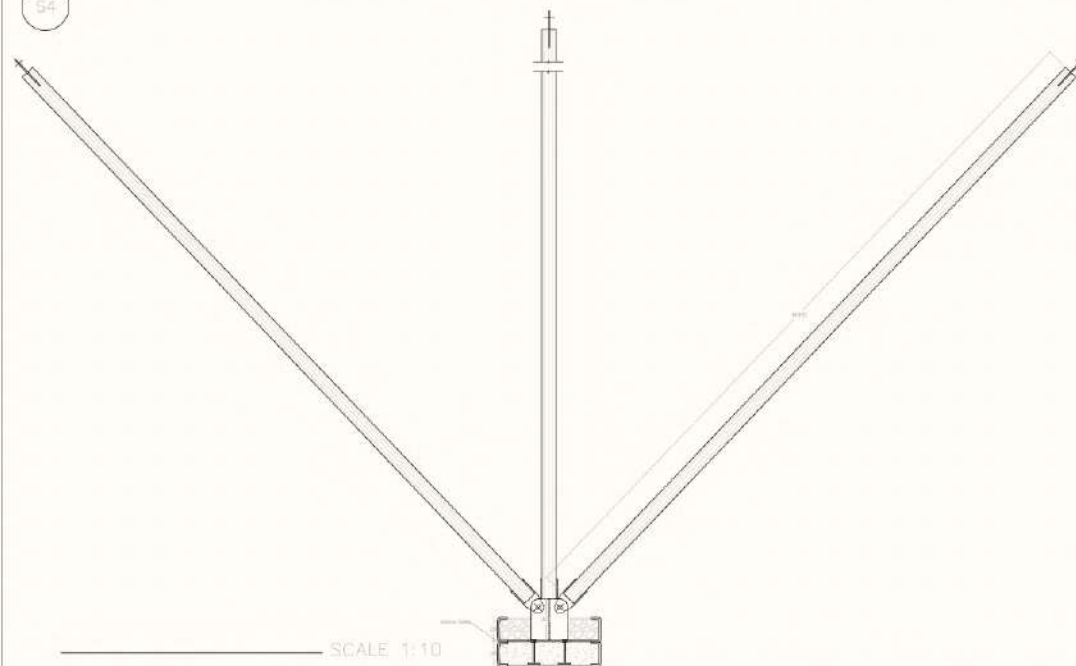
UN WOMEN FOR PEACE
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PROJECT NAME
PROJECT LOCATION
PROJECT DATE
PROJECT SCALE
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PROJECT CHECKED BY

STRUCTURAL DRAWINGS
WOOD AND STEEL CONNECTION PROPOSALS
SCALE 1:50 - 1:10
DATE 2018-12-12
PROJECT 2018-12-12
PROJECT 2018-12-12

SHEET
S2
2 OF 4



SCALE 1:10

UN WOMEN FOR PEACE
BAR ELIAS - BEQAA LEBANON

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AMERICAN UNIVERSITY OF BEIRUT
ARCHITECTURE DEPARTMENT

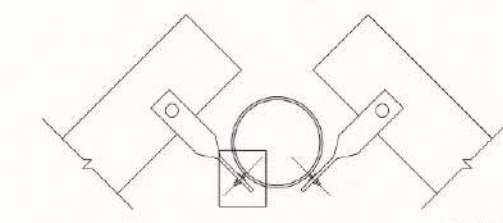
PROJECT NAME
PROJECT LOCATION
PROJECT DATE
PROJECT SCALE
PROJECT DRAWN BY
PROJECT CHECKED BY

STRUCTURAL DRAWINGS
WOOD AND STEEL CONNECTION PROPOSALS
SCALE 1:50 - 1:10
DATE 2018-12-12
PROJECT 2018-12-12
PROJECT 2018-12-12

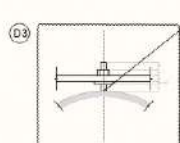
SHEET
S4
2 OF 4



SCALE 1:10

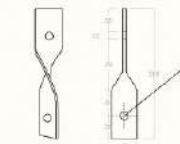


SCALE 1:5



SCALE 1:1

INSTRUCTIONS:
M12 bolt Welded
on the Steel pipe



SCALE 1:5

INSTRUCTIONS:
WOOD BEAM
30mm*120mm
Drilled on site

INSTRUCTIONS:
STEEL 5 MM
THICKNESS
M12 bolts (2)

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UN WOMEN FOR PEACE
BAR ELIAS - BEQAA LEBANON

DI - LAB
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PROJECT LOCATION
PROJECT DATE
PROJECT SCALE
PROJECT DRAWN BY
PROJECT CHECKED BY

STRUCTURAL DRAWINGS
WOOD AND STEEL CONNECTION PROPOSALS
SCALE 1:50 - 1:10
DATE 2018-12-12
PROJECT 2018-12-12
PROJECT 2018-12-12

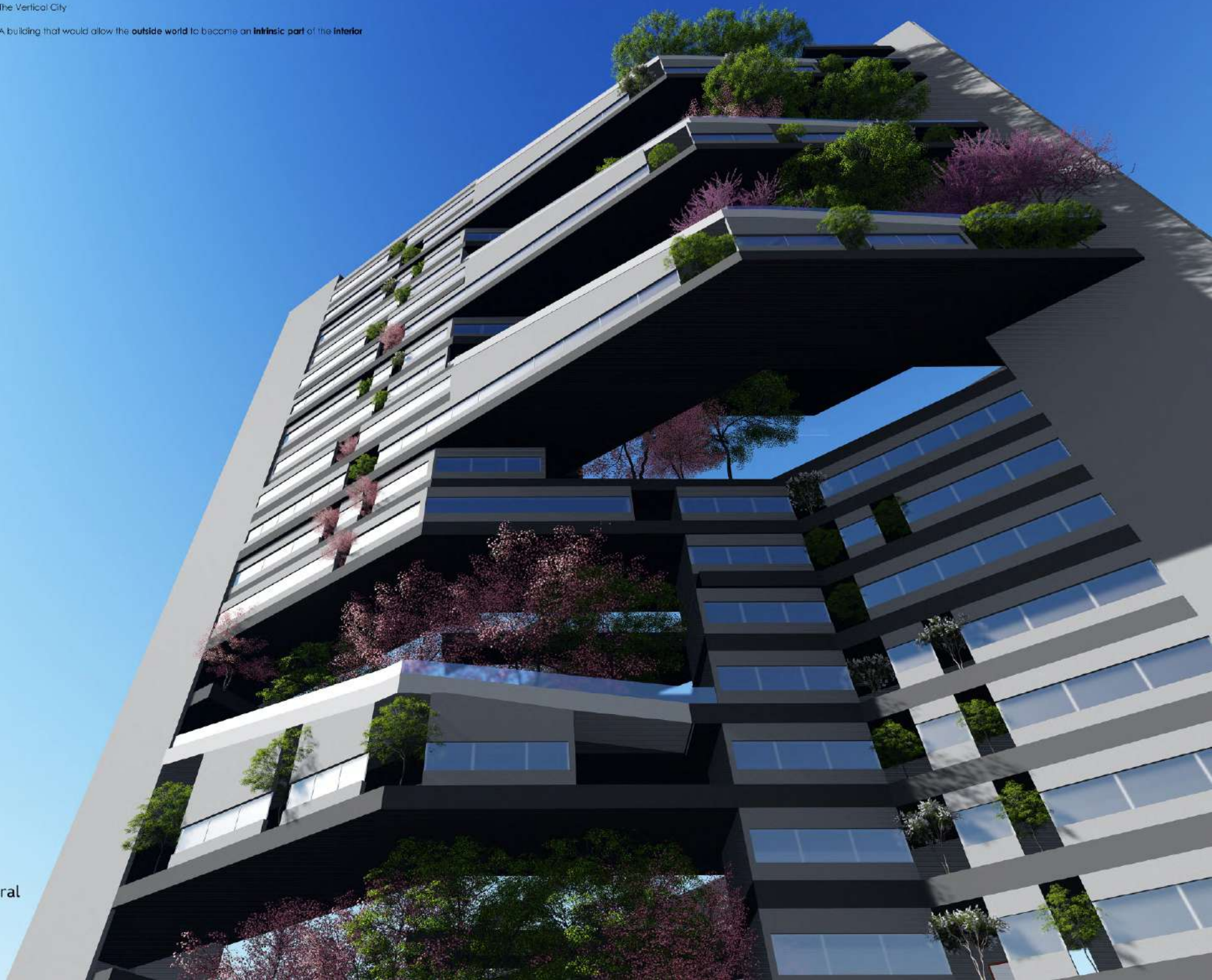
SHEET
S1
2 OF 4

The Vertical City

A building that would allow the **outside world** to become an **intrinsic part** of the **interior**

PART 3 | The Vertical City
Beirut, Lebanon
Bliss Street

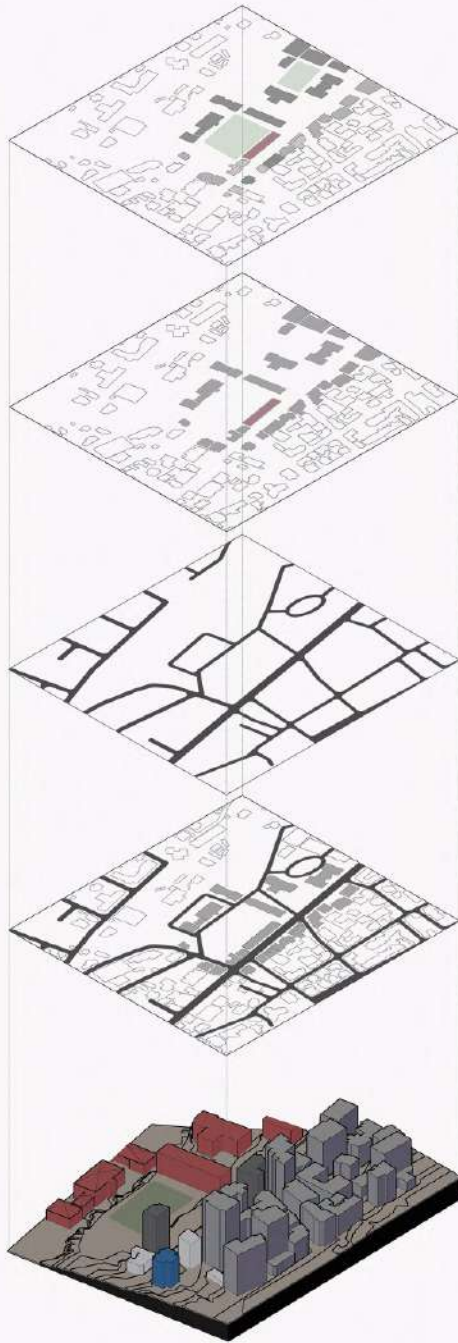
List of Drawings |
Analysis: Contextual + Structural
Plans
Sections
Elevations



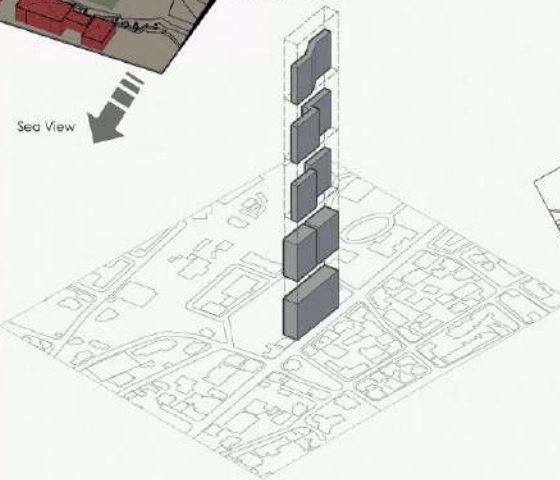
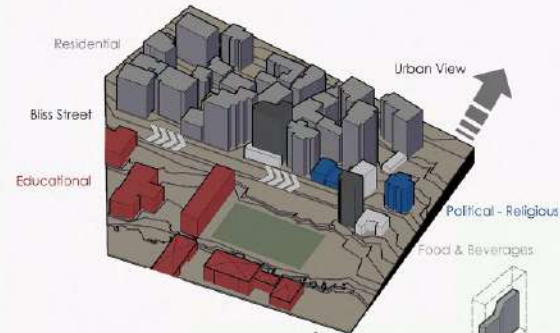
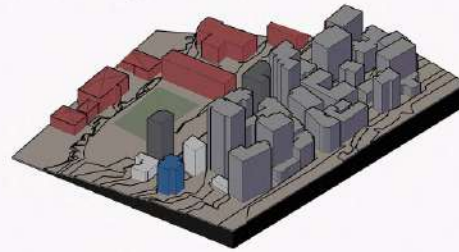
The Vertical City

A building that would allow the **outside world** to become an **intrinsic part of the interior**

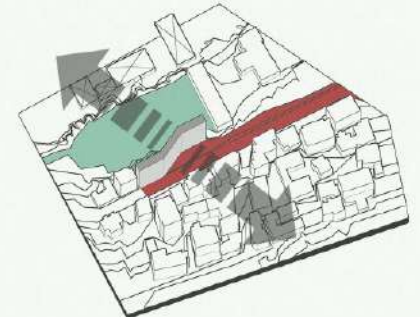
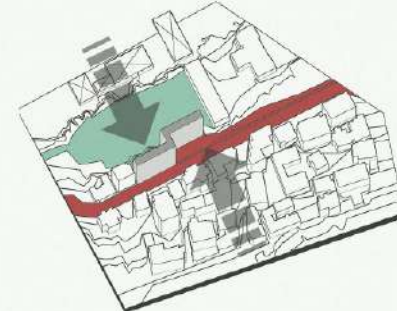
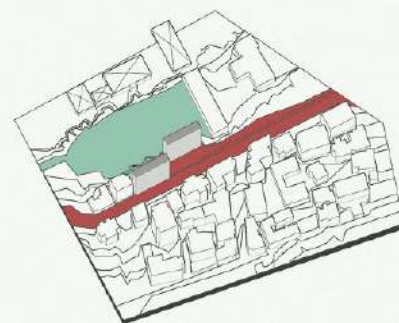
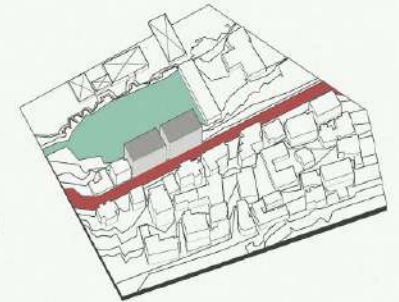
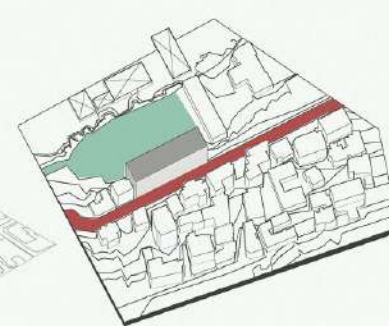
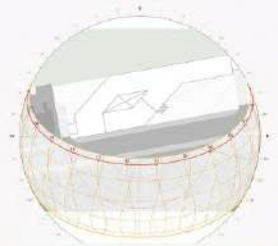
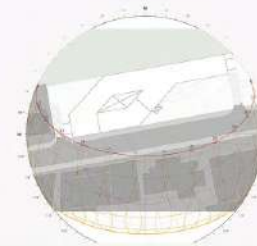
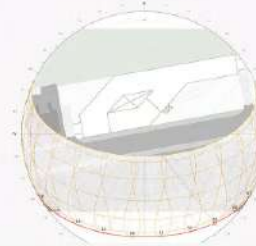
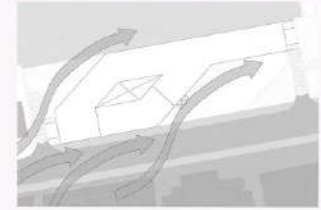
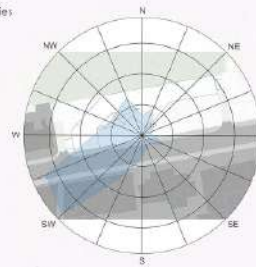
Residential
Food & Beverages
Greenery/Landscape
Political & Religious
Educational



Road Network
Studied Buildings



Climatic Studies
Solar & Wind

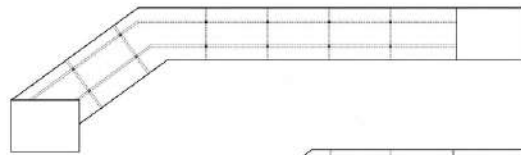


Integration of the main street and green landscape

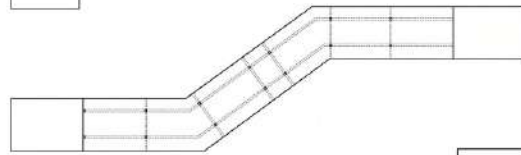
Parallel Views of the Cityscape and Landscape

The Vertical City

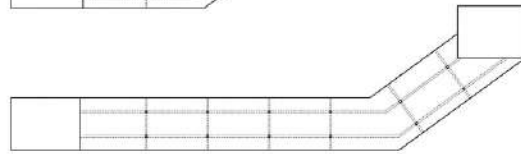
A building that would allow the **outside world** to become an **intrinsic part of the interior**



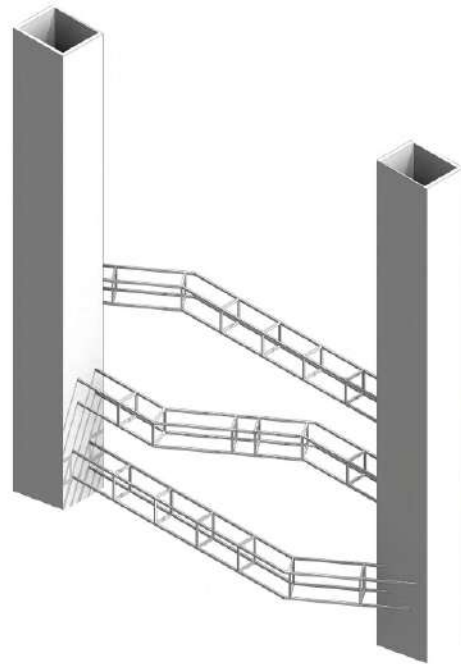
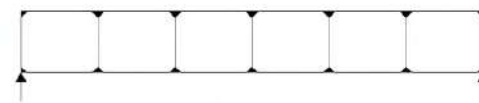
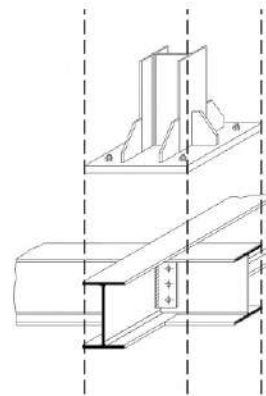
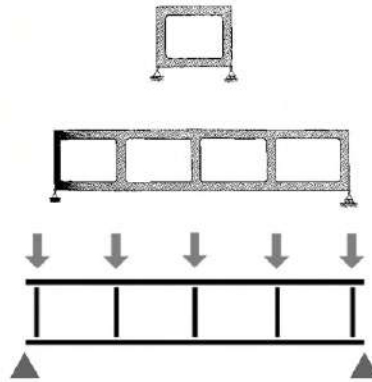
Slab typology A



Slab typology B



Slab typology C



Slab typology A

Slab typology B

Slab typology C

Live & Dead Loads
Core
Shear Walls that relieve load from the truss

Vierendeel Truss
A frame with fixed joints that are capable of transferring and resisting bending moments
Slab typology A

Vierendeel Truss
A frame that transfers the live loads through the core via compression
Slab typology B

Vierendeel Truss
A frame that is composed of individual elements are connected at nodes
Slab typology C

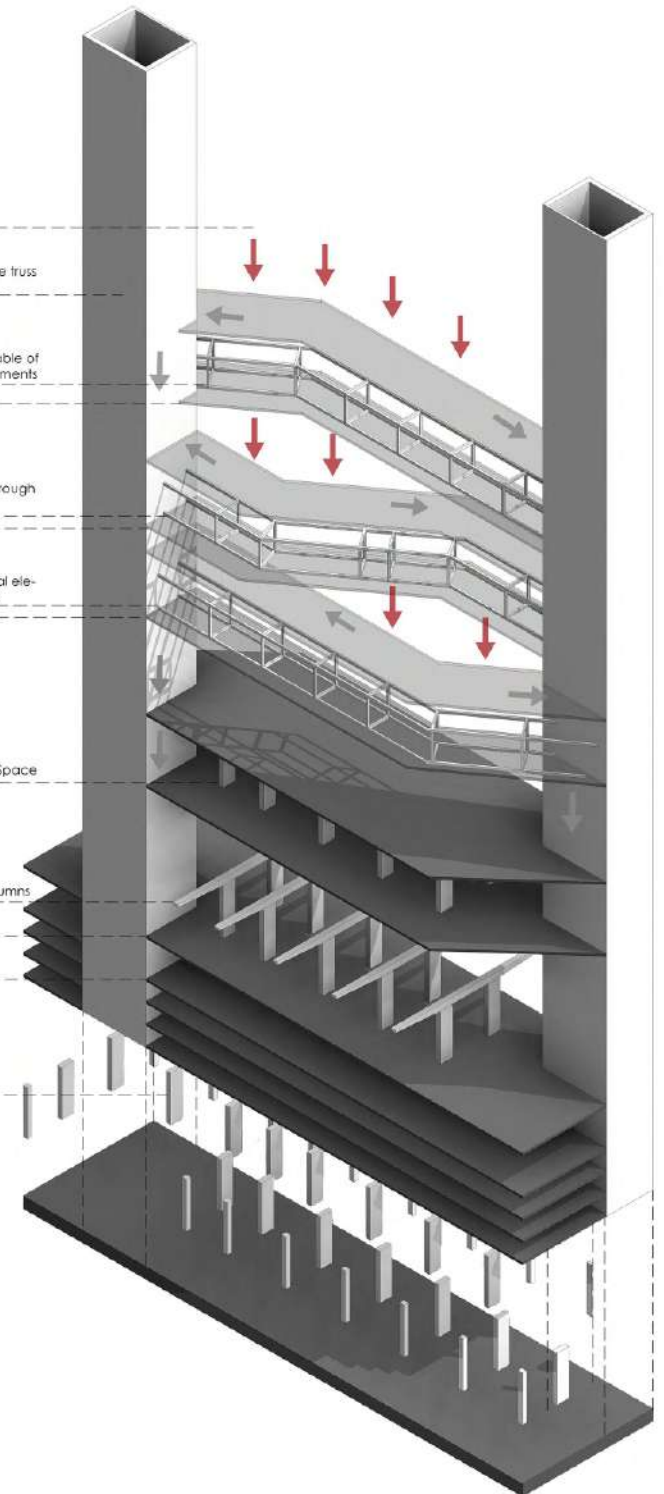
Extended Parking Columns
Structural Columns in the Communal Space

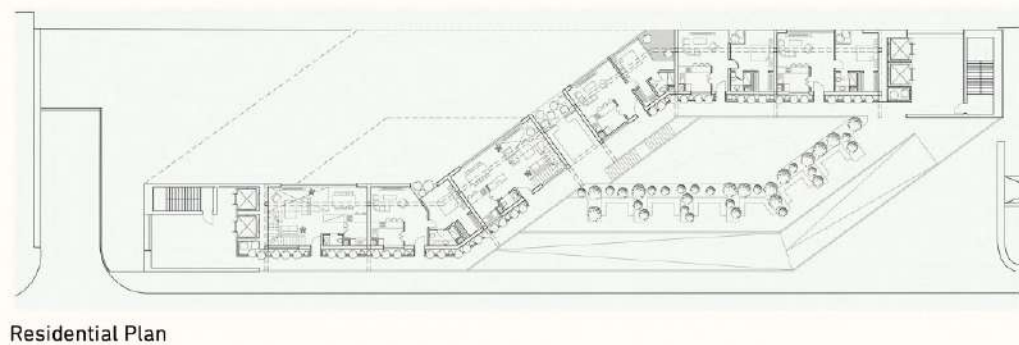
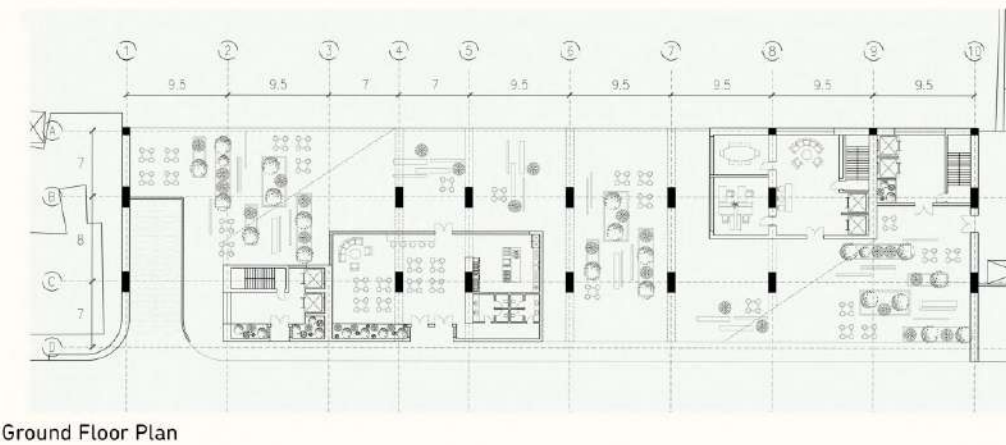
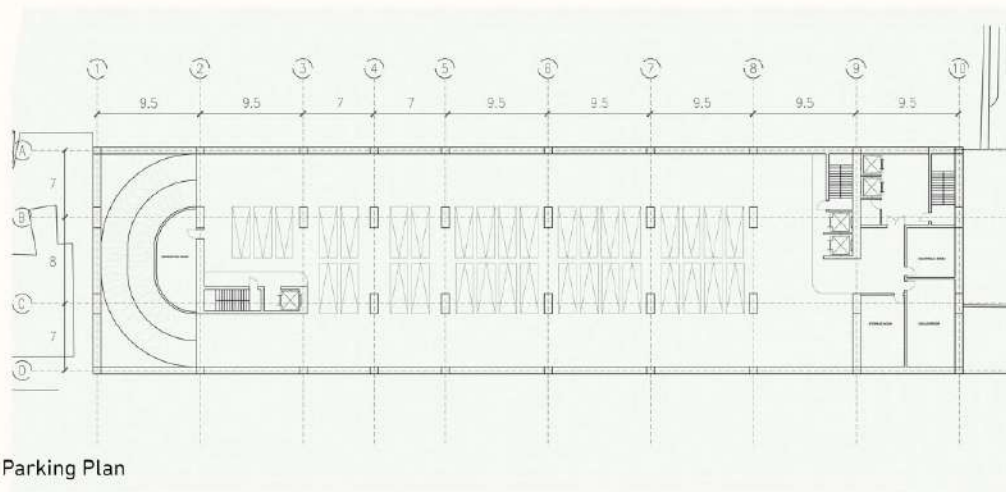
Drop Beams
Compensating for the periphery Columns

Ground Floor

Parking

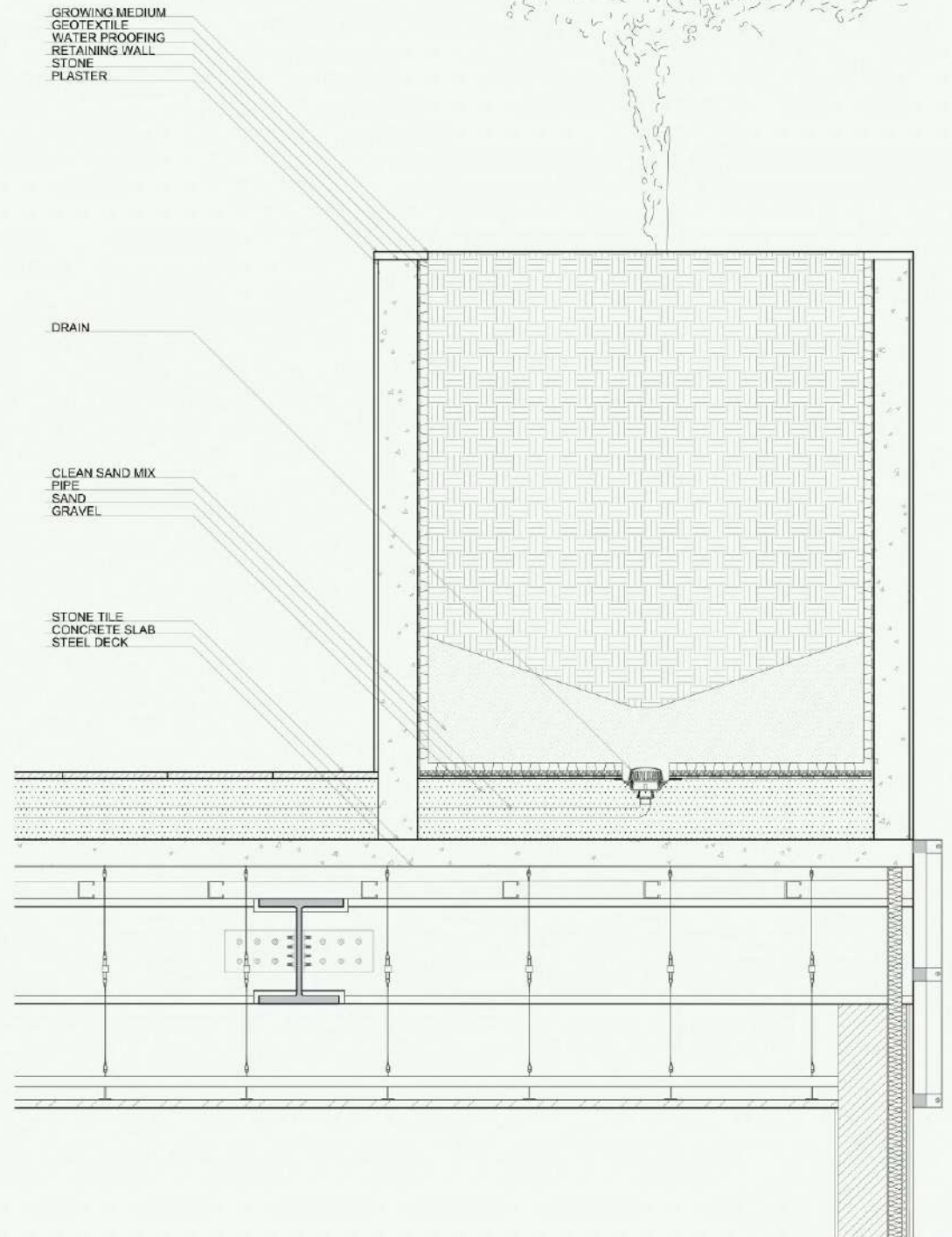
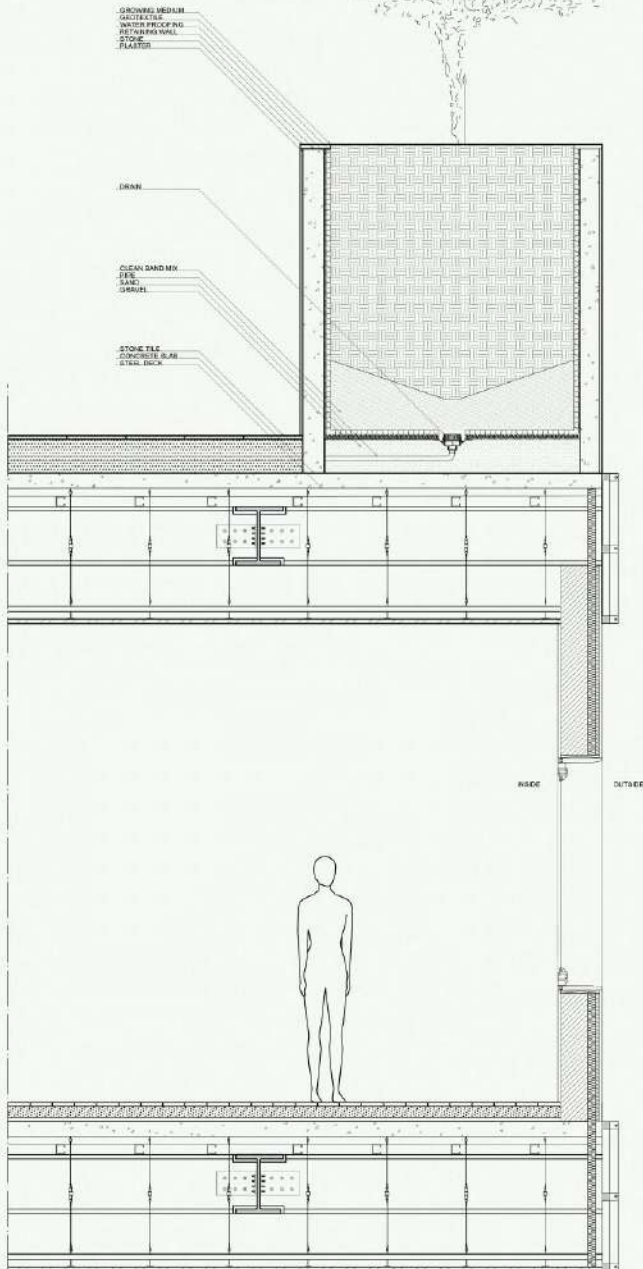
Parking Columns
Resist Axial Forces





The Vertical City

A building that would allow the outside world to become an intrinsic part of the interior



A building that would allow the **outside world** to become an **intrinsic part** of the **interior**

