AMERICAN UNIVERSITY OF BEIRUT

UNDERGRADUATE CAPSTONE PROJECT IN LANDSCAPE ARCHITECTURE

SUBMITTAL FORM

RIGHT TO ACCESS: THE SEA AND THE CITY

by

JOUDE MABSOUT

LDEM 242 - Advanced Design – 6 Credits Spring 2015-2016

Capstone Project Coordinator: Yaser Abunnasr

Primary Advisor: Yaser Abunnasr

Secondary Advisors Mehran Madani, Imad Gemayel

Approved by:

Dr. Yaser Abunnasr, Assistant Professor

Department of Landscape Design and Ecosystem Management

AMERICAN UNIVERSITY OF BEIRUT

THESIS, DISSERTATION, PROJECT RELEASE FORM

Student Name:	Mabsert	Jo	ede	Maric
	Last	Firs	;t	Middle
○ Master's Thes ○ Cap stone Pro		Master's Project	○ Doct	toral Dissertation
I authorize the American University of Beirut to: (a) reproduce hard or electronic copies of my thesis, dissertation, or project; (b) include such copies in the archives and digital repositories of the University; and (c) make freely available such copies to third parties for research or educational purposes.				
I authorize the American University of Beirut, three years after the date of submitting my thesis, dissertation, or project, to: (a) reproduce hard or electronic copies of it; (b) include such copies in the archives and digital repositories of the University; and (c) make freely available such copies to third parties for research or educational purposes.				
AH		13.05.2016		
Signature		Date		

This form is signed when submitting the thesis, dissertation, or project to the University Libraries



Right to Access **The Sea and the City**Joude Mabsout

Capstone Project
May 2016
Landscape Architecture BA,
American University of Beirut

Student

Joude Mabsout

Advisor

Dr. Yaser Abunnasr

Acknowledgements

This capstone project has been a challenging and exciting experience. I have applied the skills that I have learned throughout my academic years, while also learning new ways of thinking throughout this past year.

I would like to first thank my advisor, Dr. Yaser Abunnasr for all the advice and support throughout this journey.

I would also like thank my classmates and my family for the motivational support that they have given me.

I was fortunate enough to go through this

List of Figures Analysis and Concepts 11 Ecological Approach Section I Introduction 12 Barriers 01 The Coast of Beirut Context 02 Project Statement Section III Contextual Section II Contextual Inventory Masterplan and Analysis 14 Final Concept: Stitching Inventory Case Studies 03 History of the Coast 16 Program Development: 04 Land Use Four Zones Legal Framework Circulation Section IV Zone 4: Manara Ecology Site Context Site Analysis Socio-Spatial Interaction: A Theoretical Approach 19 Concept Social Statistics Proposed Plan 10 Accessibility Hardscape and Softscape

Cross Section

23 Perspectives

Section V Conclusion

Section I Introduction **O1** The Coast of Beirut 1.0 Overview on the coast of Beirut Project Statement 2.0 Three layers of accessibility 2.1 Base map with private/built areas along the coast Section II Contextual Inventory and Analysis Inventory 03 History of the Coast 3.0 History through pictures 3.1 Timeline of events, legal framework and demographic change Land Use 4.0 Land use pictures 4.1 Land use map

05	Legal Framework		
5.0 «right» to access5.1 Ownership map5.2 Accessibility to spaces map5.3 Ownership and private exploitation map			
06	Circulation		
6.0 Road network map6.1 Vehicular circulation map6.2 Pedestrian circulation map6.3 Bus route map6.4 Parking spaces map			
07	Ecology		
	una and flora species reats to the ecosystem		
80	Socio-Spatial Interaction: A Theoretical Approach		
0.00	ocial Activities otographic Narrative		

Narrative

8.2 Oral History and Landscape

09	Social Statistics			
9.0 Statistics on Social Activities				
10	Accessibility			
10.0 Barriers map10.1 Physical Accessibility map10.2 Visual Accessibility map				
Analys	sis and Concepts			
11	Ecological Approach			
11.0 Analysis and concept of the ecology (maps)				
12	Barriers			
12.0 Analysis and concept of the barriers (maps)13 Context				
13.0 Analysis and concept of the context (maps)				

		on III Contextual erplan	18	Site Analysis
	Design Proposal		18.0 Physical Connection 18.1 Visual Connection	
	14	Final Concept: Stitching		
	14.0 Final concept map: Stitching14.1 Final concept axonometric layers: Stitching		19	Concept
	,		19.0 C	Conceptual Diagrams
	15	Case Studies	20	Proposed Plan
9	16 Program Development:Four Zones		20.0 Site Plan 20.1 Plan Diagrams	
	16.0 Zone 1 Program Development16.1 Zone 2 Program Development16.2 Zone 3 Program Development16.3 Zone 4 Program Development		21	Hardscape and Softscape
			21.0 Hardscape Plan 21.1 Softscape Plan	

Section IV Zone 4: Manara

17.0 Site Context and Evolution

Site Context

17.1 Site Pictures

Proposed Plan 20.0 Site Plan 20.1 Plan Diagrams Hardscape and Softscape 21.0 Hardscape Plan 21.1 Softscape Plan Cross Section 22.0 Cross Section

Perspectives 23.0 Overview 23.1 Bluff Zone 23.2 Coastal Zone **Section V Conclusion** 23.3 Overview from sea side

01 The Coast of Beirut

Since the end of the civil war (1975-1990), Beirut has been exposed to re-construction projects that have altered the city's identity. During the post-war period, the regulatory framework for construction in Lebanon empowered private groups to plan the city, which gradually erased the culture and heritage in the city, leading to the weakening of the public sector. This has enabled the social dimension in laws to disappear, while also diminishing the accessible public spaces in Beirut.

The case of Beirut's coast is one case that has resulted in private exploitation while blocking the public from previously accessible seafronts. Beirut has been exposed to exploitation through various methods, and went through a major transformation in its sea shore.

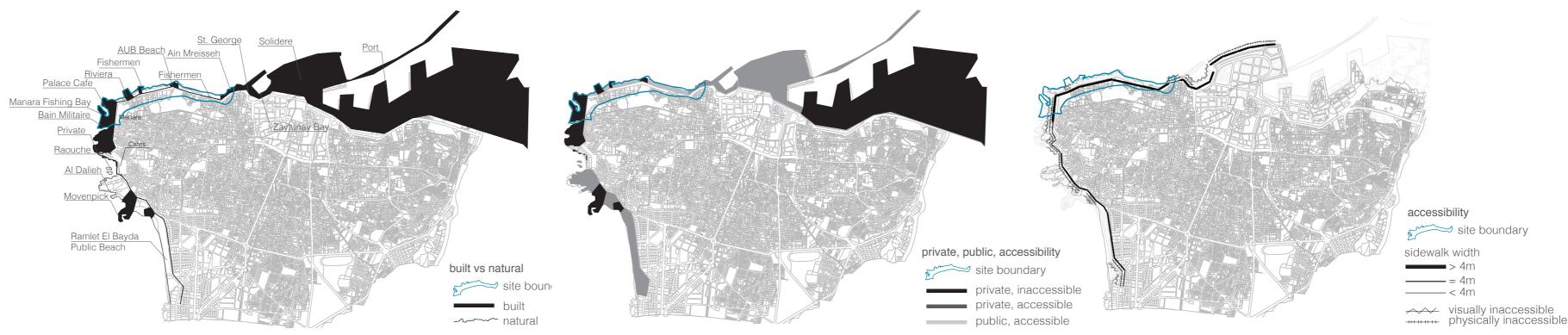


Fig. 1 Overview on the coast of Beirut



02 Project Statement

Beirut is gradually turning its back to the sea, a growing separation between the sea and the city has been created.

Rapid development along the coast has altered the relationship between the sea and the city, where accessing the sea became a battle to the people

This research project aims to assess the types of access that are present from the city to the sea. The stretch along the coast, from Ain El Mreisseh to Manara, is one of the last remaning coastal strips that still has a connection to the sea. Through revising and questioning the concept of the right to access, I aim to propose a design strategy that will introduce or enhance accessibilty, while preserving the existing natural areas and cultural practices.

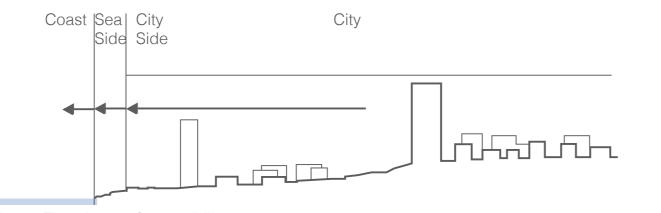


Fig. 2.0 Three layers of accessibility

I intend study three layers of accessibility:

- 1 City to City Side
- 2 City Side to Sea Side
- 3 Sea Side to Coast



Fig. 2.1 Base map with private/built areas along the coast



100m

Inventory

History of the Coast

The site, from Ain Mreisseh till Manara was an empty green land, with traditional houses along situated along the coast. It was an open space that was directly connected to the sea, where people used to come to swim and have picnics.

The development around the sectors along this strip was due to the establishment of the American University of Beirut and the tramway that reached Bliss street (parallel to Corniche).

The identity of the site went through a radical transformation with time, as major events occured (shown in the timeline).

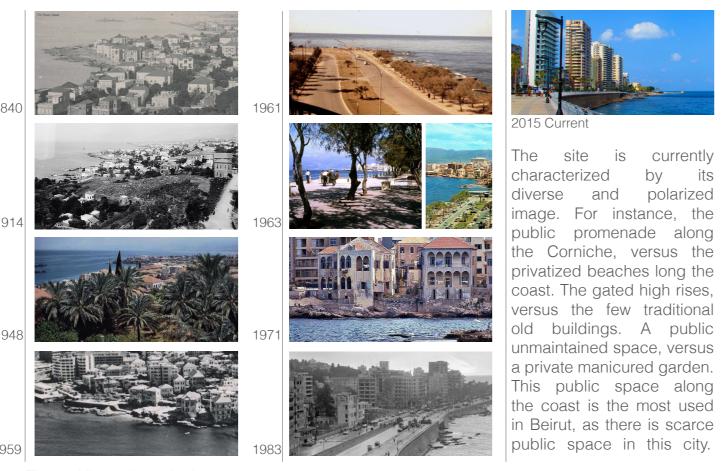


Fig. 3.0 History through pictures

Section II Contextual Inventory and Analysis

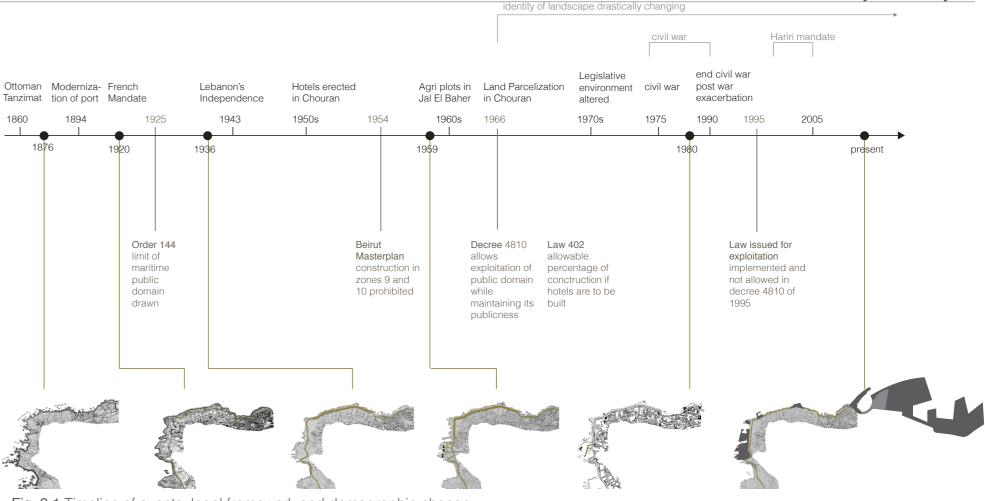


Fig. 3.1 Timeline of events, legal framework and demographic change

currently

polarized

For instance, the

Inventory

Section II Contextual Inventory and Analysis

04 Land Use

There are three fishermen ports along the site. One, which is Ain El Mreisseh port, holds a traditional identity, while the other two in Jal El Baher and Minat Chouran are recent. There are the main educational institutions, AUB, ACS and IC. There is a main military area in Minat Chouran, which increases the amount of security present on site, thus creating an unwelcoming feeling to the people. There are a few commercial areas, leaving the non-commercial areas devoid of people's activities. There is some private squatting along the coast, due to the military 'resort', restaurants, and a hotel. The edge of the city is mainly residential, composed of high-rise buildings.



Ain Mreisseh Fishermen Port





AUB Fig. 4.0 Land use pictures



High Rise Residential Buildlings



Riveria Hotel Resort





Old Rose House and Lighthouse

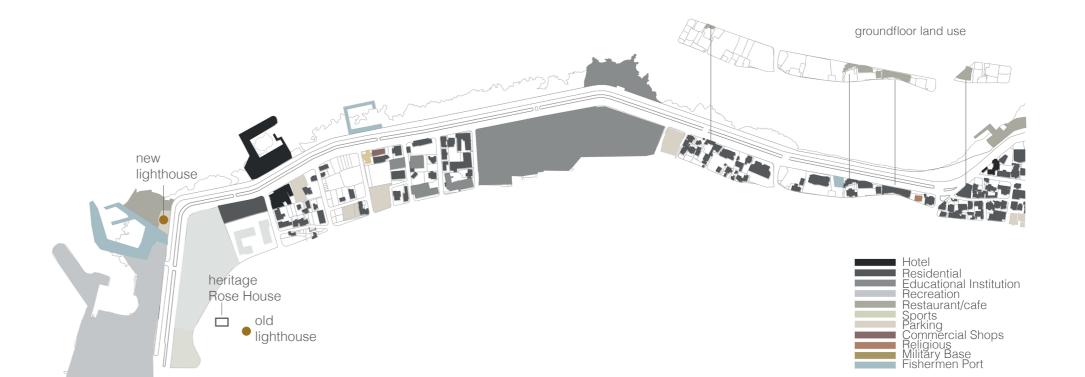


Fig. 4.1 Land use map

Inventory

Section II Contextual Inventory and Analysis

05 Legal Framework

The existing condition of private and public spaces is a major issue that should be considered while understanding the accessibility of the spaces in this site. According to Beirut's Masterplan, the maritime public domain should remain accessible to the public and construction is prohibited. However, due to some decrees, there has been illegal construction on the coast, leading to private ownership, hence decreasing the public space.



Fig. 5.0 «right» to access

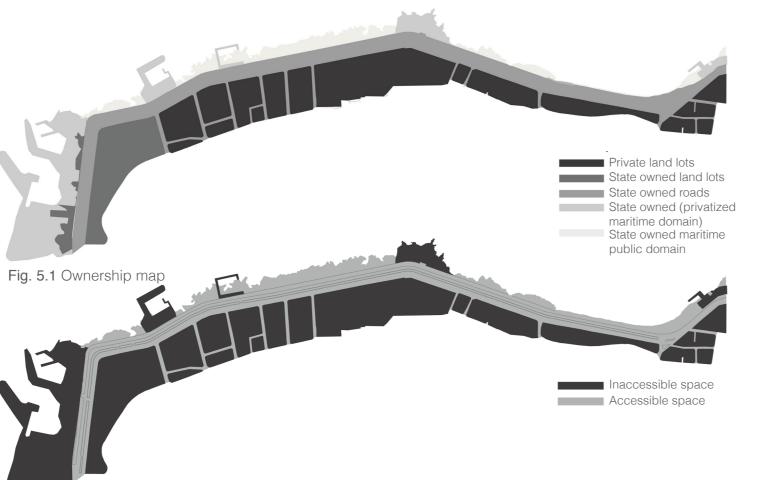


Fig. 5.2 Accessibility to spaces map

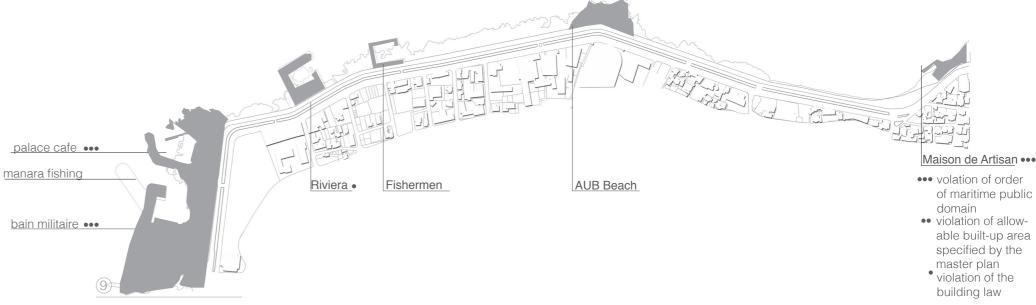


Fig. 5.3 Ownership and private exploitation map beirut master plan. zoning laws along the coast zone 9. construction of any kind is

zone 9 . construction of any kind is prohibited in this zone

laws, decrees and orders that govern the seafront Order No. 144

(issued in 1925) categorizes the sea, which is defined to include the furthest high- water point on the beach, as an inalienable maritime public domain.

Environment Law No. 444

(issued in 2002) establishes free and open access to the seashore as a right of every Lebanese citizen.

Decree No. 14914

(issued in 1966) limits the use of all plots in Zone
10 to sports, leisure, and maritime activities only. It also
sets a one-floor construction limit (vis- à-vis height) in
the zone, and a ten percent surface exploitation factor
for real estate companies based on Article 19 of the
Urban Planning Law.

Decree No. 4810

(issued in 1966) amended the Public Maritime Domain Law, and applies to all private property areas adjacent to the sea. It allows for the exploitation of the maritime public domain on condition that the government approves the nature of the proposed project and area sought for exploitation, as well as contributes to the Law No. 402

(issued in 1995) allows for the doubling of the exploitation factor for all plots with a surface area above twenty thousand square meters.

06 Circulation

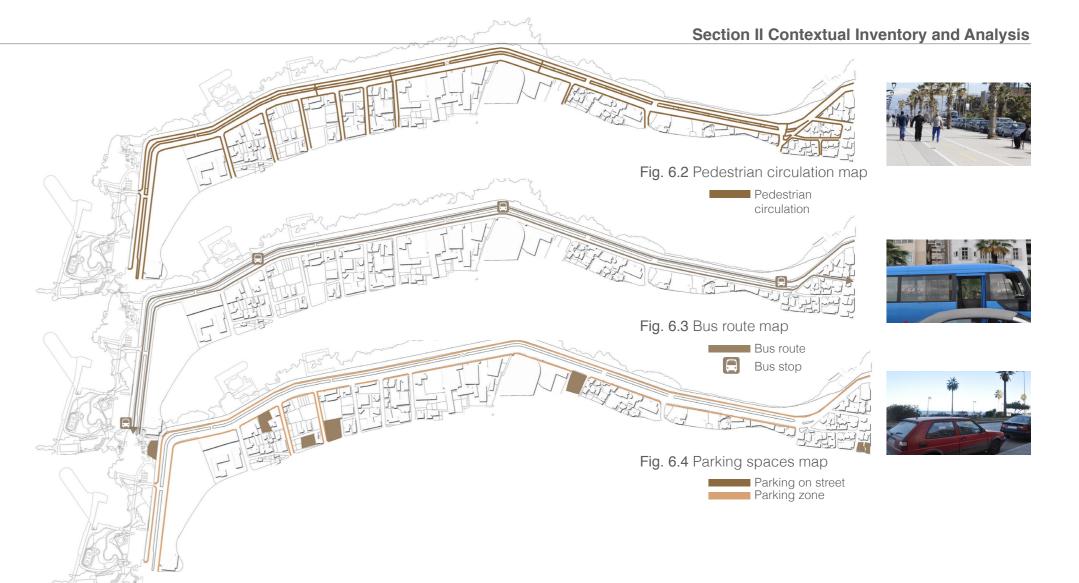
Paris Avenue is the main road on the Corniche. The tertiary roads are perpendicular to the main one, and connect to the neighborhoods of the city.

The vehicular circulation and pedestrian flow are blocked at some points as they are faced with security due to military presence or educational institutions.

There is a bus route that stops along the strip. There are also many parking lots that cater for passers by, students and residents.







07 Ecology

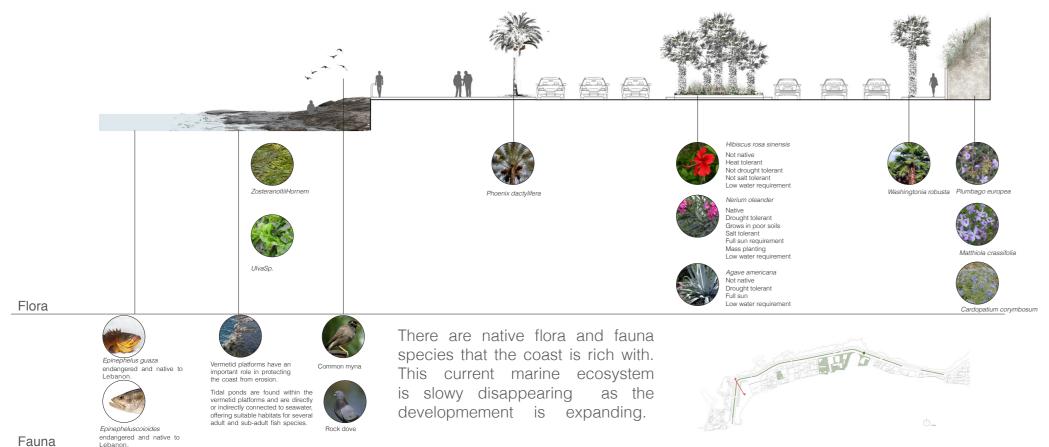
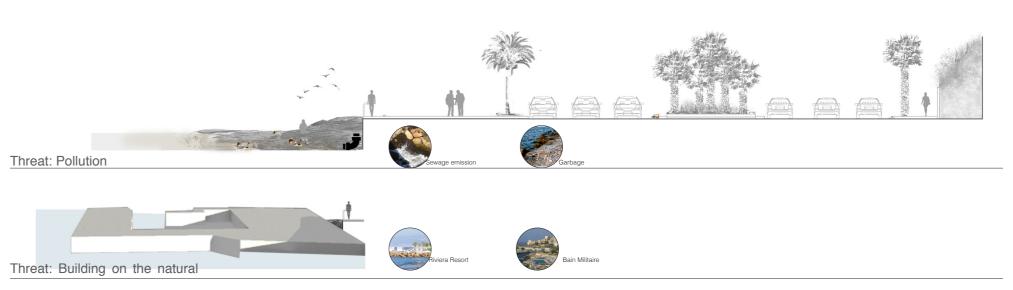


Fig. 7.0 Fauna and flora species



The direct threat that occurs daily is the pollution of solid waste and garbage by the people, and the sewage emission system which calls for a proper water waste management system.

Fig. 7.1 Threats to the ecosystem

The second threat to the ecosystem is the construction on the maritime domain, which harms the natural vermetid platforms, as well as various fauna and flora species

A Theoretical Approach

Spatial structures are dynamic and are not self-defined. They are not structures that exist independently of our surrounding. Instead, they are a result of the interactions between the social patterns and the spatial forms. There is interplay between social practices and the physical environment, and this relationship transforms a space to a place. The Corniche consists of several activities and different types of places due to the presence of different users.

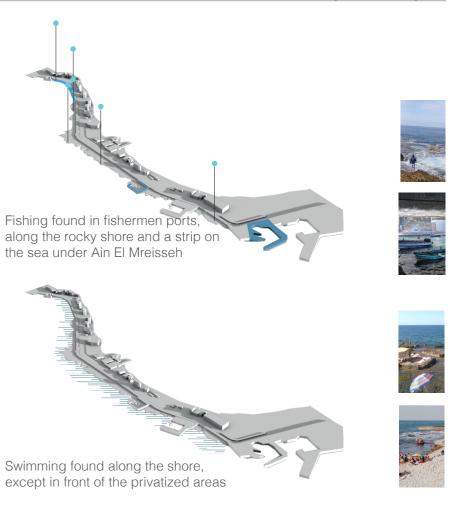
According to Lefebvre's theory of production of spaces, "space is the result and cause, the product and the producer" (Lefebvre 1991). Space is produced by those who use it, and the users act in the space based on its structure. This action-reaction process between the physical and social entities creates unity between

action and space. Hence, space is not the background of our actions; instead, it becomes part of the action. As the linearity of the Corniche allows people to see it as a path, people have been using it for walking and jogging. Also, as the sidewalk of Corniche changes in width, the activities alternate from simply strolling along the path, to gathering in a wide space. Through exploring the relationship between spatial structure and human behavior, we can understand that spaces and people function together: as a space is shaped by its users, also shapes the activities of the people in it. Furthermore, physical space plays a major role in the social world, as the social relations do not exist except in and through space, meaning that their "underpinning is spatial"(Lefebvre 1991).



Fig. 8.0 Social Activities





A Theoretical Approach

Space Becoming Multiple Places

The living space, which can be determining and can be determined simultaneously. appropriated by the users (Kidder 2008). Through the appropriation of space by different users, diverse types of places emerge. In the case of the Corniche, appropriation can be seen through the people's control over the objects. For instance, makeshift access points across the balustrade have been constructed (i.e. ropes and ladders) to reach the sea. Also, concrete blocks have been moved around in order to use them as benches.

Spaces that are filled with activities form what we refer to as places, which are spaces with meaning. The re-imagining of space offers multiple identities of places, many of which

are newly introduced and defy the intended conception of the space (Lefebvre 1991). The alternative uses that emerge by the people are the result of subjective perception. The perceptions of the people in this site vary from seeing the Corniche as a contemplation place, picnic area, playground, outdoor gym and many other uses. Elements in the space are perceived by individuals based on what they view them as, hence attributing certain meanings to the objects. The balustrade along the Croniche is perceived as a bench for contemplation, hence transforming the identity of the balustrade from just being a fence, into an interactive edge, a bench. In turn, their perception is reflected towards the space itself, making the personal image visible to the public (Lynch 1960).

Places of Cultural Exchange

Culture is embedded in a place, creates the cultural landscape that is constituted of the superimposed forms on the physical landscape. Building on that idea, geographer Carl O. Sauer believes that a cultural landscape is formed by a 'culture group' acting on a natural landscape; where culture is the agent and the natural space is the medium. John B. Jackson further emphasizes this idea by stating that a landscape is never a separate feature of the natural environment: instead, it is the place in which humans establish themselves through space and time (Elliott 2004). Landscape can be seen as a place of cultural exchange, where social and cultural practices can be exchanged in places between people and communities.

Consequently, these forms become cultural heritage (Elliott 2004). Jackson believes that the shared places, such as the streets, corners, houses and places of work can depict the history and society of the landscape, and this allows us to see ourselves in relation to the world around us, further building an image of our environment (Jackson 1984).

A Theoretical Approach

Building the Image(s) of the City

The image of the environment is formed through a two-way process, which occurs between the observer and his environment. Kevin Lynch introduces this concept of the selection process, in which the observer chooses what he sees while attributing to it a personal meaning. Hence, the image varies between different people (Lynch 1960). Lynch views the city through a process, in which the observer first identifies an element in the city and recognizes it as a separate entity. Then, a mental image of the object is built based on the spatial and pattern relation of the object to other elements and the observer. As a result, meaning is born within the observer, which cerates a virtual and emotional connection between the observer

and the object; the object is not just seen now, it is also felt. The pattern of perception changes based on the external physical shapes of the elements and the experiences that the person observes and passes through. This becomes a learning process for the observer to read. perceive and navigate the city (Lynch 1960). Similarly to Lynch, Christopher Alexander relates the spatial forms to occurring events. The patterns of events in the city create the character of the place. which are formed by the physical form and the events that occur within it. The patterns are repeated in the city's fabric, forming the city's character (Alexander 1979).

Reading the Landscape through a Narrative

The concept of pattern language that Alexander introduces focuses on the features of the city that connect to the human self, which successively affect the way in which the human reads his surrounding (Alexander 1977). Along the Corniche, the patterns of the people along and across the linear strip create living patterns to the space. These living patterns that Alexander describes can become the events that are used as references to read the city. This results in reading the landscape through a narrative of associations and references. Based on our imaginations and the mental images that we build, we are able to orient ourselves in the space based on memory and experience (Lynch 1960). The patterns are not

only created by the people, but they can be within the environment itself; for instance, a wave crashing across the sidewalk. These events in the places create memories for the people, which allows them to locate themselves based on the place where the wave hit the sidewalk, where the fishermen gather, the makeshift latter across the balustrade, or where the person was once standing while contemplating the sunset across the sea. The landscape narrative allows places to configure narratives, in which landscapes are not only the background setting of the stories, but they are continuously changing. "It is through narrative that we interpret the processes and events of place. We come to know a place because we know its stories" (Potteiger 1998). Place becomes

an association or a reference point, and a narrative of events, which are written in the physical form of the landscape, consequently becoming concrete and tangible elements in the landscape that make its identity (Potteiger 1998).

O8 Socio-Spatial Interaction A Theoretical Approach











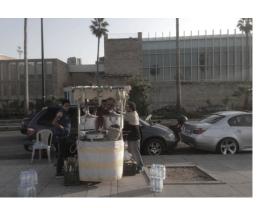


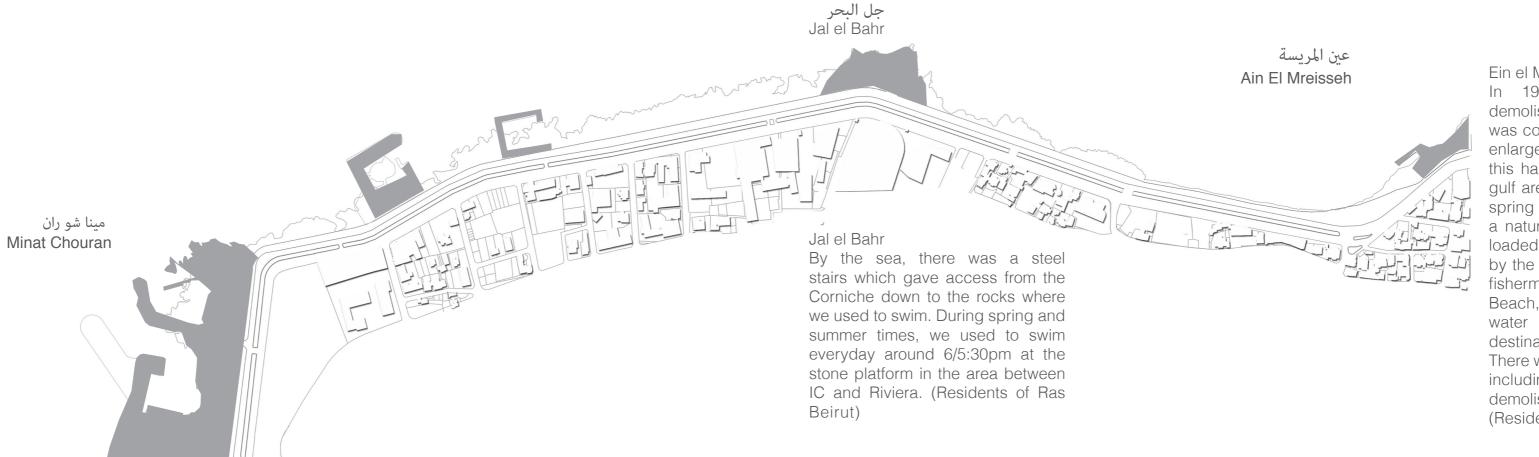
Fig. 8.1 Photographic Narrative

A Theoretical Approach
Based on an oral history project
by "Dictaphone" group, we can
trace back memories and cultural
practices along the coast.

Minat Chouran

We used to swim in the area currently known as Sporting Club. The place was called Hammam Kamar. Swimming was for free, no entrance fee was required. Pottery was sold at the current location of Bain Militaire. In the nineteen sixties, this became the Sporting Club and an entrance fee was set. (Residents of Qoreitem)

In the nineteen fifties, we used to swim in Sporting Club which had a different name at the time, and it was a free entrance. There used to be kiosks that sold coffee and arguile and we used to cross the rocks to swim. (Residents of Ashrafieh)



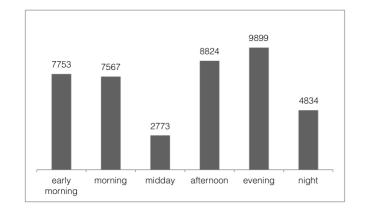
ig. 8.2 Oral History and Landscape Narrative

Ein el Mreisseh

In 1973, many houses were demolished and the water spring was covered up to give way for the enlargement of the Corniche. Before this had happened, Ein el Mreissh gulf area, stretching from the water spring up to the mosque, provided a natural indent where boats were loaded and a rocky beach was used by the neighborhood residents and fishermen. Since 1943, Normandie Beach, which was located at the water spring, became a main destination for Ras Beirut residents. There were several cafes in the area including Café el Jamal which was demolished during this current year. (Residents of Ein el Mreisseh)

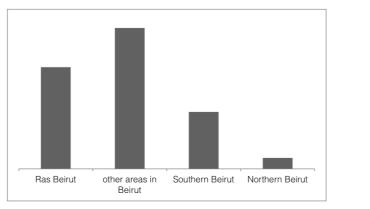
09 Social Statistics

Statistics based on the social activities were made after observations and calculations.

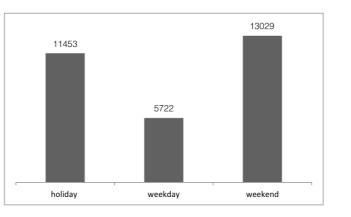


Number of people during time slots

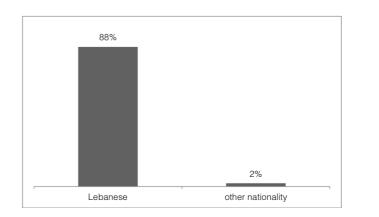
Fig. 9.0 Statistics on Social Activities



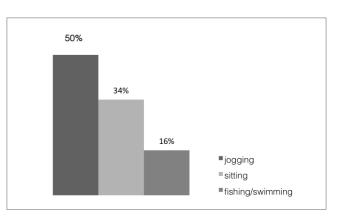
Where people come from to the Corniche



Number of people during different types of days



Locals are more abundant than foreigners



Types of users

10 Accessibility

Accessibility in this case can be studied through the barriers existing on site.

This layer can determine the relationship between the people and the space. Here, we can notice that there are spaces that act as barriers due to security, and there are barriers such as the balustrade that create the <informal access> by the people, from the city to the sea.



private security institutional governmental security booth

movable fence concrete block surveillance

security measure map







Fig. 10.0 Barriers map

10 Accessibility

Accessibility in this case can be studied through the physical access existing on site.

There are three layers of access shown in the map, and these layers determine the criculation and connectivity between the city and the sea.

There are formal access points versus informal ones.

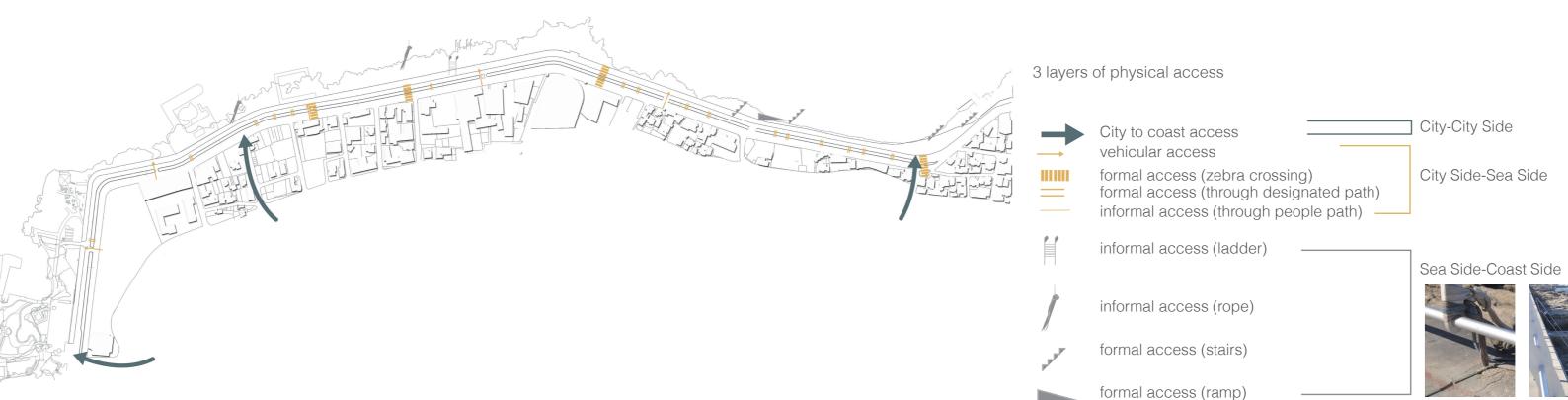


Fig. 10.1 Physical Accessibility map

10 Accessibility

Fig. 10.2 VisualAccessibility map

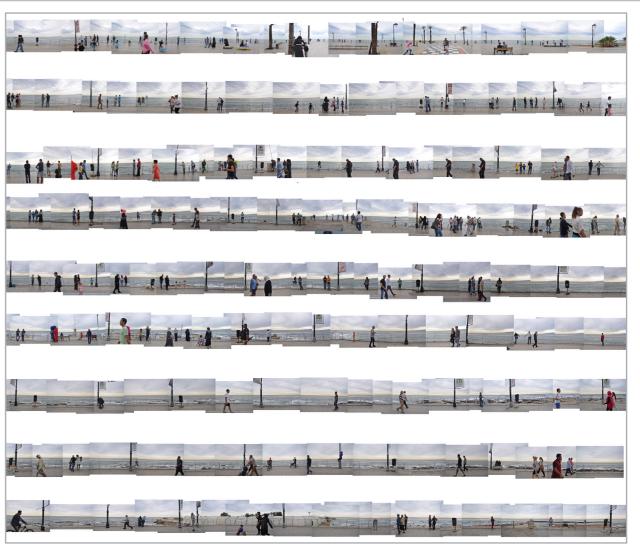
Visual accessibility on site is present along the Corniche except for the build up maritime domain.

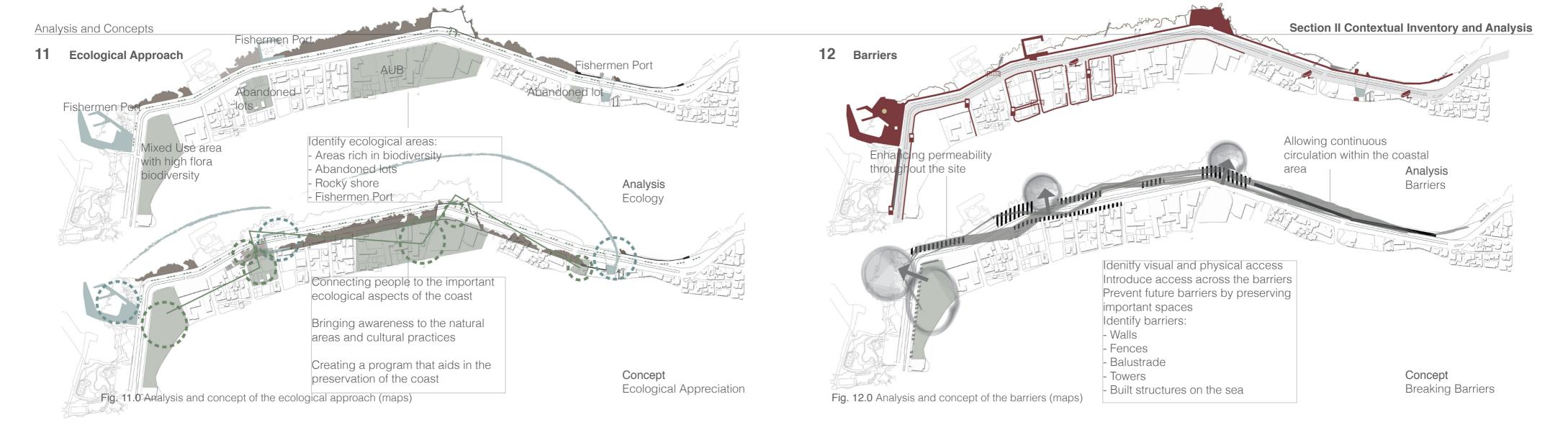
Due to the hilly topography, there are visual access points form the inner city.

Continuous visual access along the Corniche



Visual access from the hill





13 Context



Analysis

Context

Public space on city side connecting to sea side and coast side Public Square near Fakhouri lighthouse and Fishermen port

Concept

City to Sea Connections

Re-connecting the city neighborhoods to the sea Identify main access points

Fig. 13.0 Analysis and concept of the context (maps)

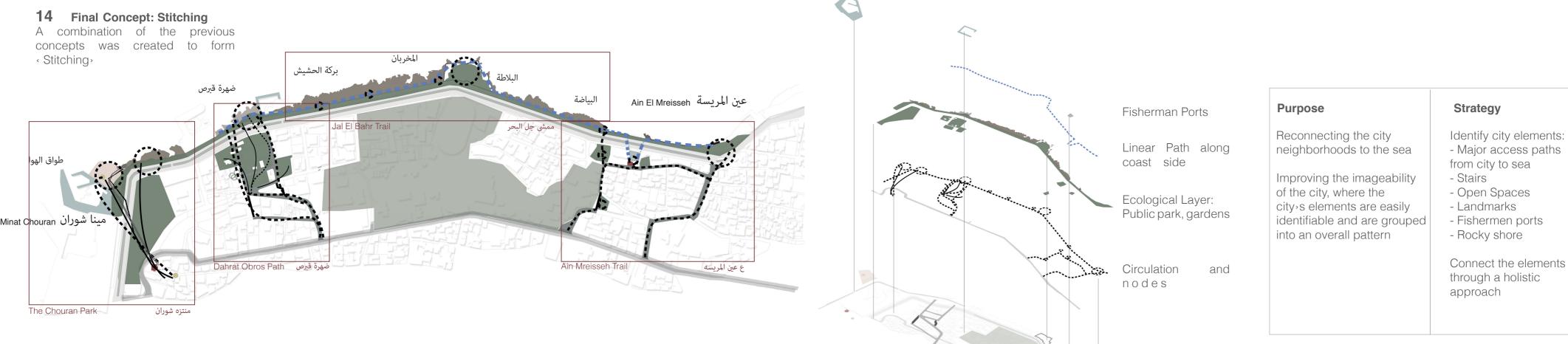


Fig. 14.1 Final concept axonometric layers: Stitching

Fig. 14.0 Final concept map: Stitching

Case Studies

Background

Project Name Harborfront Location Copenhagen, Denmark Year 2002, 2003, 2013

Strategy by Municipality of Copenhagen Commissioner Port of Copenhagen Interventions by Multiple designers

Problematic

As the development along the harbor separated the people form the water, this project aims to regenerate public life along the water while providing meaning to the place

Strategy

- 1 Interventions that create a dialogue with the history of the place
- 2 The project creates a new type of public space for the city, characterized by its own identity

Process

Copenhagen's harborfront has been developed through a long process divided into several phases, focused on different areas.

1970s

No parks in the area of Islands Brygge Commercial and industrial harbor stood as a barrier between the existing residential area and the water

Harborfront Barrier



Local residents organized an action committee (led by architect Poul Jensen and landscape architect Annelise Bramsnaes) to prevent a new vacant area from being built

Interventions

Accesses

Relaxation areas

Sitting areas

Circulation

Vegetation

1 hectare of land granted by the Harbor Authority. Residents planted trees and grass to create a park, which opened in 1984



Municipality of Copenhagen provided economic support for an extension of the park by 2.8 hectares

Municipality took charge to improve the quality of the harbor water

2002, 2003, 2013

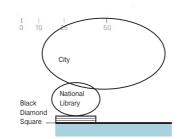
Interventions built along the waterfront, such as three Harbor Baths

1 Black Diamond Square

The National Library is a city landmark known as Black Diamond. The cafe-terrace outside the Library has become a popular public



The strategic location close to the ibrary and easy connection with other parts of the city, via a nearby water bus stop, make this place a oopular space to meet, read and sunbathe in summer



2 Harbor Bath at Islands Brygge

Architects Julien de Smedt and Bjarke Ingels Built in 2003 Symbol of the harbor's regeneration



Has 5 pools and a capacity for 600 people

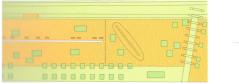
The Harbor Bath designed as a place to exercise, socialize and play

It was built following the improvements of the water quality in the harbor

3 Havneparken in Islands Brygge

Long waterfront park Located at the center of the Commemorates the history of the site



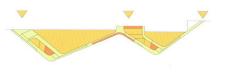


Integrates a fragment of a railroad track and an old train car to remind visitors of the site's industrial past

4 Kalvebod Waves

Architects JDS architects Area 8.500 m2 Walking promenades, resting and sports areas







the edge of the pier with the water enclosing two plazas, several facilities and swimming pools

A sinuous wooden promenade connects

15 Case Studies

Background

Project Name Waterfront Seattle Location Seattle, United States Year 2012

<u>Landscape Architect</u> James Corner

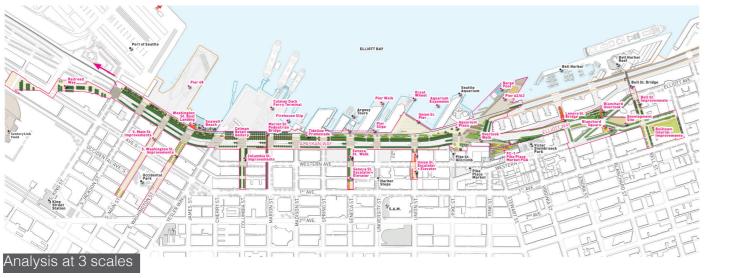
Problematic

As the central Seattle waterfront is aging and lies disconnected from the city, the City of Seattle aims to create a "waterfront for all", thus transforming the central waterfront and reconnect Seattle to Elliott Bay.

Objectives

- Create a Waterfront for All
- Put the shoreline and innovative, sustainable design at the forefront
- Reconnect the City to its Waterfront Embrace and celebrate Seattle's past, present and future
- Improve access and mobility
- Create a bold vision that is adaptable over time
- Develop consistent leadership -from concept to construction to operations

Site Plan









Two Approaches

Urban Street

The streets and pedestrian promenade act as connectors between existing shopping, dining, boating and cultural activities, while also connecting people to new waterfront destinations and the city beyond



Zoom in Plan of Alaskan Way

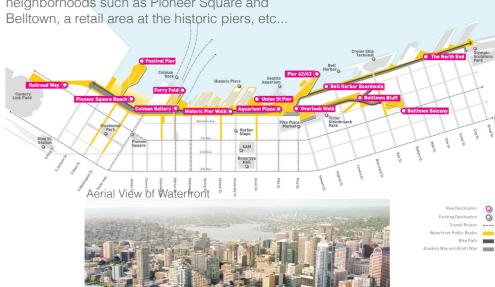


Section of the Bike Path



Waterfront

The waterfront was organized by zones of programmatic focus. Those include specific neighborhoods such as Pioneer Square and



16 Stitching: Four Zones

Zone 1

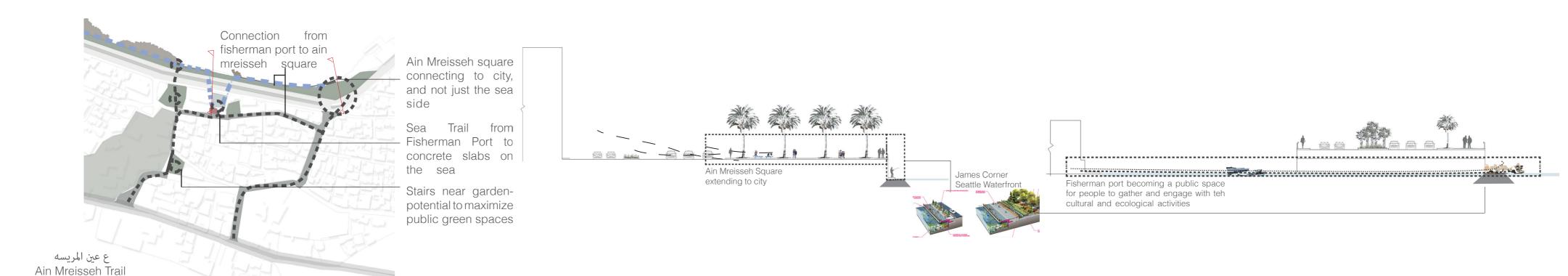


Fig. 16.0 Zone 1 Program Development

16 Program Development: Four Zones Zone 2

A proposal for AUB to open its borders along the coast side

Transforming AUB beach to an open public space which extends from the sidewalk

tormal access points to the coast side

and a proposal for AUB to open its borders along the coast side

Transforming AUB beach to an open public space which extends from the sidewalk

tormal access points to the coast side

A proposal for AUB to open its borders along the seaside, with nodes to access the coast side

visual access connection to coast side physical access

Fig. 16.1 Zone 2 Program Development

Design Proposal Section III Contextual Masterplan

16 Program Development: Four Zones

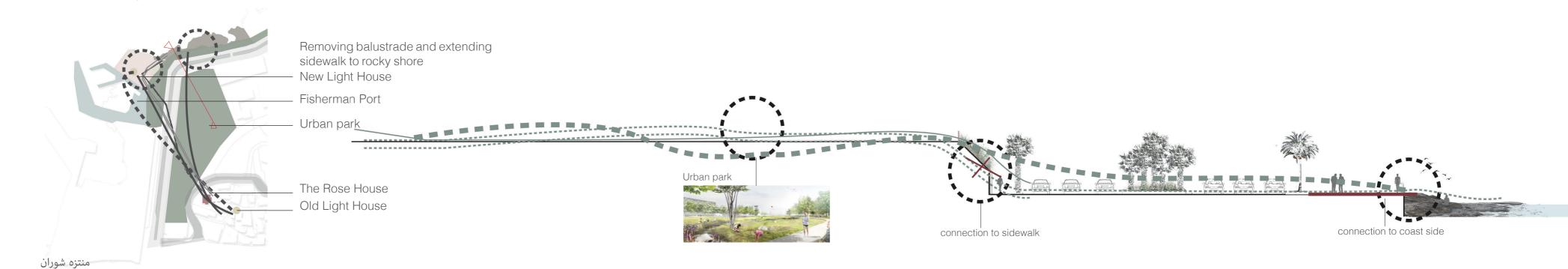
Zone 3



Dahrat Obros Path path with activity/public space nodes that reach a large node between the city side-sea side-coast side Fig. 16.2 Zone 3 Program Development

16 Program Development: Four Zones

Zone 4: Chosen to develop



The Chouran Park urban park with cultural trail Fig. 16.3 Zone 4: Chosen Program to Develop

Section IV Zone 4: Manara Inventory

17 Site Context | Zone 4: Manara Focus Area Manara, Ras Bei Fig. 17.0 Site Context and Evolution



























Fig. 17.1 Site Pictures

18 Site Analysis

First layer of accessibility: Physical

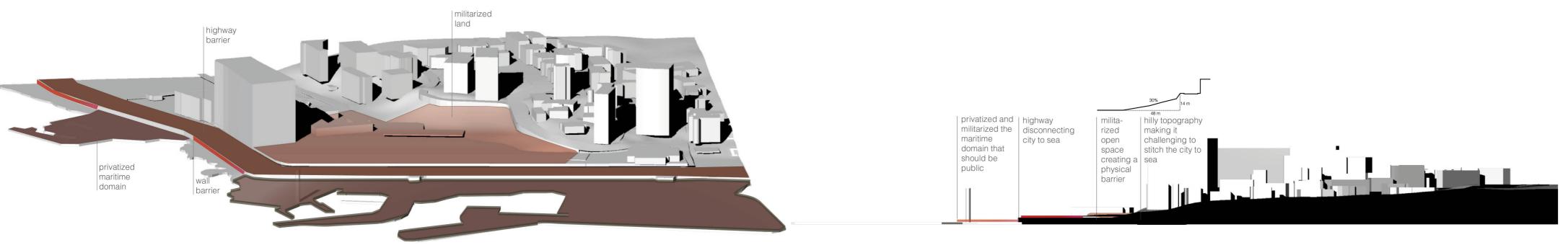


Fig. 18.0 Physical Connection

18 Site Analysis

Second layer of accessibility: Visual

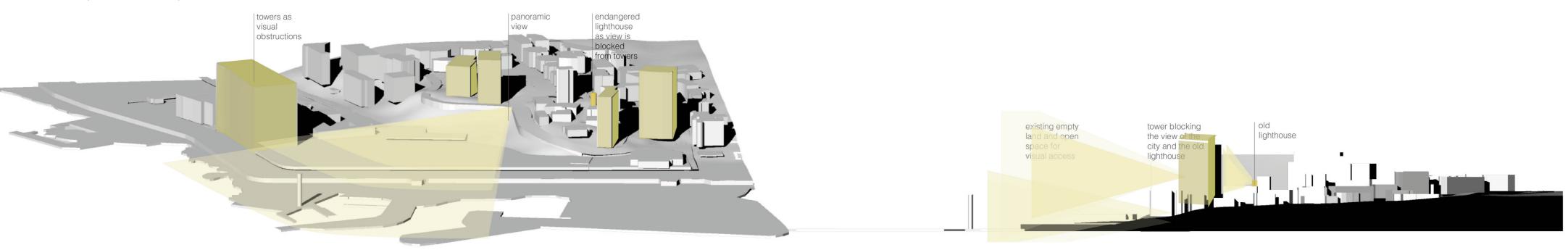
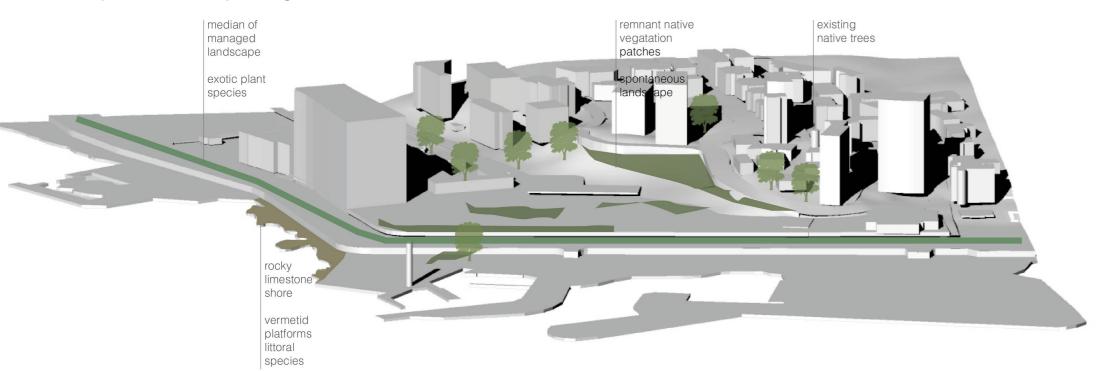


Fig. 18.1 Visual Connection

18 Site Analysis

Third layer of accessibility: Ecological



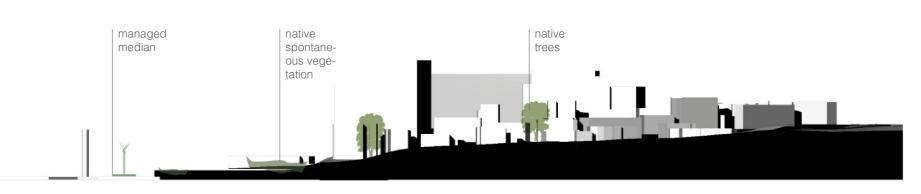
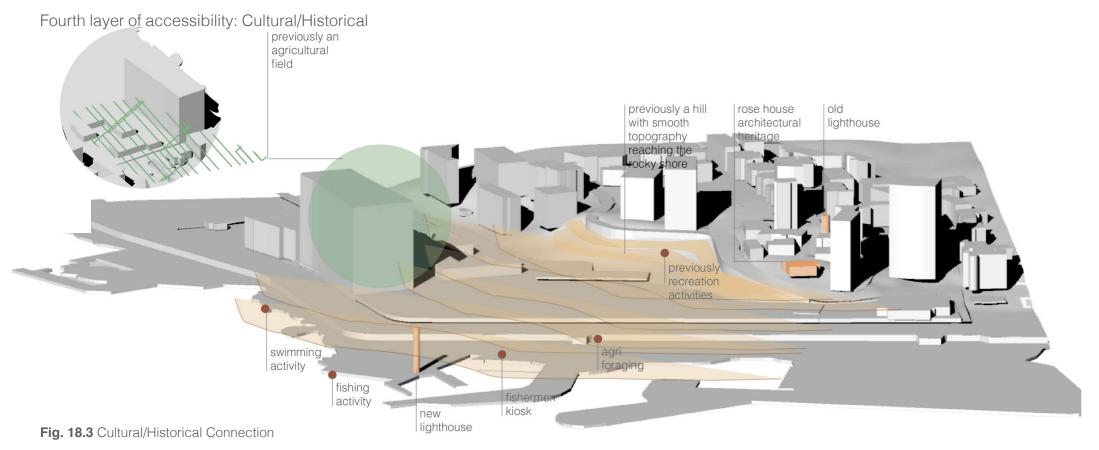
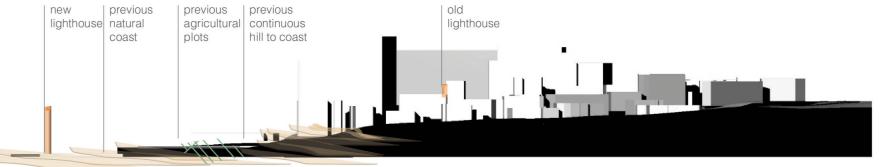


Fig. 18.2 Ecological Connection

18 Site Analysis

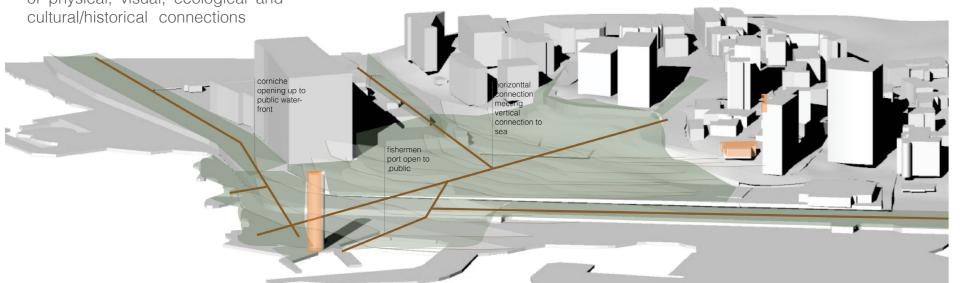




Concept Section IV Zone 4: Manara

19 Concept

Concept of stitching the city to the sea through a public park consisting of physical, visual, ecological and cultural/historical connections



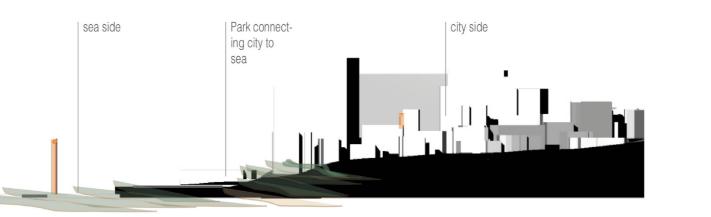




Fig. 19.0 Conceptual Diagrams

Design Proposal

Proposed Plan

The proposed design is a result of the analysis on different types of accessibility. The Manara Park is a vision of stitching the city to the sea and sea to the city. The flow of the organic shapes of the park allow the city to be connected horizontally and vertically.

The park is seen as a holistic connector, as it connects the remnant ecological patches to make them one entity, it connects the present social and cultural practices to those of the past through its program, and hence it connects the people to their city and the sea.





PWP Barangaroo Headland Park

Landscape Transitions

Section IV Zone 4: Manara

Fig. 20.1 Plan Diagrams and a Case Study

Main Viewshed from Hill

Design Proposal Section IV Zone 4: Manara



Design Proposal

Section IV Zone 4: Manara



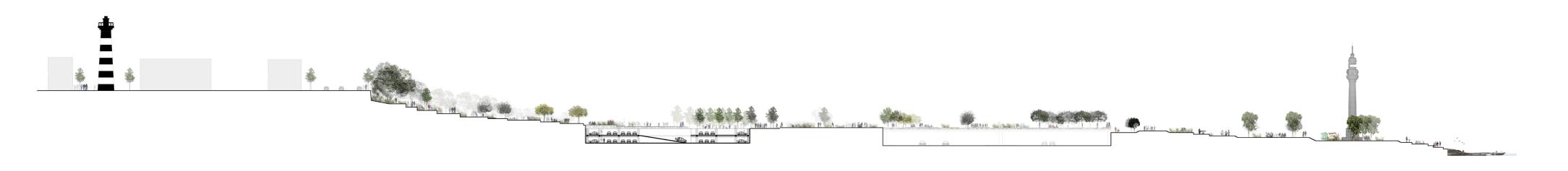
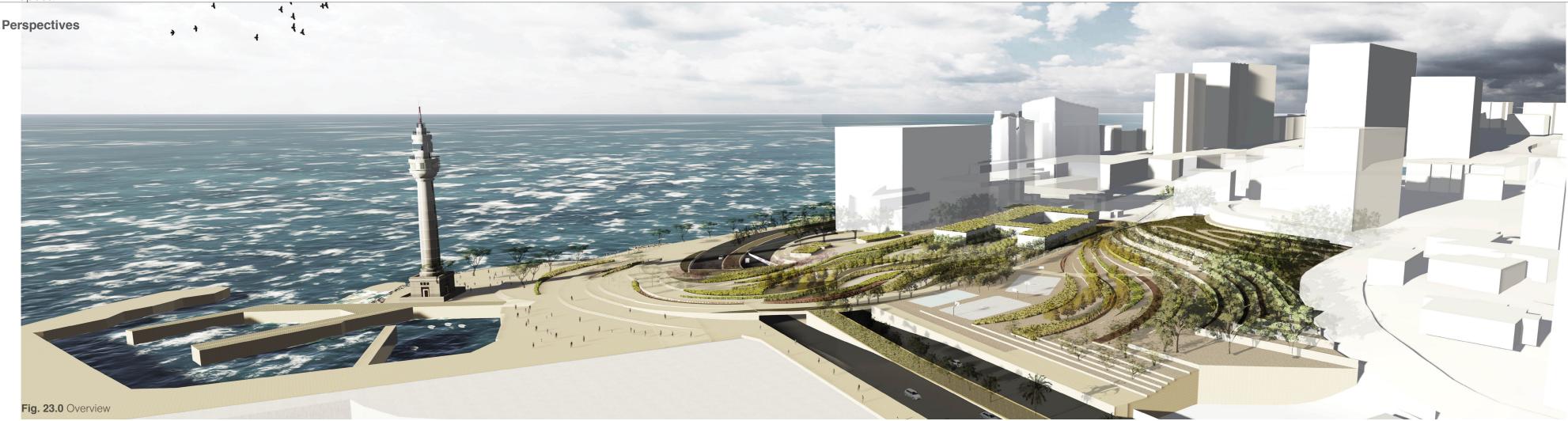


Fig. 22.0 Cross Section

Design Proposal Section IV Zone 4: Manara



Design Proposal

Section IV Zone 4: Manara

23 Perspectives





Conclusion Section V Conclusion

Manara Park re-envisioning Beirut's coast

The Manara Park challenges the current threats that are being brought upon the coast of Beirut.

The design was created from the identity of the site, the exsiting ecology and the present cultural and historical practices and landmarks.

It is a link between the city to the sea, as much as it is a link between the city and its identity.

