

The background of the slide is a collage of architectural renderings in grayscale. It includes a coastal promenade with palm trees, a modern multi-story building with balconies, a large covered structure with a grid roof, a structural steel truss system, a long low-profile building with a pool, and a modern lounge chair.

**ALEXANDRA
CARMONA**

**SELECTED
WORKS**

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STACKED HOUSE

UNDERGRADUATE, 2002



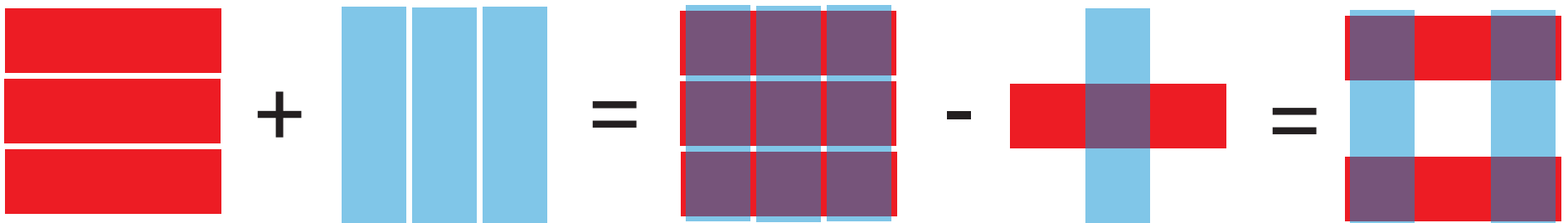
This project is located in Castillogrande, a very traditional residential area in Cartagena, Colombia, surrounded by Cartagena's Bay at north and the Caribbean Sea at south west. The assignment was to design a house for two families, with four bedrooms, living, kitchen, studio, services area and a pool, for each one. My personal challenge: to design a whole single element without symmetry nor a house repeated twice.



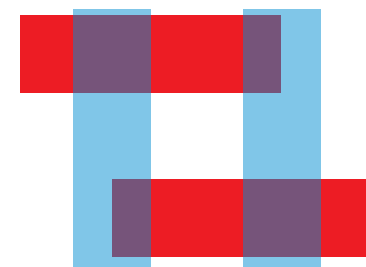
The surrounding architecture is not worthy for inspiration, despite having the wealthiest residents in the city (except for a few modernist houses from the sixties). The view toward the bay is really amazing but what caught my attention was beyond the opposite coast: the harbour, with thousands of stacked containers.

DESIGN PROCESS

Starting with stacking elements in both axes X and Y, then in Z. Stacking could be useful if design takes into account a correct density which allows ventilation and illumination for interior spaces. That is why the central elements are removed.



Finally, to grant access to views for both modules, containers in axis X are displaced.

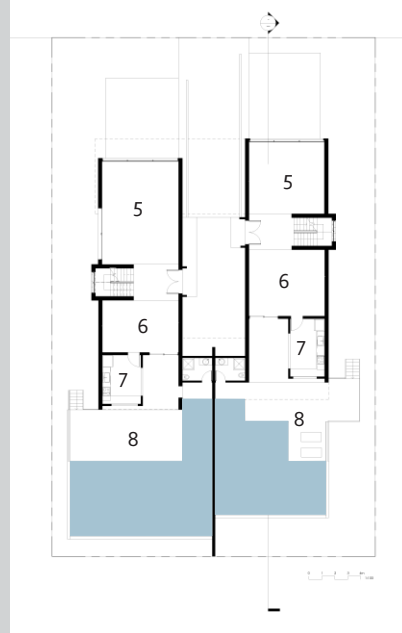


Basement



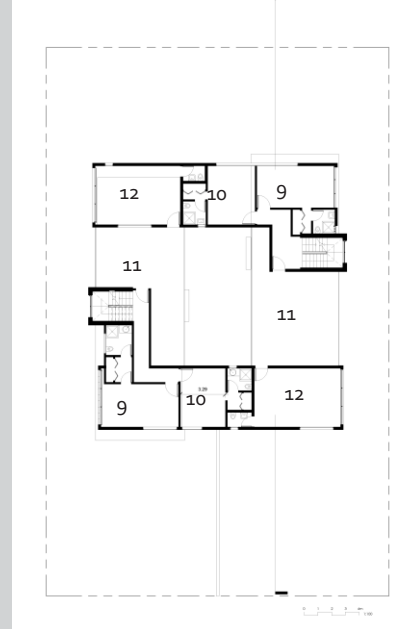
1. Garage 2. Laundry room
3. Maid's room 4. Storage room.

1st floor



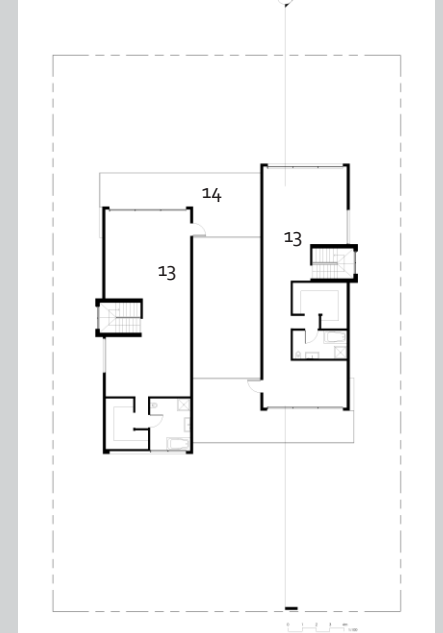
5. Living room 6. Dining room
7. Kitchen 8. Pool deck

2nd floor

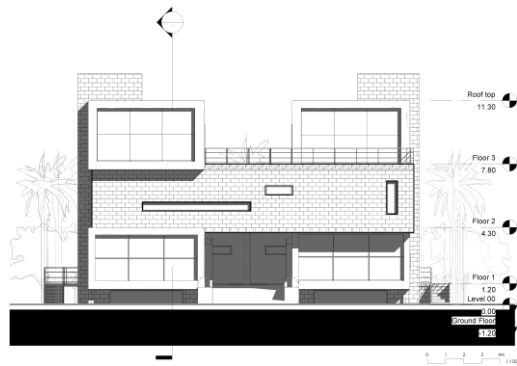


9. Bedroom #2 10. Bedroom #3
11. Terrace 12. Studio/office

3rd floor



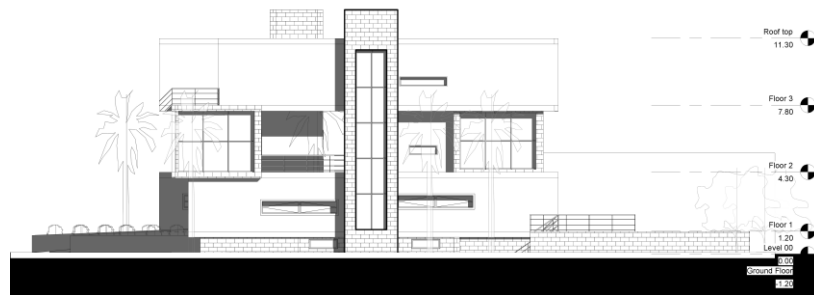
13. Master Bedroom 14. Terrace



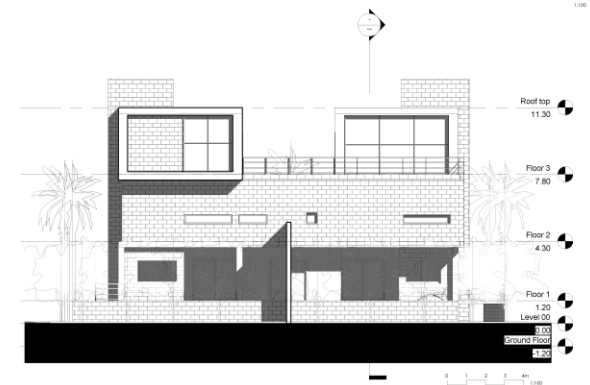
North Elevation



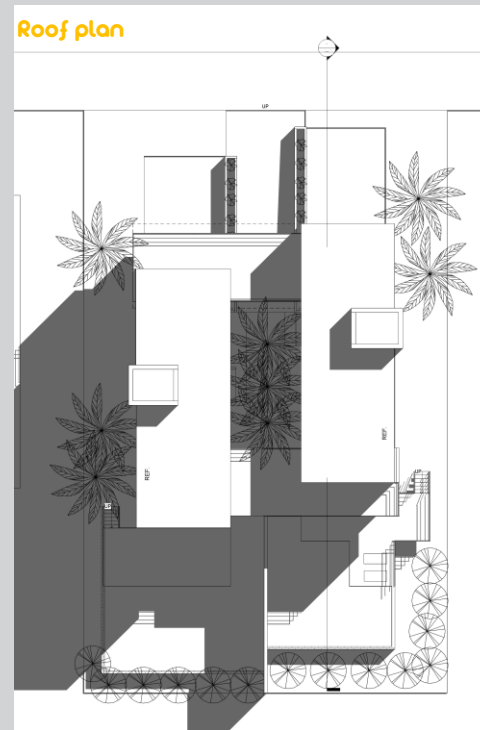
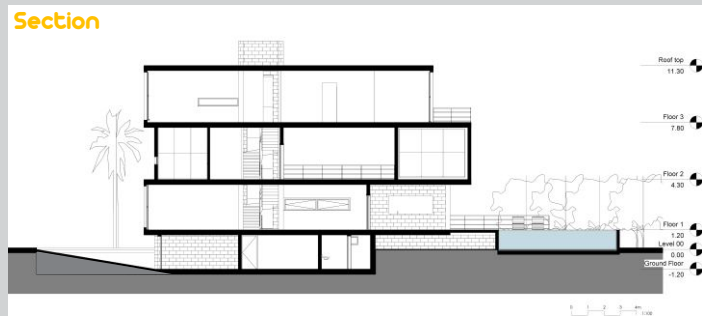
East Elevation



West Elevation



South Elevation



View from the backyard



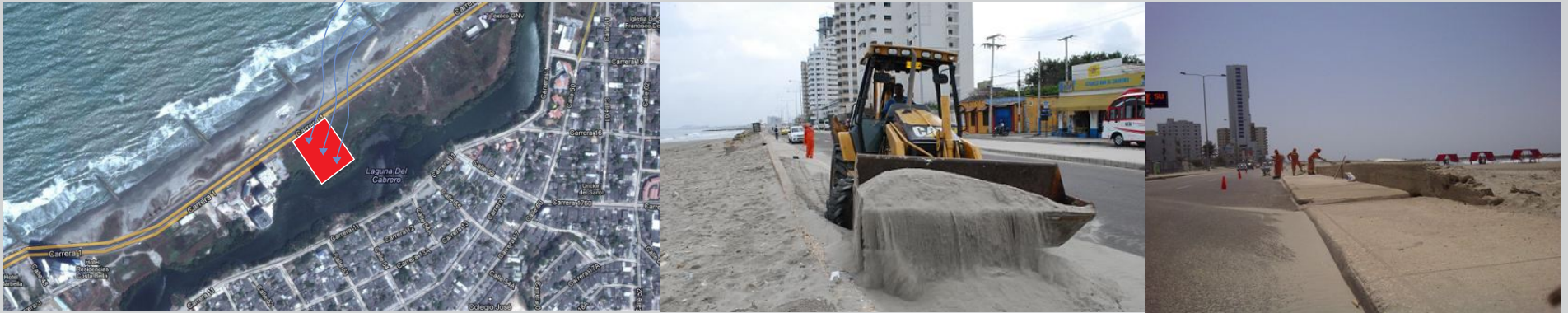
View from the entrance

MARBELLA APARTMENTS

UNDERGRADUATE, 2003



Located in Marbella, in a strip of land between the Cabrero Lake and the beach. Due to its orientation is one of the most windy and sandy areas in Cartagena. The assignment was to design a multi-story building for housing, taking account of the weather conditions for this site. The sand comes across the avenue and get into the houses. Appliances and even aluminum windows get rusty very often.

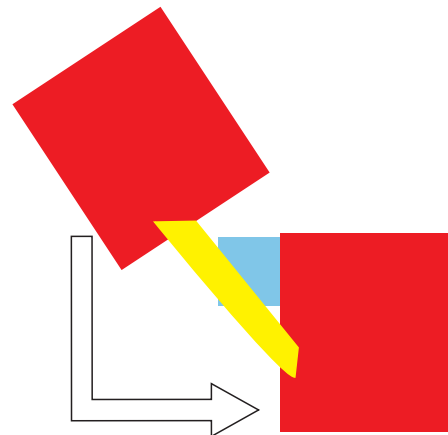


DESIGN PROCESS

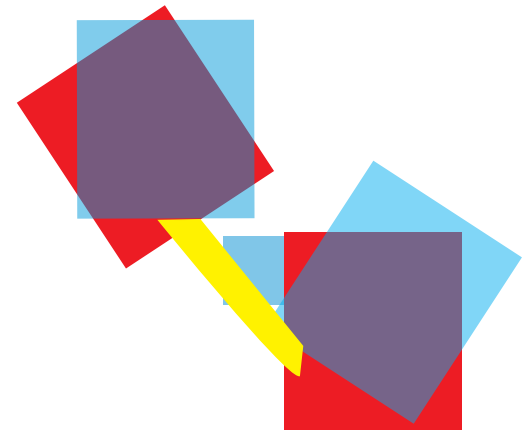
My first decision was to avoid flat and wide facades. After calculating the areas per story, a single bulk would have a lot of volume and wide surfaces, perfect to catch wind and sand.

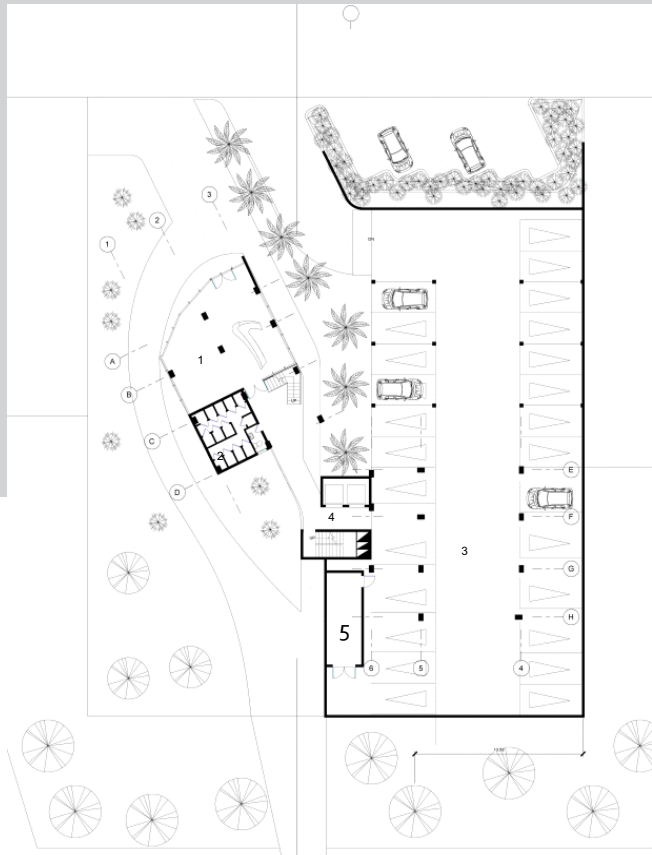


Instead, I proposed to split it in two volumes, and with the low building density allowed in the code, it is a must to keep a single vertical circulation. The volumes then are connected by the horizontal circulation.



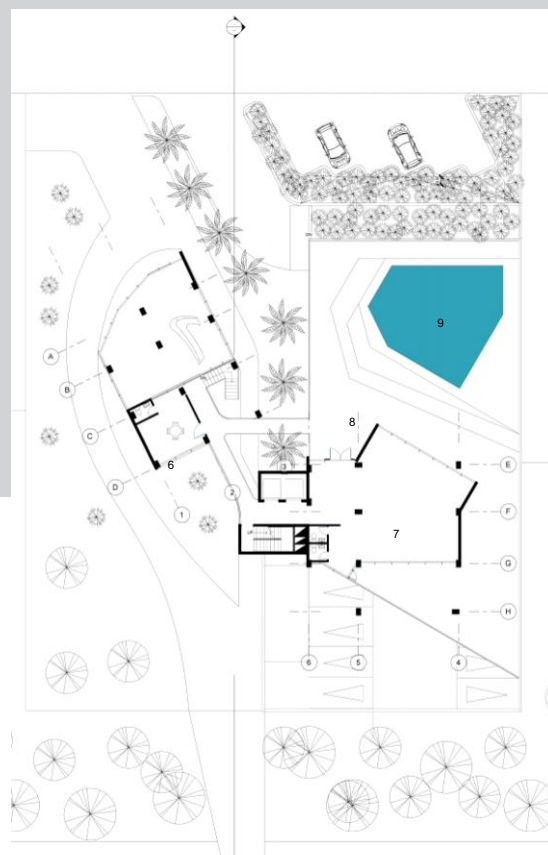
To maximize the width of views avoiding widening a facade, each volume is rotated on its own axis to generate balcony slabs.





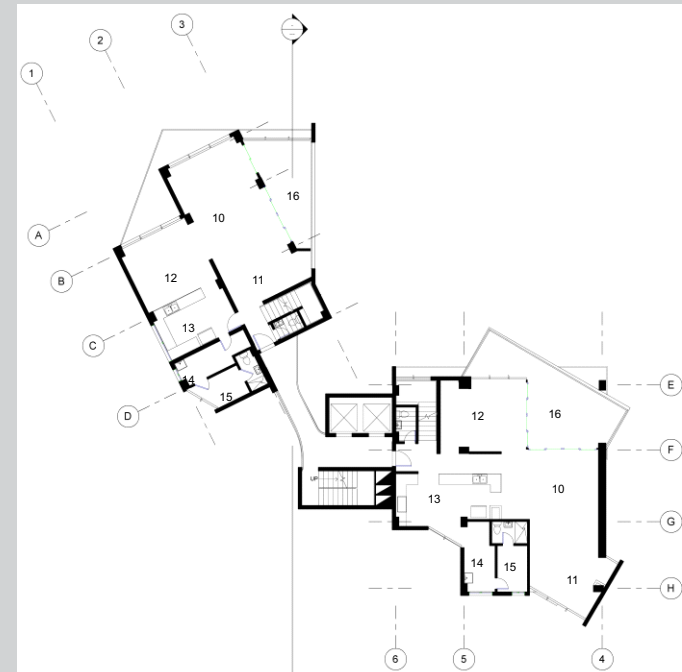
Access Level

1. Lobby 2. Storage 3. Parking 4. Vertical circulation 5. Power room.

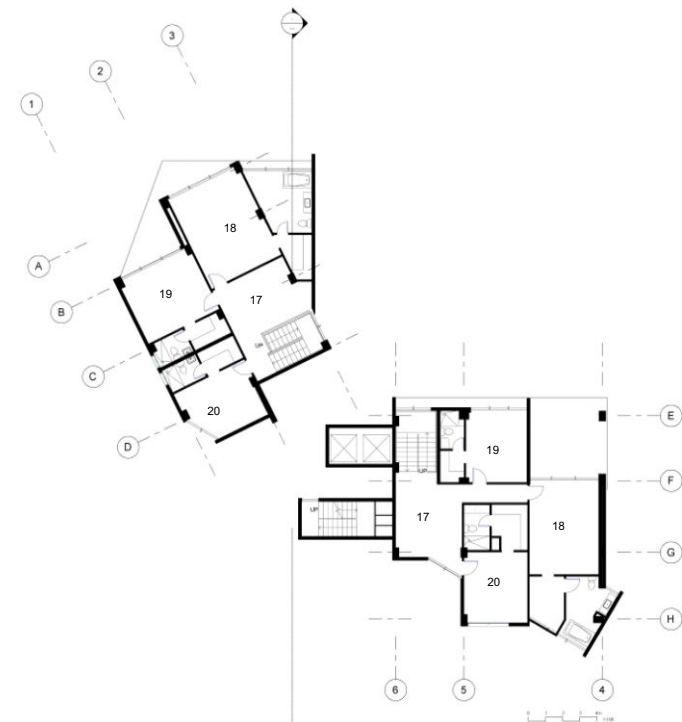


Second floor

6. Administration office 7. Multi-purpose room 8. Terrace 9. Swimming Pool.



Apartment: first type floor



Apartment: 2nd type floor

10. Living 11. Office 12. Dining room 13. Kitchen 14. Laundry room 15. Maid's room 16. Balcony
17. Family room 18. Master bedroom 19. Bedroom 02 20. Bedroom 03

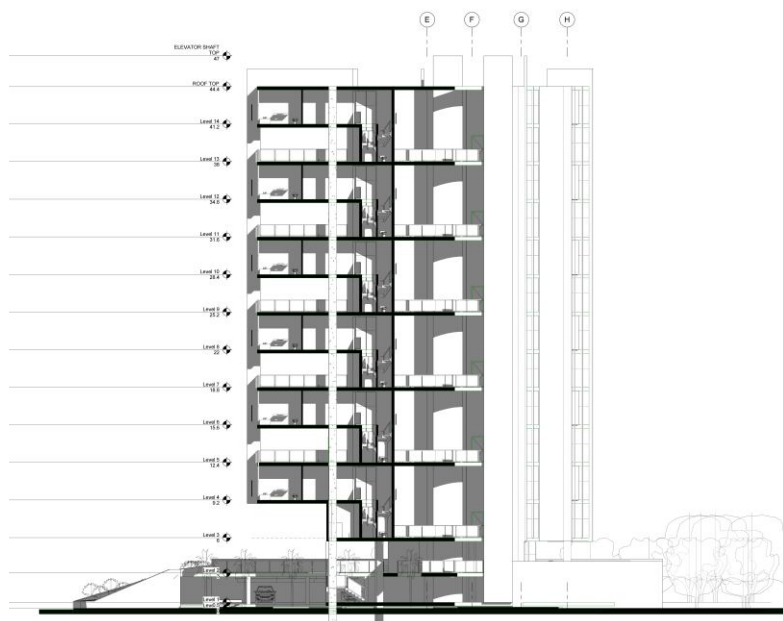
North Elevation



South-west facade



Section



A battered garden works as a barrier against the sand and sand coming from the beach. The horizontal screens of perforated aluminum protect the interior of the apartment from direct sunlight

LIMBO MARINA CLUB

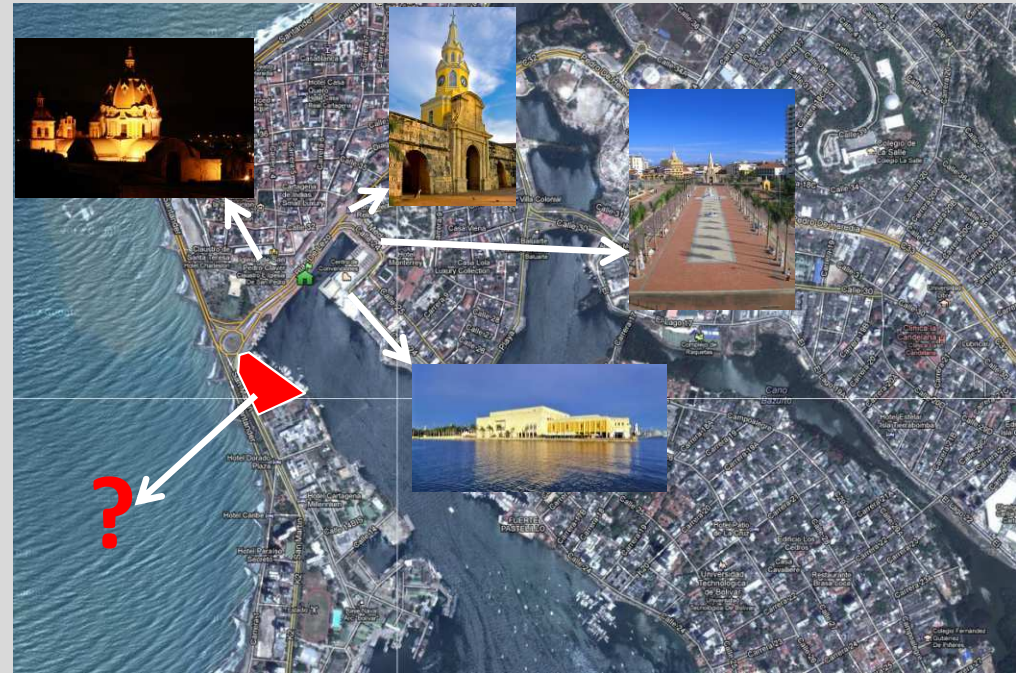
UNDERGRADUATED, 2004



This is the best project site in Cartagena: in the narrowest land between the Caribbean Sea and the stunning Bahía de Cartagena at its historic district. The area has the most iconic buildings and public spaces of the city. In such an important location, nowadays it is occupied by... well, a gas station and service center. Although the gas station serves boats as well as cars.

The assignment was to design the most adequate use for the site. The maximum height allowed is a two story building, and the occupation is set to the 30%. Next to the site at north is the touristic dock of La Bodeguita, where sail boats take off from. At south there is the Navy Military Base and in the opposite shore in the Manga isle is the Nautical Club, the only formally established civil marina, very small but also very active, it is over capacity almost all the time.

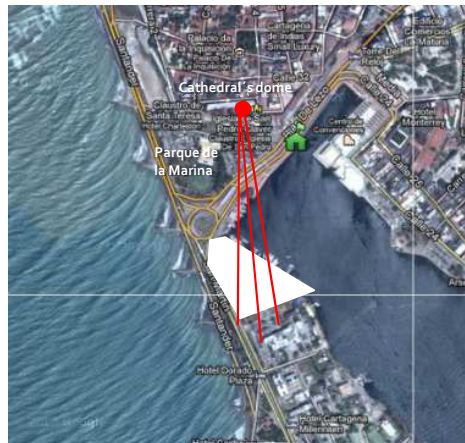
Given the proper conditions, this program would fit perfectly for the site. The advantage of this activity is the positive impact it has in the city's skyline, and the emphasis on the historical spirit of the port city.



DESIGN PROCESS

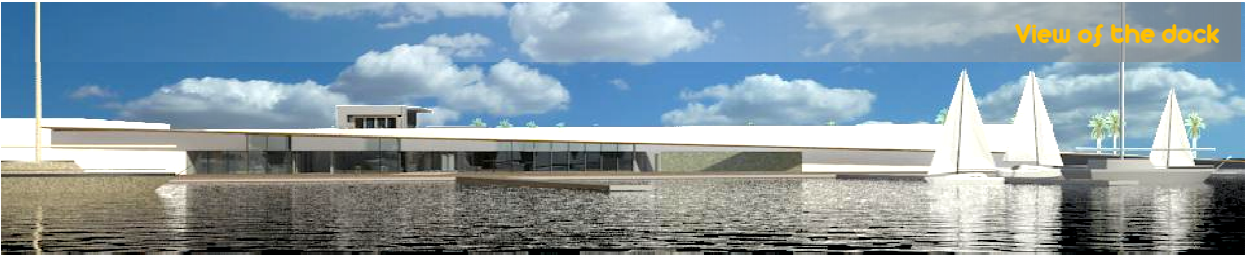
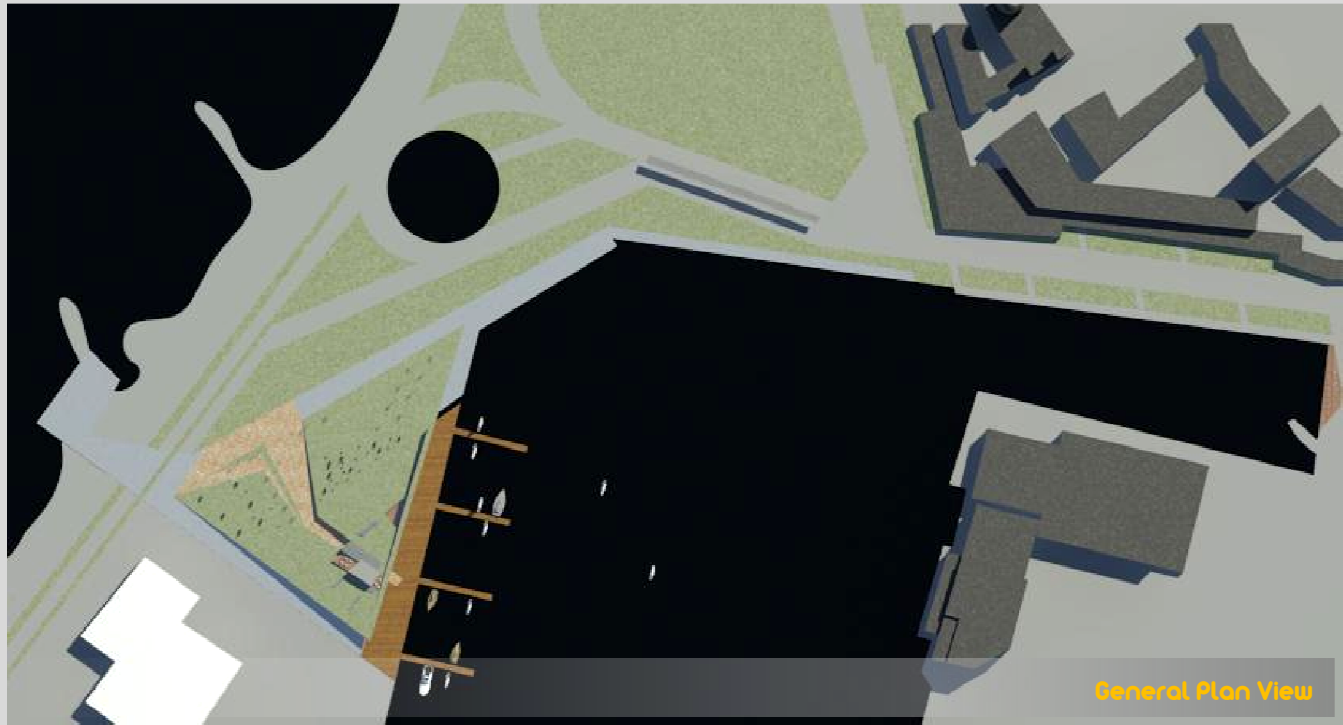


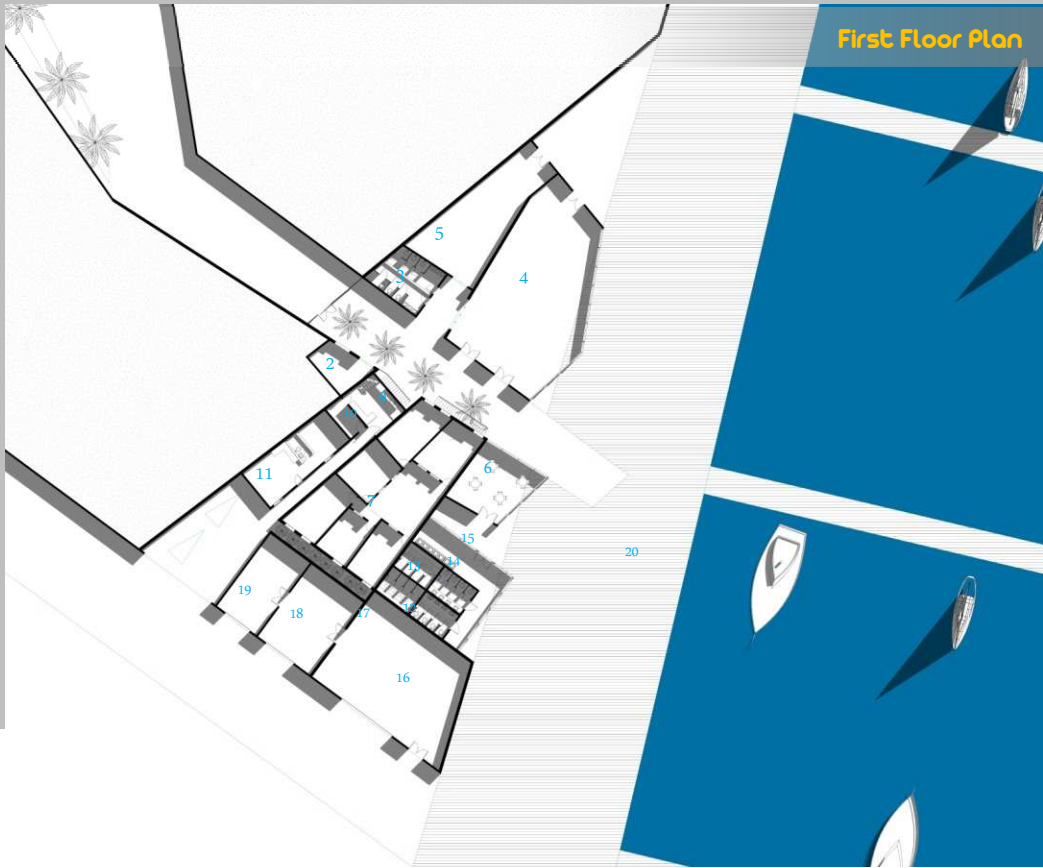
My favorite landmarks in Cartagena are the San Pedro Cathedral's dome, designed in the republican era of the city by french architect Gaston Lelarge, and the Cerro de la Popa, the only mountain in this flat city.



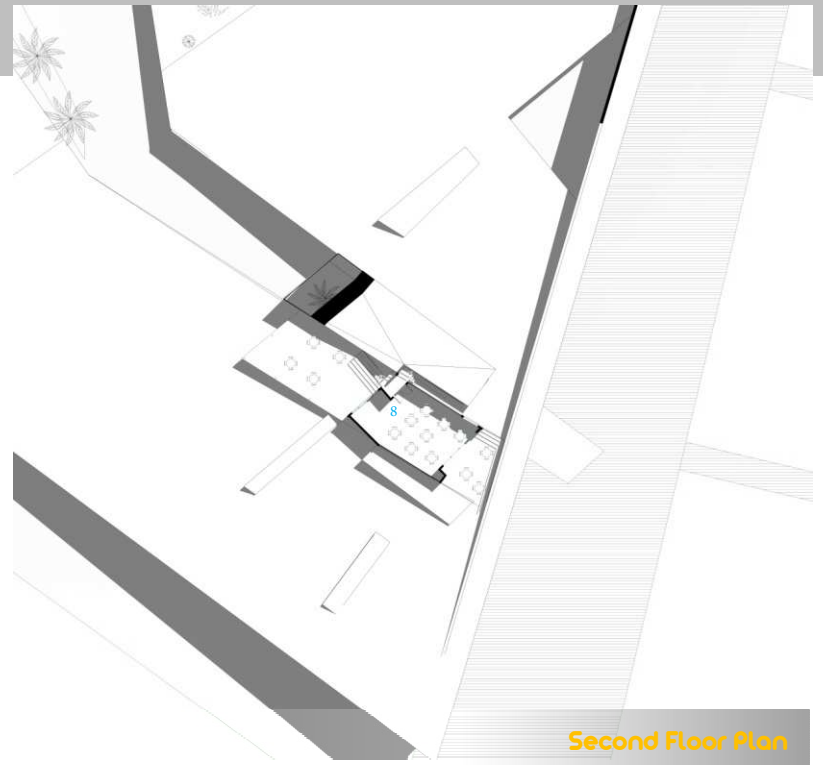
The visual link to the dome is achieved by radial "strings" centered from the dome, creating perspective lines that pulls the sight to it. The result is a set of triangles that defines the axes of my building.

Keeping this idea of triangles also for the elevation is the perfect link to La Popa: a slight inclination ending in a cliff. But the program for a marina is very short, so the free space is donated to the city, complementing the green space opposing at north: El Parque de la Marina (Marina Park).



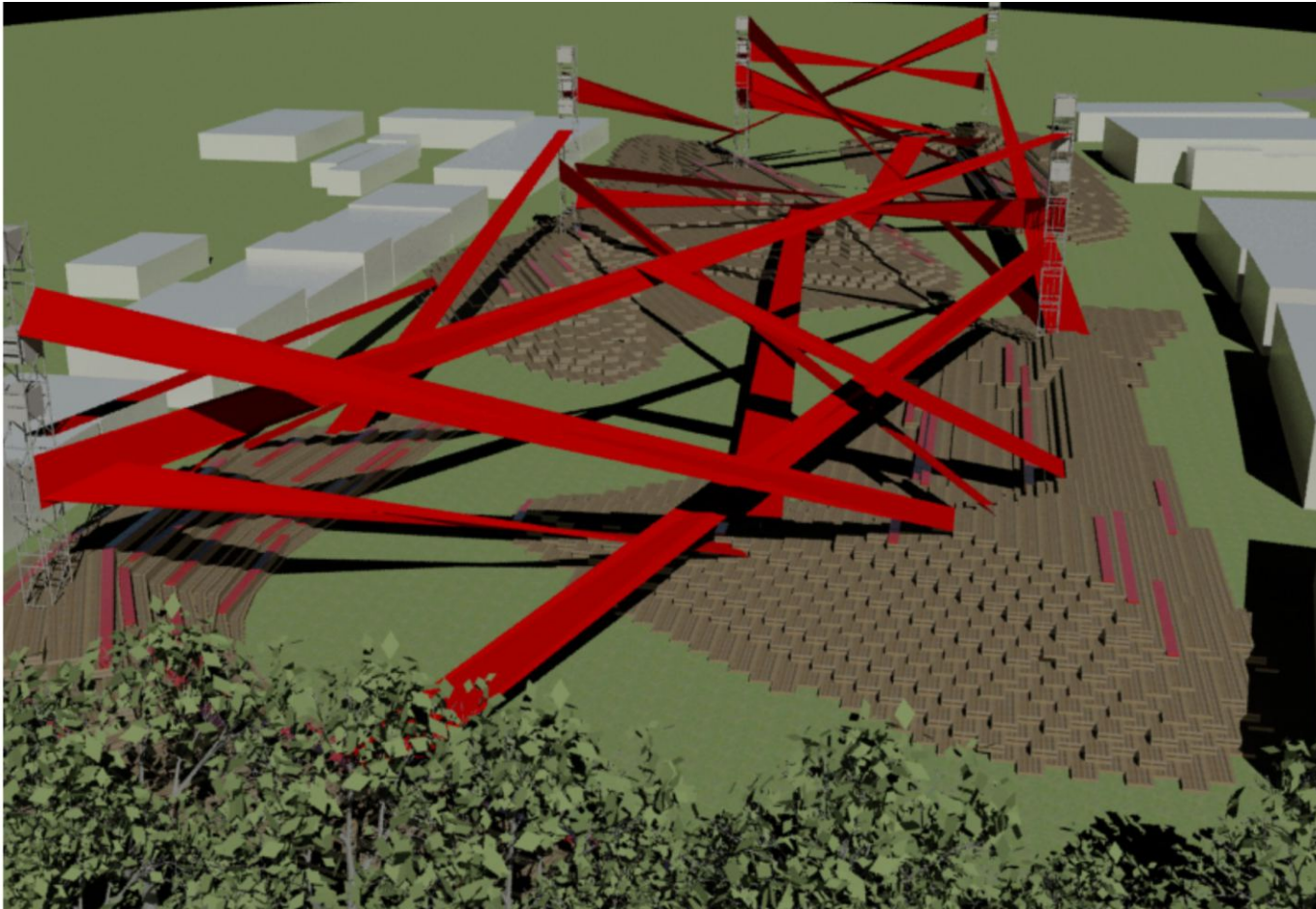


- 1 Lobby
- 2 Office
- 3 WC
- 4 Ball room
- 5 Class room
- 6 Library
- 7 Dorms
- 8 Restaurant
- 9 Kitchen
- 10 Storage
- 11 Janitor's apartment
- 12 Services Men
- 13 Services Women
- 14 Laundry
- 15 ticket window
- 16 Workshop
- 17 Tool deposit
- 18 Mast storage
- 19 Warehouse
- 20 Docks



BUILD WHAT HERE 2011

COMPETITION ENTRY
Postgraduate, 2011



BUILD WHAT HERE

An open architecture competition



The Roskilde Music Festival launched in 2011 a competition to design one of the areas of the festival, with the assignment to provide meeting squares, vantage points, sitting and relaxing areas, and to be build with recycled or pre-built elements.



In the picture provided by the organizer, is a field of dunes at the top, and my design was there: a temporary topography with dunes, covered whit stripes of recycled textile dyed in red.

PROJECT FEATURES

Sustainability. Materials are mostly pre-fabricated modular elements:

Pallets (a lot of them, for the islands).

Scaffolding (for the towers, 9 levels each = 45 modules)

Bulk containers (3 units at the top of each tower = 15 units)

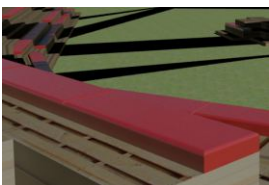
Red waterproof fabric (the color and composition is optional, for ribbons and sitting lines).

Building process for this project doesn't need any special equipment, due to its easy assembly that makes it flexible, because large elements are designed with small modules. This allows to fit the site without any significant changes.

The interaction with the people takes place with the "furniture": sitting lines are made of modules of 1m x 0.4m, and must have a string to tie them easily to the pallets, so people can move them and use them as they wish (for sitting or laying down).

There are 5 vantage points in this project: the top of each island. People can climb them and have a view of the entire festival.

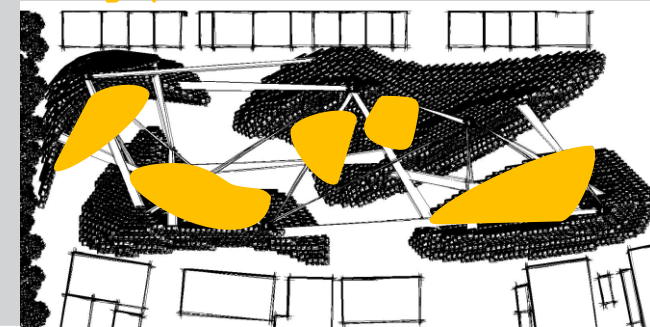
Reviewing earlier Roskilde festival projects, the use of bulk containers as lamps is a great idea to borrow, putting them in the top of the towers. Spotlights are located at the towers to illuminate the ribbons, making a special effect for the landscape at night.



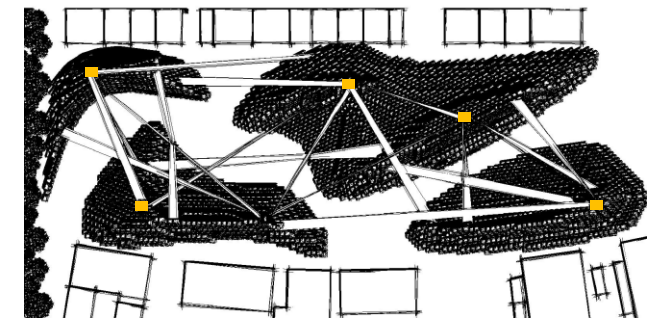
Circulation



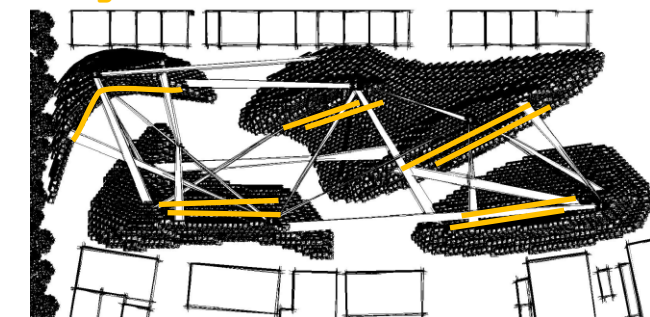
Meeting squares



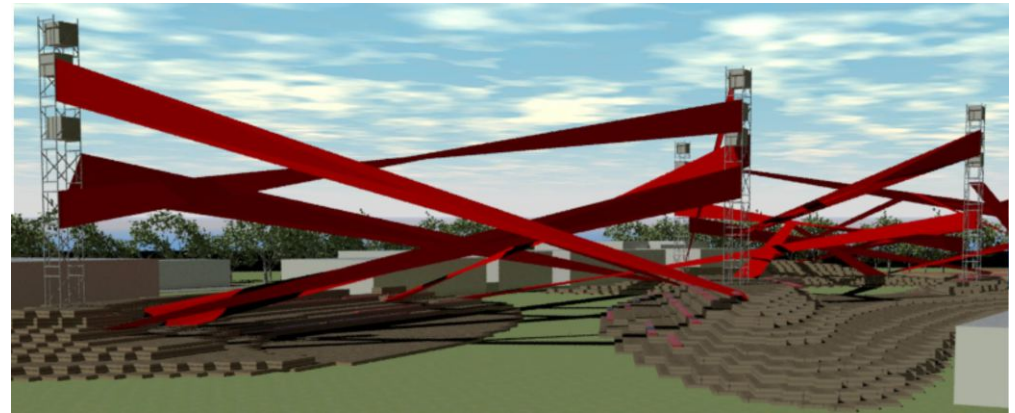
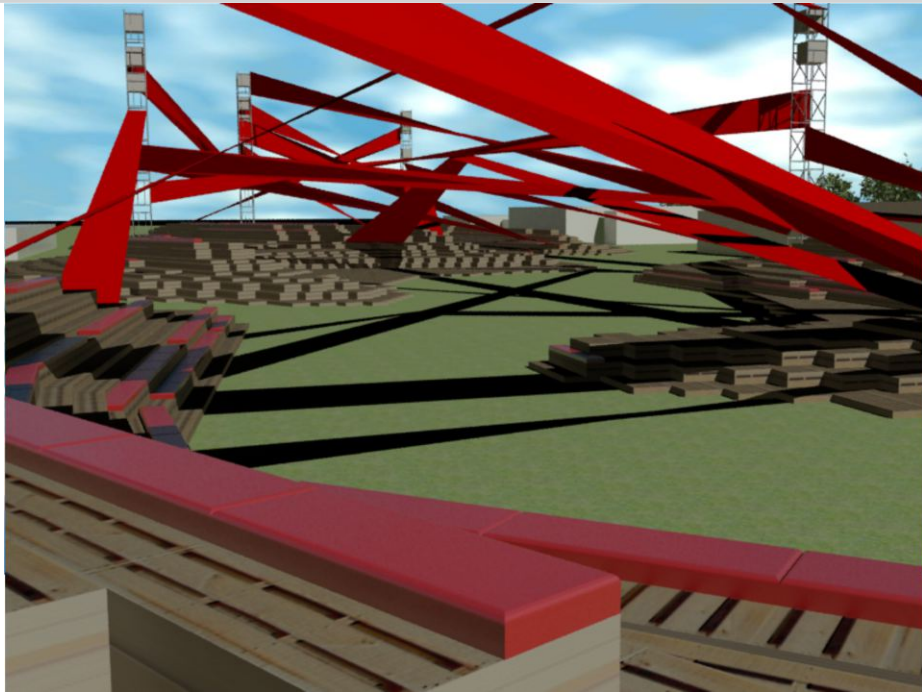
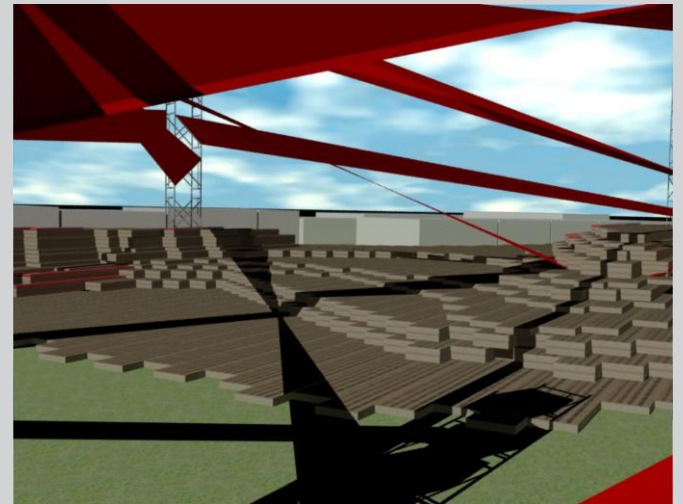
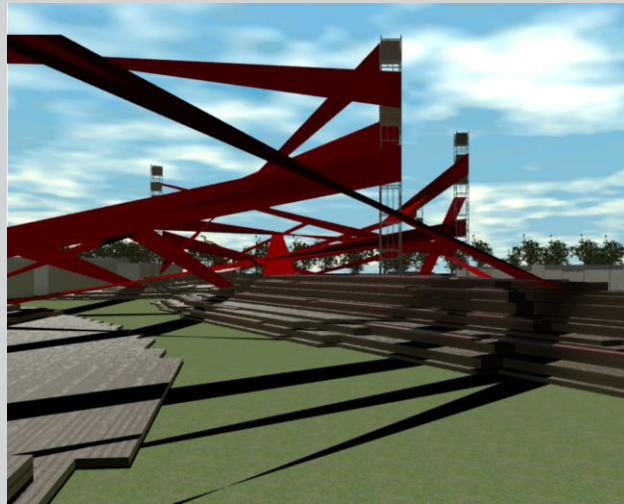
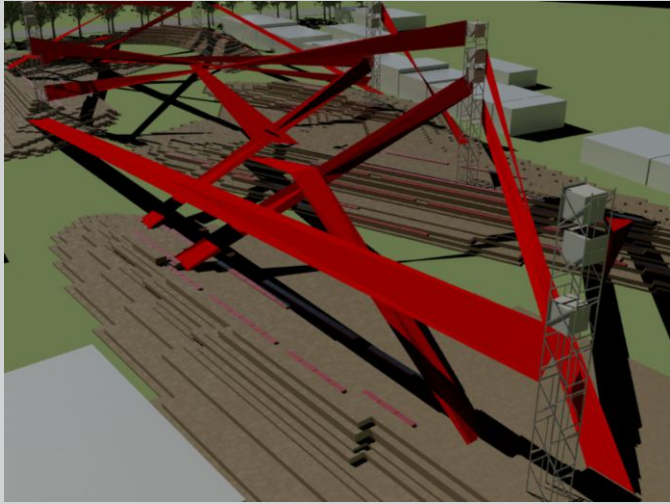
Tension towers



Sitting lines



Perspective views



THE NASAKIWE PROJECT

POST-GRADUATED COURSE, 2010



The Nasakiwe tribe, also known as etnia Paez, is a native pre-Columbian tribe which still lives on their heritage territory, but they have been victimized by the Colombian conflict, as they are pushed to leave their territory to escape the war. The area is also endangered with natural treats, like volcano eruption and floods.

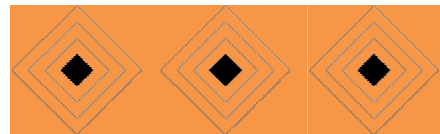
This project took place during the diploma on Bioclimatic Architecture. The class traveled to the community of Huellas, and we have the opportunity to meet the Nasakiwe people. Our task was to design a housing module for a large family, easy to build for their selves and prepared for the weather treats.

The traditional Nasakiwe house has a large module in the center of the house, and in a smaller area is a space used as bedroom. The core of the house is called "Tulpa" and it is the center of their social activity within a family. Is very usual to have a stove on it and the women and children sit around it ,to knit and storytelling. Since the newlyweds move in to the parents house, families are usually large.

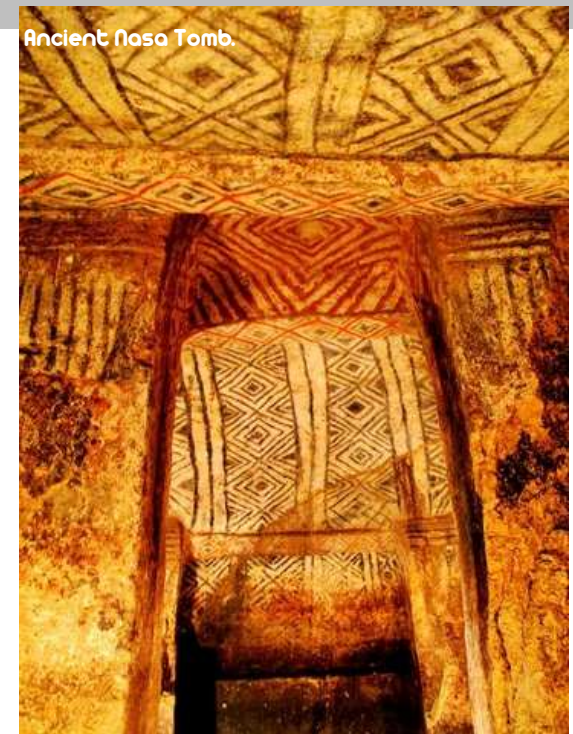
The chosen material is **Guadua**, a Colombian specie of bamboo. It is very cheap, easy to plant, fast growing and very common in this region. And for the design I preferred to stick to their traditions and incorporate a hint of their cosmologic vision and traditional icons. **Concentric diamonds** are a recurring theme, but in terms of housing, there is not a formal expression that identifies the NASAKIWE culture and differentiated from other pre-Hispanic cultures.



Traditional Nasa House.



Guadua



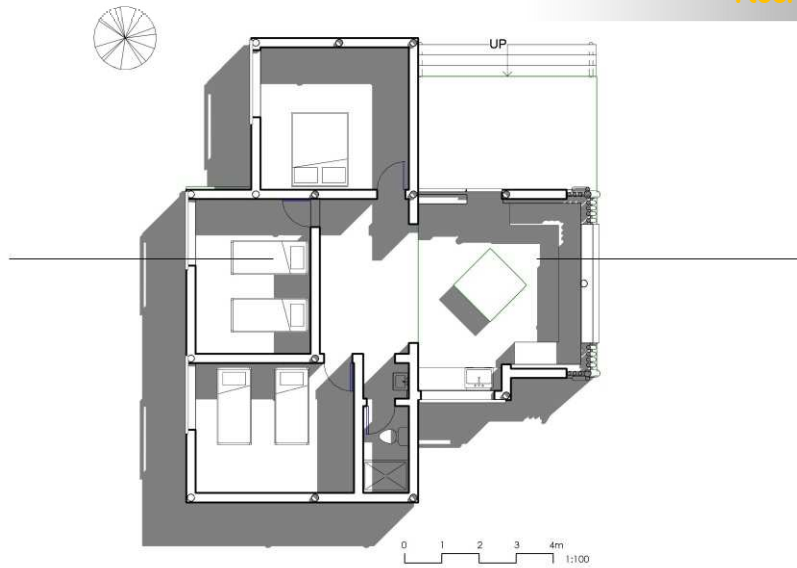
Ancient Nasa Tomb.



Nasa Handcraft



Floor Plan



As a symbol of their culture, the concentric diamond is applied for the design of the structure and latticework with guadua.

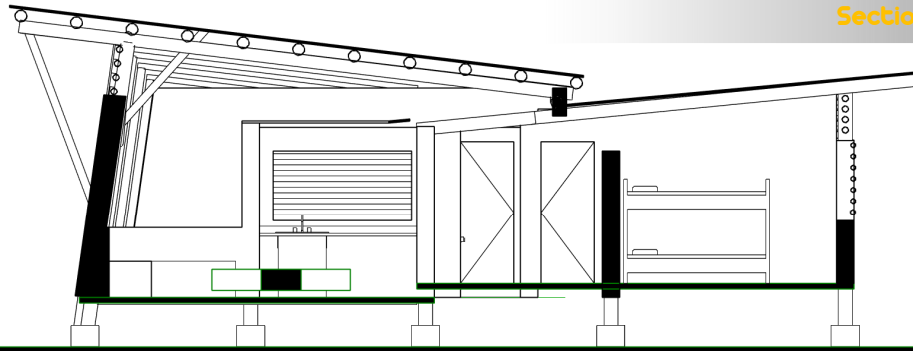
The open spaces below the roof makes a stream of passive ventilation into the house.

In the center of the main space is located a bulk of stone, to keep their traditional "tulpa".

Tulpa Façade



Section



0 1 2 3 4m
1:100



Façade Views

