

ARCHITECTURAL DESIGN

PORTFOLIO

KARINA DOMÍNGUEZ

+351 910301538

email@karinadominguez.xyz

<https://www.karinadominguez.xyz/>

CASINO . Ecosystem of Cultural Economies

Cultural Facility / March 2020

Address: Av. Urdaneta / Av. Sur 15 and Av. Norte 17, 1011. Caracas, Venezuela.

Design team members: Karina Domínguez, Marcos Coronel and Bárbara de Sousa

Construction Cost: USD 2.017.612,23

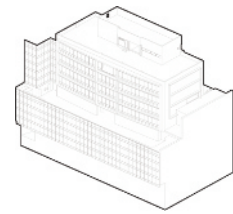
Area: 5.827,00 m²

A complex net of illicit practices operated within a building, behind the facade of a leisure centre, amidst Caracas' downtown. Emergent urban makers begin a dispute to override this fact, recovering the existing facilities of a Casino, to begin its transformation into a powerful cultural platform.

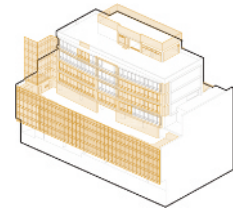
The project aims to build an organism of development of alternative economies from the sphere of cultural experimentation, through innovative activities and productive relationships within an infrastructure of high scale.

The intervention foresees to modify the enclosed nature of the building, to expose the structure to the city. Providing a public space-building to the street, able to irradiate a process of urban regeneration from this trigger point; as a public space, intense, relational and readily affordable and available to the street.

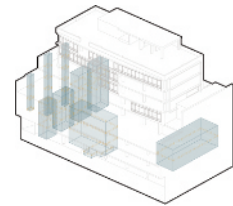
Its transformation combines the pre-existing building, the update and upgrade of services, refurbishment of physical components, the re-organization of spaces, and the addition of new and multiple facilities that allows different programs to live interconnected to the indoor of the building.



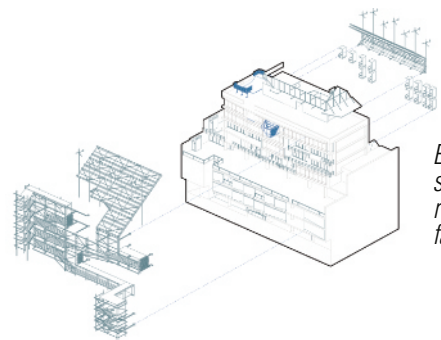
Existing building conditions



Curtain walls removal and wall demolitions



Slab demolitions & interconnecting voids

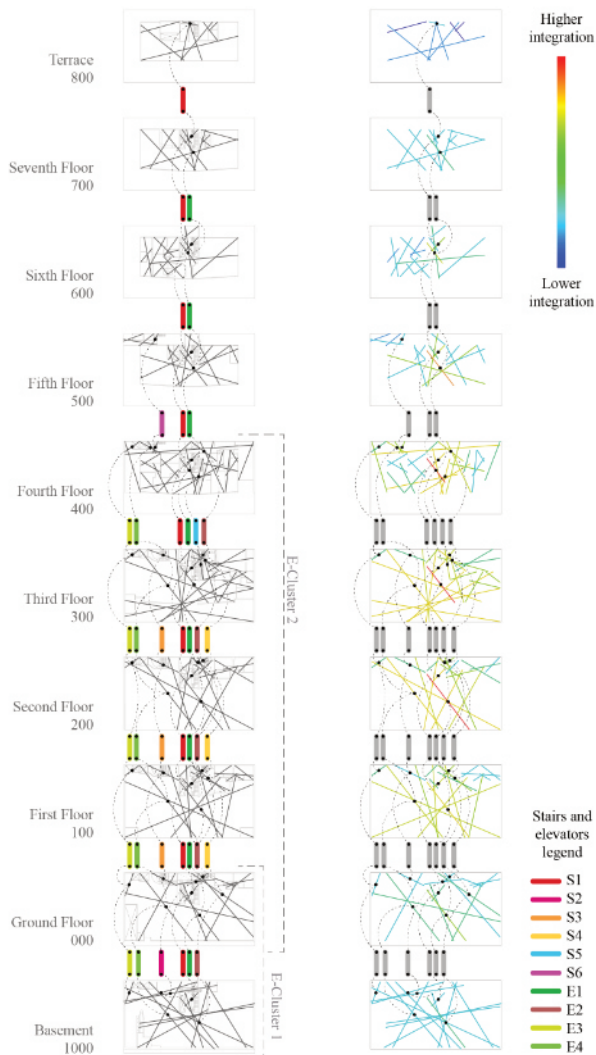


Exterior circulation scaffold, structure reinforcements and façade treatment

Diagram of transformation process. Own elaboration for contest.



Photo by Marcos Coronel
Render by Bárbara de Sousa



a) Axial maps of fewest lines of system with stairs and elevators

b) Integration of system with links on stairs and elevators

Diagram of axial map. (Own elaboration for dedicated article "Evacuation routes in a multi-story building. Using space syntax tools to improve users' safety" in the 13th International Space Syntax Symposium

Building and landscape work together to create an integrated combination of active and passive systems, incorporating low consumption technologies and the management of natural resources, susceptible spaces to natural lighting and ventilation, vast vegetation and environments within a tropical atmosphere.

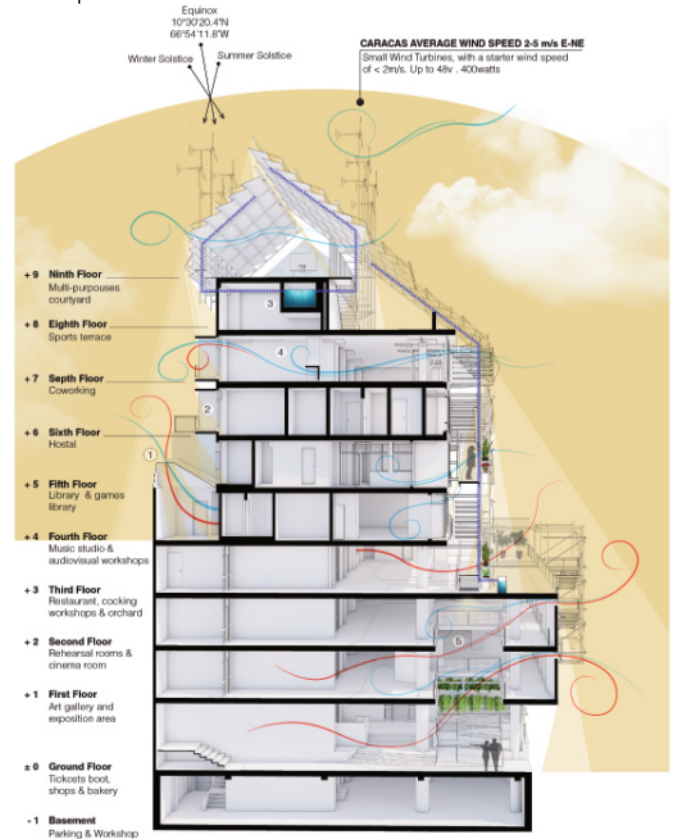
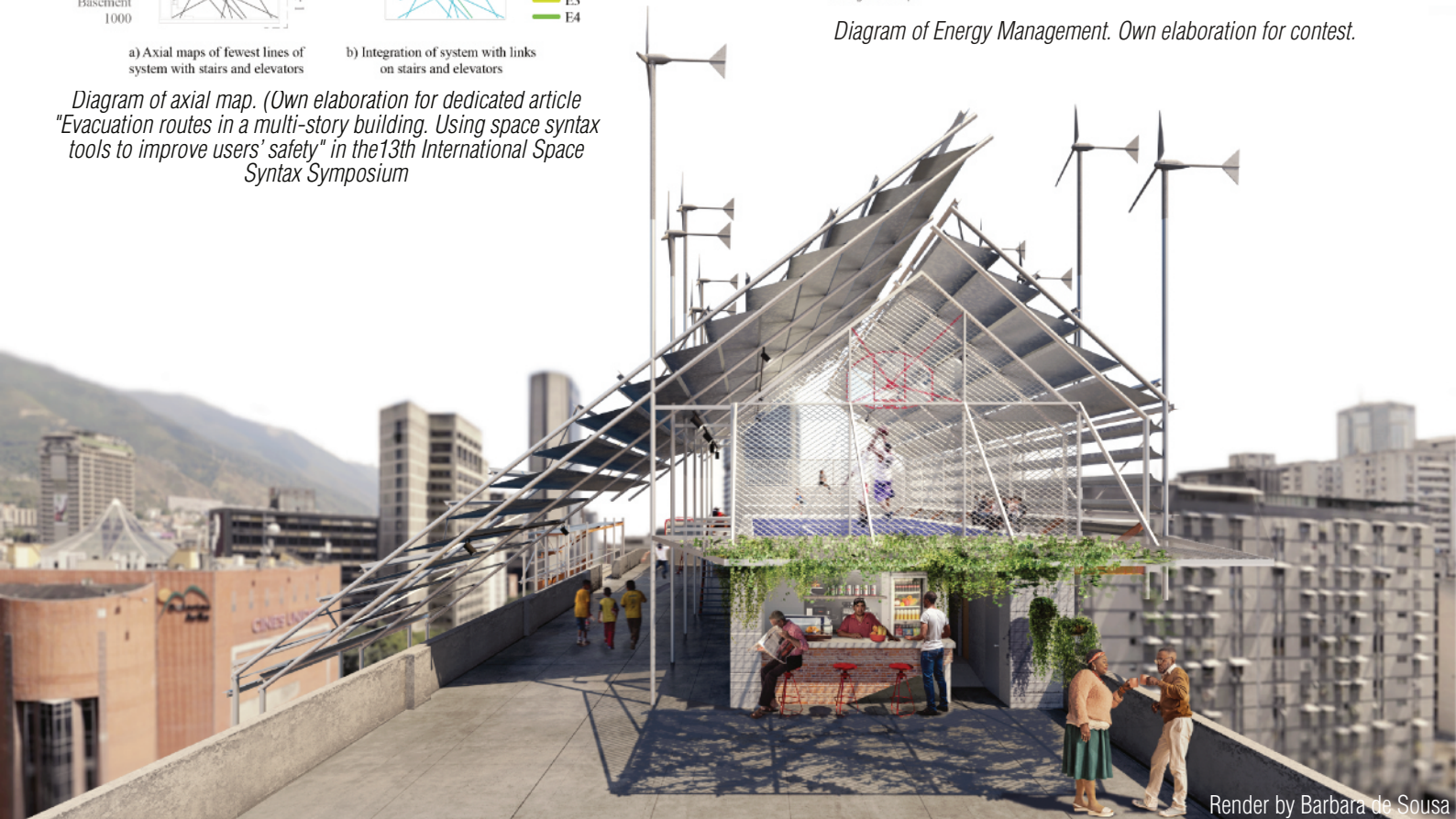


Diagram of Energy Management. Own elaboration for contest.



Render by Barbara de Sousa

Photos by Marcos Coronel



SHIP OF ANIMAS WALL

Public Infrastructure / MAY-JUNE 2015

Address: Artes and Animas street, Casa Blanca, Havana, Cuba.

Design team members: Marcos Coronel, Karina Domínguez, Adolfo Otero, Bárbara Saman and Juan Carlos Castillo from PICO Colectivo and Mariangel Meza as independent collaborator.

Project Value: USD 49.945,32

Area: 715 m²

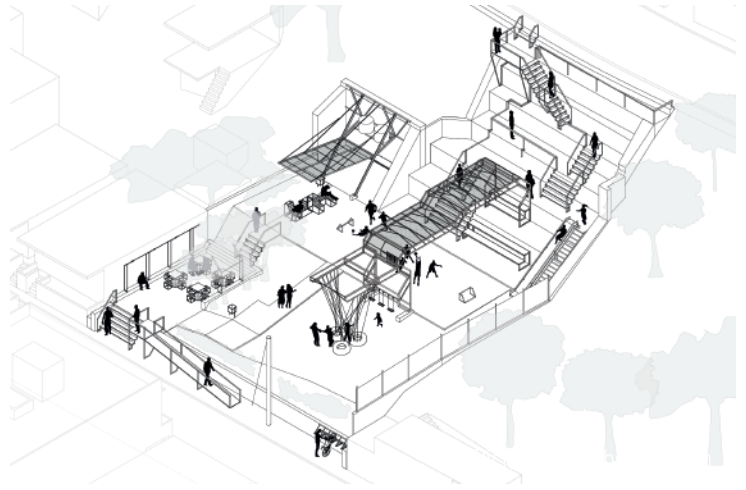


Illustration of spaces occupation. Own elaboration for publishing means.

In the framework of the XII Biennial of Havana the project was developed in a month, from scratch to final construction.

This project is part of a series of interventions of physical rehabilitation focused on developing community facilities in emerging contexts, neighborhoods and popular settlements. The design is defined along with community members and the design project team.

I was in charge of coordinate the design process along with the Casablanca's community and the preparation of constructions drawings, as well as the design certain components of urban furniture (entry stair and ramp, bike parkings and playground), and the later graphic documentation for divulgation and publishing means.



Design exposure being assessed by community inhabitants.



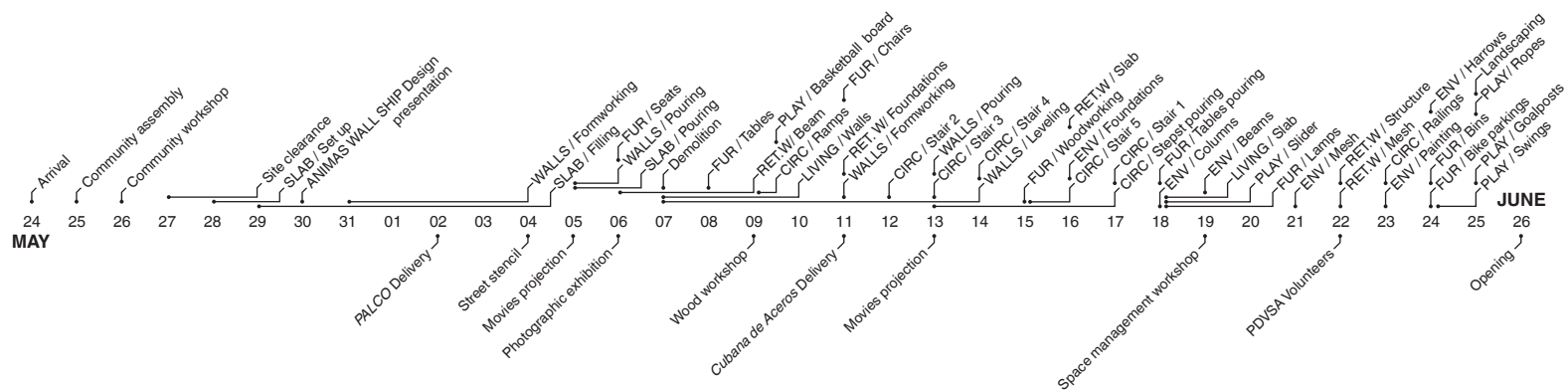
Picture by Holrich Jacques Paul



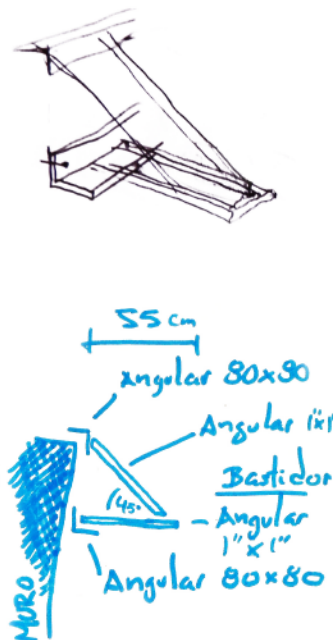
Design of entry stairs and ramp.
Original own sketches.



Picture by Holrich Jacques Paul



Chronological diagram of events within the given timeframe.
Own elaboration for publishing means.



Design of Bike parkings elements in the projects entry.
Original own sketches.

Picture by Holrich Jacques Paul

004 HOUSIGN COMPLEX

Middle Density Housing / FEBRUARY 2016 - MAY 2017

Address: Carreras 15 y 16, 24 and 25. Streets. Barquisimeto City, Lara State, Venezuela.

Design team members: Karina Domínguez, María Isabel Ramírez, Eduardo Urrieta, Jesús Jiménez and Luisenni Rodríguez.

Project Value: USD 17.842.699,00

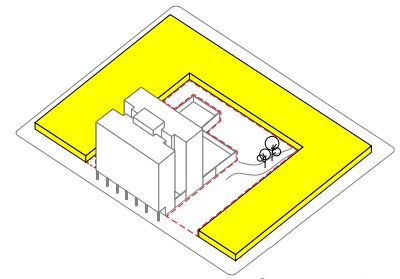
Area: 6.927,42 m²

Within the framework of the Master City Plan Barquisimeto Para Vivir, the 004 Housing Complex is developed as part of the national social housing programme of the Mision Vivienda Venezuela to introduce 148 apartments and a parking building in the city's centre.

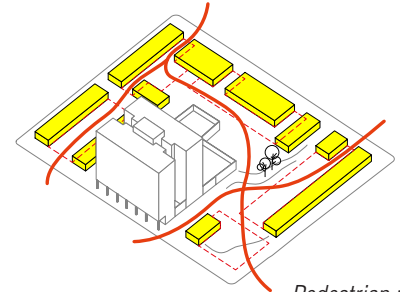
The project was developed under the modality of the community housing organisation leading the progress and tenants management, in partnership with public sector investments and private sector design and execution.

Each tower is comprised of three apartments typologies (1, 2 and 3 bedrooms units). One of four blocks is dedicate to disable tenants with ramps a other facilities. The project execution is scheduled for start in 2020.

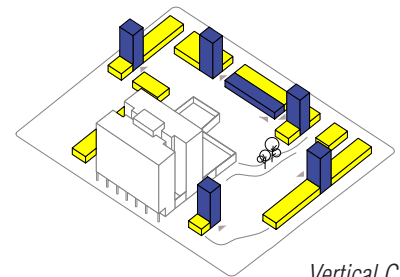
In this project, as representative of the private sector, I was in charge of the management of community organisation's expectations, the public sector contract procurement process and of the design project management.



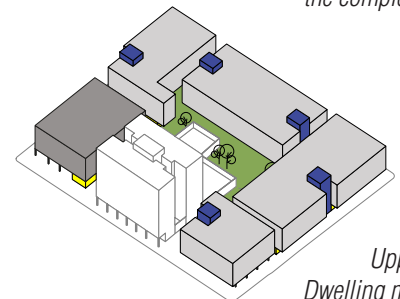
*Commercial ground floor
Free centre space for complex's outdoors*



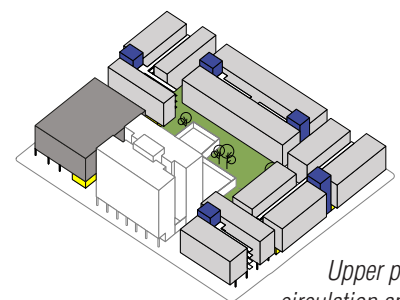
*Base
Pedestrian paths and
relationship with city's dynamics.*



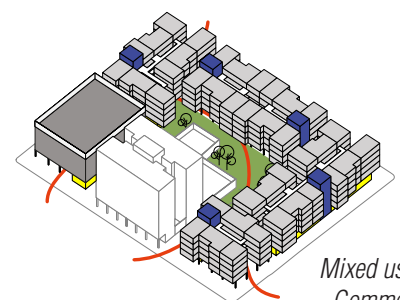
*Vertical Circulation
Dwelling towers' access from
the complex centre.*



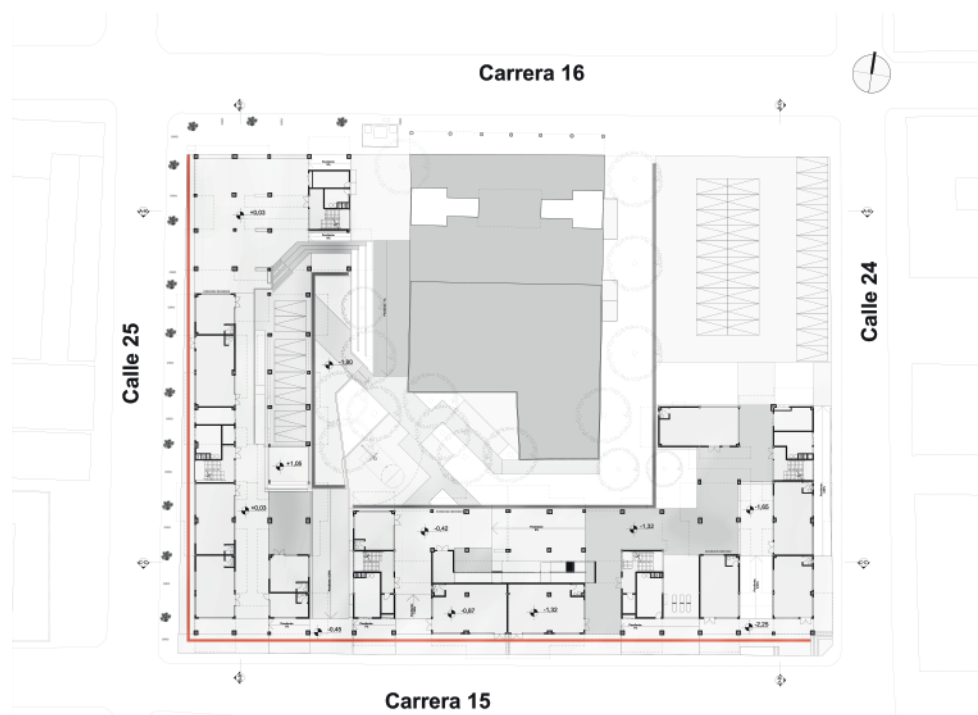
*Upper floors
Dwelling mass split
Structural behaviour*

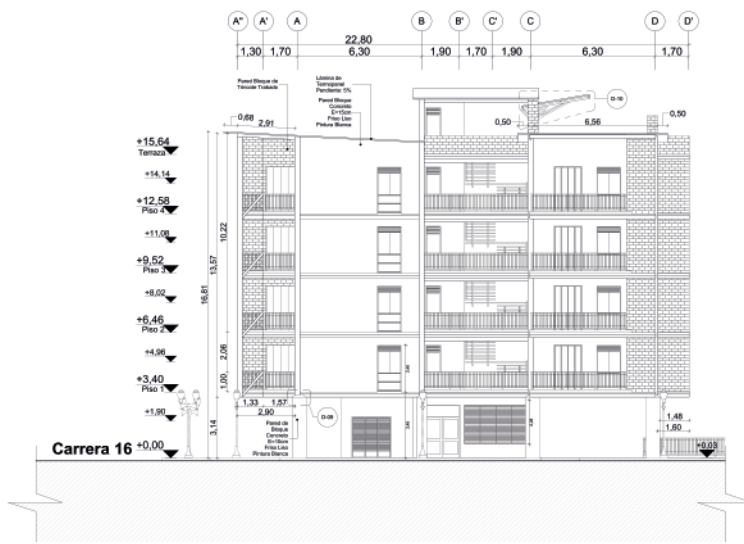


*Upper pedestrian
circulation among two
row of apartments*



*Mixed use project
Commercial and
Dwelling complex*





Tower A, type upper floor plans and West elevation.

Introduction of BIM methodologies to the offices practices through ArchiCAD software was of utmost importance to achieve the submission schedule of 004 and 002 Housing complexes.



Complex Cross Section

DF HOUSE

Low Density Housing / JULY 2017 - SEPTEMBER 2017

Address: Cabudare City, Lara State, Venezuela.

Design team members: Karina Domínguez and Barbara Saman

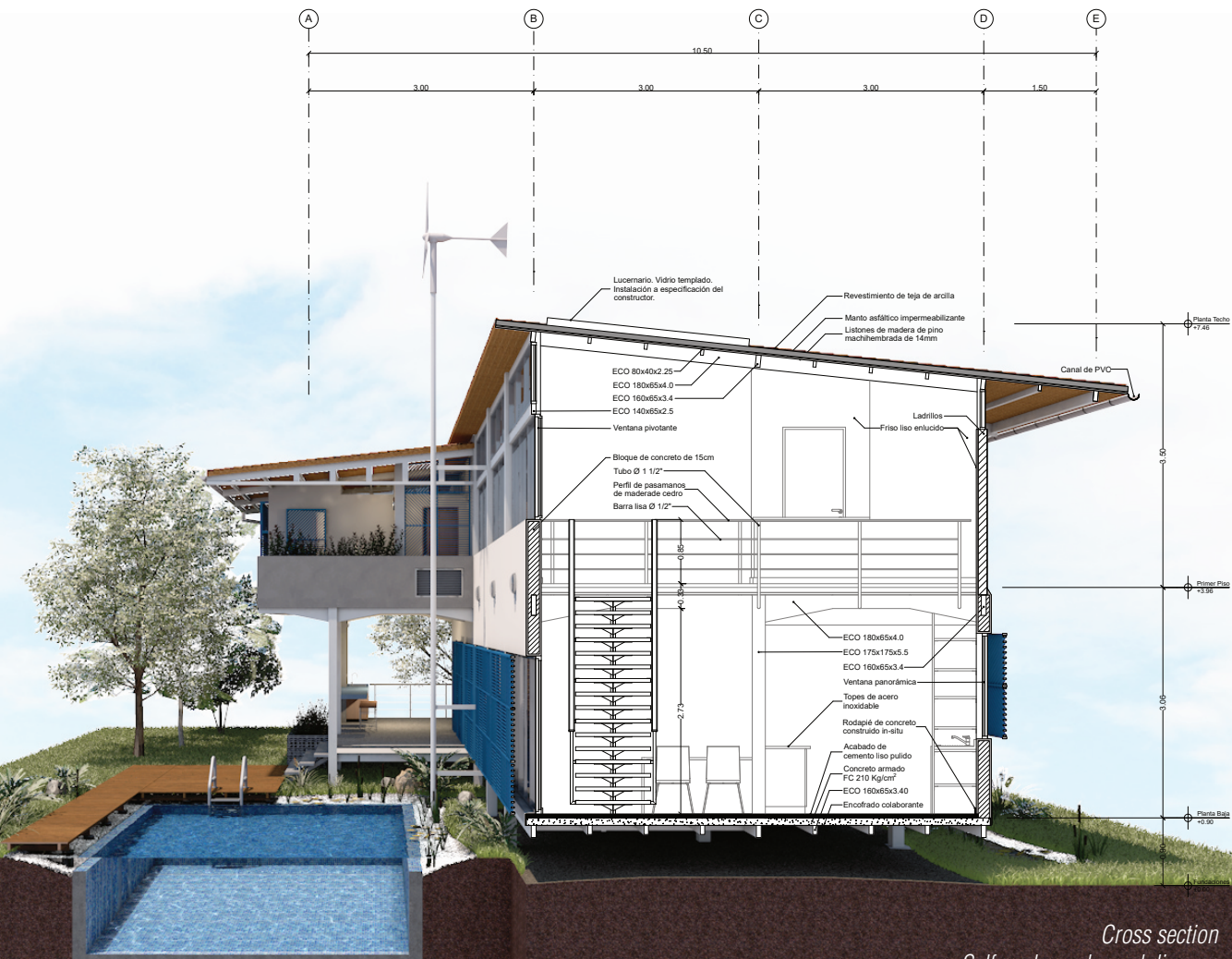
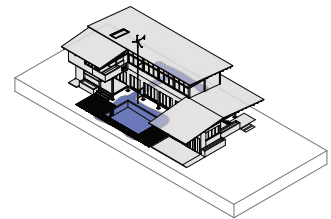
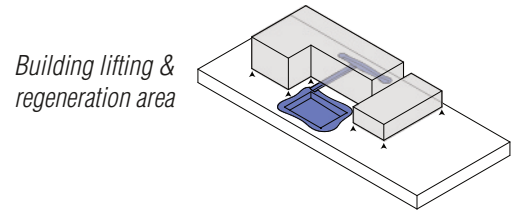
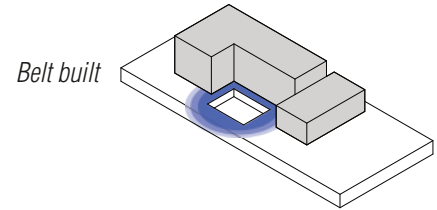
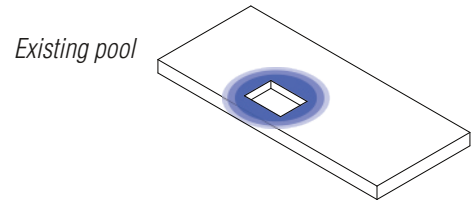
Site area: 758,77 m²

Costruction area: 310,57 m²

The single-family house of Daniel's family is on the outskirts of Cabudare, within the metropolitan area of Barquisimeto.

The project aimed not only to give a home but also to turn the existing pool of the lot into a natural swimming pool; thus, living spaces of the ground floor are wrapping the existing pool pit already in use.

The steel-framed structure is raised from the ground to reduce concrete work and allow the water to flow from the regeneration zone to the swimming zone. This extra regenerating zone also acts as a pond for refreshing the air of the tropical area. The house is equipped with different mechanisms powered by wind and electricity to oxygenate the water and maintain a thriving ecosystem.



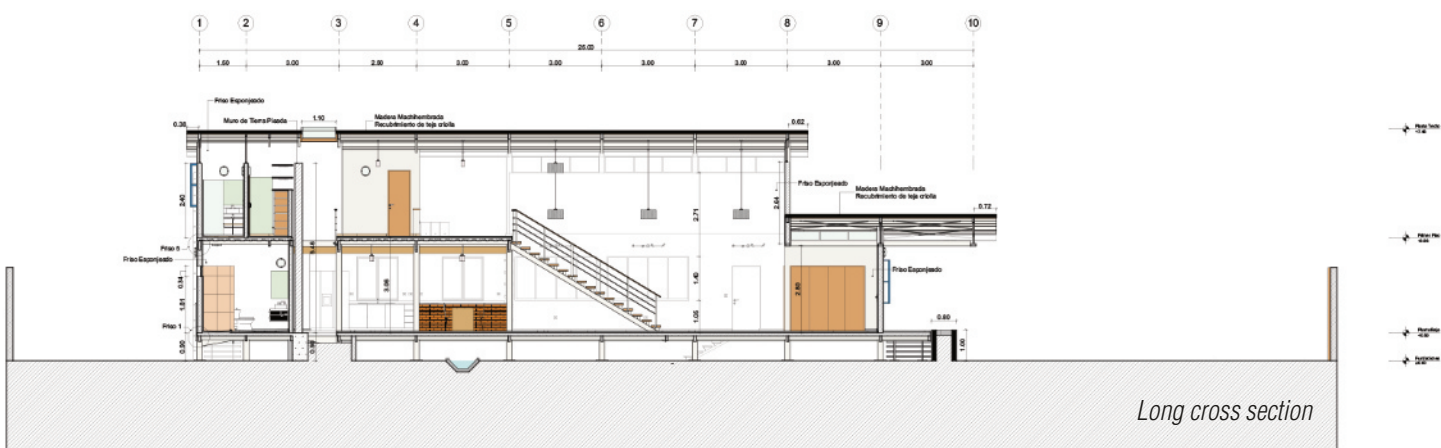
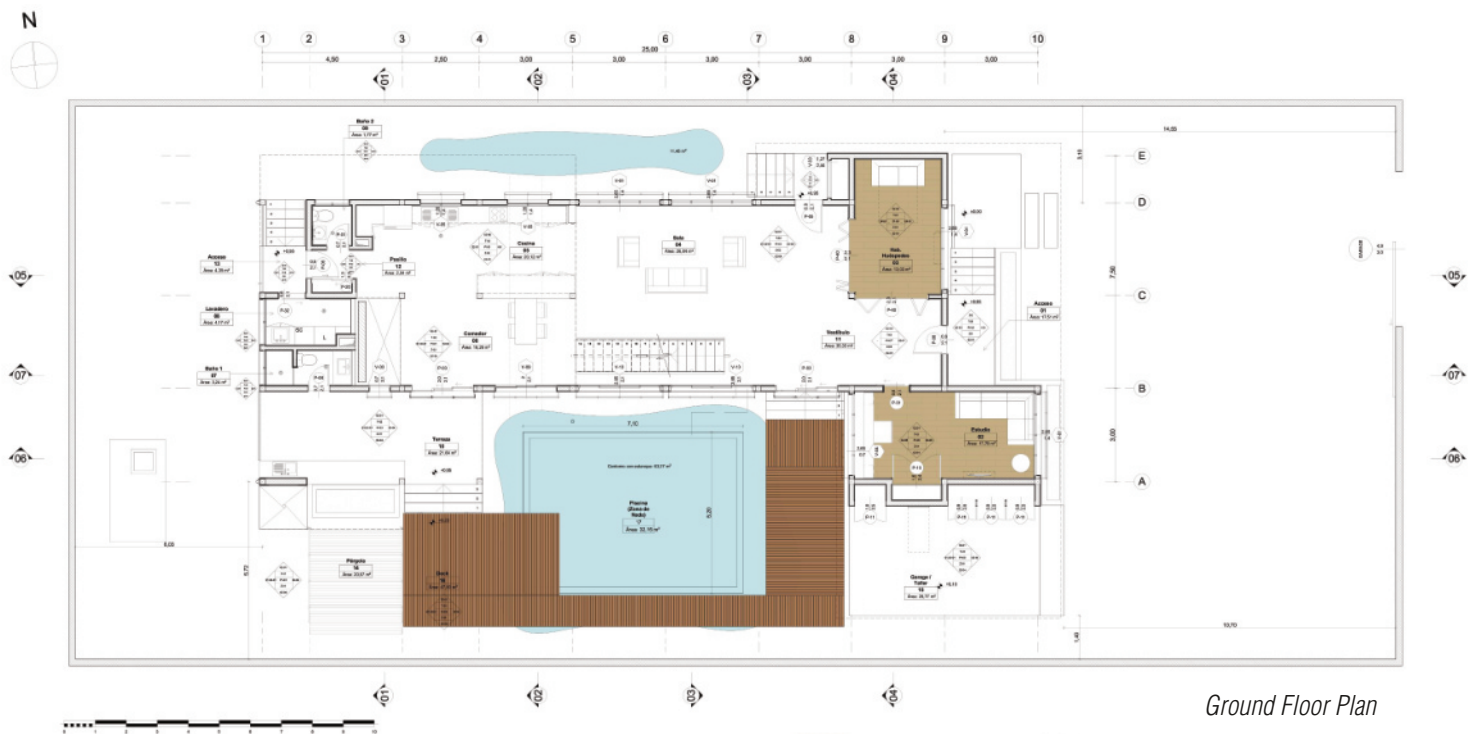
*Cross section
Self made render and diagram*



Entry view

On the ground floor, the first two spaces of the house are a studio for Daniel's clients and a polyvalent guest room, followed by an open concept living area with a lounge, kitchen and dining space.

On the upper level are the bedrooms and a more private living area.



ROOTS PARK

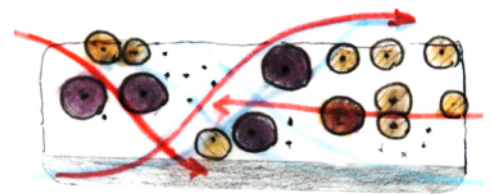
Public Infrastructure / JANUARY-MAY 2015

Address: Bolívar avenue and Este 6 street, Sur 9 Sur 11, District Capital, Caracas, Venezuela.

Design team members: Alejandro Haiek chief architect of LAB.PRO.FAB (Architecture Studio) in collaboration with Karina Domínguez and Maria Isabel Ramírez, both from PICO Colectivo.

Project Value: USD 750.000,00

Area: 6.579 m²



• Small Trees • Medium Trees • Big Trees

*Acknowledgment of main trails and trees.
Original own sketches.*

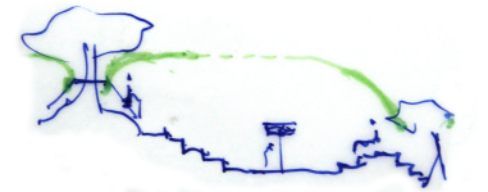


*Geometry definition combined with paths and rest
zones around main trees and roots. Original
Alejandro's sketch.*

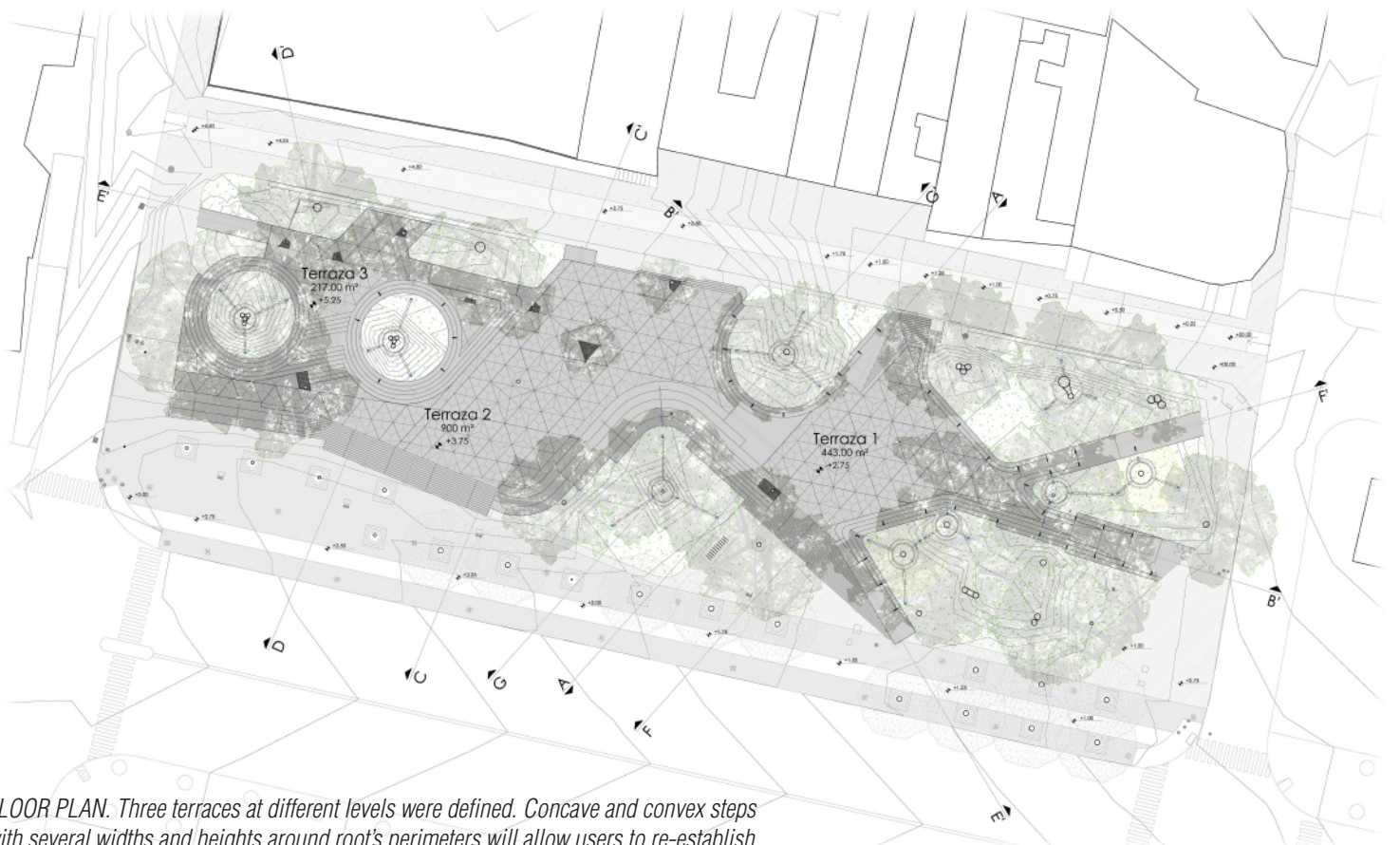
With the acknowledgment of its main trails and shadow generation trees, the design process starts with the exploration of the consolidation of spaces according to the existing urban and local dynamics and the future cultural demands.

The design concept is approached from the organic shape the existing natural elements, according to the size, location and relation of main and secondary roots; circles and curves define terraces, paths, steps, ramps and stairs.

Within this project team I had the responsibility, after the storm ideas and the preliminary design process, to coordinate the surveyor team, prepare conceptual models and final architectural, pavements and structural plans.



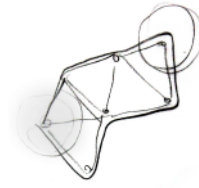
*Conceptual roots relationship with public space
elements. Original own sketches.*



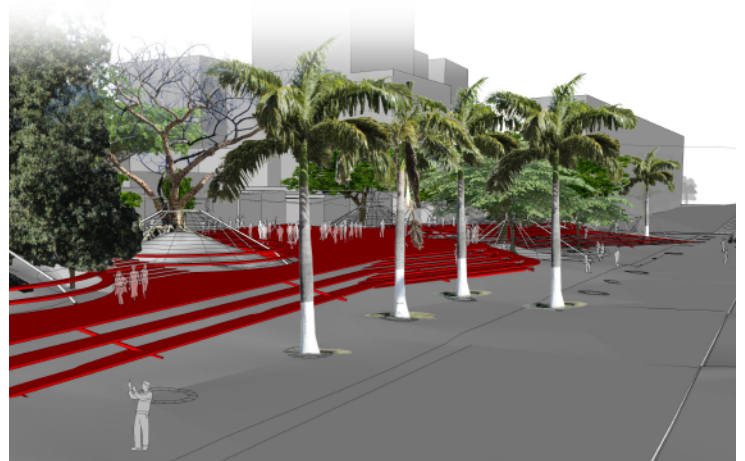
FLOOR PLAN. Three terraces at different levels were defined. Concave and convex steps with several widths and heights around root's perimeters will allow users to re-establish their relationship with their natural and built environment. ***



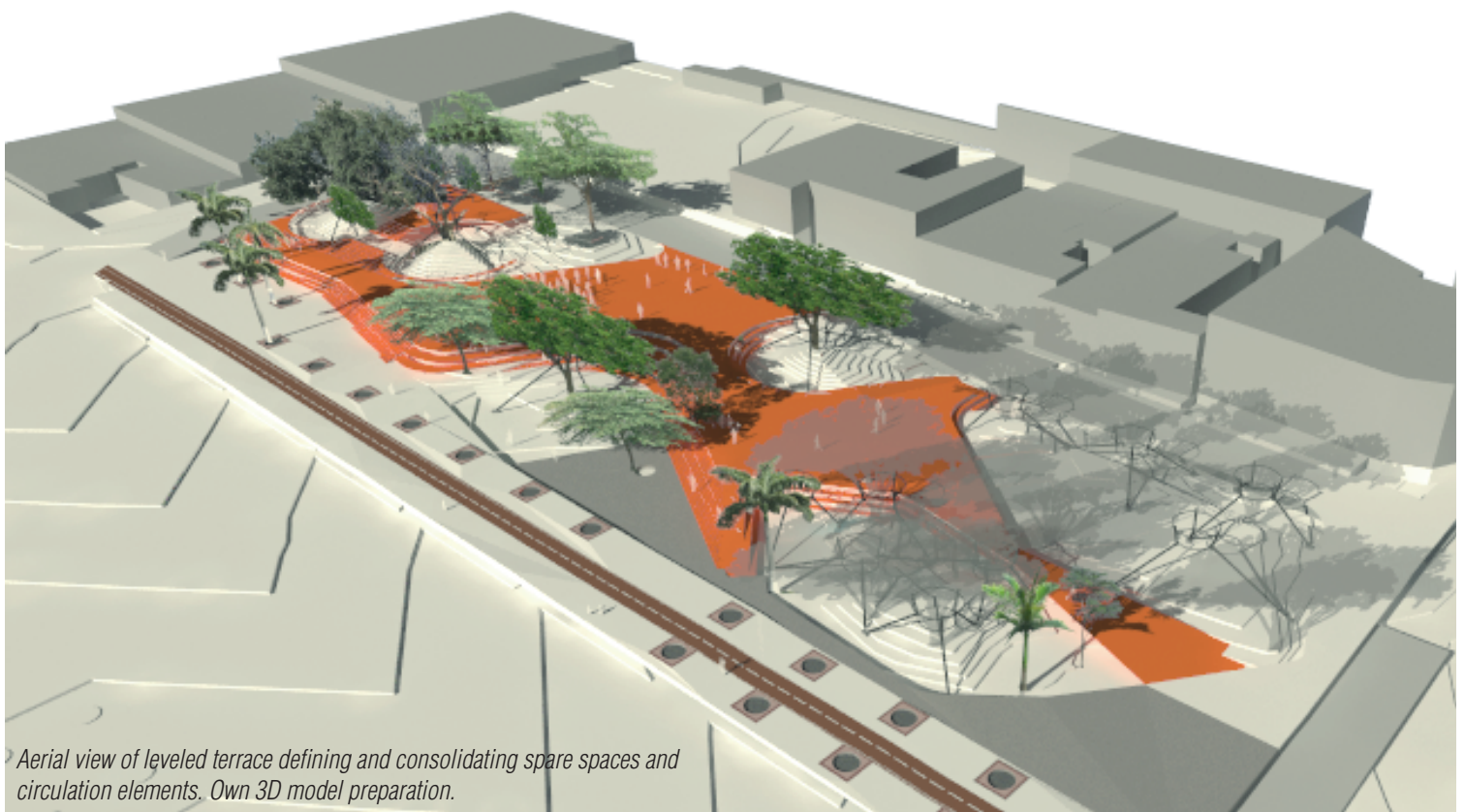
Existing roots relationship with pedestrian transit, potential design elements were recognized and included on the floorplan shape. Large sun and casted shadow areas are values of terraces definition and placement of public furniture around roots perimeters.



Exploration of roots combination for green areas definition and geometrical pattern distribution. Different diameters were defined for different trees sizes to create a logical sequence for constructive purposes and structural design.



Pedestrian view of one of the main entries where the sliced terraces become public furniture and stairs, simulating contour lines which blend the new project with the existing pavement.



Aerial view of leveled terrace defining and consolidating spare spaces and circulation elements. Own 3D model preparation.