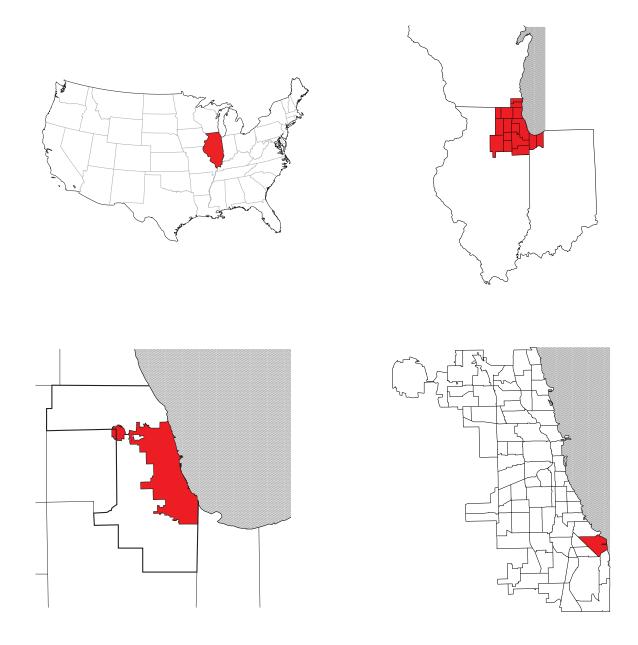


CONTENT

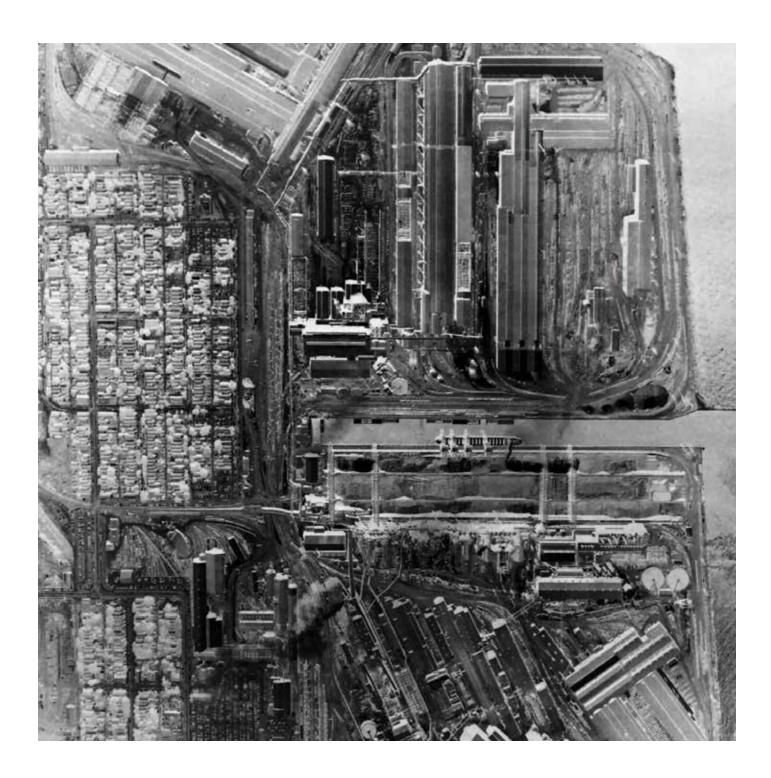
- 1 | Introduction, theoretical framework
- 2 | Manifesto
- 3 | Masterplan
- 4 | Fragment
- 5 | Theoretical research and position
- 6 | Building concept and methodology
- 7 | Program and facts
- 8 | Structure and climate concept
- 9 | Climate design
- 10 | Structure and materials

UNITED STATES | CHICAGO | SOUTH WORKS





INTRODUCTION PROBLEM STATEMENT















































ISSUES COMPLEX PROJECTS :: CHICAGO SOUTH WORKS

Gerald Grodelies Georgio Larcher Dassy Koppendisse Julius Tarkins

The problems presented are a condensed sun

Some problems have causes that reach way

Withour Project we will by to develop stratege with these latures, without the presumption them. Rather they are important subjects the considered in order to challenge the status.









preservation

The action of preserving from durings, decay, or destruction, the fact of being preserved.

The state or conda lessping, report



reaction

A chemical process in which two or more substances act on each other and are changed into different substances, or one substances of the process of the post of the changes in the control of the changes privately as a military to an infigure. Also diffusion as maillogous transformation of alcohol or sustance particles.

Preputation or resistance cremted by a body in apposition to the impact or pressure of another body or other matter, a force equal and opposite to a torce garing rise to 8.



emancipation

Roman Law. The action or process of setting children free from the patria potentias.

band and lig. Setting free, delivering from instruction, monte, or spiritual televis.



The area should be a new center of the city





The site should be in opposition to the loop





The site should generate more urban density



SE

The











emancipation

Roman Law. The action or process of setting children feet from the paths potential.

band and lig. Setting free, delivering from intersectual, moral, or spiritual federa.



Line thesis: seg | reg | ation

The separation or isolation of a portion of a community or a body of persons from the rest.

Dispersion, treat up (of a collective unity).

The separation of a portion or portions of a collective or complies unity from the rest, the solution of particular constituents of a compound or **miniture**.

The enforced separation of different racial groups in a country, community, or institution.

evolution

Line breaks: a Lyo | Late

The process by which different lands of living organism are believed to have developed from earlier forms during the history of the earth.

The gradual development of something

Framew

COMPLEX PROJECTS CHICAGO SOUTH WO

Serati Grantelaar Xorgio Laroher Salay Roppendissier Johan Tohler

This Framework speaks about or and fascinations.

The Framwork is the result of our an and our teelings.

t is not monodirectional, rather it is it doesn't have one direction. I have

The Framework is compose of this Focuses. Manifestations and Vision The Focuses are the concepts that decussions and that guide our de The Manifestations are physical with the sits and at the same time.

The **Visions** are statements by I

This triple division expresses our vivile in which we would like to applic transform, Interests and Interest and are investigated with different research, dissuring, discussion and the anticulation of statements that

Focuses, Manifestations and Visio in the representation of the manifes and interdependent.



The site should generate more urban density

There is a great day of vectoring along with a look of observing a the axes. The project will are to density not only the also, but may importantly the range.

righer density of direction new agine first and burgars in the neighborhood and flux allow the sensity fluxure.





The site should be divided in different parts

We are against the suling homogeness of South-Oncago and emission the South Works as an assa very diverse that will host otherant but will host but will host but will host but will host otherant but will host but will hos



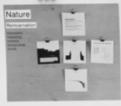


Empower people through education and jobs creation

to the section of a section of



























Bike path















Narratives COMPLEX PROJECTS CHICAGO SOUTH WORKS

DENSITY

Intimacy and Openness

I remember these lines of single houses along the streets of doors and windows that possessed no big differences or rarities. Often the windows were blocked by wooden panels and signs of foreclosure. There was not much activity on the streets, the only thing I can remember is children yelling and laughing while playing sports during school time. Police sirens were a common sound. Also, my favorite hotdog place – "Lake shore food" - got closed, as there was no place left to have a snack or drink.

But times are changing; the days of poverty are followed by more hopeful times. There are reoccurring signs of development and the South Side can start to be active again. From one to another, the streets seems to continue infinitely – multiplying its repertory of images - yet one side stops by the Lake Shore Drive, as a barrier with behind a big piece of land bewildered by flora with an unique view on the Lake.

These days the streets are continuing towards the lake shore and the only barriers are fences. Buildings arise from the ground and create intimate space by four to five story high buildings -interspersed with buildings of almost similar heights - and narrower streets within smaller and irregular blocks. Continuing down these new streets I get the feeling of entering a new area. Especially when crossing the Lake Shore Drive. The built groups of buildings create spatial openness's in between with views of a landscape with views that even sometimes reaches the skyline of the Loop. The site is continuously evolving. One of the first built manufactories is already inhabited by a coffee shop and a grocery store on the first floor and affordable apartments on the upper floors. As I continue the street I encounter an alley that seems to lead to the canal near the Iron walls. These walls are possibly a memorial of the South Works history. When reaching the water I feel satisfied with the fact that the shores with its views are not distorted by buildings.

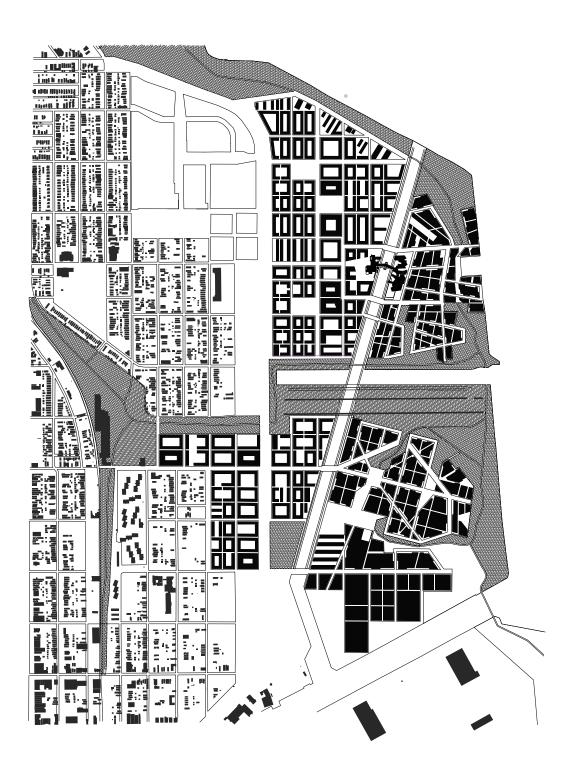






MASTERPLAN

Interdependent places



AMBITIONS

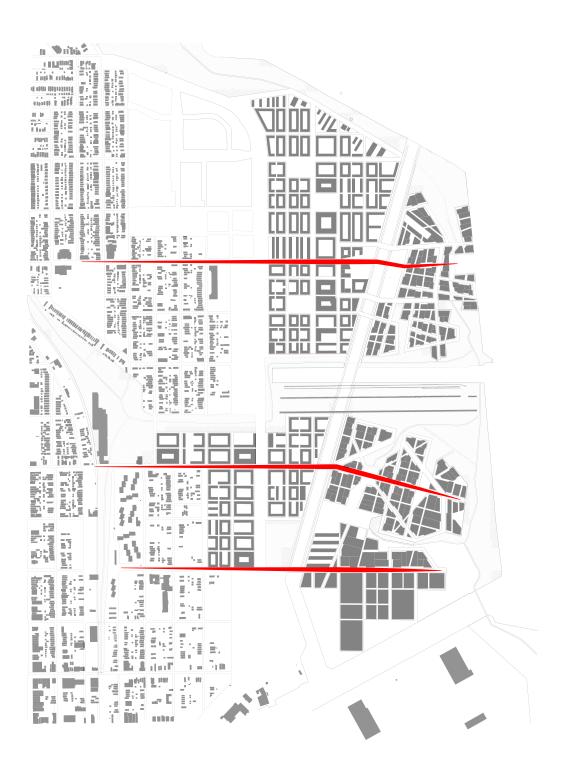
Fight depression in South Side Chicago through creating a center with increased opportunities

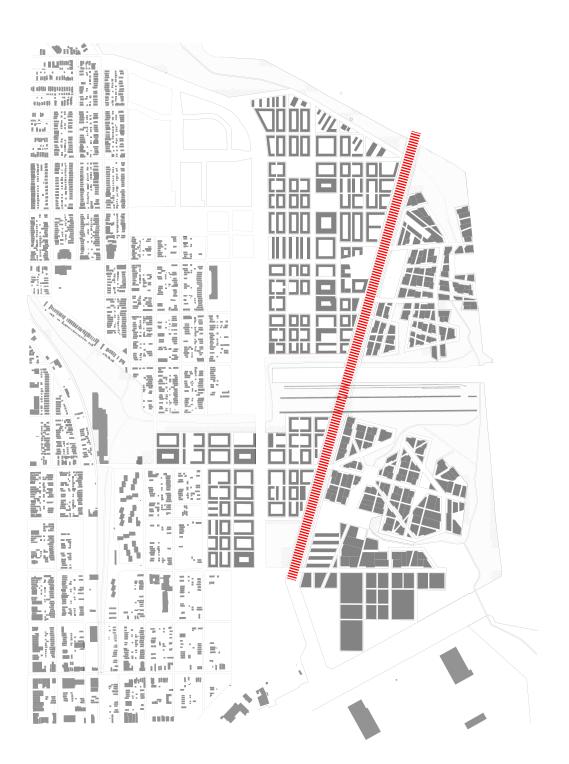
Ensuring a prosperous urban area with a strong identity by emphasizing the existing qualities of the site

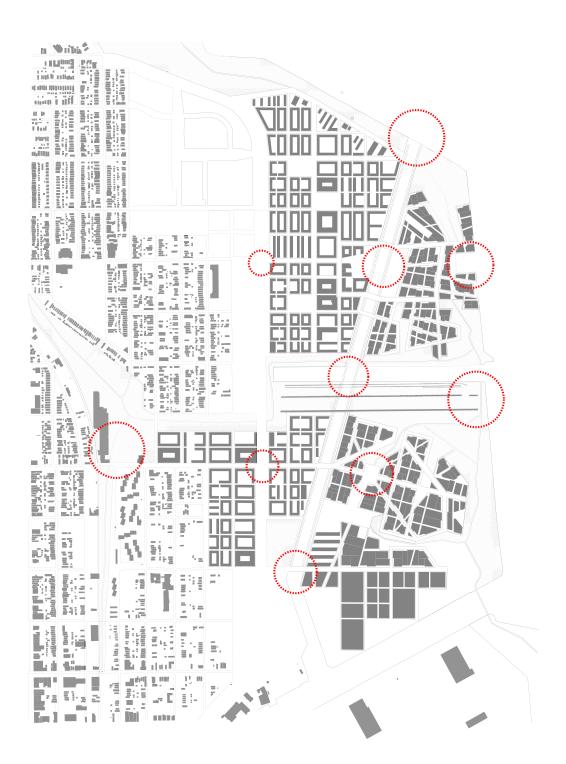
Attacking the monotomous structure in South Chicago through multi-functionality, diversity and prosperity

Avoid negligence of the existing adjacent neighborhood by creating accessibility to the water

Allow growth and expansion into the neighborhood







QUALITIES OF THE SITE

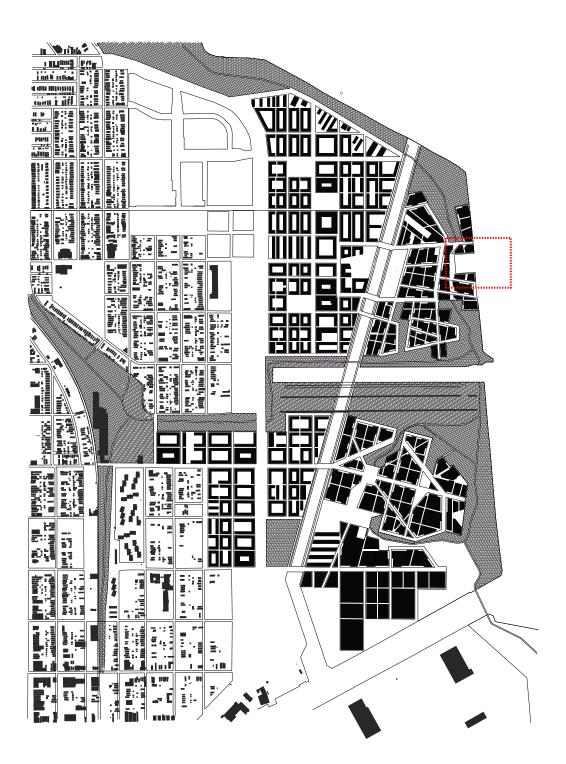
Fascinations and physical manifestations of the existing qualities of the site.

water | skyline | scenery | ore walls | borders

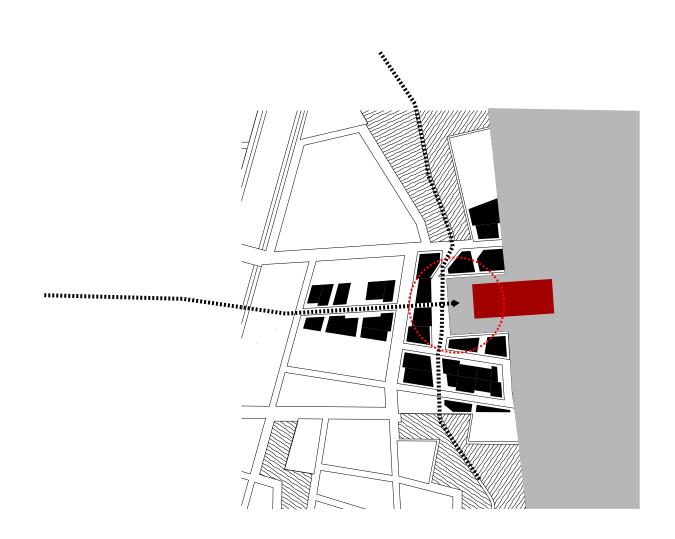


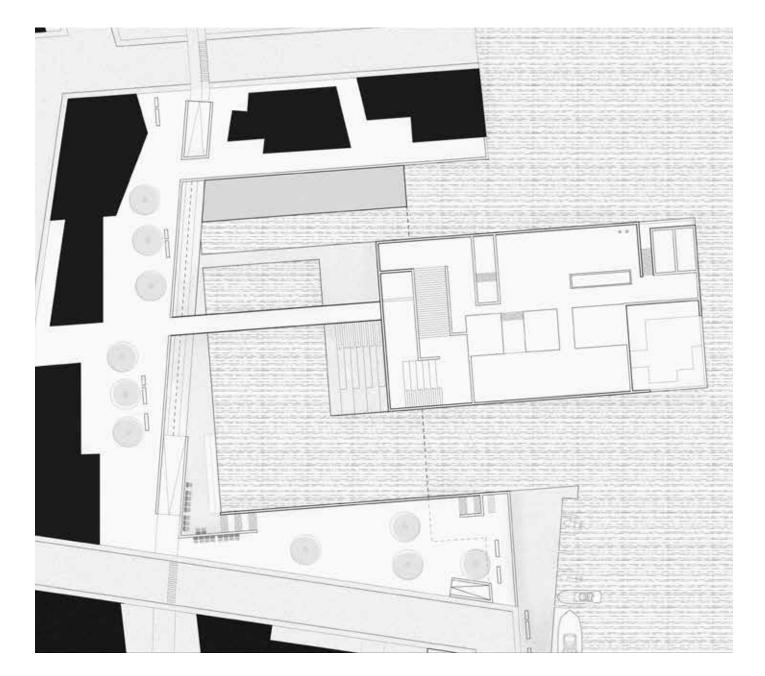


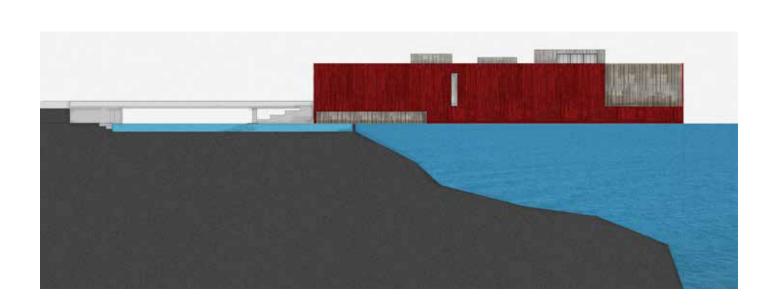




FRAGMENT "Buildings should be thought of from the beginning as fragments, containing within themselves a capacity to act with other buildings and be themselves links." Peter and Alison Smithson (2005)







AMBITIONS

The building and area should be an activatior for the neighborhood. A certain degree of publicness is essential.

It should enhance the quality of the site (especially the water)

Leisure activities as swimming, iceskating and bathing suit the specific location and the ambitions.

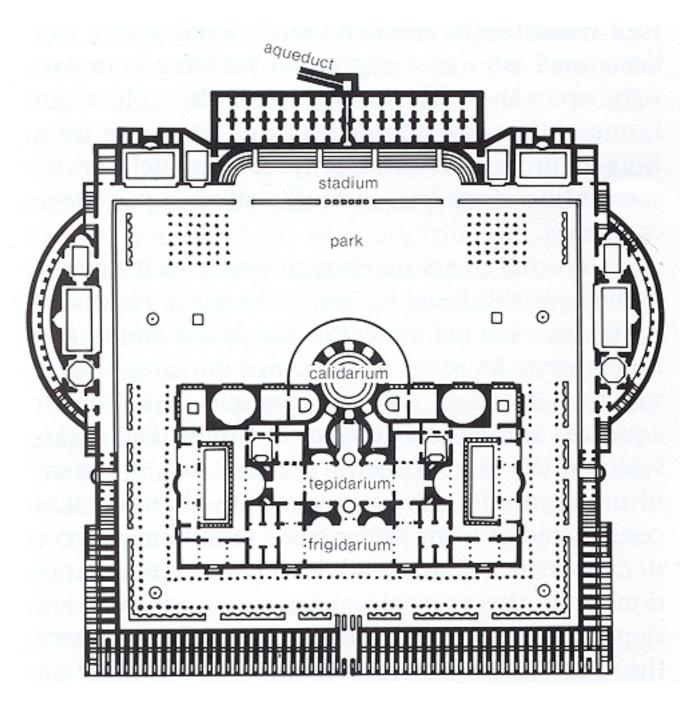
RESEARCH AND CASE STUDIES

Contemporary places of activity with water Ancient Roman Empire and public baths Case studies of contemporary architecture

> Therme Vals Les Bains des Docks Termas de Tiberio

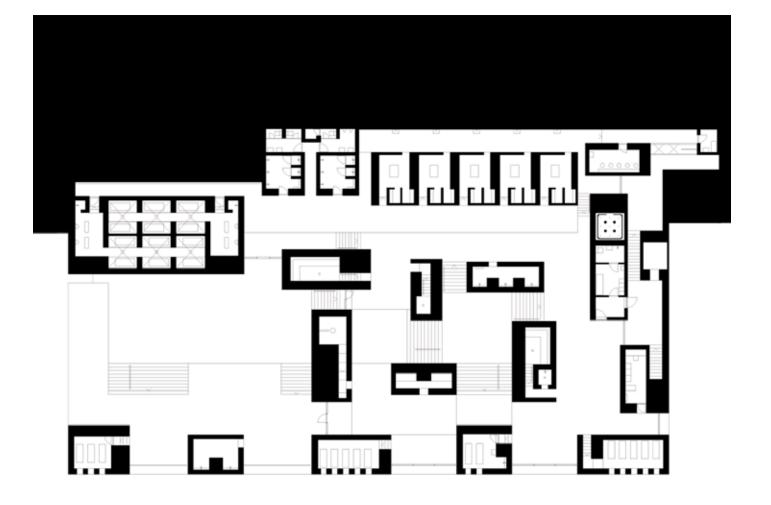






Baths of Caracalla | Bathing complex with park, stadium, library and other functions

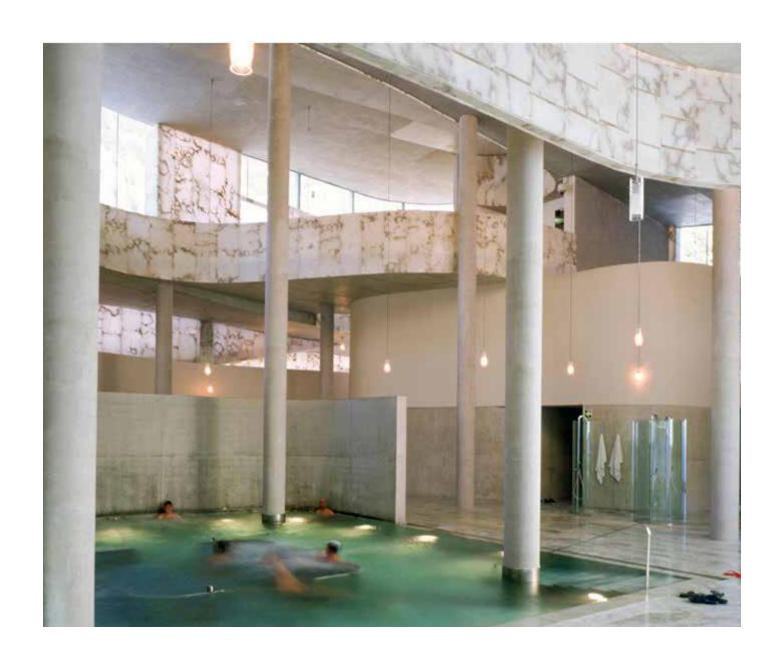




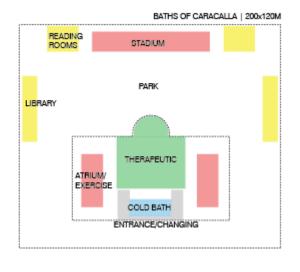




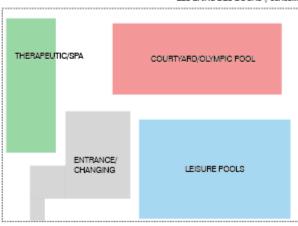
Termas de Tiberio | Moneo Brock Studio



WORKSHOPS ATRIUM/EXERCISE COLD BATH ENTRANCE/ CHANGING KOOKING WOMANS AREA



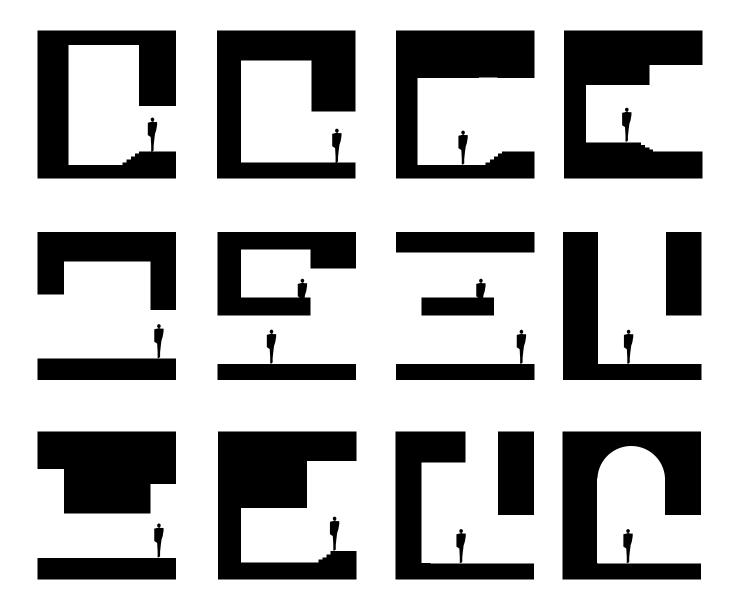


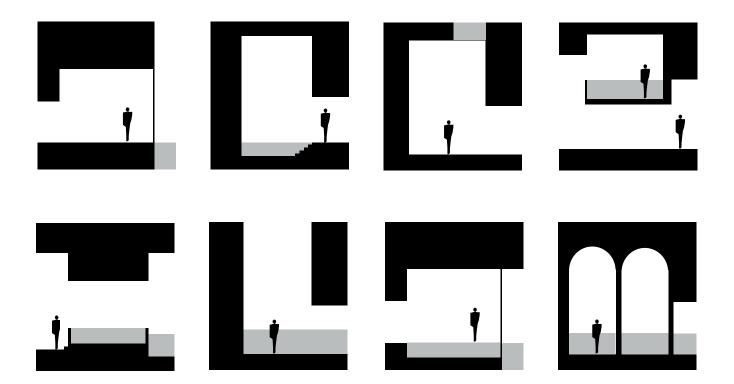


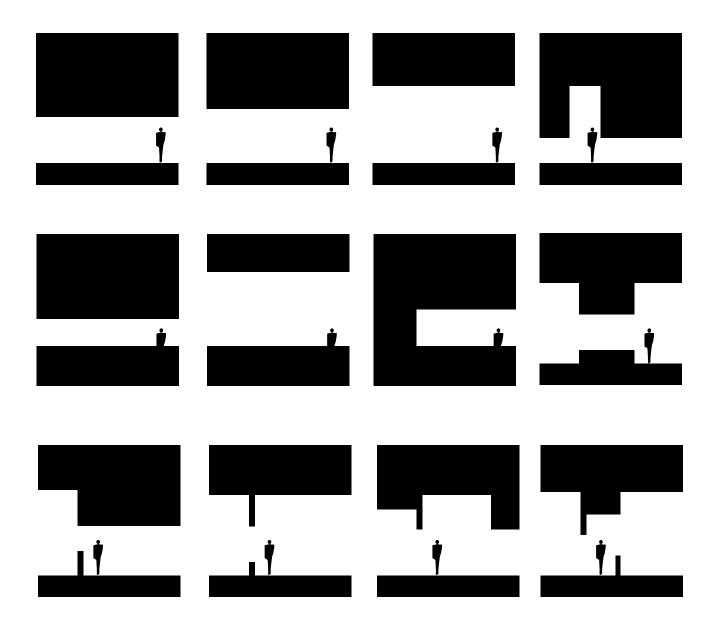
METHODOLOGY

Approach of phenomenology - academic field of research in contemporary architecture about sensory experiences and places - by study of spaces.

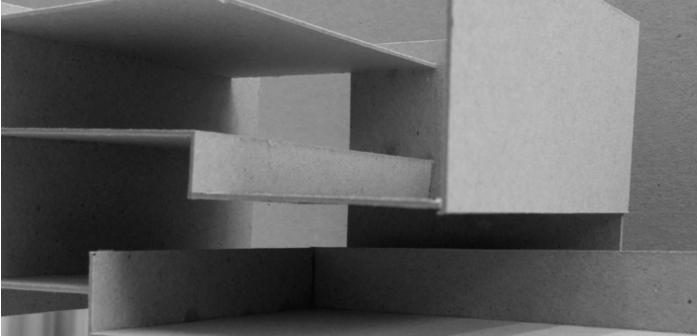
By a catalogue of stamp-size spaces, modelling of these spaces and a serie of different experiences.

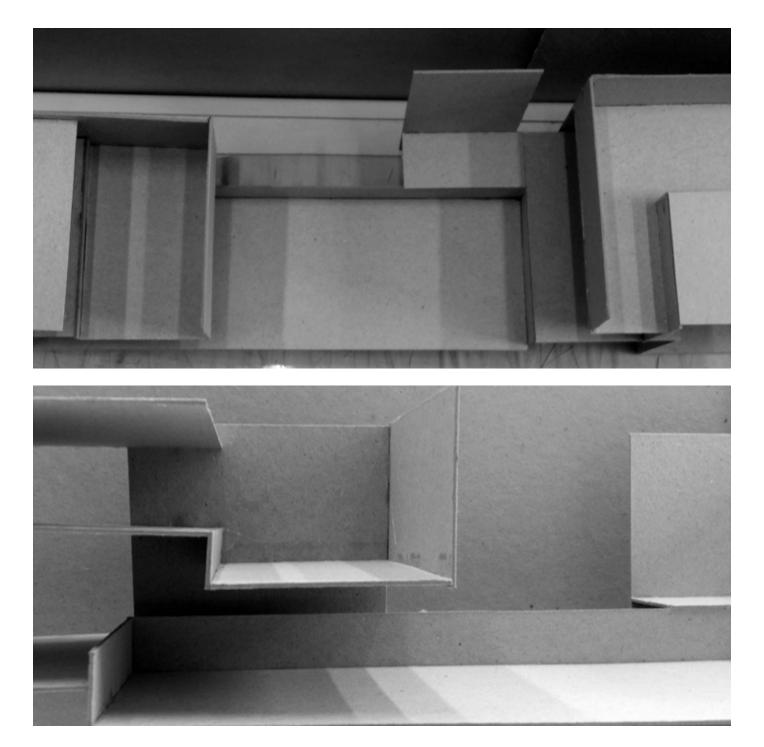


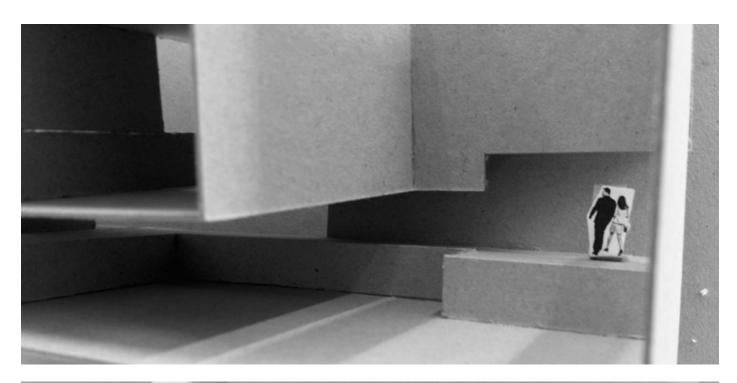


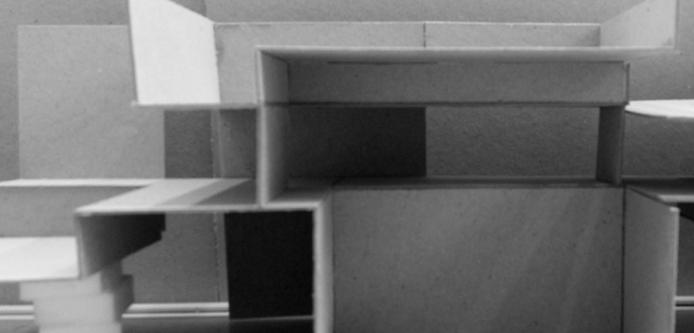


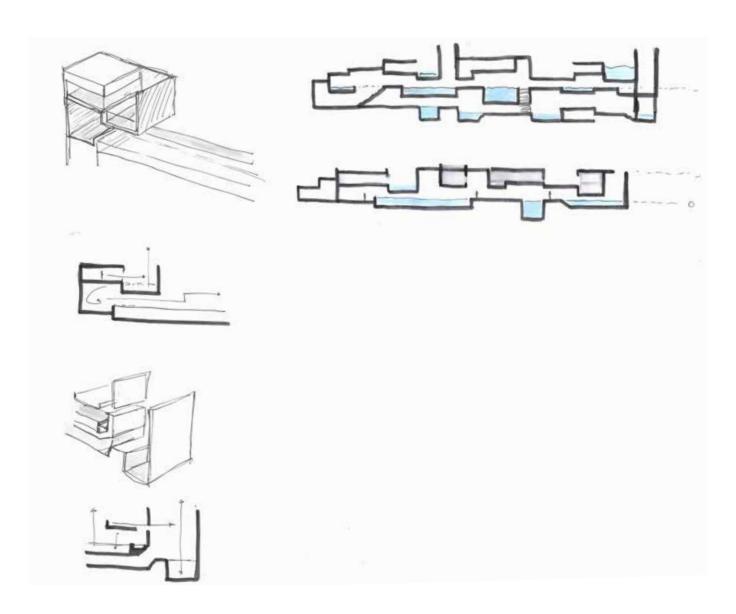


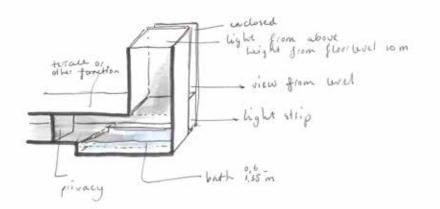


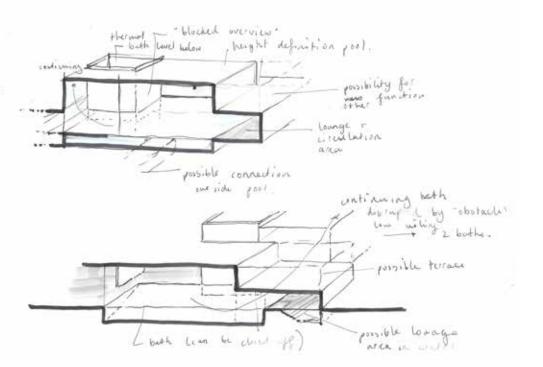






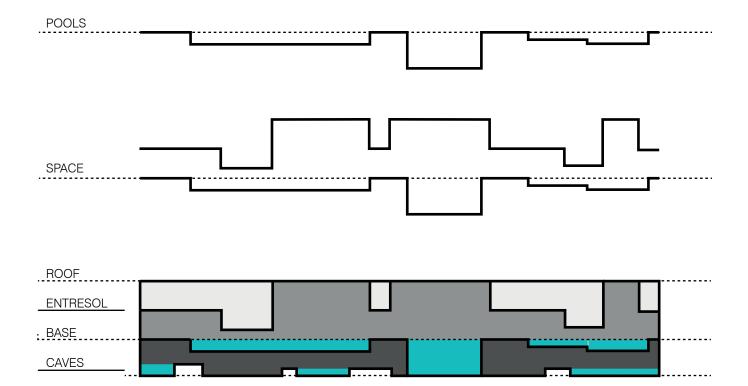


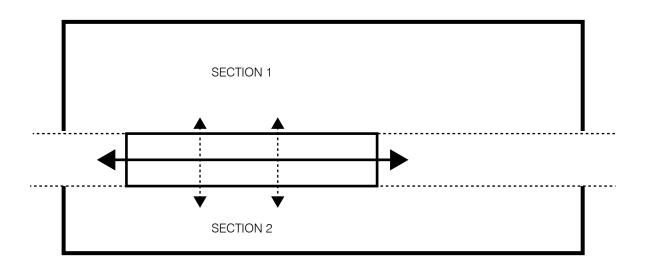


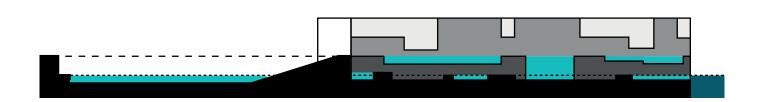


BUILDING CONCEPT

The study of spaces are integrated with the program, both work well together. The experience of these spaces are the base for the design.









SPORTS & CAFE SWIMMING POOLS THERAPY AND SPA

ground level

restaurant | kitchen | entrance | changing rooms | toilets and showers | sauna | massage rooms | restrooms | soundbath, flowerbath | waterfall pool | caldarium | fregidarium | tepidarium | natatio (pool) | hydrotherapy | hot tubs

first level

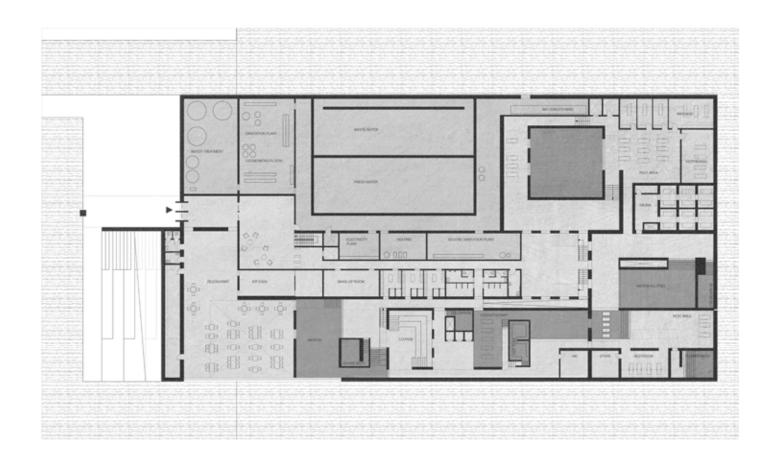
foyer | administration | daycare | changingrooms | toilets and showers | childrens pool | leisure pools | oculus pool | swimming laps pool | diving pool | diving equipment | outdoor pool | solarium

second level

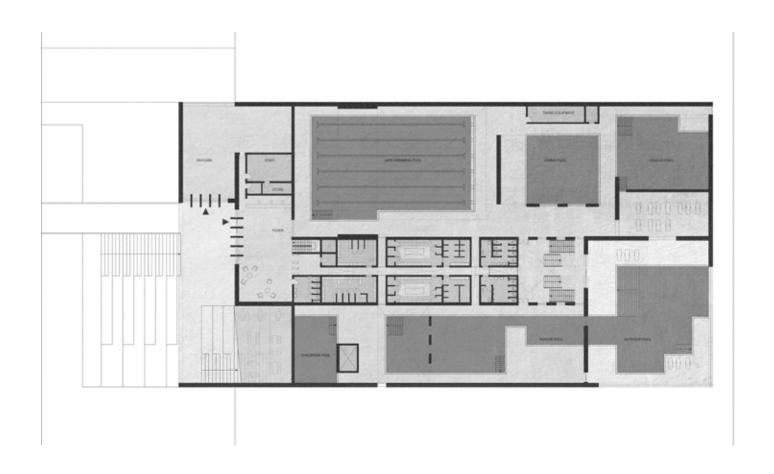
sport reception | dance/yoga | fitness | cardio | changing rooms | toilets and showers | reading room | patio | café | administration/staff | kitchen

roof

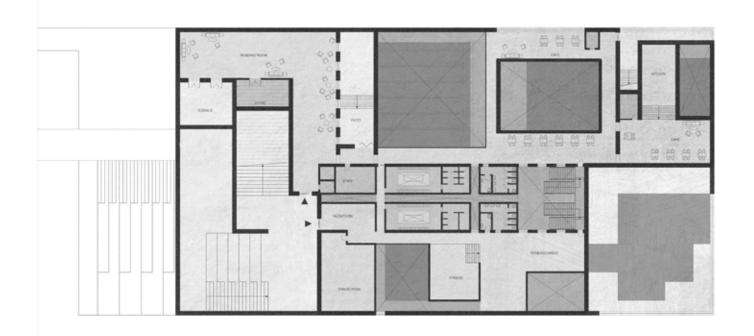
installantions (airconditioning) | viewpoint | terrace



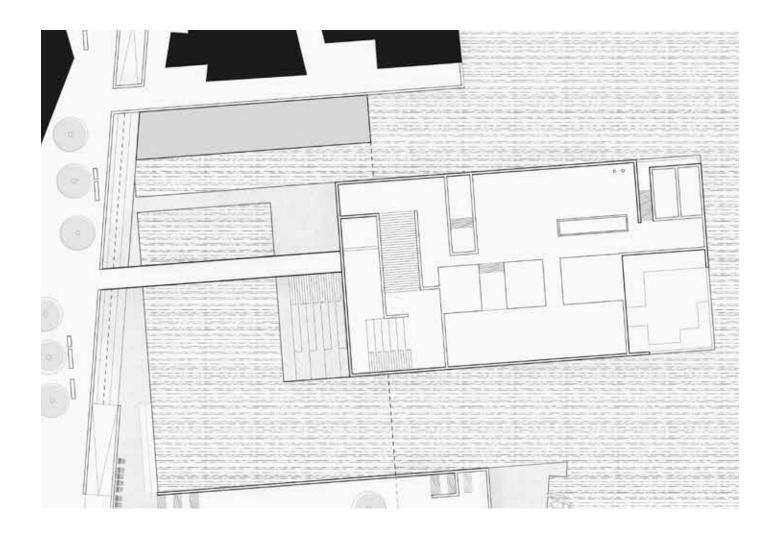
Ground floor - Therapy & spa, restaurant and mechanical rooms



First floor - entrance and swimming pools level

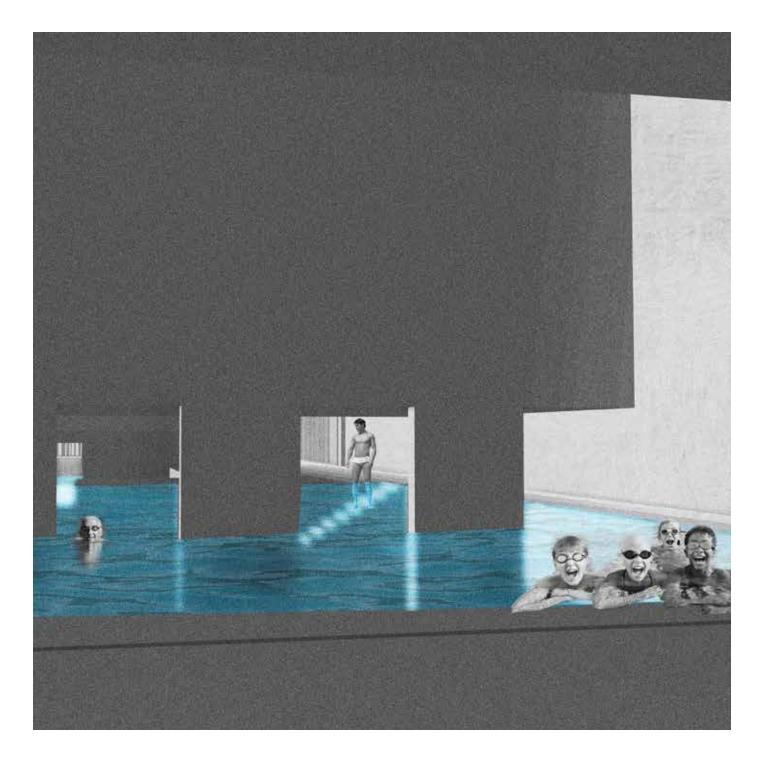


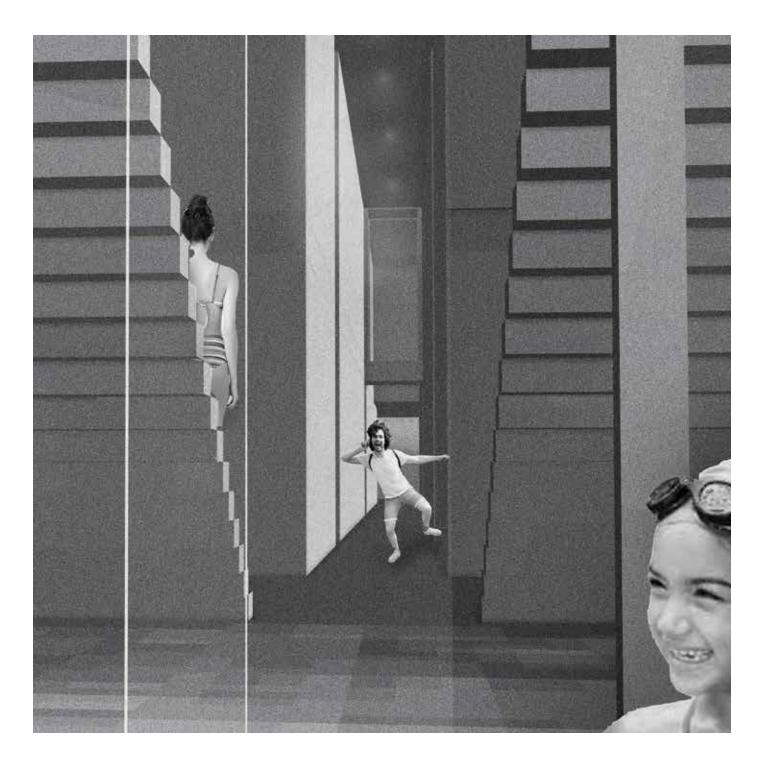
Second floor - Sports, patio, café and reading rooms



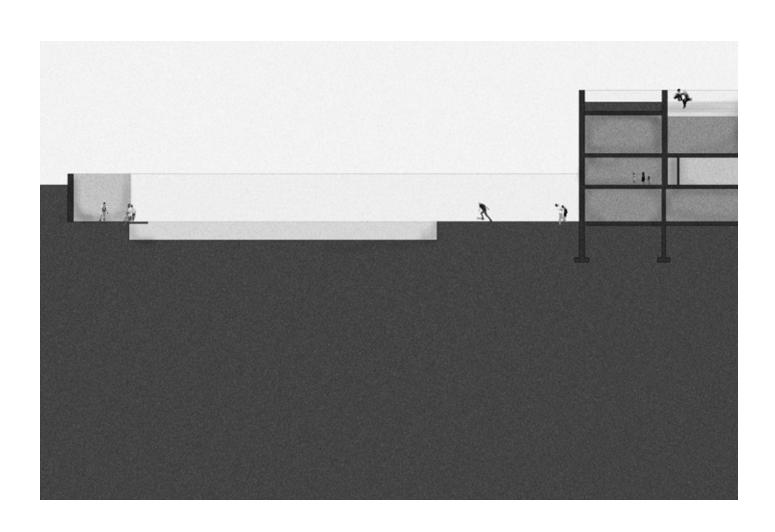
Roof - Terrace, installations and view

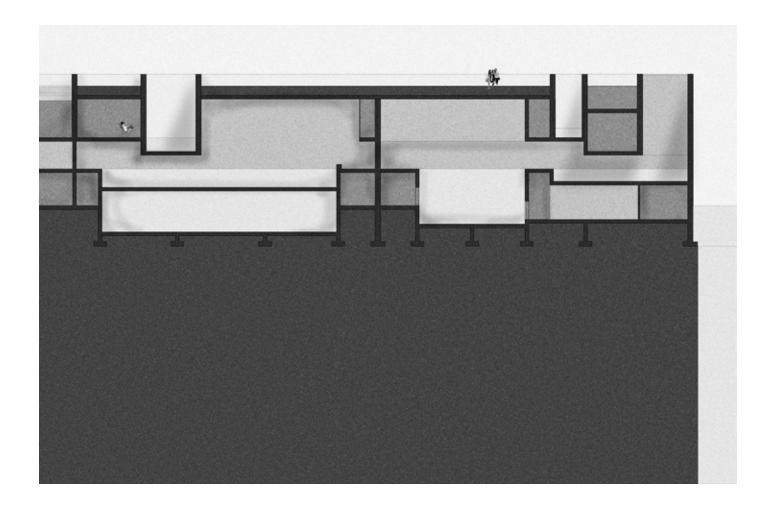






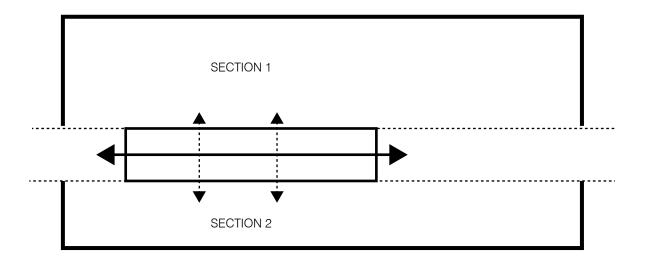


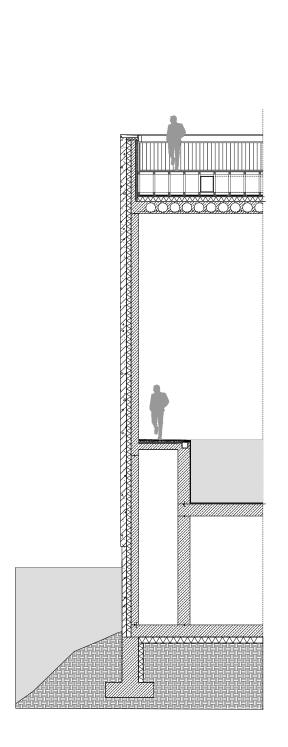


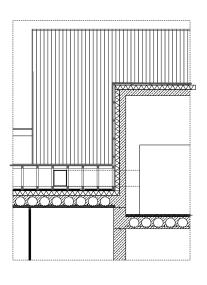


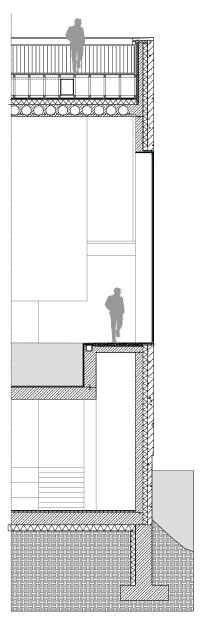
CONSTRUCTION AND CLIMATE DESIGN

How can construction and climate design rules enforce the building concept of creating a series of sensory spaces and enhance the cultivated nature (grotto experience) of the pools.

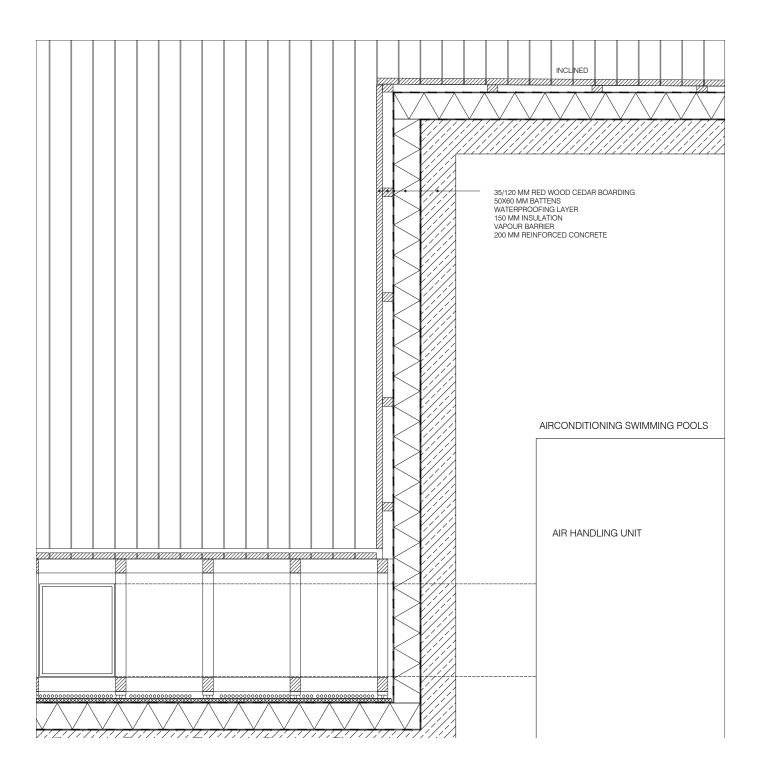


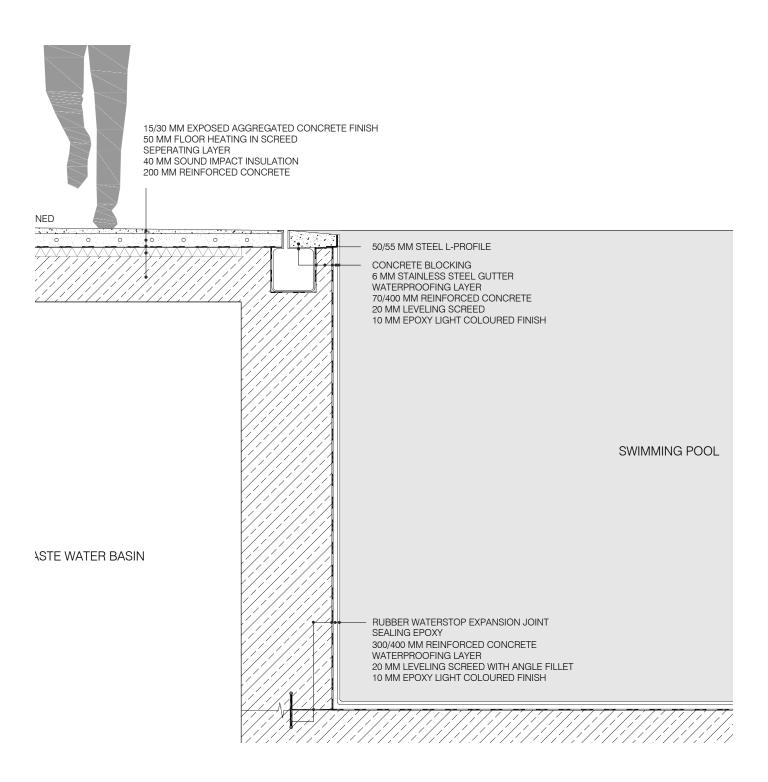






INCLINED CONCRETE ELEMENT Δ 4 Δ MM WESTERN RED CEDAR BOARDING 50X50 MM BATTENS PLASTIC SEALING LAYER A INSULATION WITH LAMINATED LAYER VAPOUT BARRIER 150/250 MM REINFORCED CONCRETE 150 MM INSULATION IM REINFORCED CONCRETE EXTERIOR 4 1/1 35/120 MM WESTERN RED CEDAR BOARDING 400X500 MM INSULATED VENTILATION SHAFTS 60/80 MM BATTENS ON RUBBERS MM LAYER OF CHIPPINGS 20 MM DRAINAGE LAYER PROTECTIVE PLASTIC SEALING LAYER 150 MM POLYSTYRENE INSULATION VAPOUR BARRIER 400 MM BUBBLEDECK CONCRETE SLAB REINFORCED CONRETE, 315 MM PLASTIC HOLLOW ELEMENTS, CONCRETE CORE ACTIVATION, 70N





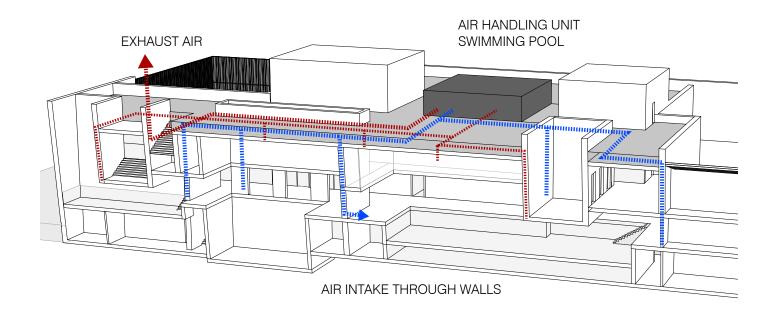
CLIMATE DESIGN

Airconditioning handling units on roof one for swimming pools and one for other functions as foyer cafe and sports.

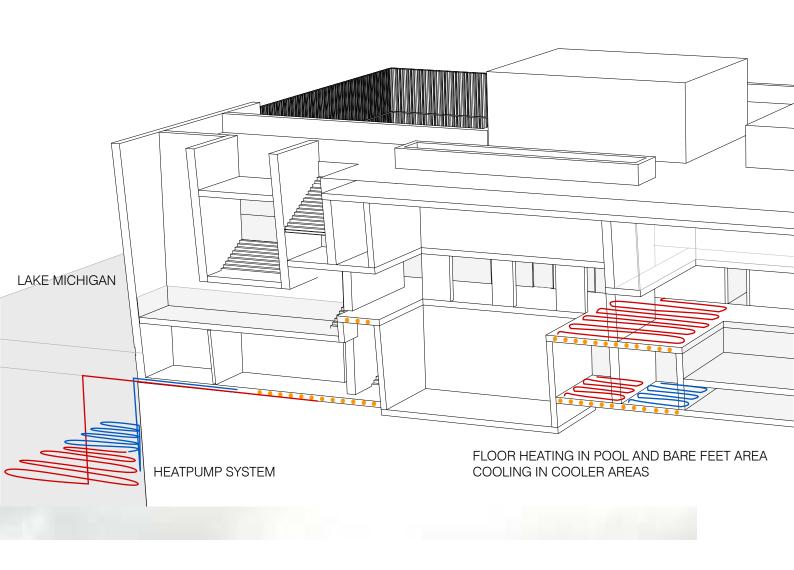
One in the basement in mechanical installation area.

Waste water reuse by filtering. Waste water and fresh water basins available for preconditioning the water before used in swimming pools and other uses.

Sustainable design of fragment with natural pond and filtering (and recycling) the Lake Michigan water by constructed wetlands



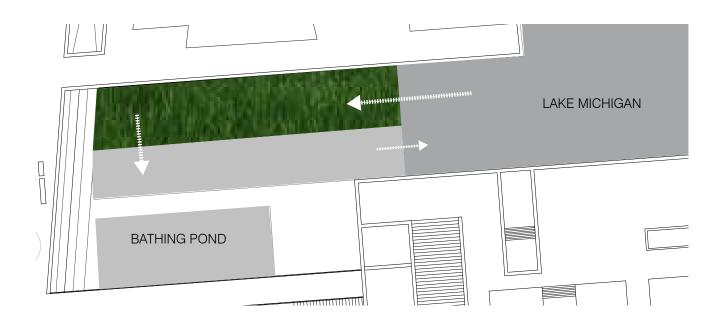
Ventilation distribution is through the raised flooring roof to the airconditioning rooms. The air intake goes through the walls to prevent suspended ceilings or mechanical installations in sight.



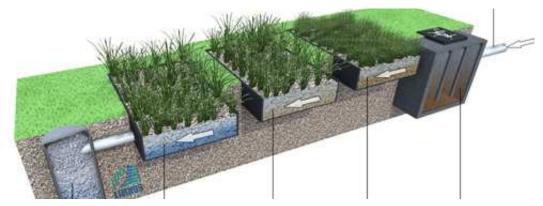
Concrete core activation in the cast concrete floors provide for constant temperature in the building. The floor heating is for extra heating and warm floors in bare feet areas. Cooling can be necessary in cooler areas. The Lake Michigan water temperature is used by a heatpump system.



To come as close to a natural environment, the specific odor of chlorine and skin/eye irritation is not wanted. The watertreatment system is sustainable and without acids or chemicals. Sphagnum moss and a ozone filter are used to treat the water. Waste water will be reused.



WATER INFLOW LAKE



OUTFLOW TO POND

MECHANICAL

POLISHED BED TREATMENT BED FILTRATION BED PRETREATMENT

The Lake Michigan water is polluted. To be able to swim in the pond, the water needs to be filtered. The clean water can be flowed back in the Lake.



