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DIPLOMARBEIT

WELLNESS AND SAUNA GARDEN in Iaşi, Romania

ausgeführt zum Zwecke der Erlangung des akademischen Grades eines Diplom-Ingenieurs / Diplom-Ingenieurin unter der Leitung von

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A. ABSTRACT

The proposed project develops, renovates and reinstates the former Turkish Bath in Iaşi, Romania. It is one of the city's most interesting buildings, with an exceptional history and evolution behind it. However, after the fall of the communist regime in Romania, the building has been left to decay. With its outstanding location, the distinctive architecture and the urban surroundings it has the potential of bringing back wellness, spa and sauna culture to the city of Iaşi.

The project is justified due to the monument value of the building combined with the continuous raise of tourism in the city and the surrounding areas. With proper restoration and marketing, the building has the potential to become one of the main attraction sites in the city.

The city spans over seven hills and the site of the old Turkish Bath allows to discover these perspectives. The new building expands along three dimensions: Building extension, landscape and garden. To merge with the city's landscape and the sauna garden, the new extension will provide the impression of a light, floating, transparent structure, where sauna pavilions disappear in the landscape.

The whole spa experience is not limited to the diversity of pools and saunas, but also offers the experience of discovering the architecture, indoors and outdoors, from the new building to the foundations of the old Turkish bath.

Das vorgestellte Projekt entwickelt und renoviert das ehemalige türkische Bad in Iaşi, Rumänien. Es ist eines der interessantesten Gebäude der Stadt, mit einer außergewöhnlichen Geschichte und Evolution. Nach dem Niedergang des kommunistischen Regimes in Rumänien wurde das Gebäude aufgegeben und ist vom Verfall bedroht. Die außergewöhnliche Lage, die markante Architektur und die umgebende Stadtgebiet bieten das Potential, Wellness, Spa und Sauna Kultur in Iaşi neu zu etablieren.

Die Berechtigung dieses Projekts liegt sowohl im Wert des Gebäudedenkmals als auch im laufenden Ansteigen des Tourismus in der Stadt und der Umgebung. Richtige Restauration und passendes Marketing vorausgesetzt, hat das Gebäude das Potential, eine der Hauptattraktionen der Stadt zu werden.

Die Stadt erstreckt sich über sieben Hügel und die Lage des alten türkischen Bades bietet die Möglichkeit, diese verschiedenen Perspektiven zu entdecken. Der neue Komplex entwickelt sich in drei Dimensionen: Erweiterung, Landschaft und Garten. Die neue Erweiterung vermittelt den Eindruck einer leichten, fließenden und transparenten Struktur, die mit dem städtischen Raum und den Sauna Gärten verschmilzt, sodass die Sauna Pavillons im Landschaftsbild verschwinden.

Das Spa-Erlebnis ist nicht nur auf vielfältige Pools und Saunas beschränkt, sondern ermöglicht auch das Entdecken der Architektur, innen wie außen, vom neuen Gebäude bis hin zu den Fundamenten des alten türkischen Bades.

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WELLNESS AND SAUNA GARDEN v

A. INTRODUCTION

The city of Iaşi in North-Eastern Romania knows a sustainable growth in the last couple of years, that is also reflected by the changing living-style and by the social and cultural activities.

The proposed restoration and extension of the old Turkish Bath of the city, is supposed to bring back to live an old activity, very common during the Inter-War years: the bathing and the sauna as a social life as sport and as leisure and to make it available for the entire community.

The scenario that I propose it is a complex experience, dedicated to different groups of the community, starting from people that look just for after work relaxation, to the ones that like to do some exercise by swimming, to tourists and even organized groups. Nevertheless, the new place can also be divided, for the use school groups, exclusive woman or man day, or for elderly.

B. ANALYSE

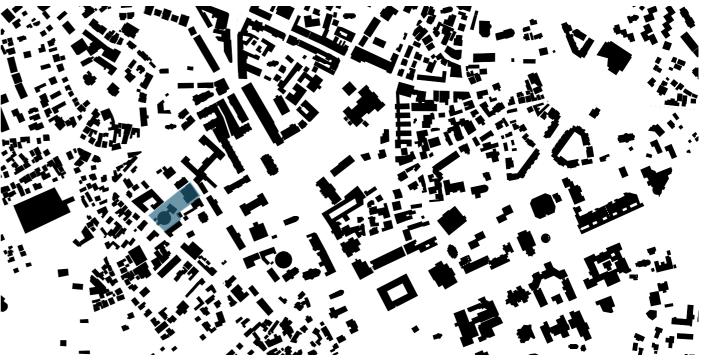


I. S I T E

1. MAP

The site is located in the centre of the Iaşi city, north-eastern Romania. It is one of the biggest cities of the country, with a population of 290.422 inhabitants and a city area of 93.9 km2. It has many UNESCO World Heritage Sites and buildings that stay proof of its rich history.

One of them is the Turkish Bath - also known as Communal Bath, an old building dating most probably from the end of the VXII Century, located between Arch. G.M. Cantacuzino Street and St. Petru Movila Street. The building itself has three floors - underground level, ground level and one upper level - summing a total surface of 2700 m² on a 5200 m² site.



SURROUNDINGS

In the nearby area there are several bathing places, most of them being opened just during the summer time. Most of them, like the Union Pool, Le-GaGa Pool, Capitol, Bucium Spa are not reachable with the public transportation system.

There are some that also offer swimming lessons, like the public pool or the Moldova Pool,

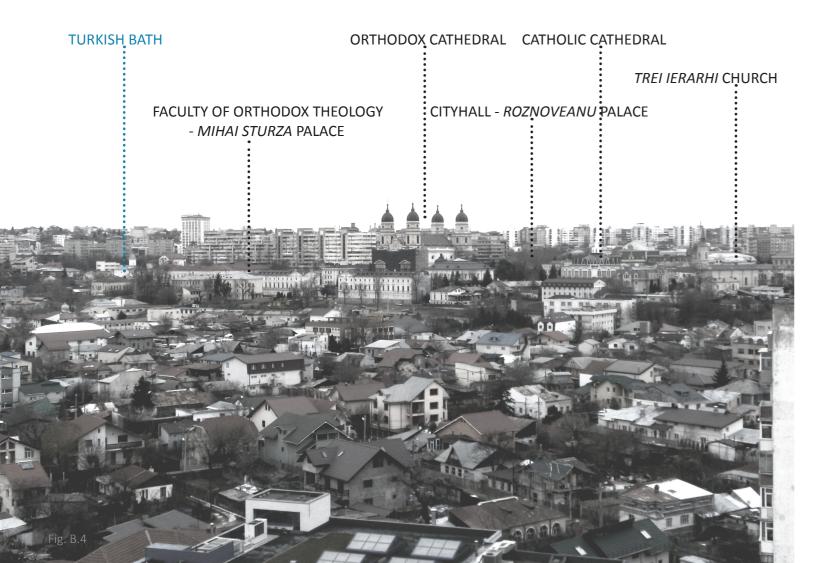
The are few sauna or steaming bath facilities are located in hotels being dedicated mostly to the guests of the place, like in the case of Union Spa, Pensiunea Villa Verde, or Oxygen Sport Center.

Seeing this situation, the discussion develops around the absence of a complex bathing and sauna resort, where one can enjoy sunbathing, sauna, working out, or relaxing at the same time.

- Open-Air Pool
- Indoor Pool
- Spa Pool
- Old Turkish Bath



II. THE TURKISH BATH



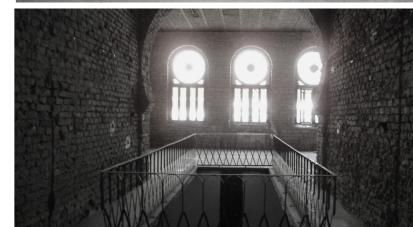
PRESENT SITUATION

The old Turkish Bath is located in the city centre of laşi. During the last decades it hasn't been used at all, nor any restoration works have been done on it. Today it looks almost like a ruin, but most of its original architecture and design it is still noticeable. The small changing rooms with sculpted wooden structure and walls, the treatment and massage rooms, the doors and window structure, as well as the main hamam and hot sauna rooms are easily recognizable, and stay as a relic to the old social life. The three levels edifice has a separation between men and women section.











HISTORY

One of the first documentation of the old bath can be found in the chronicle "Voyage du Patriarche Macaire d'Antioche - texte arabe et traduction francaise de Paul de Alep" from 1653. During their stay in Iaşi the travellers noticed the baths of the city, most of them build by the Ruler Vasile Lupu, following the model of the Turkish ones, with large domes, and beautiful marble rooms.

The whole city and surrounding area was under the strong influence of the Orthodox Church, who administrated not only the schools and hospitals, but also the local baths. The inscription on the entrance wall of the bath reminds that the construction of the place took place under the abbot Ezekiil, of the "Triisfetitele" (Monastery of the Three Hierarchs) in June 1746.

Giuseppe Bayardi Plan 1819



9 Fig. B.9 Fig. B.10-11



HISTORY

The first bath was demolished in the year of 1894. The new construction rose on the foundation of the old one, and a large part of the remaining materials were reused in the new structure. It can easily be noticed on the walls masonry, where the old limestones alternate with the brickwork.

The new building has an underground level, ground level and one upper floor. A part of the building consists of an apartment, for the family that used to take care of the place. It was considered a luxury bathing place, dedicated to the upper class society. Nearby was build the *popular bath*, for the rest of the citizens, a smaller building, with just one floor, containing one swimming pool and showers. No sauna or other facilities were here.

Plan 1977



2. HISTORY

Several renovation took place between 1923 and 1934 and a general one ended in 1949. New consolidation and restoration work started in 1996, but shortly after the beginning have been stopped. Nowadays it can be still seen the structure of the walls, the old foundations, and part of the decorations.

The Façades still keep the initial decorations, and most of the original woodwork.

The parcel is easily reachable from most of the city nrighborhoods, being situated close to the city centre with openings on two important streets - Arch. G. M. Cantacuzino Street and St. Petru Movila Street.

Plan 2017

11 Fig. B.12 Fig. B.13 WELLNESS AND SAUNA GARDEN 12

PLANS

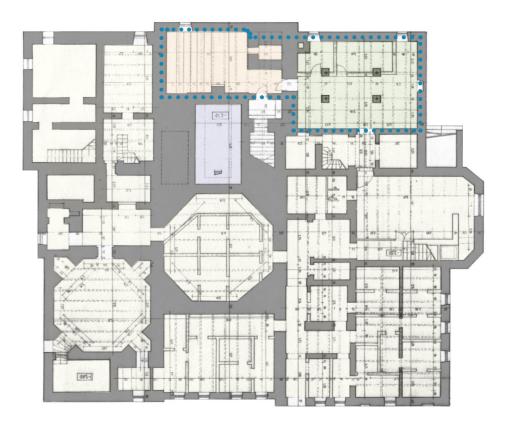


3. PLANS

Basement Floor



- • Men Area
- • Women Area
- Changing Area
- Turkish Bath / Sauna
- Pool / Bath-tube Area / Treatment Area
- Technical Area / Furnace / Personal Area

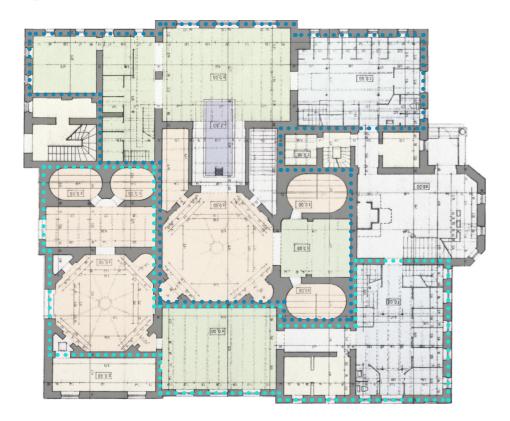


3. PLANS

Ground Floor



- • Men Area
- • Women Area
- Changing Area
- Turkish Bath / Sauna
- Pool / Bath-tube Area / Treatment Area
- Technical Area / Furnace / Personal Area

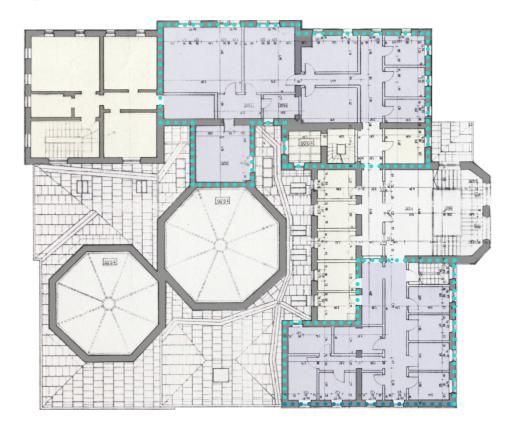


3. PLANS

First Floor



- • Men Area
- • Women Area
- Changing Area
- Turkish Bath / Sauna
- Pool / Bath-tube Area / Treatment Area
- Technical Area / Furnace / Personal Area



15 Fig. B.16 Fig. B.17



CONSTRUCTION DETAILS







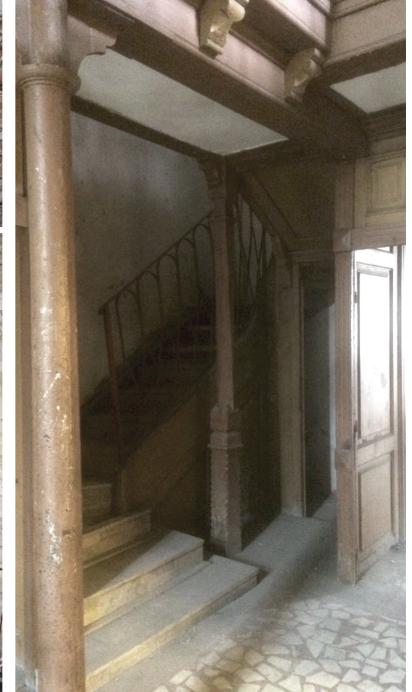
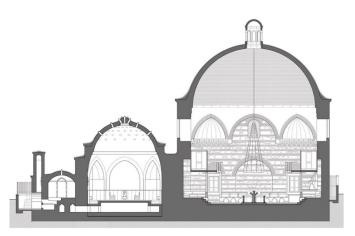


Fig. B.20-22 WELLNESS AND SAUNA GARDEN 18



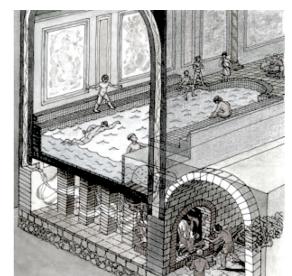
III. STUDY CASES

TURKISH BATHS



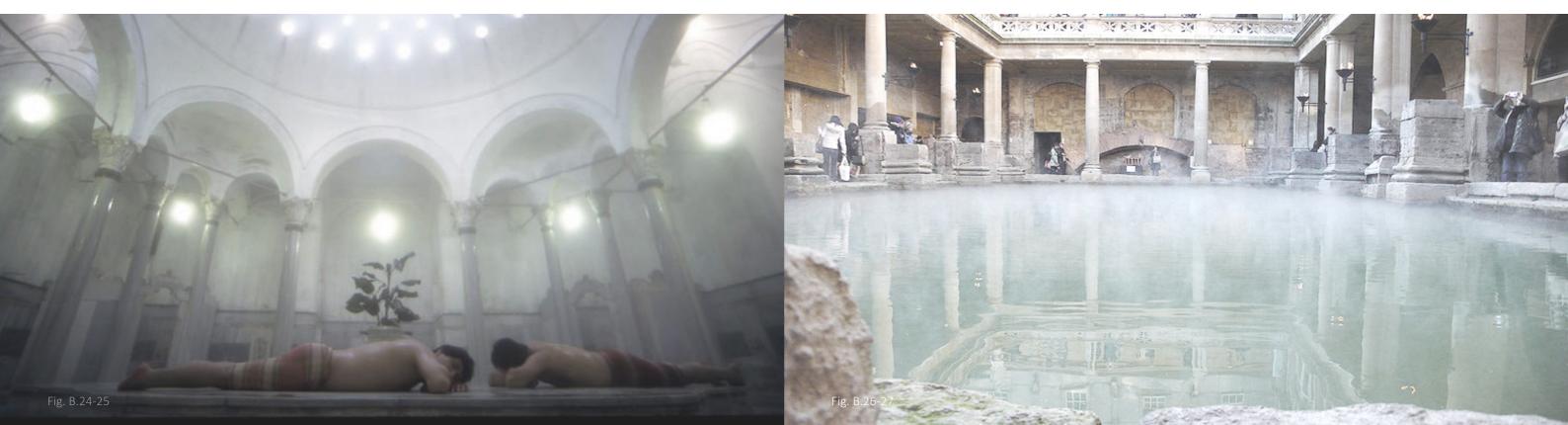
The Turkish Bath, also known as Hamam is a variation of sauna focusing on water as cleansing and relaxing therapy.

The bath starts with a first bathing session in the *warm room*, followed by the *hot room* where the perspiration procedure is completed. After the *cold whater* shower and the *full body wash*, a *massage* will complete the process. Afterwards comes a longer relaxation period in the *cooling room*.¹



. ROMAN BATHS

In the Roman culture bathing was one of the most common activities, being available to all social classes. The bathing process involves the bathers exposing themselves gradually to increasing temperatures. The first room was the *apodyterium* where one would leave his things. The starting point was then the *frigidarium* (cold room) than the *tepidarium* (warm room) and finally the *caldarium* (hot room). The last room used to have cold water basins as well, for the visitors to cool. The relaxing and cooling process would take place then in a cooler *tepidariu*, a room for massages with oils and scraping with metal instruments.²

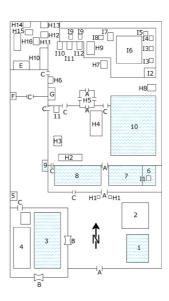




ONSEN

The Japanese hot spring have always been used as public bathing and it is considert a tourist atraction. Even it doesn't have a specific bathing procedure, the legal definition of an onsen is that its water must contain at least one of 19 designated chemical elements, including such minerals as iron, sulfur, and metabolic acid, and have an average temperature of 25 °C (77 °F) or warmer at the point of release.

As normally the onsen use naturally hot water from geothermally heated springs, a particular onsen may feature several different baths, each with water of a different mineral composition. Due to its mineral content, onsen is believed to have hraling power.³



I. PURA TIRTA EMPUL

Tirta = holy water; Empul = great source

There are a couple of myths and legends around this temple with holy water build around the image of the god Indra that was a benefactor that lived at this temple. The water is thought to be a healing water.

The temple has various basins . In the first courtyard there are several basins, which are fed by the sacred spring. These basins are of decreasing importance from east to west. To the east is the most sacred basin, filled with five gargoyles symbolizing the five sacred waters. In the middle of this small basin stands a shrine. To the left of the hotel are the men's and women's swimming pools. Outside the wall is another pool for public cleaning.⁴





IV. THE IDEA

The situation analyse and the observation of the study cases defined the parameters of the project developed in this specific situation.

The new *Wellness and Sauna Garden* has to outline the necessities of the local culture, being attractive to various groups, from children to elders. The variety of the functional program and its organisation in pavilions, permits to be used not only as a whole, but also separately with naked area, women sauna area, or closed group area. The formal composition follows the topography of the site, opening itself to various perspectives, from the surrounding neighbourhood with small houses to the hills and woods defined skyline.

The restaurant at the top level of the old building offers the largest perspective over the bath and over the city. Due to its location, and access facilities, the restaurant can also work separately when the bath is closed.

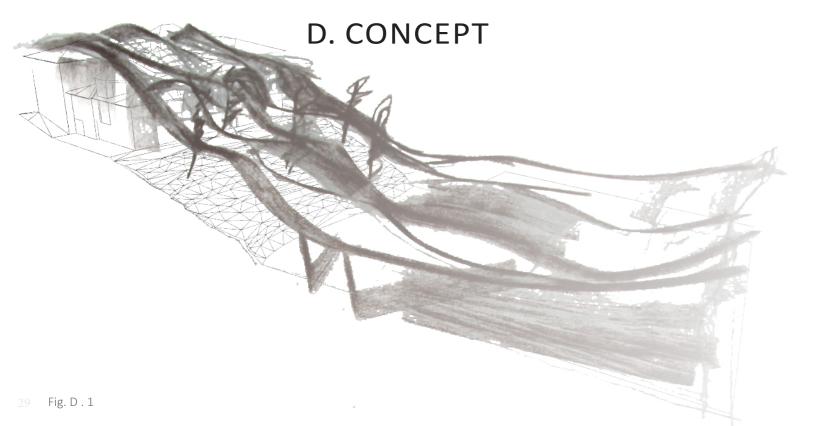
C. AIM OF THE PRESENT WORK

The project is in the first place feasible seeing the cultural and historical value of the old Turkish Bath in the context of the city of Iaşi: it is one of the most representative buildings, standing as proof of one of the most important pages of the history of the region: the development of the local culture under the Byzantine Empire.

On the other side, this proposal justifies itself also in the nowadays context of the city: the increasing tourism rate, the strong expansion if the infrastructure - extension of the local airport - and the investments, especially in informatics companies, that extended here during the last couple of years.

Seeing all these aspects I decided for my work to stand as a connection between a page of history and the present development of the region, evolving from the traditional culture of the Turkish steaming baths to the latest sauna types and the aromatherapy.

The new leisure facility opens for the visitors of the city, adding another stop on the tourist map of Iaşi, but also to the locals, that would have a centre location for after work recreation or for work-out groups - schools or kindergarten. The project covers from large swimming pools and sauna variation, as well as massage and tratment therapy and as eating facilities bistro and restaurant.



I. MATERIAL AND METHODOLOGY

The first step in the design process was documentation and analyses. Obtaining information about the existing Turkish Bath and about its surrounding was very important for defining the parameters of the present work.

The historical documentation with its plans and a short summary about the history of the bath was possible by taking contact with the architect Ion Daniel Visan from the city of Iaşi, who, a long time ago, made a study about the existing bath. Some general historical notes about this place I also found in books that talk about the past of the city, like "laşii de odinioara" written by Rudolf Suţu. All these information were completed by the information found on internet. After the documentation part, the work started to make sense by organizing all the gained information and searching for a concept.

The design process followed a series of aspects that were important for this project. The clear definition of these concepts follows in the pages bellow, and illustrate mainly the relation with the site, with the surroundings, the idea of water and aromatherapy plants, and the cohabitation between old and new.

Since the site itself was a challenging one, having a ten meters altitude difference from one end to the other, all the designing process took place from beginning with building a 3D model where I could see better the volumetry, and organize every idea.

SITUATION PLAN

DENSITY

The city is characterized through a medium density and a high fragmentation, as seen in the black-white plan.

In the centre of the city urban islands can still be identified, with parcels delimited by streets; however, further away, the parcels vary to individual houses on properties, and the urban aspect becomes more divided.

The variety goes further on, to the other side of the Bahlui River, where the communistic blocks rise - rectangular, floating between streets and green spaces.

The traditional urban aspect is one of the important aspects of the project evolution, standing as a connection point for the cohabitation issue between the existing building and the new one.



TOPOGRAPHY

Located in the North-East of Romania, the city of Iaşi stays on seven hills and it is surrounded by woods and vineyards, gardens and monasteries. The Bahlui River crosses the city.

The building site is located on a hill, with a ten meters difference between the highest point to the lowest. The Old Turkish Bath is situated on the top of the place, opening to different perspectives of the area.

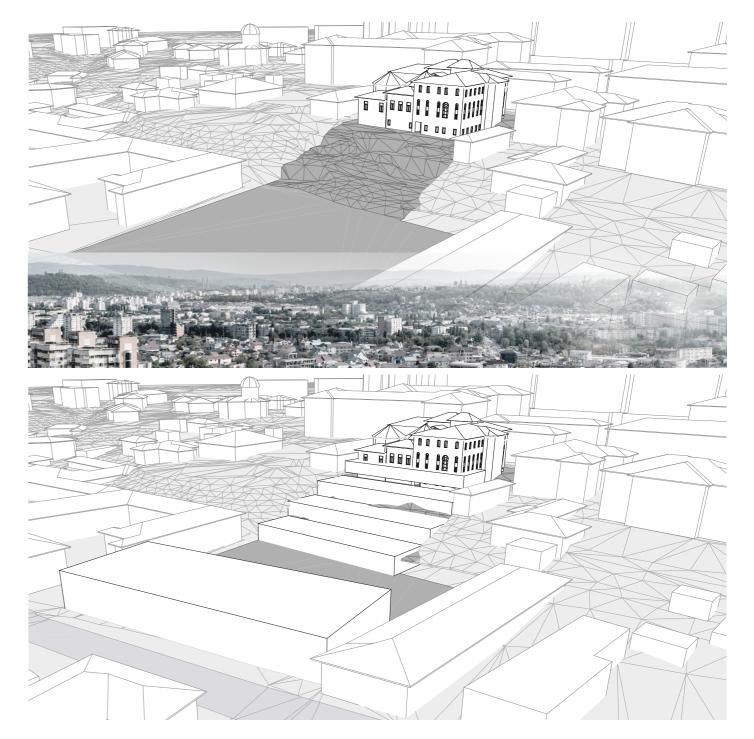




3. FINDING THE FORM

The parcel consists of two plateau parts, connected by a steep section. Since the Turkish Bath Monument covers most of the upper area, the optimal answer in this case lead to a stairway volumetry, with extended terraces for views and relaxation where one could just lay in the sun or enjoy a bath.

This scenario also fit in the surrounding area, leading to individual buildings, and following the density of the centre of the city.



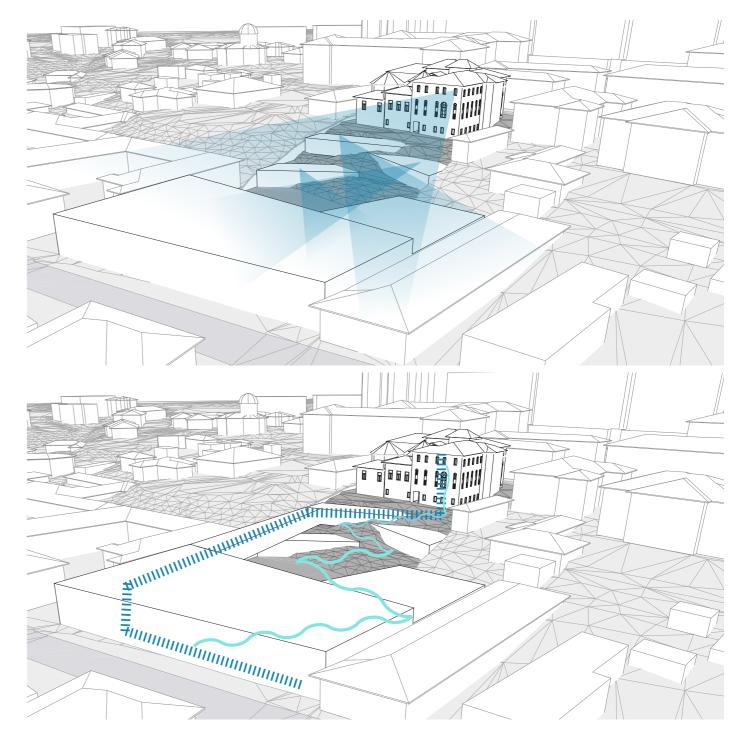
WELLNESS AND SAUNA GARDEN 36

3. FINDING THE FORM

Opening the terraces creates a rather dynamic composition, where the labyrinth garden is the mediator between new and old. This foot path follows the discovery of the sauna pavilions.

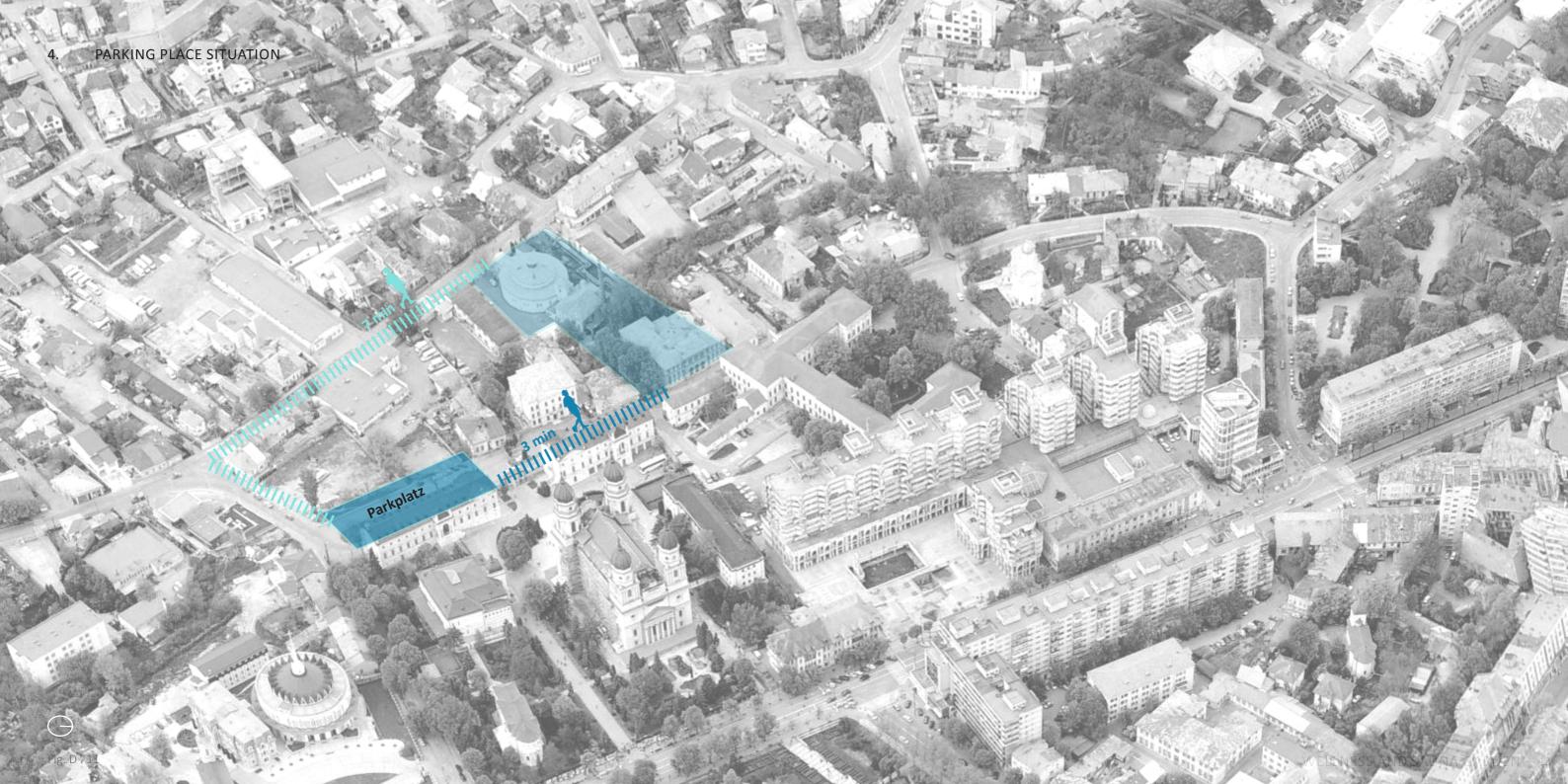
On the other side, the connection between the entrance and the old building can be made avoiding the garden way, for example in case of bad weather or also for people with disabilities, through the first floor of the new construction, that leads, directly to the underground floor of the old bath.

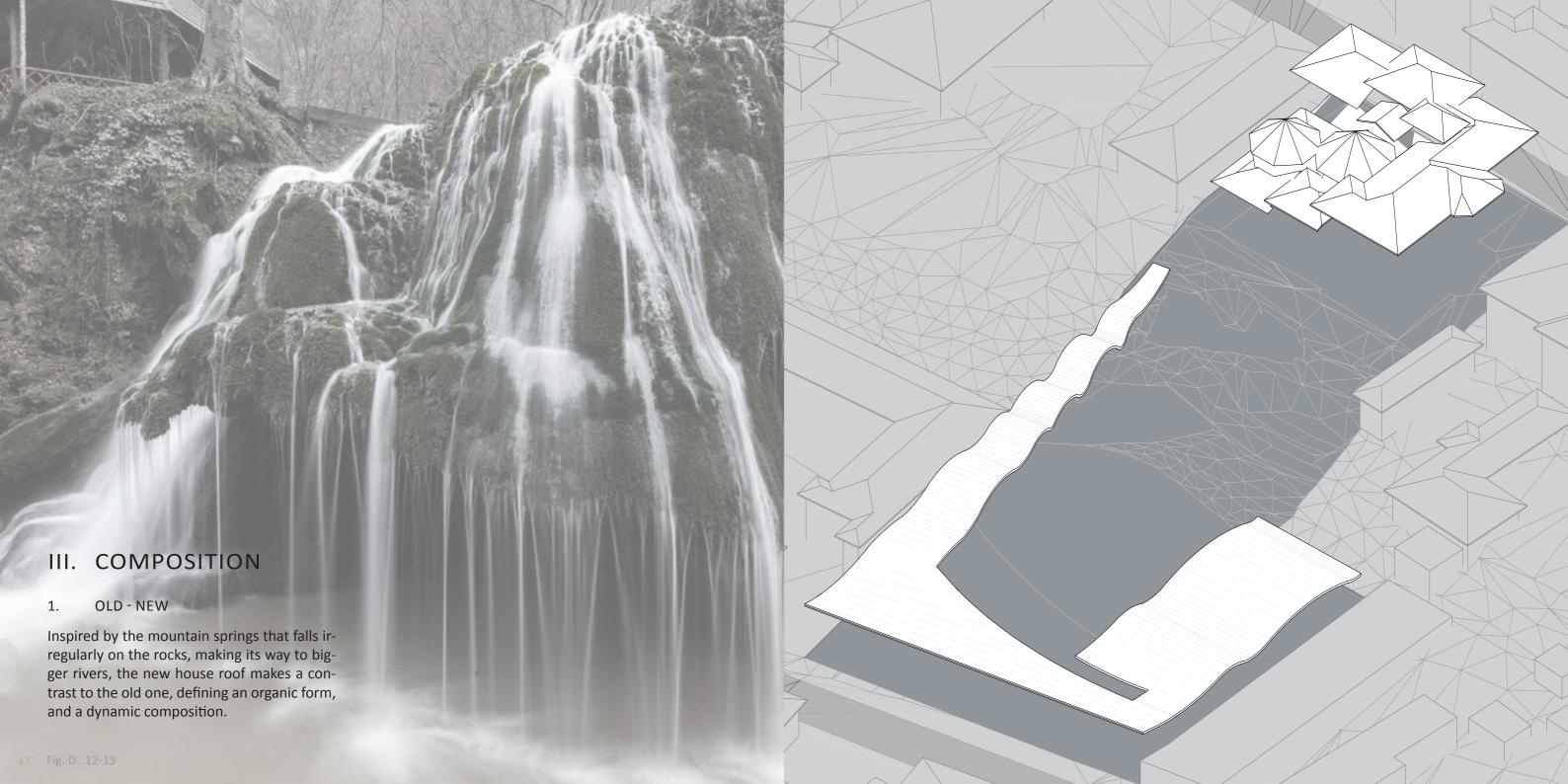
The functions will also follow this path, from the rather innovative and modern ones, in the new part, to the traditional ones.



37 Fig. D. 8-9 WELLNESS AND SAUNA GARDEN 38

FINDING THE FORM - HEIGHTS +4.00



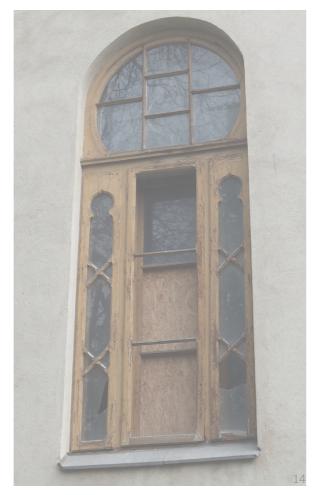


2. ARCADES

The interpretation of the arcades is another expression form brought in the design process as a contrast with the existing Byzantine arcades, windows, doors and openings.

The option followed the arcade developed from an ellipse, rotating it in dynamic ways, and repeating it in the new construction but also partially in the old building's back façade. That was possible since the existing windows there, were all not the original ones, but simple, rectangular, and damaged ones.

In the view from the garden the impression is of a portico, often used in the traditional Roman baths and Roman architecture in general.















WELLNESS AND SAUNA GARDEN 46

3. TRANSPARENCY - OPAQUE

The Old Turkish Bath appears from outside very monumental, with thick walls, and small windows. The indoor areas is quite dark, creating a special mixture of charm and mystery, old times like atmosphere.

In contrast to this, transparency is an important aspect for the extension, especially at the entrance level. Standing here one could see, even from the street, through the new pool hall, to the garden and further way to the old building. It is an open invitation to the sauna garden on one side, and also a connection to the closure of the Turkish Bath on the other.

In the new building another important aspect was to bring natural light in every area, as much as possible. A light shaft brings daylight all the way to the basement, in the changing rooms.

47 Fig. D . 21 - 22

WELLNESS AND SAUNA GARDEN 48

4. POOLS - FORM

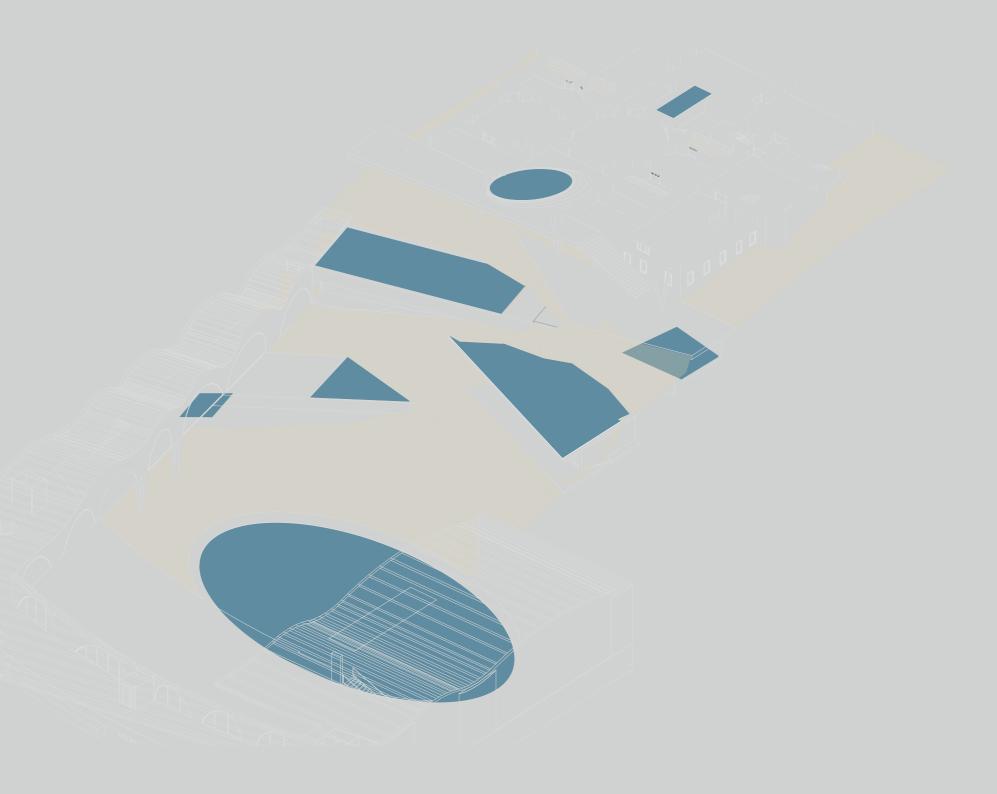
Each pool is different regarding form, dimension and type of water.

The main pool, that is located near the entrance hall in the new building has an elliptical shape, one of the main conceptual shapes used in the project. As the garden goes up to the old building, the pools vary from triangular and rectangular ones, and to other more organic shapes. It is an alternation of rigorous shapes to more organic ones, that follows the discovery of the garden and of the place.

The main inspiration in this sense are the natural elements, for example the water drops that form different shapes when they fall on the ground.



Fig. D . 23 - 24

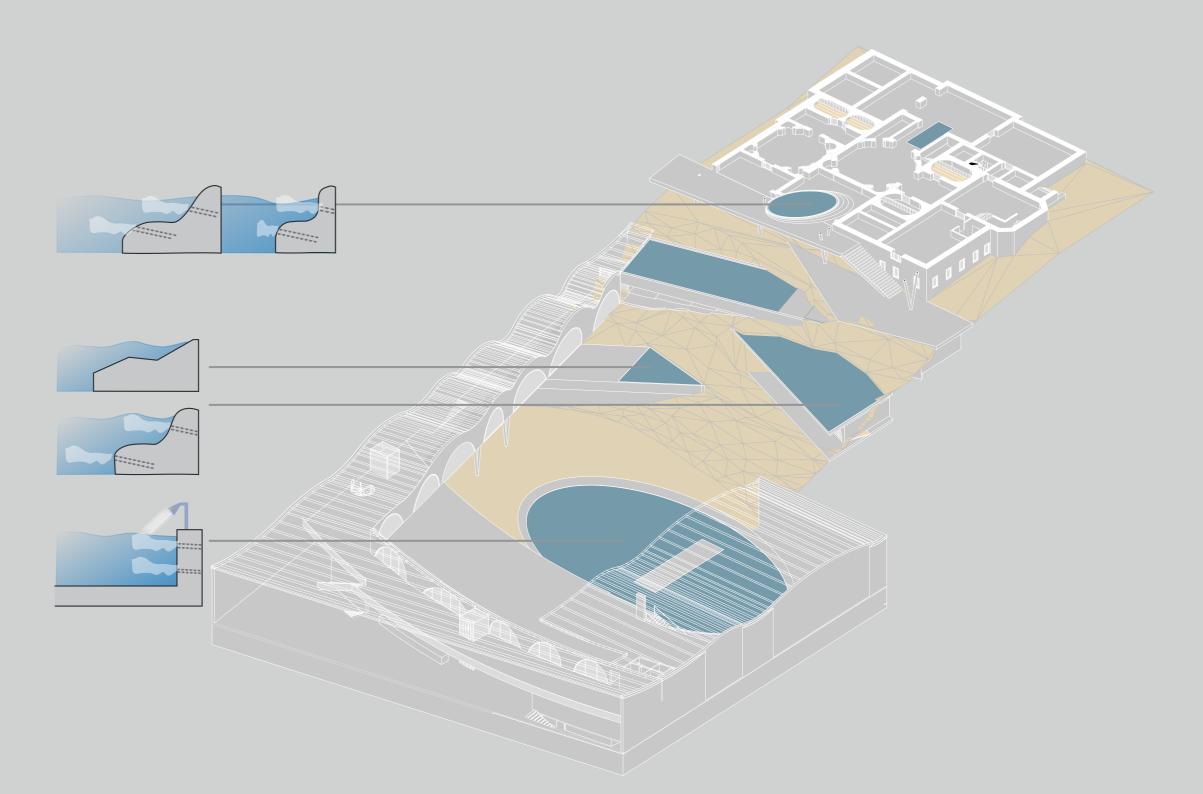


4. POOLS - MARGINS

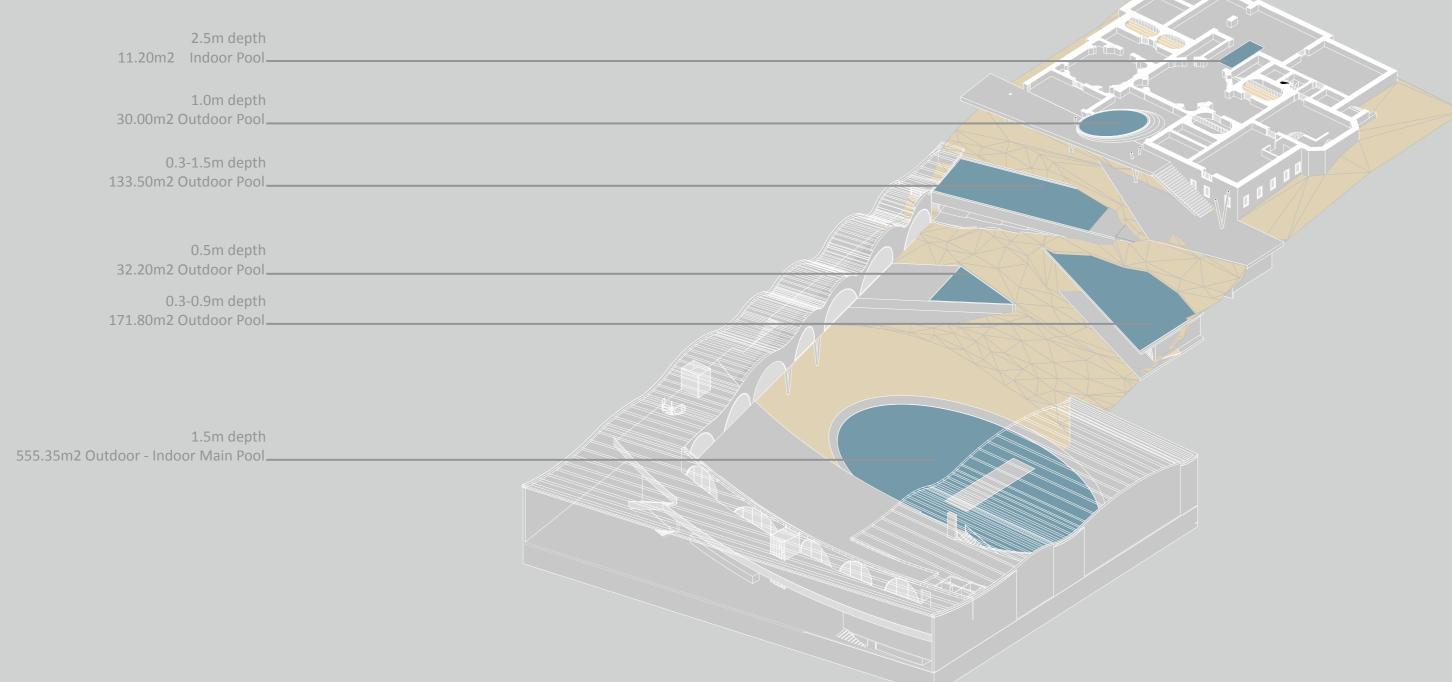
The margins of the pools complete the wellness experience, with air treatment and massage, sitting or lying places and water fountains, different from pool to pool.

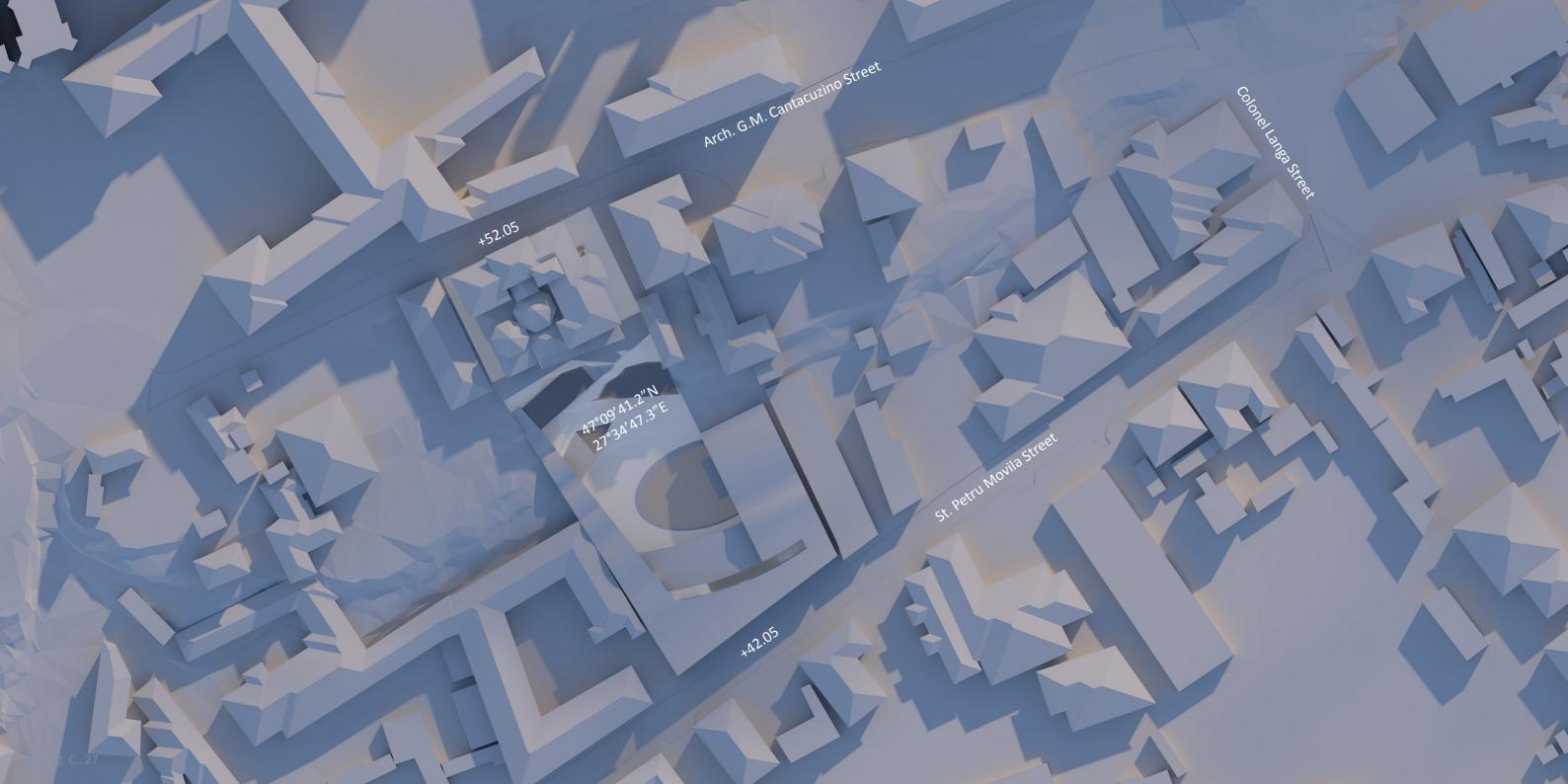
Aside these, close to the sauna Pavilions are situated the warm water whirlpools, with classical air-treatment and massage.

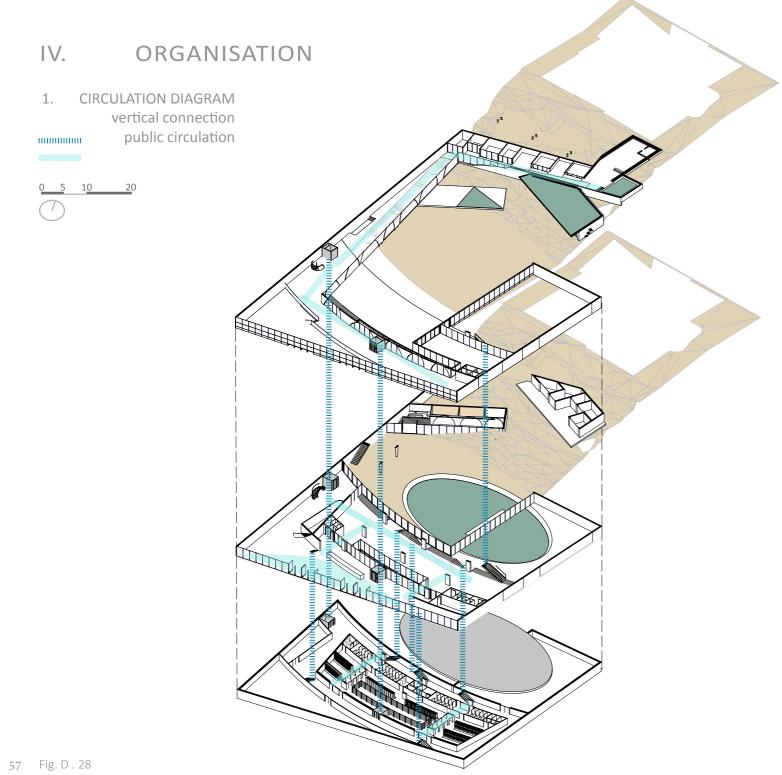
The old pool located at the ground-floor of the Turkish Bath is a cold - salted water basin, designated for cooling after the sauna rounds.

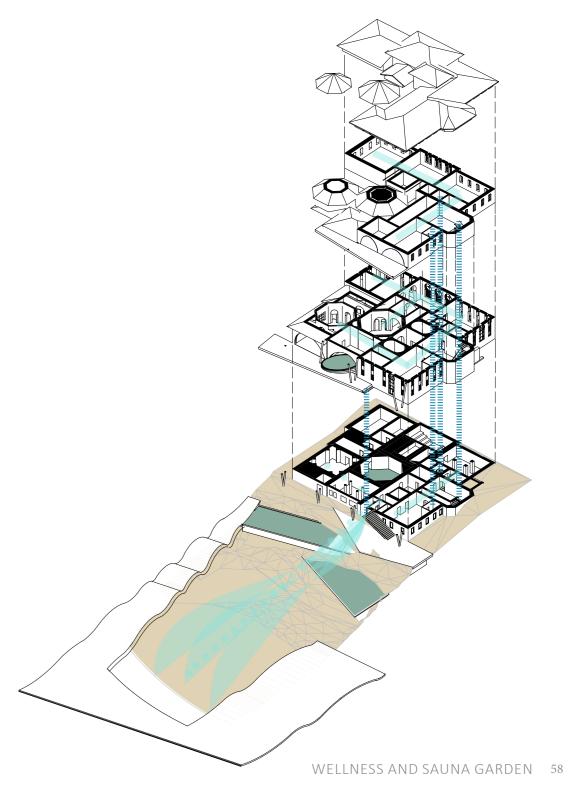


4. POOLS - DIMENSIONS







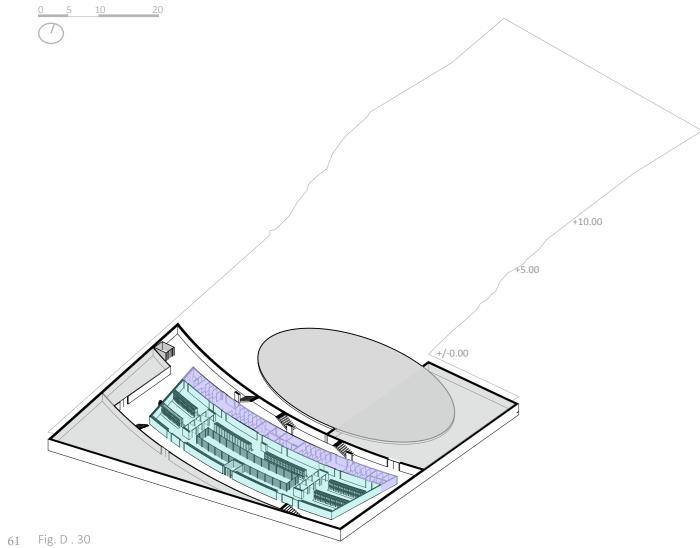


ENTRANCE HALL LOBBY	INFO		CHANGING ROOMS		POOLS	SWIMMING AND RELAXING POOL COLD WATER POOL THERMAL WATER POOL SALTED WATER POOL PANORAMA POOL SELENIUM POOL WHIRLPOOL	
		BISTRO				WHINEFOOL	
PERS	SONAL AREA				HOT SAUNAS	FINISH SAUNA BIO SAUNA SALT-THERAPY SAUNA HERBAL SAUNA INFRA-RED SAUNA	
STORAGE ROOMS				STEAM BATHS	TURKISH BATH AROMATHERAPY STEAM BATH		
TECHNICAL ROOMS				RELAXING AREA	LAYING ROOMS QUIET ROOMS MASSAGE ROOMS		
					SUN-BATHING AREA	GARDEN TERRACES	
SECOND ENTRAI	NCE				RESTAURANT	PAMORAMA VIEW	

PLANNING PROGRAM 2.

BASEMENT

Changing Rooms Showers and Toilets Technical rooms



PLANNING PROGRAM

GROUND-FLOOR

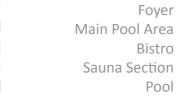


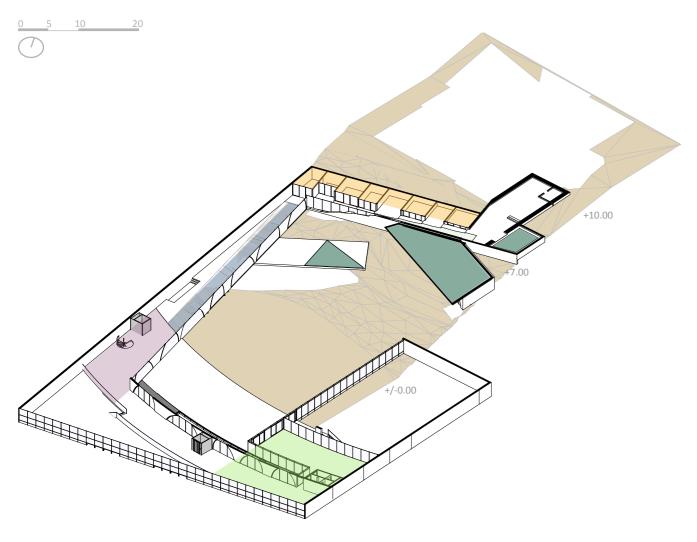


Fig. D . 31

PLANNING PROGRAM

FIRST FLOOR

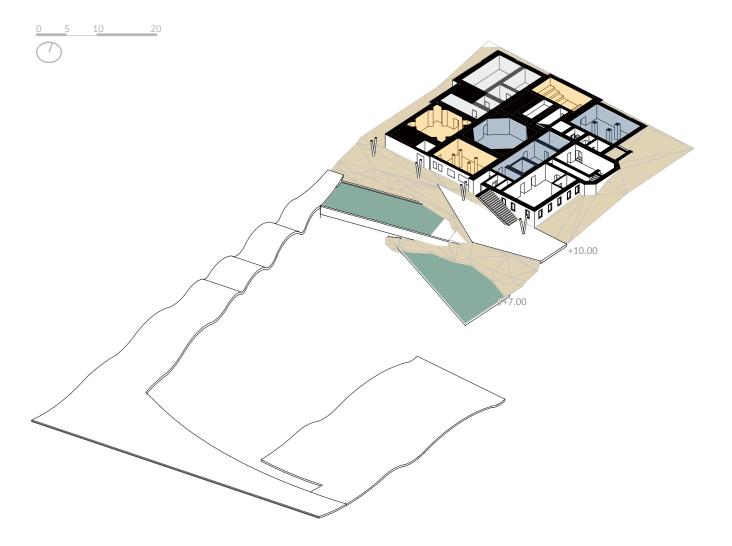
Personnel Area Bistro **Resting Space** Sauna Section Pools



PLANNING PROGRAM

BASEMENT - EXISTING BUILDING



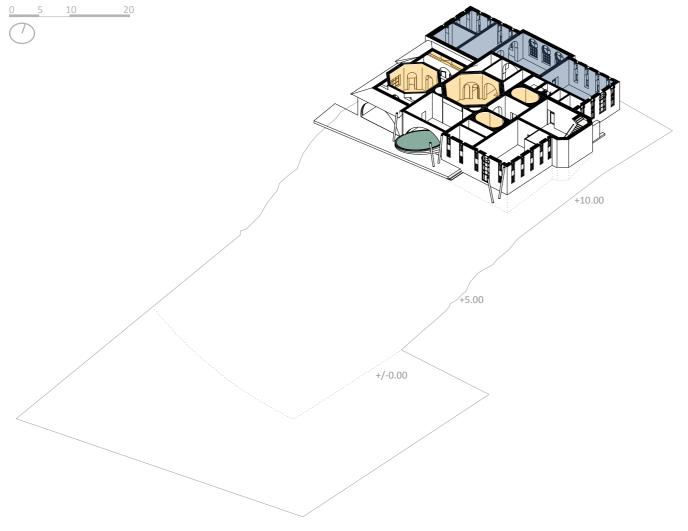


63 Fig. D . 32

2. PLANNING PROGRAM

GROUND FLOOR - EXISTING BUILDING

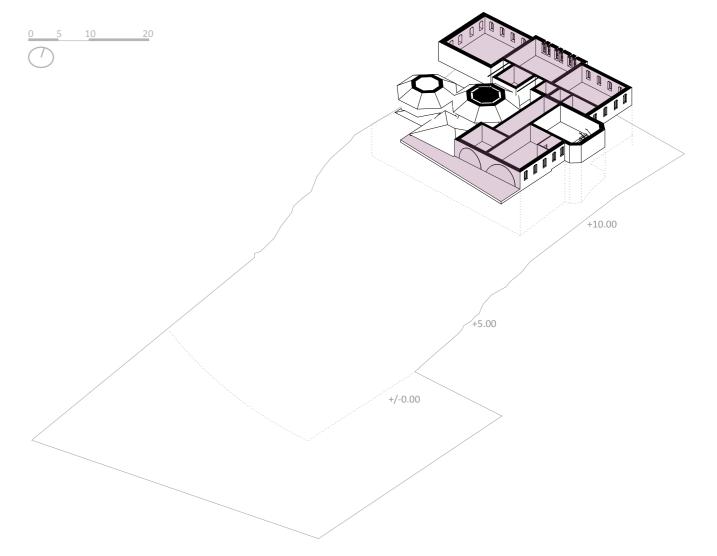




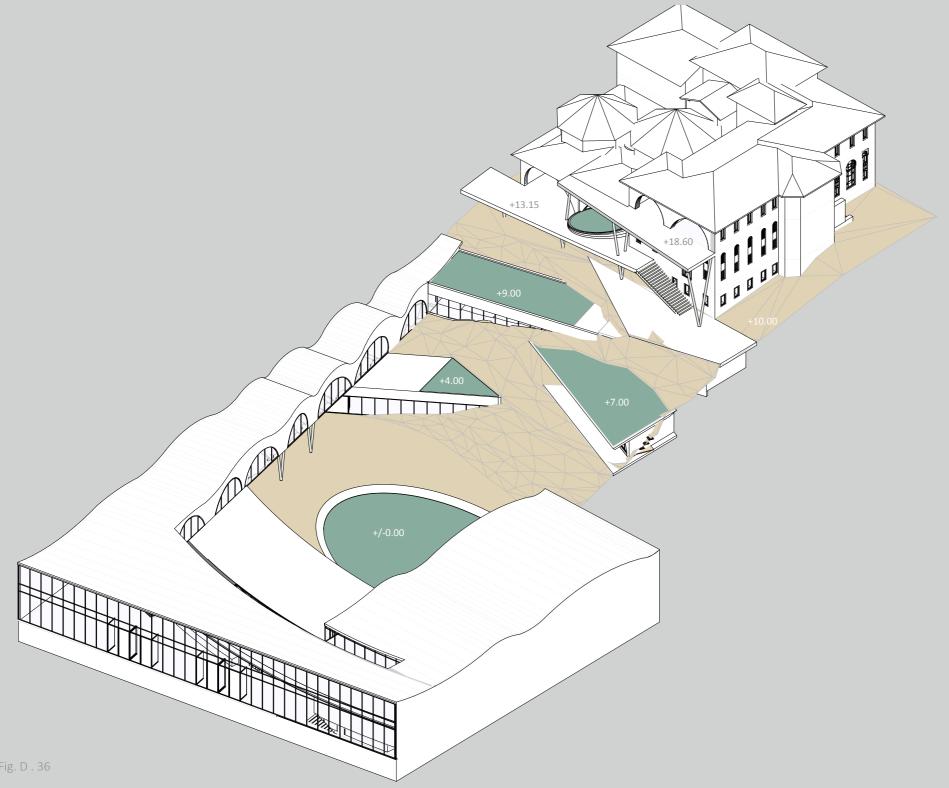
PLANNING PROGRAM

FIRST FLOOR - EXISTING BUILDING

Restaurant



65 Fig. D . 34



V. SAUNA PAVILIONS

MAIN TYPES AND FACILITIES

Hot Sauna Steam Bath Resting Space Whirlpool Showers







VI. AROMATHERAPY GARDEN

MAIN PLANTS NATURAL MATERIALS



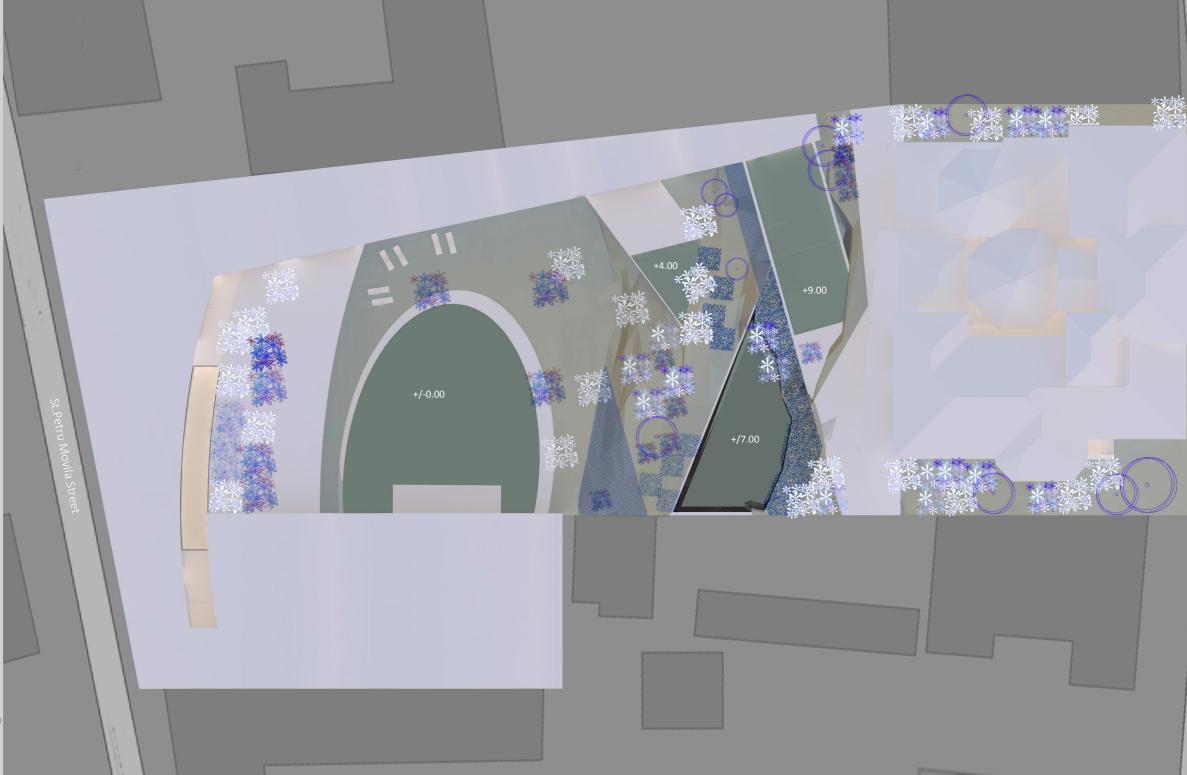
VII. DISCUSSION

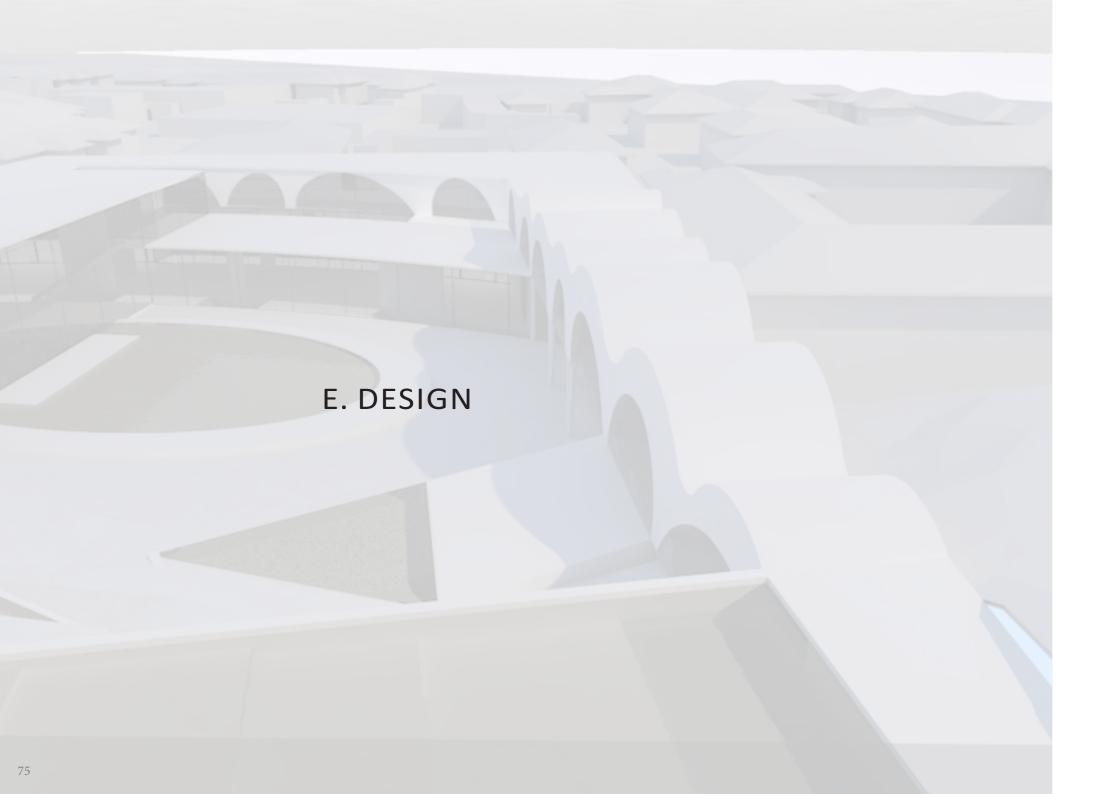
The theme of wellness and sauna in general is a very wide one, with the possibility to experiment a lot, and to make many interpretations.

The documentation field in this category is very large. A great part of this research is concentrated on antique and traditional examples, and the most impressive thing is that these baths, in many aspects, like construction, details, techniques, or rituals, are still very actual.

Most recent, there are many interesting approaches in designing a bath, the most well-known probably the "Therme in Wels" from the architect Peter Zumthor, or the "Le Bains des Docks" from Jean Nouvel, baths that combine the SPA experience with a sculptural very carefully detailed architecture, creating a intense adventure in discovering and enjoying the place itself.

Looking all over the evolution the Wellness theme, its complexity is notable, and all the discovered and used sources had to be all over again ranked, analysed and discussed for an optimal designing result.





I. OUTCOME

The Wellness and Sauna Garden goes further in details, with the accurate illustration of the plans, sections and façades, based on the hypothesis presented in the *Concept* chapter.

This is a project about the relation between historical buildings and new ones, objectified, in a SPA resort. The integration is made through reinterpretation of specific elements, and alternation of traditional functions with new, innovative ones.

In a similar manner, the functional scheme is completed through different relations between spaces. The interior communicates with the exterior, through transparency, openings and large terraces as seen in the following sections and façades.

The complexity of the project raised also some technical questions and solutions. The Old Turkish Bath had to be optimized not only through restoration, but also through technical details - e.g. Ca-Si-Insulation at the interior side. Also, for the sauna pavilions the option was for the insulation at the interior side, because these don't have to be used regularly. Their designed also considered the fixture of the hill they are lying in.

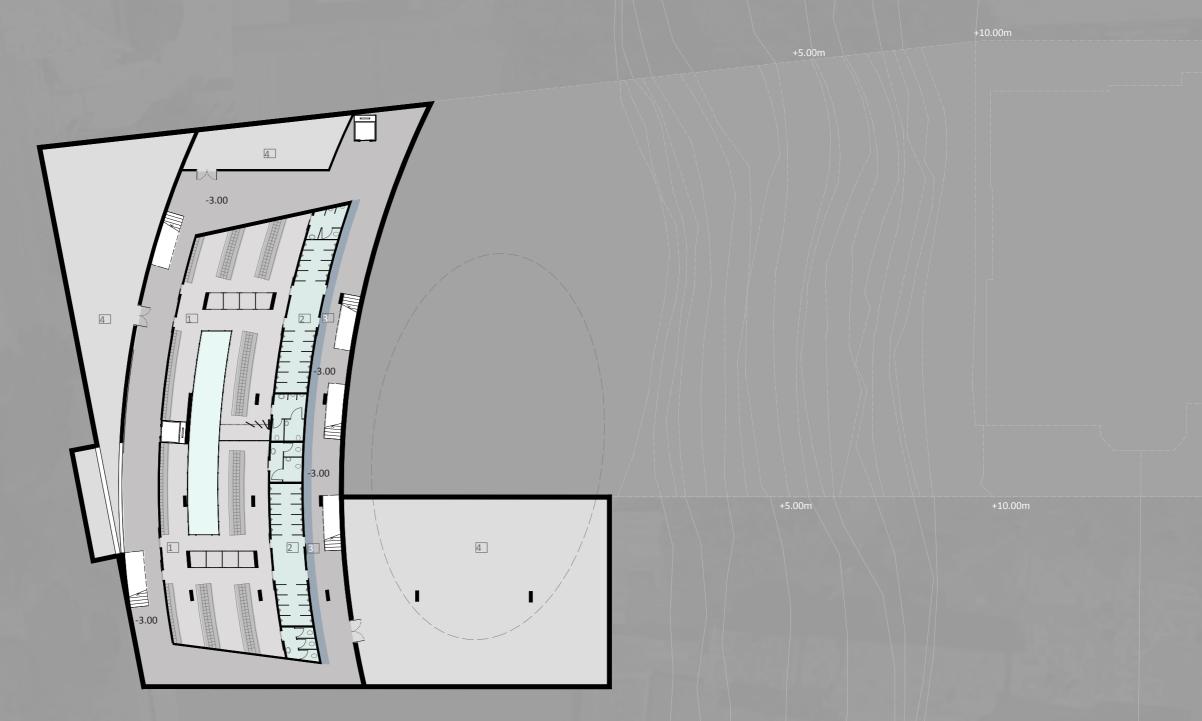


UNDERGROUND FLOOR

- Changing Rooms 337.00m²
 Showers/Toilets 123.00m²
- WaterSurface 35.70 m²

405.73m²

0 1 2 5



GROUND **FLOOR** 3. Ticket Shop 50.00m² Lying Area 707.90m² Outdoor Area 539.00m² Dis. WC 9.00m² WC Man 6.80m² 14. First Aid Room 6.50m² 17.Sauna Relaxing Area 78.45m² Whirlpool 10.00m² Finnish Sauna 16.00m² Bio Sauna 16.00m² 0 1 2 5

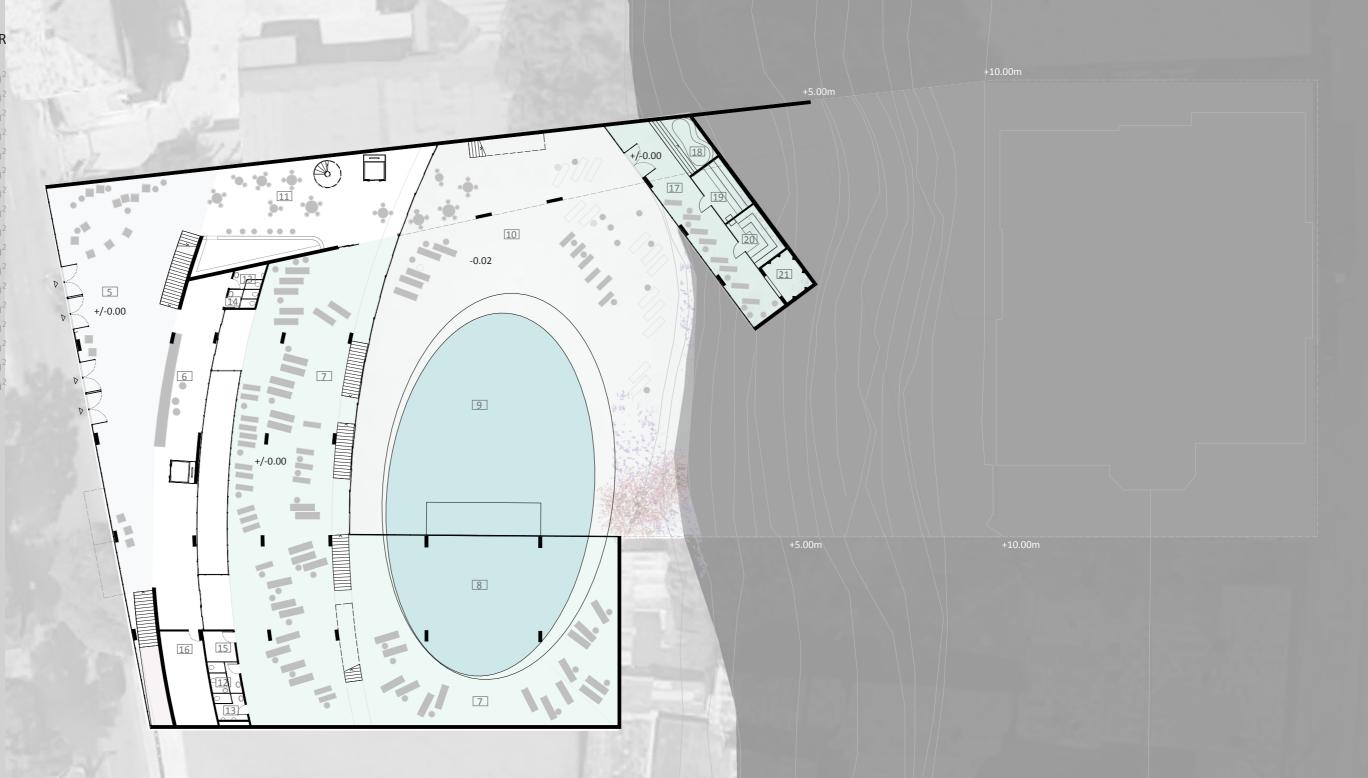


Fig. E.3

FIRST **FLOOR** Whirlpool XXm² Personal Area 276.60m² 24. Lying/Sitting Area 108.70m² Quiet Room 20.00m² Relaxing Room 22.00m² 27. Herbal Sauna 16.50m² Infra-red Sauna 14.00m² Turkish Bath 20.00m² 31. Aroma-SteamRoom16.00m²

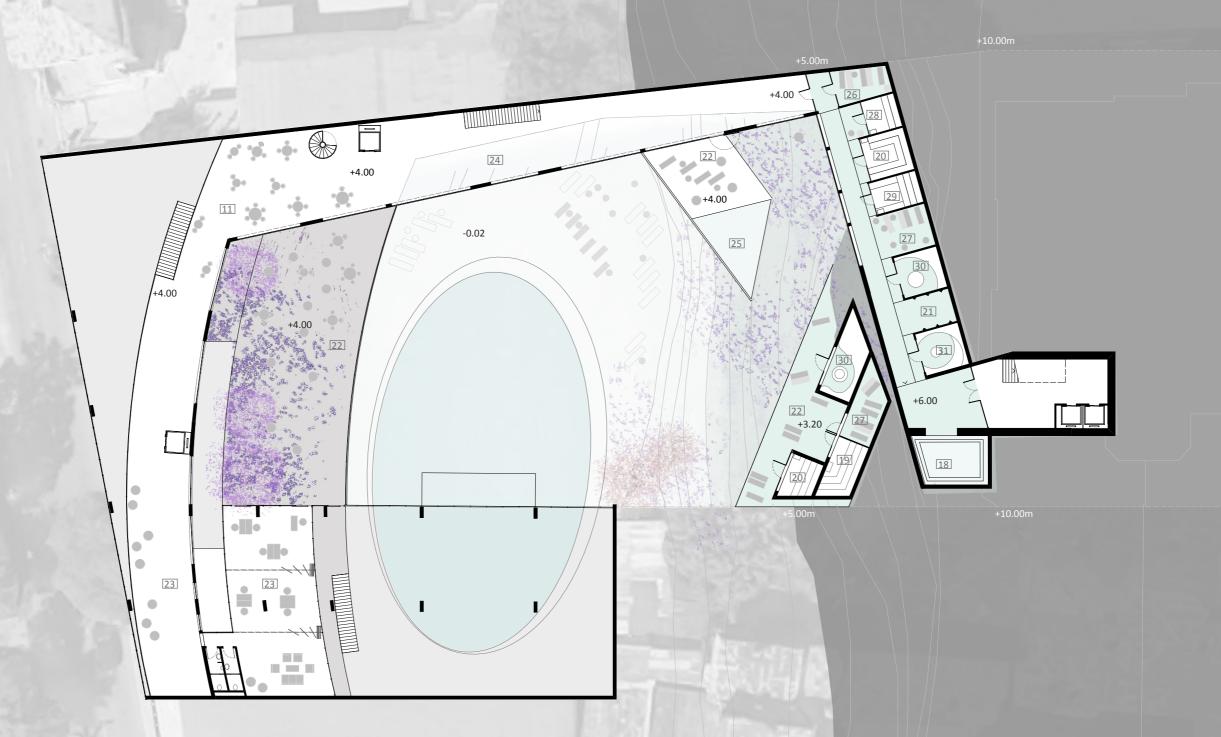
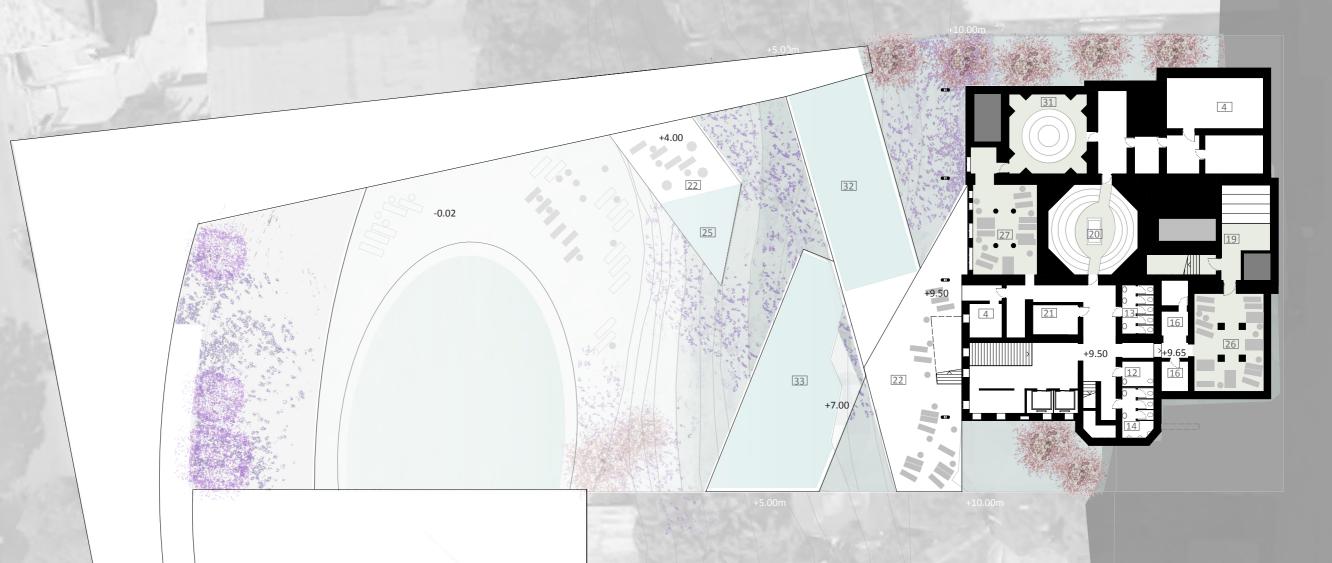


Fig. E . 4

0 1 2 5

5. GARDEN FLOOR EXISTING BUILDING

4. Technical Room 99.50m²
12. Dis. WC 7.00m²
13. WC Man 13.30m²
14. WC Woman 13.50m²
16. Storage Room 20.50m²
19. Finnish Sauna 33.50m²
20. Bio Sauna 57.60m²
21. Showers 20.00m²
22. Terrace 165.00m²
25. Salted Water Pool 32.00m²
26. Quiet Room 59.00m²
27. Relaxing Room 50.00m²
31. Steaming Room 51.00m²
32. Selenium Pool 133.00m²
33. Therapy Pool 172.00m²





6. GROUND FLOOR EXISTING BUILDING

13. WC Man 7.00m²
14. WC Woman 10.00m²
19. Finnish Sauna 13.00m²
20. Bio Sauna 9.00m²
22. Terrace 165.00 m²
25. Salted Water Pool 32.00m²
26. Quiet Room 60.00m²
27. Relaxing Room 62.00m²
30. Turkish Bath 60.00m²
34. Aromatherapy Bath 57.00m²
35. Provence Sauna 7.00m²
36. Salt Therapy Sauna 13.00m²
37. Thermal Water Pool 11.00m²
38. Massage Room 40.00m²





7. TOP FLOOR EXISTING BUILDING

- 13. WC Man 7.00m²
 14. WC Woman 10.00m²
- 22. Terrace 73.00m
- 39. Kitchen 50.00m²
- 40. Restaurant 256.00m²





III. SECTIONS

1. SECTION 1

0 1 2 5



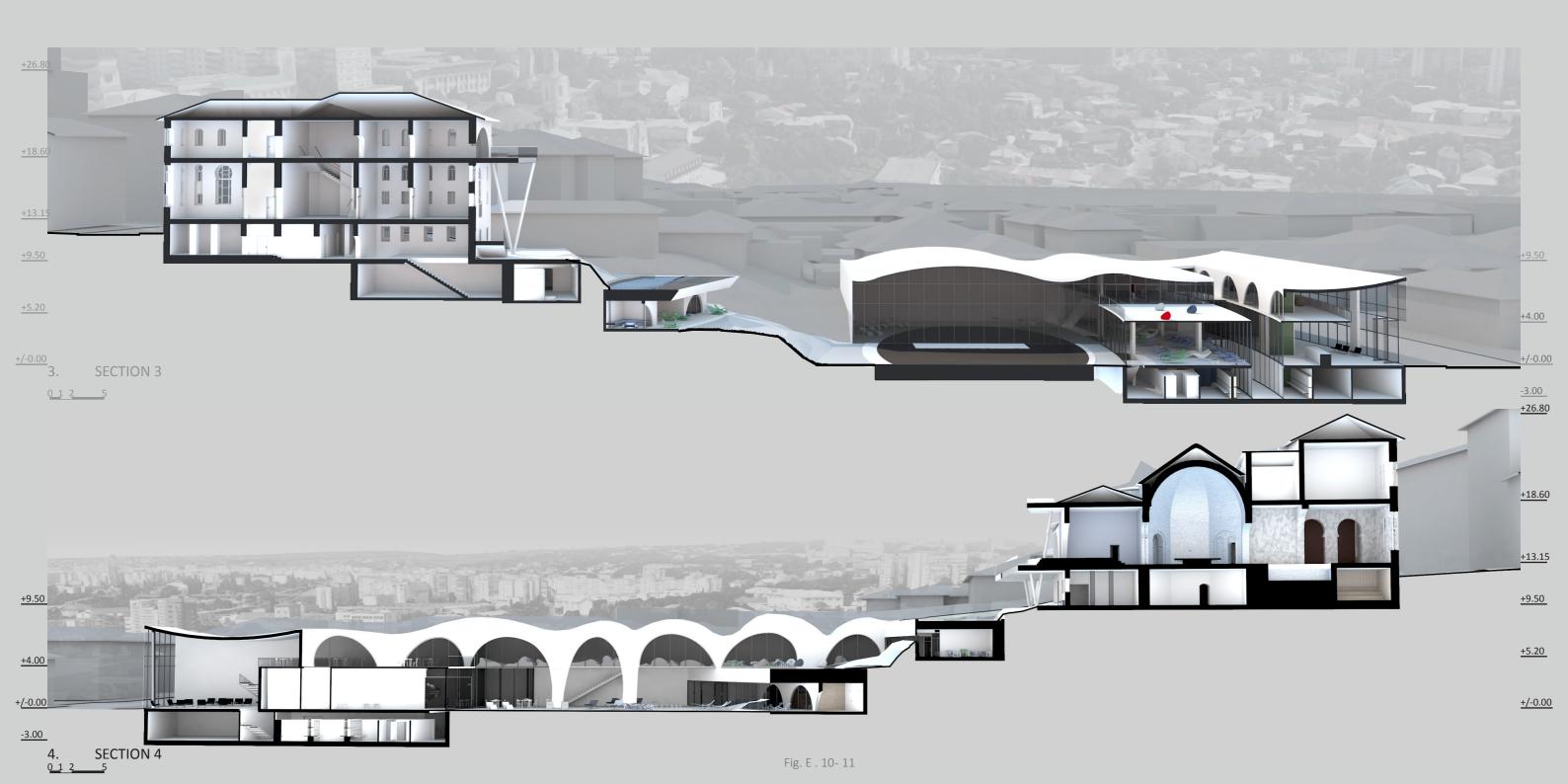
+4.00

+/-0.00

-3.00

SECTION 2

Fig. E . 8-9



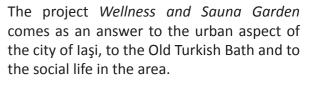
IV. FACADES

IV. FACADE MAIN ENTRANCE

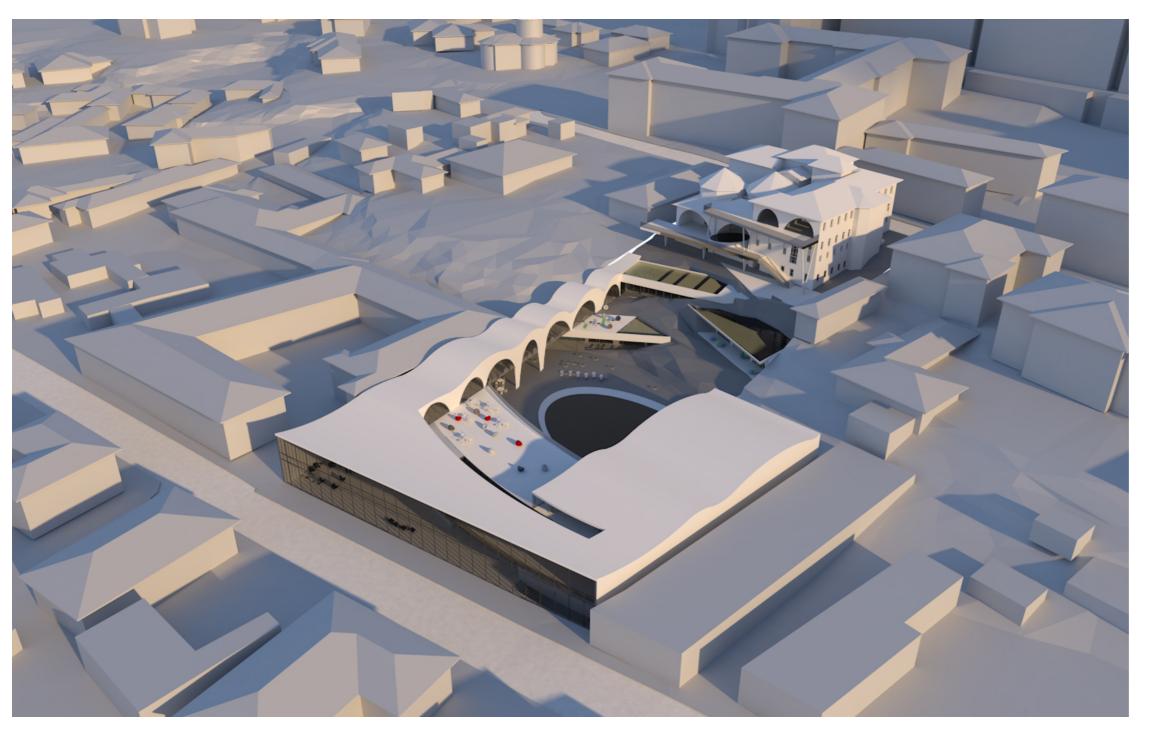








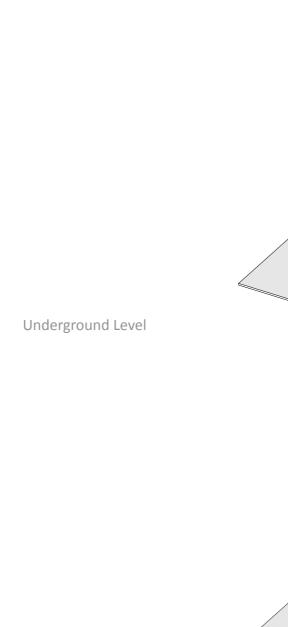
It combines the understanding of discovering and rediscovering a place, the experience of a large SPA variety combined with an interesting architecture and large panorama views.



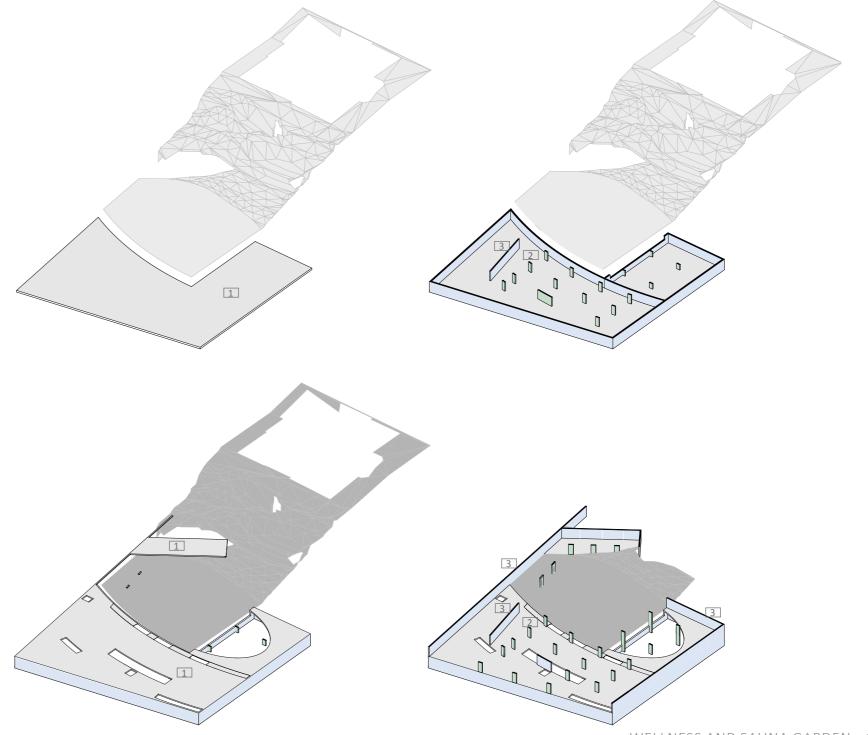
F. CONSTRUCTION

I. STRUCTURE

- STB Decke
 STB Stützen
- 3. STB Wände

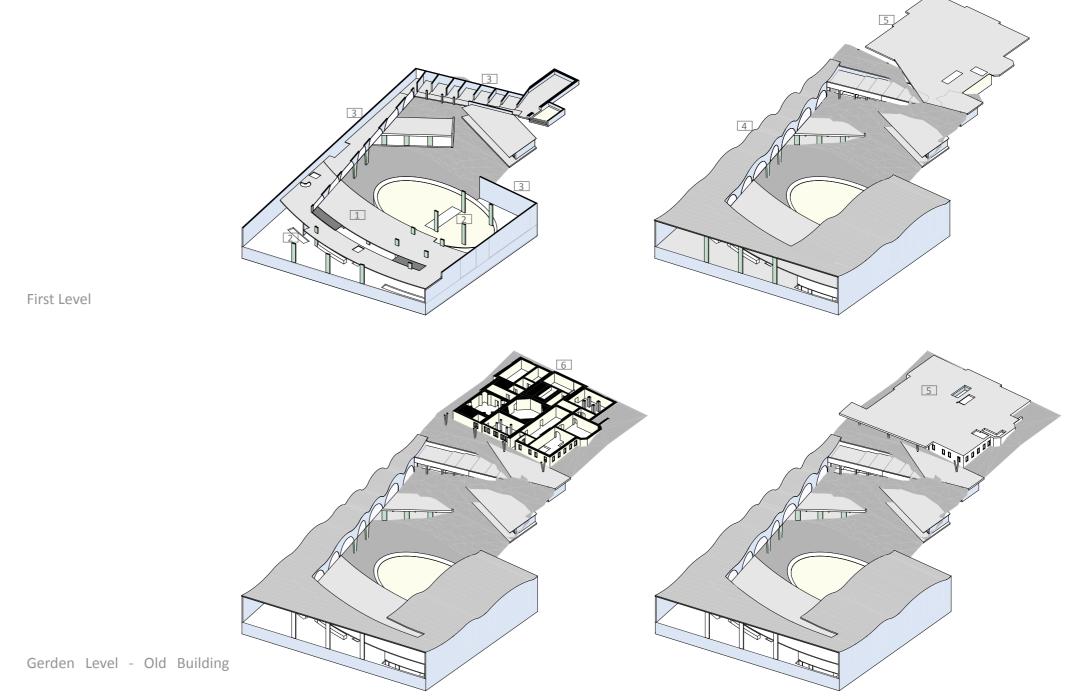






I. STRUCTURE

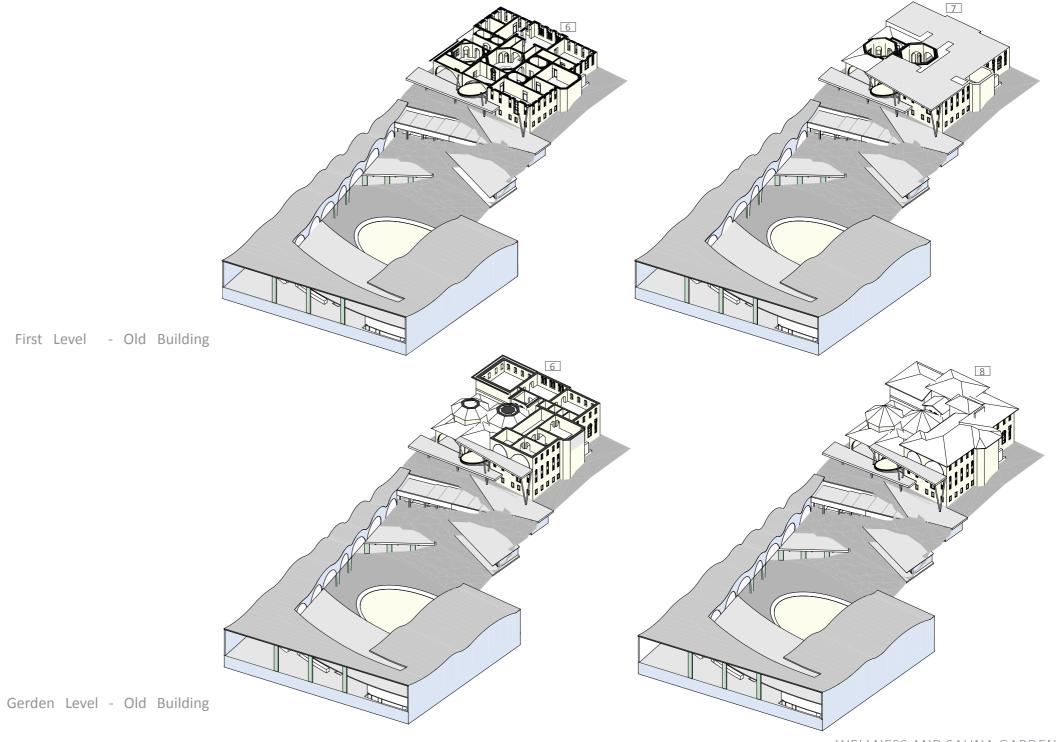
STB Decke
STB Stützen
STB Wände
STB Dachschale
Ziegeldecke
Ziegel / Sandstein Wand



105 Fig. F . 1

I. STRUCTURE

1. STB Decke
2. STB Stützen
3. STB Wände
4. STB Dachschale
5. Ziegeldecke
6. Ziegel / Sandstein Wand
7. STB Decke - Old Building
8. Metaldach-Holzstruktur



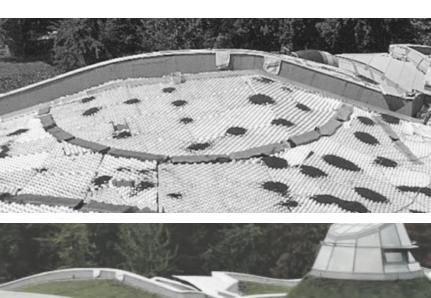
II. ROOF SHELL CONSTRUCTION

The concrete shell lays direct on the structural walls. It is supposed to be constructed directly on the site, with the help of the wooden form-works.

The maximal slope of the roof is less than 20° so that the drainage layer can lay directly on the roof, without any additional fixture. That makes the roof construction in the parameters of a simple one, with the specific layers, and without any extra support.

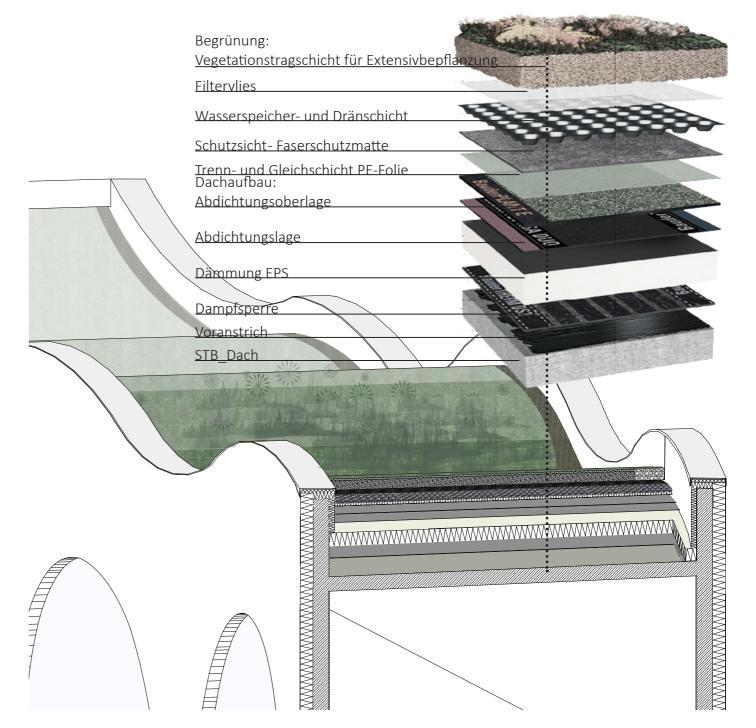
The drainage installation for the pluvial water is located at the lowest points of the roof construction, where two slopes meet.

The example of the studied green roof shell is the one from Vancouver, Canada, the Van Dusen Botanical Garden.





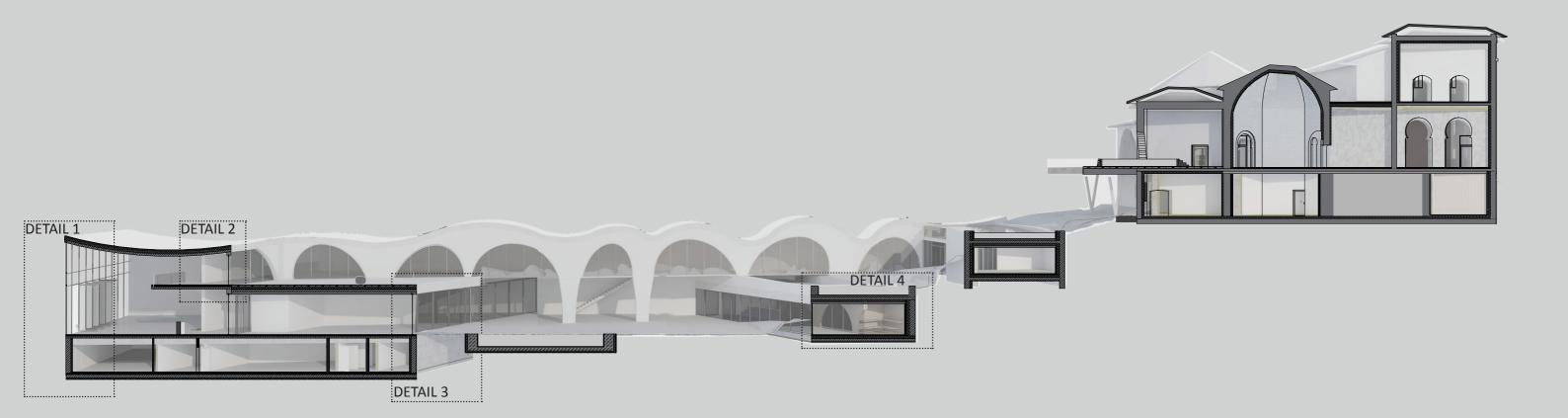




http://www.baulinks.de/webplugin/2013/1010.php4

109 Fig. F. 2 WELLNESS AND SAUNA GARDEN 110

III. DETAILS -MAIN SECTION



1. ENTRANCE

1. DACHSCHALE

Vegetationstragschicht
für extensivbepflanzung 100mm
Filterschicht- Filtervlies
WasserspeicherDränschicht 50mm
Schutzschicht- Faserschutzmatte
Trennfolie PE-Folie 5mm
Abdichtung Bitumenbahn 2-lagig 3mm
Dämmung EPS 200mm
Dampfdruckausgleichschicht
STB-Dach 200mm
Innenputz

2. DECKE ZU BEHEITZTEM KELLER

Fliesen 15mm
Heizestrich 20mm
Systemplatten 20mm
Trennlage PE-Folie
Trittschaldämmung 20mm
PE-Folie

Niveauausgleich Styropor Beton

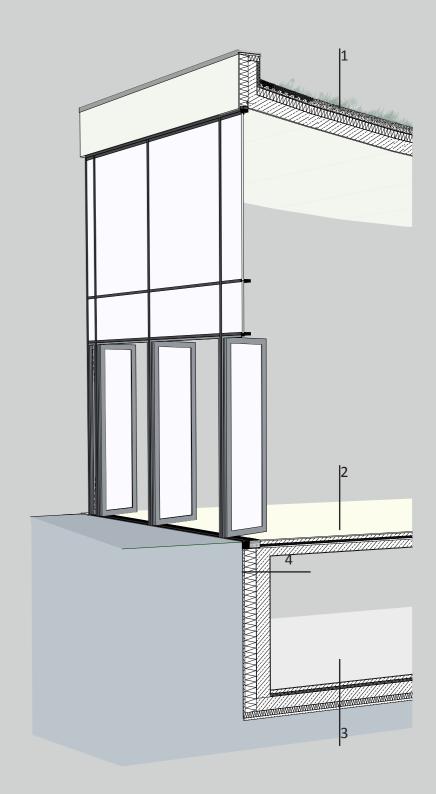
STB-Decke 160mm Innenputz 5mm

3. KG-FUNDAMENT

Fliesen 15mm
Heizestrich 20mm
Systemplatten 20mm
Trennlage PE-Folie
Trittschalldämmung 30mm
Dampfbremse PE-Folie
Niveauausgleich 50mm
STB-Platte 250mm
Dämmung XPS 100mm
Sauberkeitschicht 50mm
Erdreich

4. SOCKELBEREICH WAND ZU BEHEIZTEM KELLER

Drainagematte mit Filtervlies 25mm
Dämmung XPS 100mm
Abdichtung 2XPE-Folie 3mm
Stahlbetonwand 400mm
Innenputz 5mm



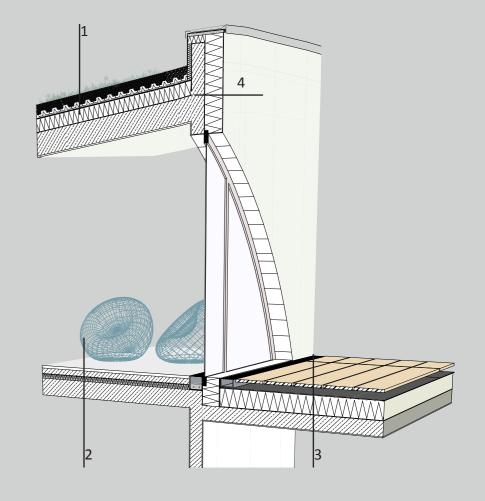
2. TERRACE

1. DACHSCHALE

Begrünung	
Vegetationstragschicht	
für extensivbepflanzung	100mm
Filterschicht- Filtervlies	
Wasserspeicher- und Dräns	schicht 50mm
Schutzschicht- Faserschutz	matte
Trennfolie PE-Folie	5mm
Abdichtung Bitumenbahn	2-lagig 3mm
Dämmung EPS	200mm
Dampfdruckausgleichschic	ht
STB-Dach	200mm
Innenputz	10mm

STB-Dach		200mm
Innenputz		10mm
2.	DECKE	EG-OG
Fliesen		15mm
Heizestrich		20mm
Systemplatten		20mm
Trennlage PE-Folie		
Trittschaldämmung		40mm
PE-Folie		
Niveauausgleichsch	nicht	
STB-Decke		160mm
Innenputz		5mm

1.	TERRASSE	ÜBER EG
Bohlen Holzkonstru	ıktion	15mm 120mm
Vlies Dämmung 2		200mm
	kausgleichschid	cht
Gefällebeto STB-Platte	n 2%Neigung	2 0 m m 200mm
Abgehängte (inkl. Install		180mm
4.	AUS	SSENWAND
Außenputzs	system	15mm
Wärmedäm	nmung	150mm
STB-Wand		150mm



3. GARDEN - FACADE AND POOL

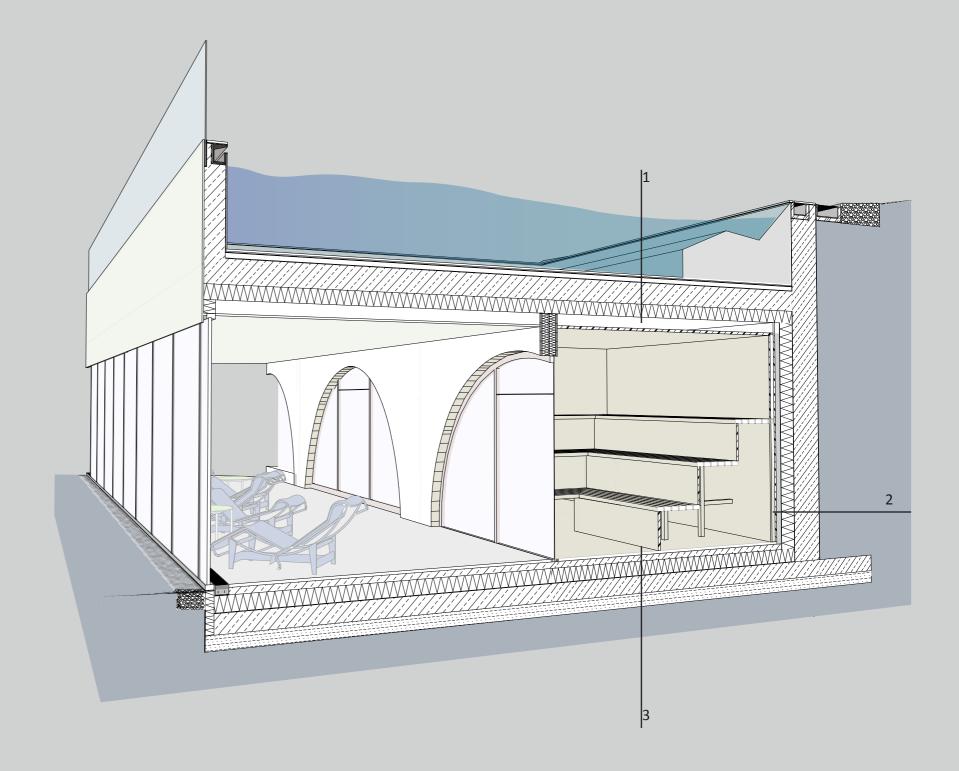
							Į.
							777
1. TERRASSE	ÜDED EG	3. KG-FL	JNDAMENT	5. POC	DL - WAND	6. POC	DL-DECKE
I. IENNASSE	OBEN EG	5. KU-FC	JNDAWENT	5. POC	DL - VVAIND	O. POC	JL-DECKE
Bohlen	15mm	Fliesen	15mm	Erdreich		Fliesen	15mm
Holzkonstruktion	120mm	Heizestrich	20mm	Drainagematte	20mm	Epoxidharzmörtel	10mm
Filtervlies		Systemplatten	20mm	Abdichtung Bitumenbahr	n 2X15mm	Schutzspachtelung	
Dämmung XPS	200mm	Trennlage PE-Folie		Wärmedämmung XPS	120mm	Folienabdichtung	
Abdichtung		Trittschalldämmung	30mm	WU-Beton Wand	500mm	Untergrundspachtelung un	d
Dampfdruckausgleichschich		Dampfbremse PE-Folie		Ausgleichputz	20mm	Spezialgrundierung	F
Gefällebeton 2%Neigung	2 0 m m	Niveauausgleich	50mm	Untergrundspachtelung ur	nd	Verbundabdichtung	
STB-Platte	200mm	STB-Platte	250mm	Spezialgrundierung		Gefällebeton	0.00
Abgehängte Decke	180mm	Dämmung XPS	100mm	Folienabdichtung		WU-Beton	300mm
(inkl. Install. Ebene)		Sauberkeitschicht	50mm	Schutzspachtelung	10	Dämmung XPS	160mm
2. DECKE ZU BEHEITZTE	M KELLED	Erdreich		Epoxidharzmörtel Fliesen	10mm 15mm	PE-Folie	
Z. DECKE ZU BEHEITZTE	(UG-EG)	4. SOCKELE	DEDELCH	Fileseii	TOIIIII	Magerbetonschicht Schotter	
Fliesen	15mm	WAND ZU BEHEIZTEN				Erdreich	
Heizestrich	20mm	WAND ZO BLITEIZTEN	/I KLLLIN			Lidieidi	
Systemplatten	20mm	Erdreich					
Trennlage PE-Folie	2011111	Drainagematte mit Filtervli	ies 25mm				
Trittschaldämmung	20mm	Dämmung XPS	100mm				
PE-Folie	2011111	Abdichtung 2XPE-Folie	3mm				
Niveauausgleich Styropor Be	eton 50mm	Stahlbetonwand	400mm				
STB-Decke	160mm	Innenputz	5mm				
Innenputz	5mm						

Fig. F . 6

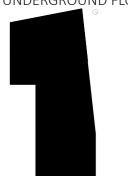
4. SAUNA PAVILION

1.	POOL - I	DACH -	SAUNA
Marmor Dünnbettmört Verbundabdic		-Folie	20mm
Verbundestric STB-Dach Wärmedömmi Luftschicht Abgehängte D	h gefälle ung XPS		40mm 200mm 200mm 150mm 15mm
3.	SAUNA	ERDE	DECKE
Holzbodenbela Heizestrich Systemplatten Trennlage PE-F			15mm 20mm 20mm
Dämmung XPS Abdichtung			200mm
STB-Platte Sauberkeitschi	icht		200mm 50mm

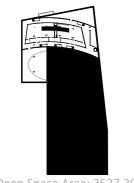
2.1	WAND	-	ERDE
Erdreich Filtervlies Abdichtung STB- Wand Abdichtung Dämmung X Luftspalt	2		2X15mm 400mm PE Folie 200mm 50mm
2.2 OSB-Platten PE-Folie		SAU	NAWAND 10mm
Spannlatten (mit Mineral Profilbretter	wolle)		50mm



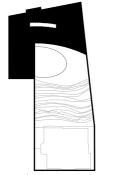
IV. FLOOR AREA UNDERGROUND FLOOR



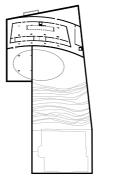
Plot:5245,50m²



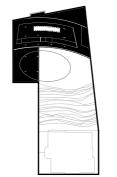
Open Space Area: 3527,30m²



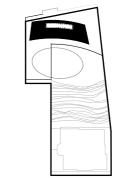
Gross Floor Area: 1741,53m²



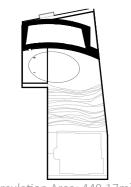
Structure Area: 130,52m² 7,46% from GFA



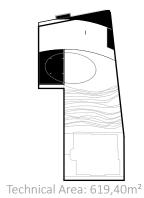
Net Floor Area: 1611,01m² 92,53% from GFA



Usable Floor Area: 543,44m² 31.18% from GFA

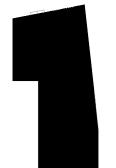


Circulation Area: 448,17m² 25.73% from GFA

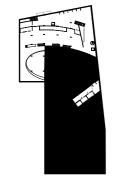


35.55% from GFA

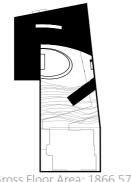




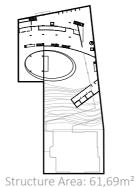
Plot:5245,50m²



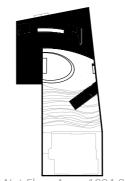
Open Space Area: 332,654m²



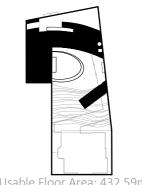
Gross Floor Area: 1866,57m²



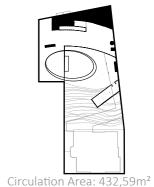
3.26% from GFA



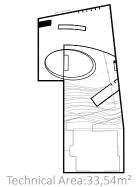
Net Floor Area: 1804,88m² 96.67% from GFA



Usable Floor Area: 432,59m² 71.70% from GFA

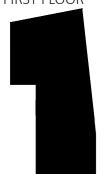


23.15% from GFA

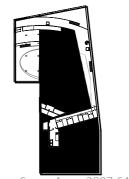


1.76% from GFA

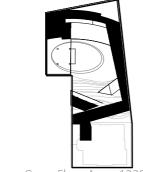
FIRST FLOOR



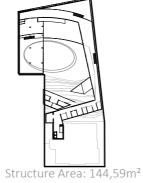
Plot:5245,50m²



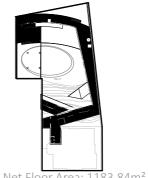
Open Space Area: 3087,64m²



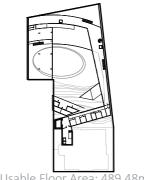
Gross Floor Area: 1328,43m²



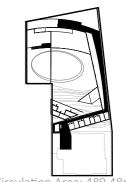
10.84% from GFA



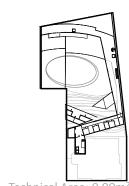
Net Floor Area: 1183,84m² 89.15% from GFA



Usable Floor Area: 489,48m² 52.25% from GFA



Circulation Area: 489,48m² 36.82% from GFA



Technical Area: 0,00m²

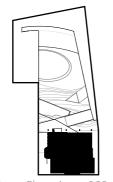




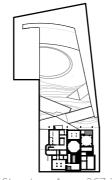
Plot:5245,50m²

Open Space Area 2628

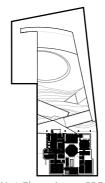
Open Space Area: 2628,24m²



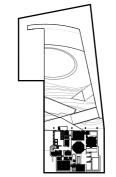
Gross Floor Area: 902,42m²



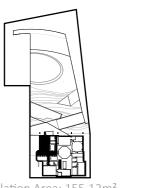
Structure Area: 267,30m² 29.60% from GFA



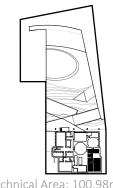
Net Floor Area: 635,12m² 70.39% from GFA



Usable Floor Area: 389,02m² 43.12% from GFA



Circulation Area: 155,12m² 16.07% from GFA

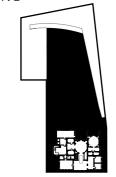


Technical Area: 100,98m² 11.08% from GFA

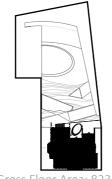
GROUNDFLOOR- OLD BUILDING



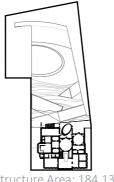
Plot :5245,50m²



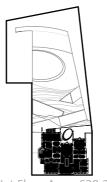
Open Space Area: 2714,33m²



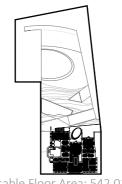
Gross Floor Area: 823,34m²



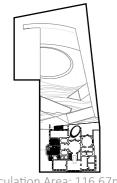
Structure Area: 184,13m² 22.35% from GFA



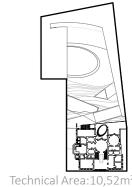
Net Floor Area: 639,21m² 77.64% from GFA



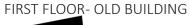
Usable Floor Area: 542,01m² 65.85% from GFA



Circulation Area: 116,67m² 14.09% from GFA



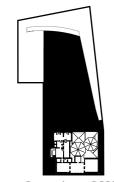
1.21% from GFA





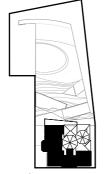
Plot:5245,50m²

TOTAL Plot :5245,50m²



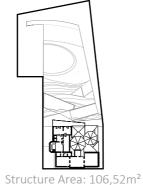
Open Space Area: 2608,02m²





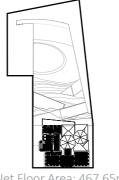
Gross Floor Area: 574,17m²





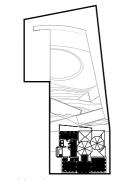
Structure Area: 106,52r 18.46% from GFA

Structure Area: 894,75m² 12.35% from GFA



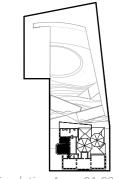
Net Floor Area: 467,65m² 81.35% from GFA

Net Floor Area: 6341,71m² 87.63% from GFA



Usable Floor Area: 376,65m² 65.50% from GFA

Usable Floor Area: 3884,23m² 53.67% from GFA



Circulation Area: 91,00m² 15.85% from GFA

Circulation Area: 1723,03m² 23.81% from GFA

Technical Area: 0,00m²

Technical Area: 764,44m²
10.55% from GFA

G. PERSPECTIVE VIEWS

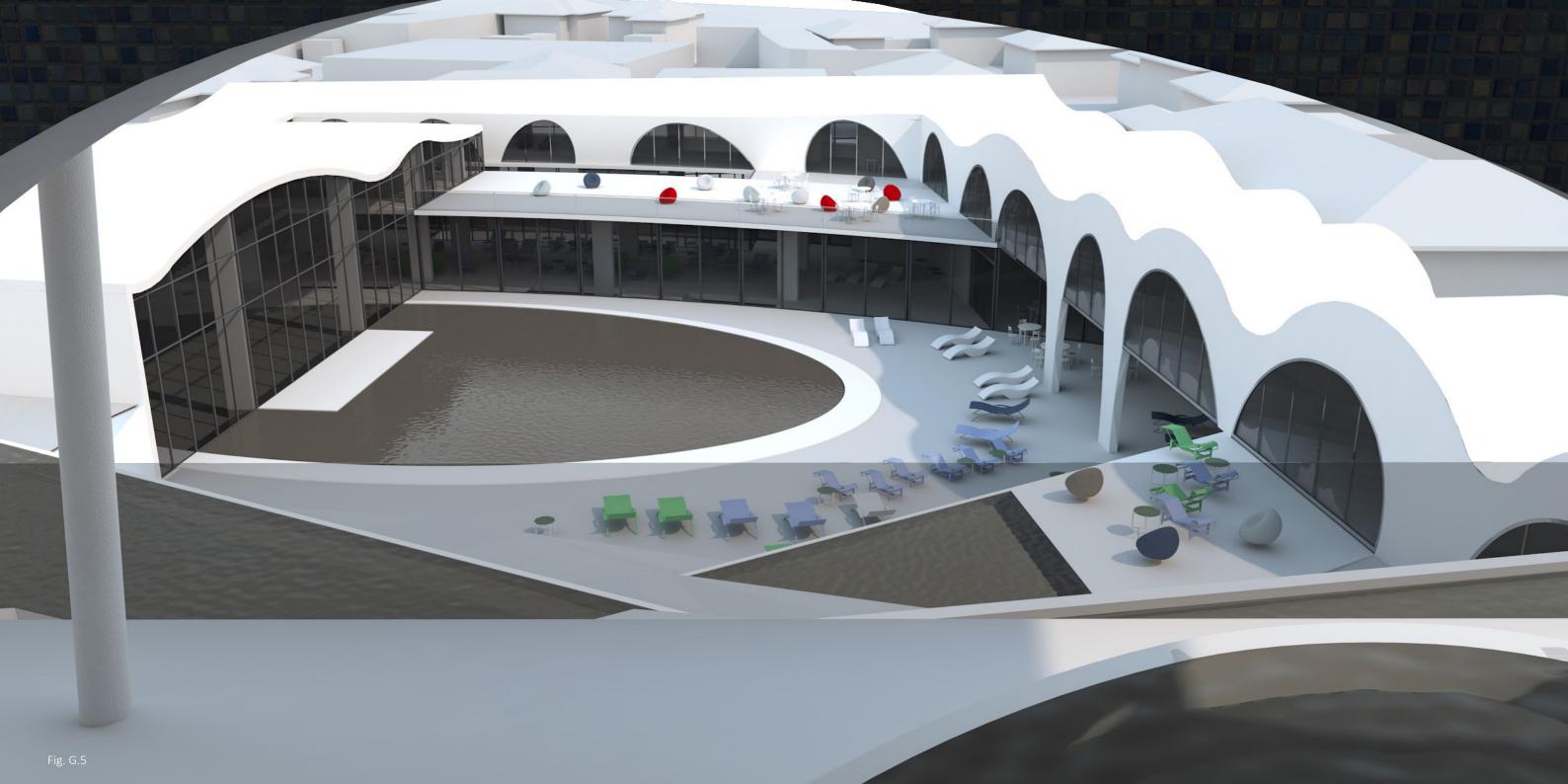




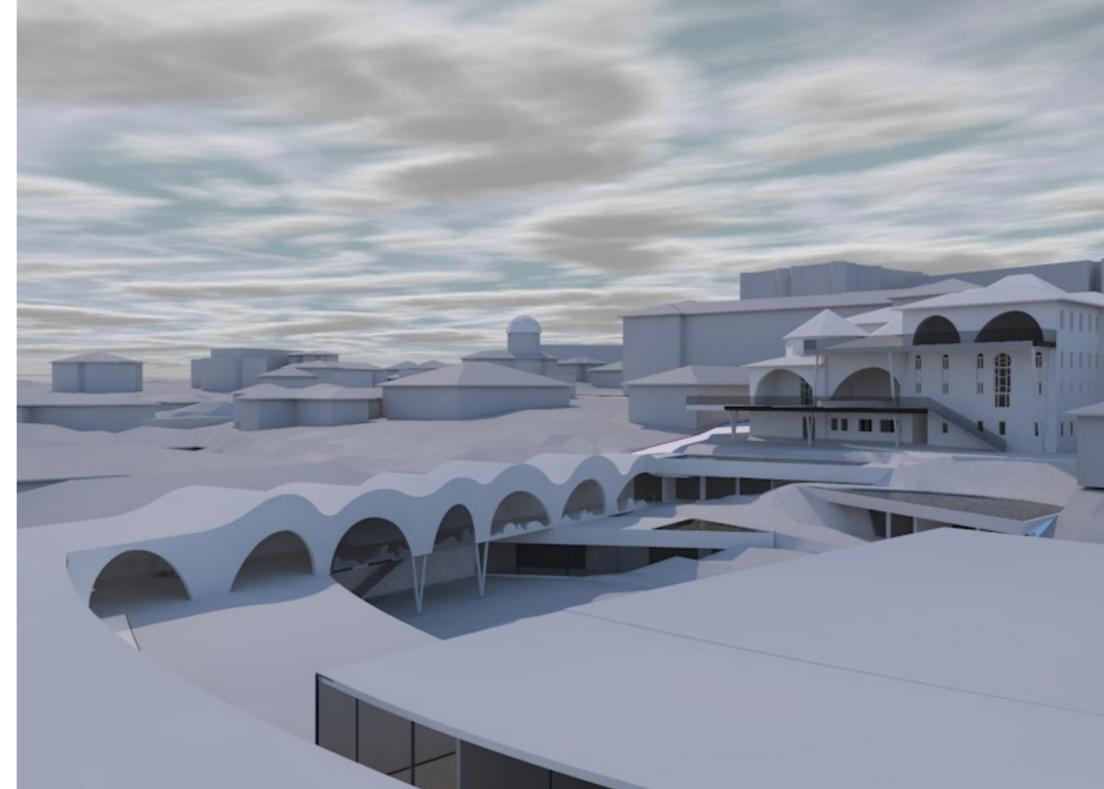
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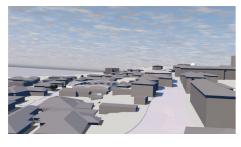




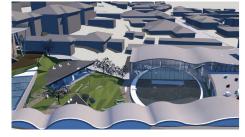




FILM SEQUENCES





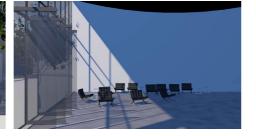








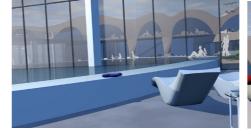




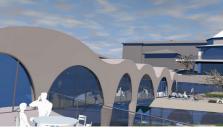








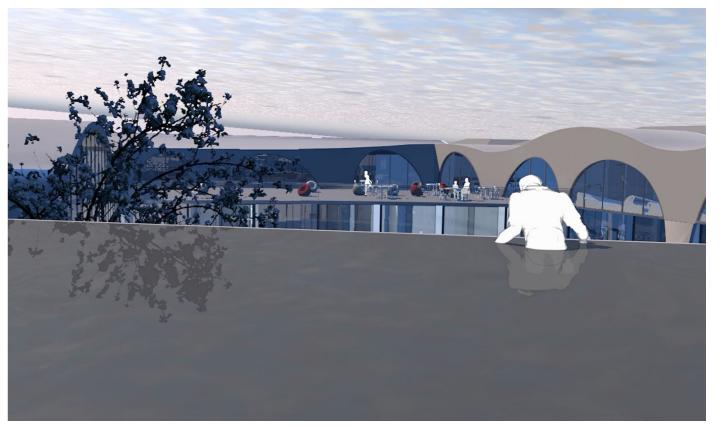












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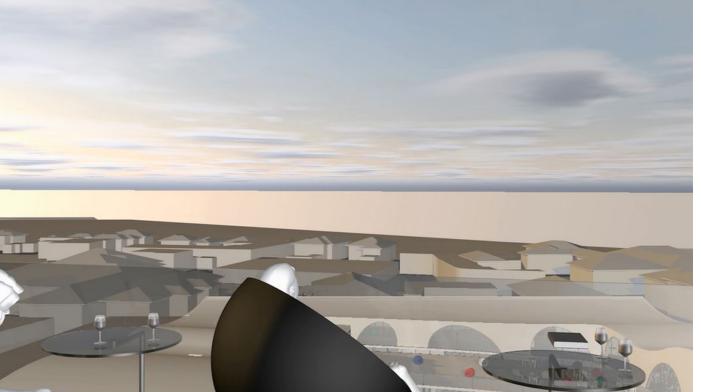


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Thank you!

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Adobe Indesign CS6 - sehr gut	Adobe Illustrator CS6	- sehr gut
Microsoft Office Word - sehr gut	Microsoft Excel	- sehr gut
Rhino 4 , Grasshopper - gut	Cinema4D	- gut

Besondere Kentnisse

Rumänisch - Muttersprache	
Portugiesisch - gut	

Deutsch - sehr gut Italienisch - gut Adobe Photoshop CS6 - sehr gut Adobe Premiere Pro CS6 - gut Microsoft Power Point - sehr gut

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