

BERAT - TOWN OF A THOUSAND WINDOWS A NEW WINDOW TO THE TOWN

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A_ Description of the design concept

Short introduction about Berat:

Berat is a small city located in the south of Albania and one of the most historical of the country, part of the Unesco World Heritage Sites. Descending from the model of a Ottoman city, it has many religious buildings and ancient city walls.

The Osumi river, a tributary of the Seman which crosses southern Albania, cuts through the city.

A small island, that often changes its outline depending on the

water level of the season, it marks the bend where the river broadens out.

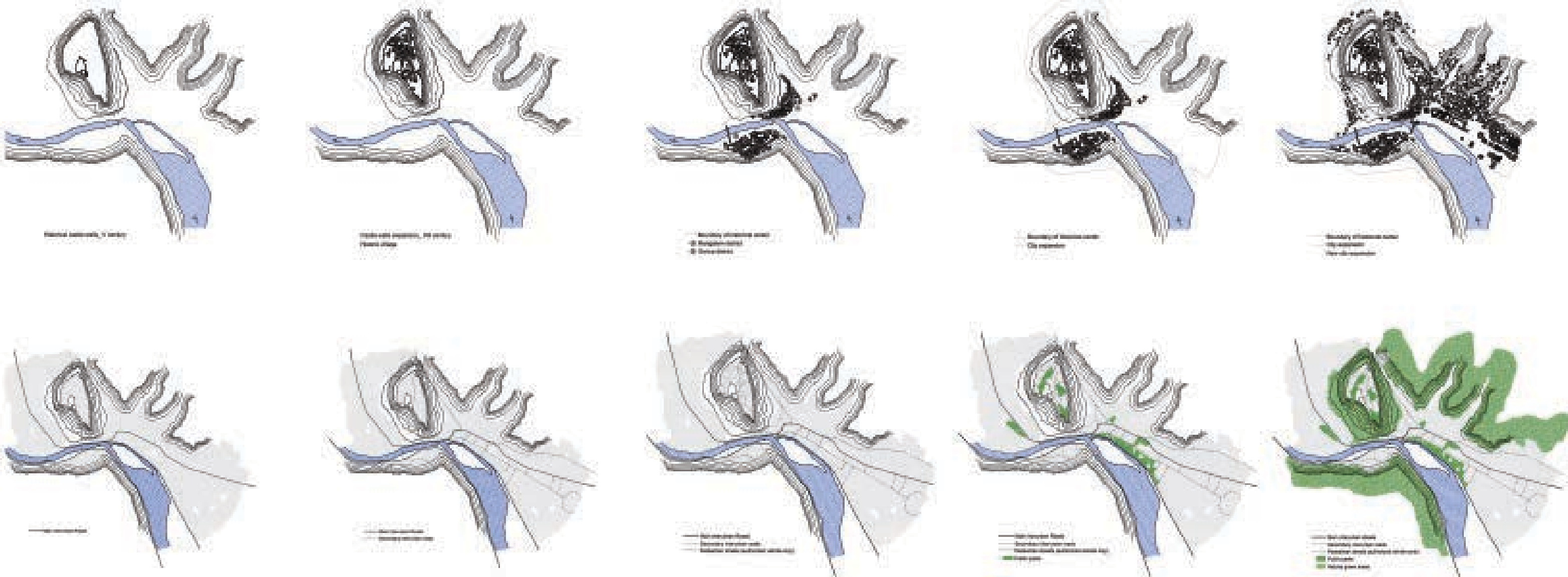
The most significant element of the urban tissue is a series of small white houses covering the steep hillside.

The town is still renowned for its historic architecture and scenic beauty and is known as the "Town of a Thousand Windows", due to the many large windows of the old decorated houses overlooking the town. It is unclear whether it really means "Thousand windows". Indeed, the quarter is built in a very steep place and windows seem to be one over another. Similar views can be seen in Melnik,

Bulgaria, Gjirokastrë in Albania, as well as Catanzaro in Italy, where an Albanian minority once lived.

The presence of the Osumi River, whose route crosses mountains, is a significant element for Berat, not only for the relationship that is normally created between the city and its the river, the through the banks designing the waterfront, but first of all because of the changes in river water flows.

For these reasons the island that faces the city is continuously changing its shape, fighting with the river water level.



General strategy:

The task of the competition is the redesign of the island banks, to become resilient to flooding situations, transforming Osumi Island in a real focal point for the city, not only for citizens, but creating a new landscape element for the whole country.

For all these reasons it is important and necessary to develop a project that enhances the image of the island and of the whole town, but at the same time represents a renewed and more usable functionality in terms of connections and fluxes, creating new opportunities for the city.

For an appropriate redevelopment, it is essential the search for unity and coherence between the different parts: river, island, new town, historical town, mountains and landscape.

For these reasons the intervention in Osumi Island will combine clearly the external environment, designed with natural existing elements, with the building itself. A new image of the interior and exterior spaces in close dialogue with the studied views on the river and on the city, old and new, in order to make the most of all the available elements.

The proposed concept design aims to create a new link, a new connection between the two banks of the river, from the city to the rocky mountain, crossing the island.

We propose a new pedestrian bridge across Osumi river covered in trees and shrubs to span the river between the two banks, as a new landscape element defining "urban by nature".

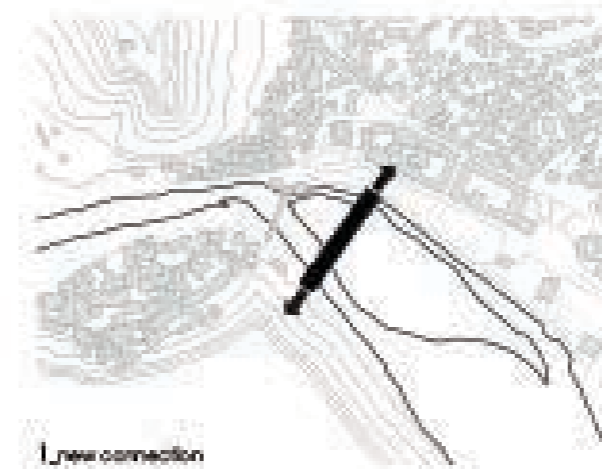
Berat is where it is because of the river osumi. But over many years the human experience of this amazing piece of nature has been marginalised by floods and transport moves.

The historic district of the thousand windows and the new expansion on the other side of the bank are facing but almost isolated

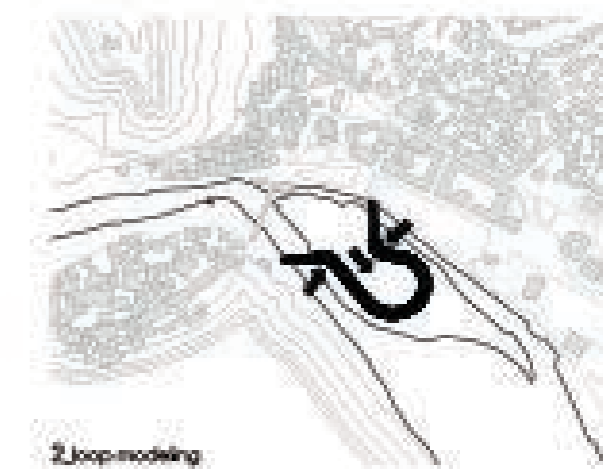
There is now an opportunity to connect this two parts together, better than the existing, to give citizens a huge improvement in the quality of pedestrian river crossing in this area, enhancing the island as a natural park, to allow people to get closer to the river and at the same time to stimulate new regeneration possibilities at both ends where the new bridge lands.



Osumi Island and banks



1_new connection



2_loop modeling



3_new point of view



4_renovation of the island bank



5_bank



Functional program:

The new connection does not have to be seen only as a bridge but as new a landscape, sculptural and architectural building/connector.

The shape of the new bridge is articulated to create a curvilinear pedestrian walkway (500 m long), starting from the level of the city waterfront at + 57.00 m , reaching the top level at 73.25 m (16.25 m slope) and descending to + 57,3 m on the other side.

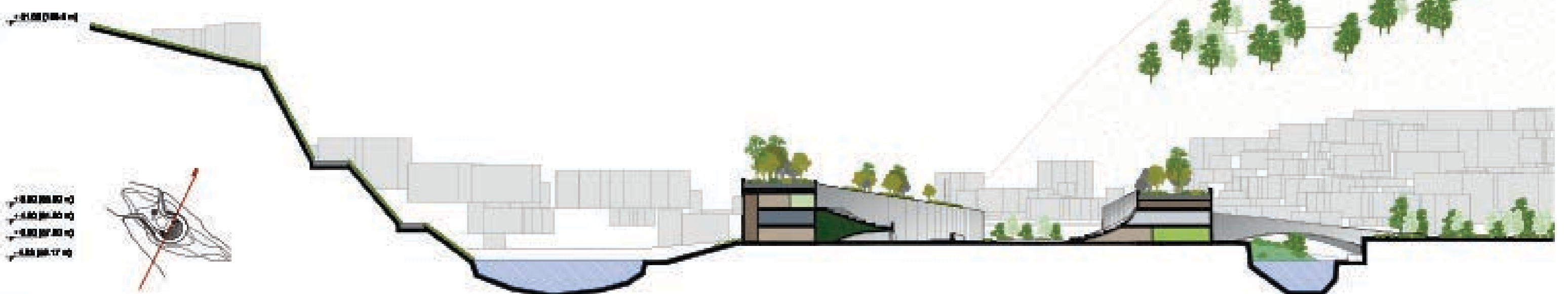
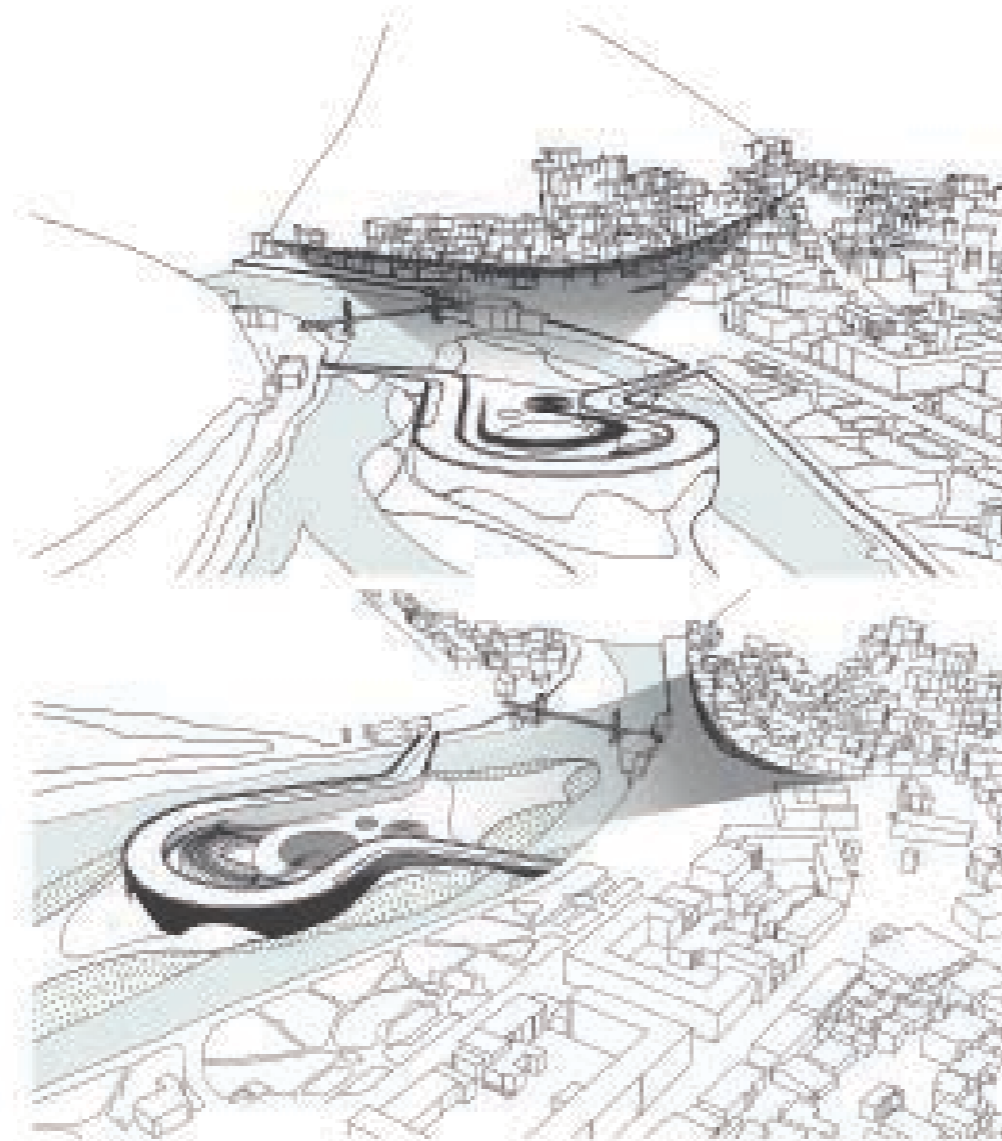
The bridge creates a loop, as a fluid element, that hosts an open theater facing the old town and laying on the island, descending to + 52.8 m.

The new theater, as a polyvalent space inside the park, becomes a new window to Berat, the one thousand windows city.

To develop the potential of the island and of the whole city, the bridge has been designed as a multifunctional element, hosting functions and activities, articulated in 4 levels.

The bridge is a also a driveway link, located under the pedestrian path and covered by the garden, to mitigate the environmental impact of a street crossing the bridge.

This solution ensures the usability of the island for any kind of visitor, and it allows the servicing of the functions located in the bridge/ building.

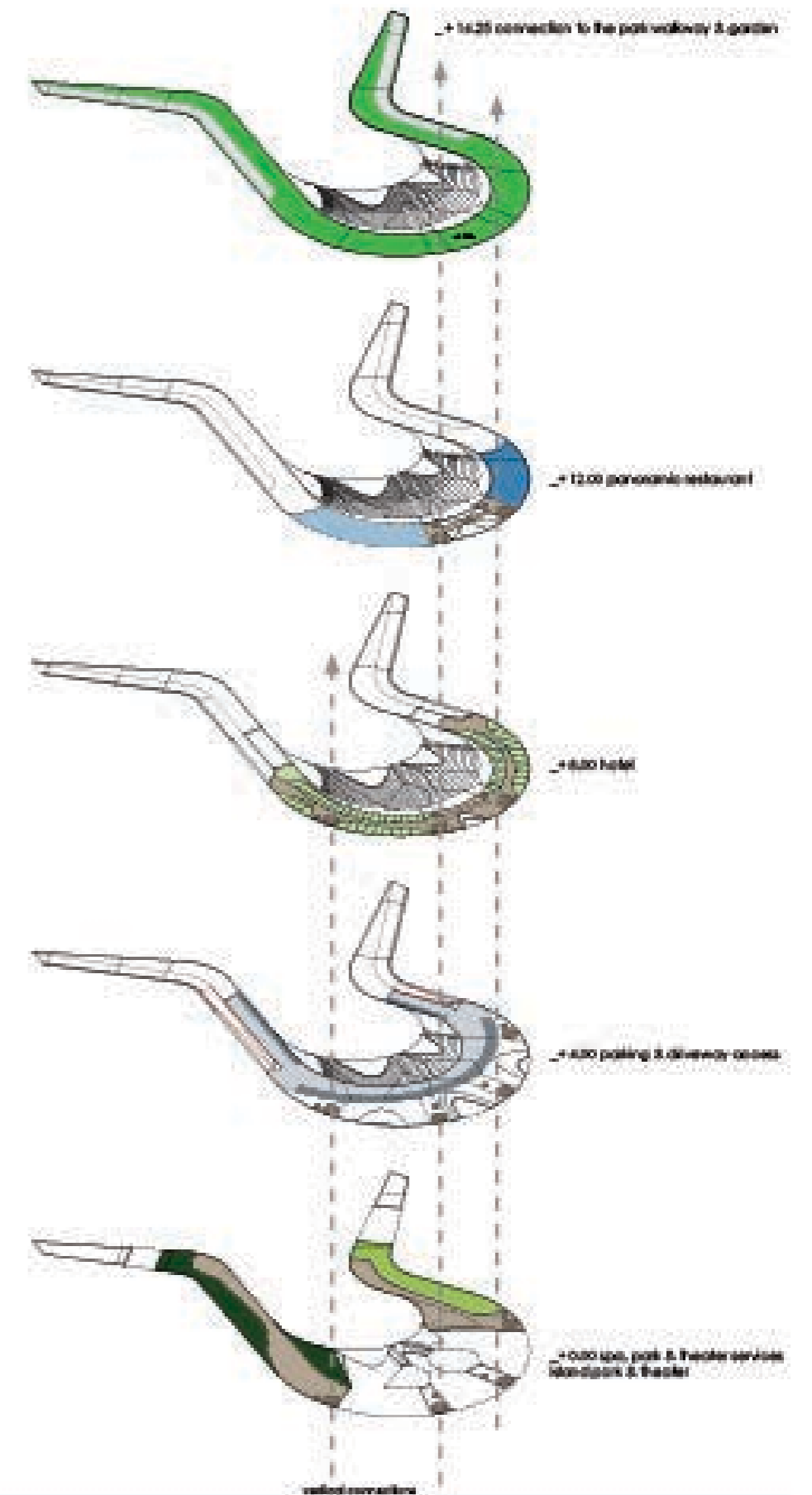
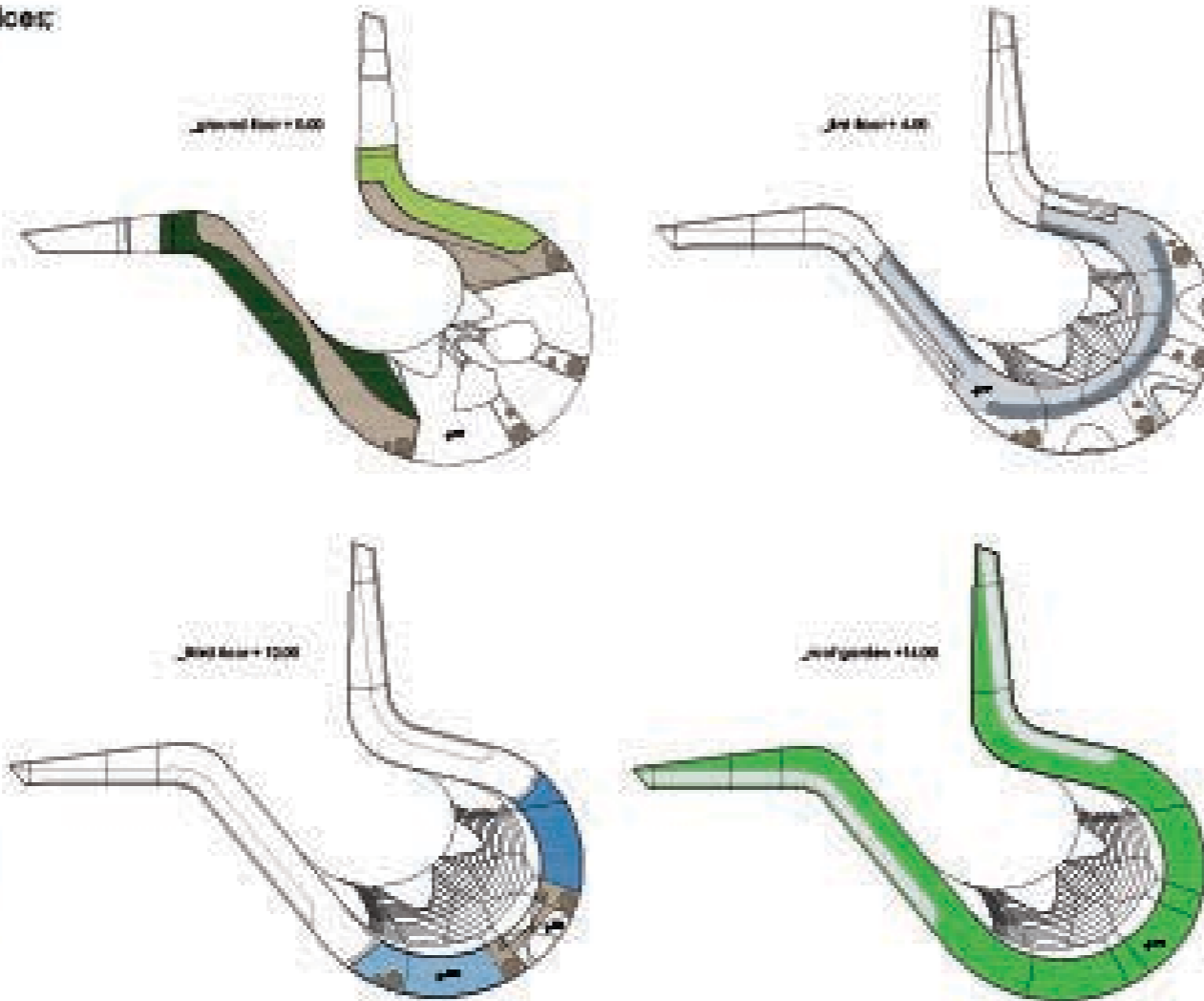


The building hosts:

- services and spaces dedicated to the open theater (ground floor);
- accommodations (restaurant and bar) dedicated to visitors (ground floor);
- services and spaces dedicated to the open theater (ground floor);
- a small spa area connected to the hotel (ground floor);
- a parking on the 1st floor served by the driveway;
- a hotel (2nd floor) provided with lounge and services;
- panoramic bar and restaurant on the 3rd floor;

The unique location of the hotel and services offers the possibility of establishing an intimate dialogue with nature, emphasizing the colours, sensations and atmospheres in an elegant and sometimes surprising way.

- hotelspace
- leather services
- green roof
- spa
- vertical connections
- horizontal connections
- vertical access
- parking
- restaurant
- open area



Objectives:

The idea of bridge/building aims to develop the island as a "pole" for the city and for the territory, as a 24 hours/day living multifunctional element, hosting features and business accommodation now absent in Berat, creating an economic strategy of public/private partnership to share the global cost of the intervention.

This is the first major milestone for the project and marks a very clear intent to create a new landmark not only for Berat, but in a larger territory scale.

The scheme has been shaped and developed into a proposal that will contribute significantly to the future of Berat's development and we are committed to ensuring the NEW Garden Bridge/Building will be something that the whole country can be proud of.

In this vision the new bridge becomes:

- a connection (pedestrian and driveway) between the two banks of the river;
- a green walkway on the whole landscape of the area;
- a park, open to visitors and citizens, with an open theater for special events, festivals and activities;
- a hotel for business and for visitors accommodation;
- a parking dedicated to visitor and tourists;
- a set of activities, connected to the hotel and opened to the park and to citizens.

View of the proposed solution



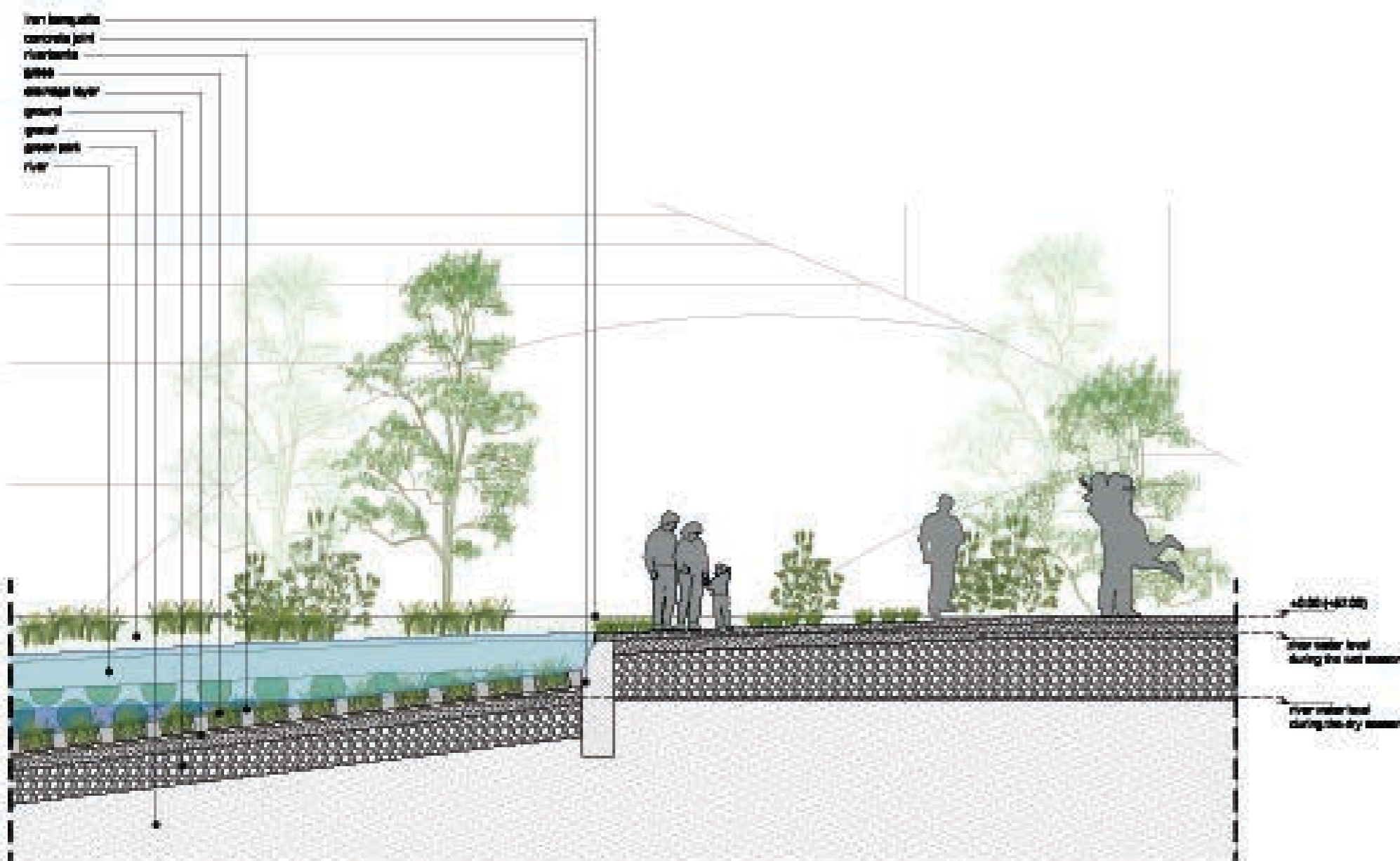
Description of flooding risk prevention strategy:

The redesign of the banks of the island and of the river is a focal point of the project, to preserve the city and the new bridge.

The banks of the island, and of the Osumi river where needed, are redesigned with concrete structure creating a grid that holds the ground, preserving the shape from water floods.

Gaps between the concrete grid are planted with humid shrubbery, compatible with water floods and holding the ground through the roots.

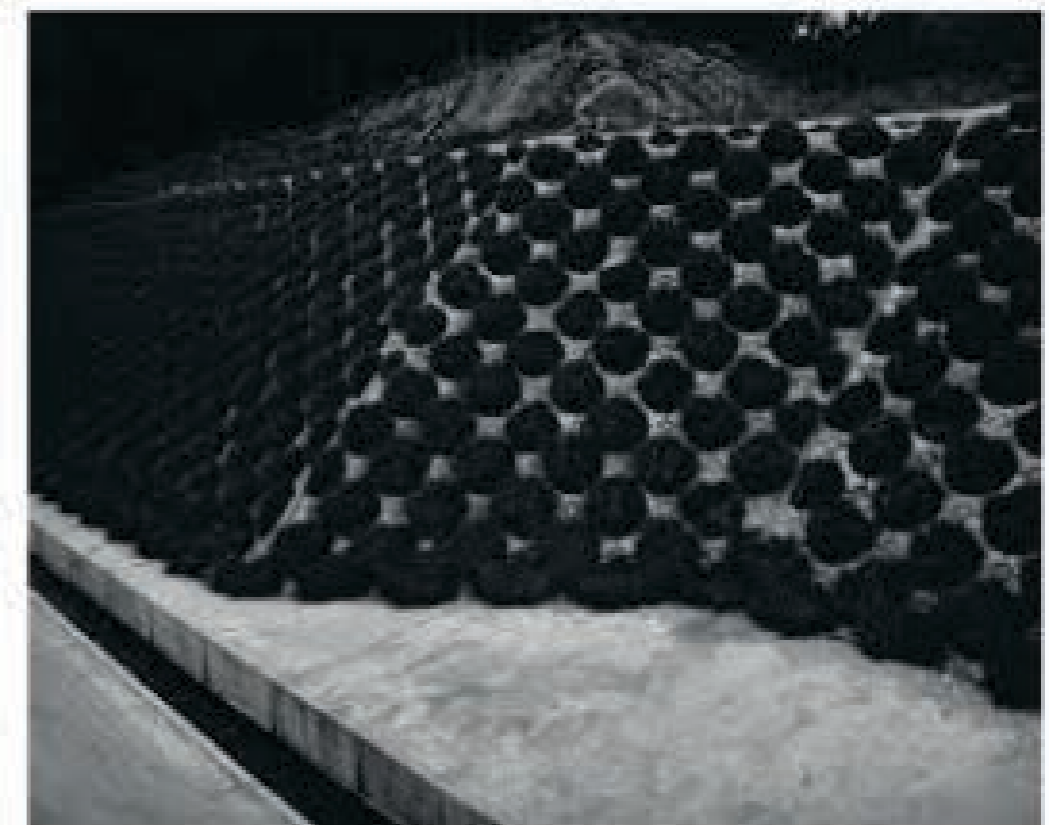
The higher of the new banks is defined starting the historic of water levels in past floods, and it is able to preserve the land of the island, it's shape and the new multifunctional building and both bridge walkway and driveway.



Bank detail



Reference: bank reinforcing structure

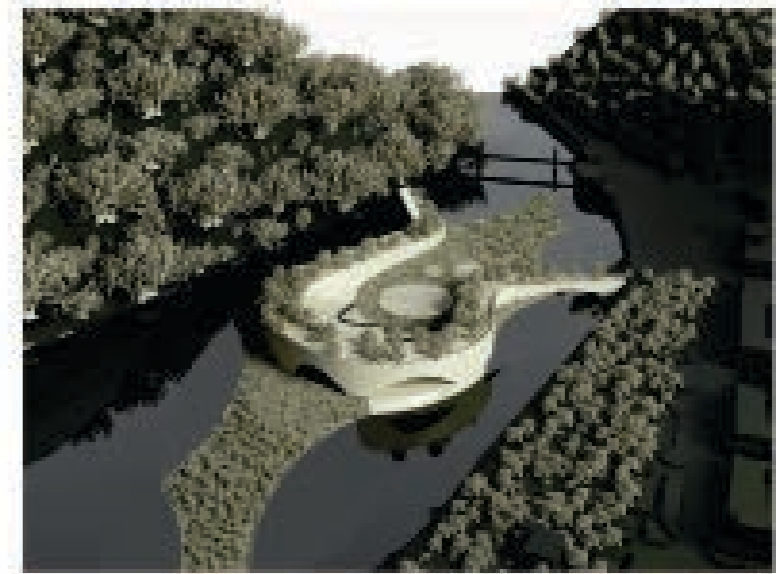


Reference: bank reinforcing structure

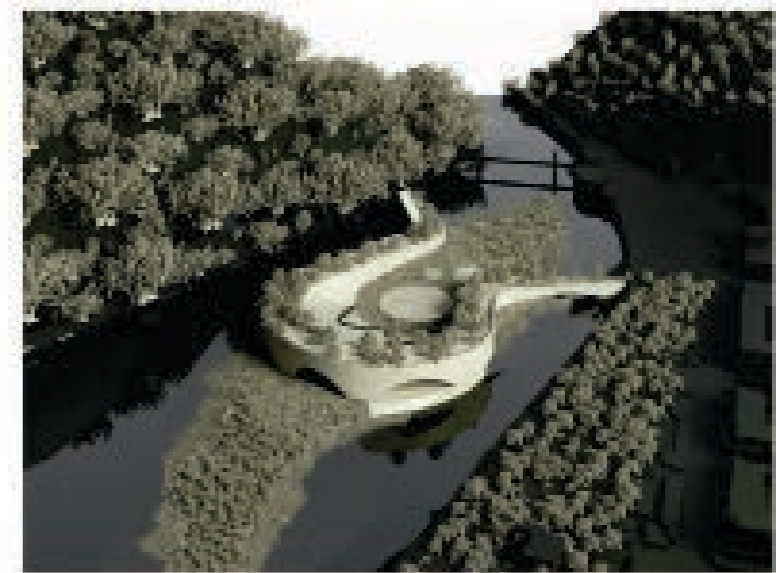
Water level diagrams



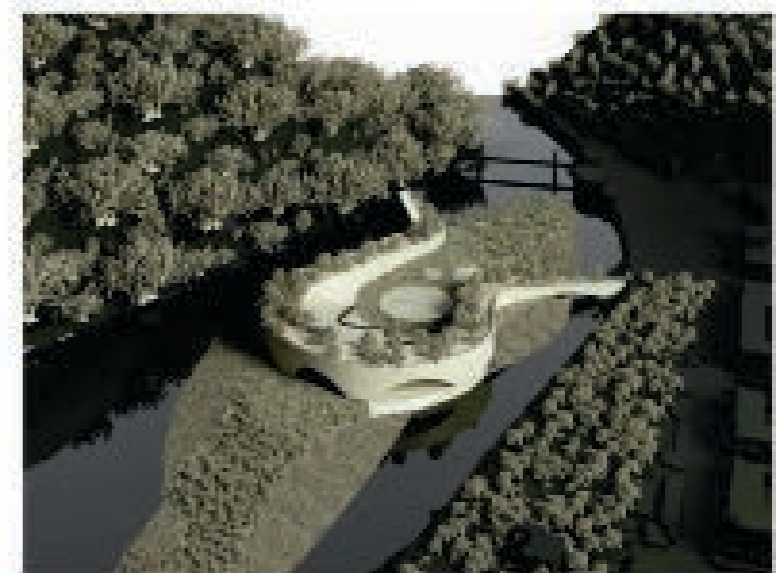
Maximum water level
WET SEASON +59.80 m



Intermediate water level



Minimum water level
DRY SEASON +51.80 m



B - MATERIALS AND CONSTRUCTION

Structure and construction methods

A key element of the proposed project is the shape of the new bridge according to the traditional image of ancient historical and rural bridges, taking inspiration to local building traditions and materials, as seen in Ura e Gorica bridge.

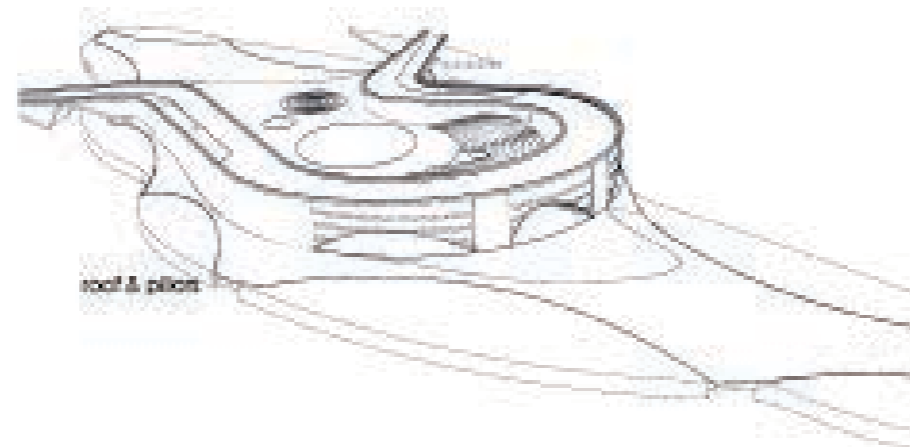
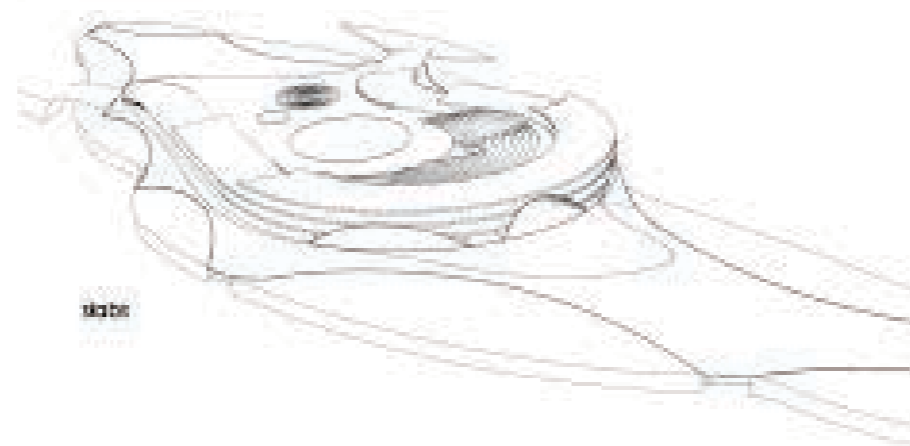
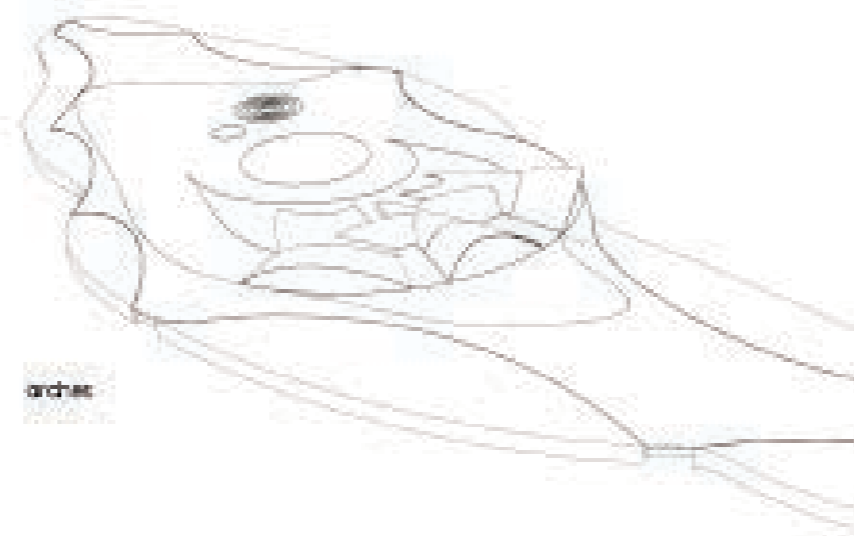
This allows to reconfigure a unified and continuous image of the building crossing the river.

The use of arches and vaults configure the pillars of the building, in which are located the vertical connections, creating external covered areas rebuilding a solid edge and creating multiples visual cones to the surrounding landscapes.

The structural design provided will mainly focus on using concrete elements for vertical pillars and horizontal elements, as the slab of the roof garden or the slab of the driveway, to ensure stability and durability of structures considering the humid environment we are working in due to the presence of Osumi river.

Concrete foundation is realized using micropiles, to structural loads to the depth soil, passing the riverbed that is not stable enough.

The proposed vaulted basement will be constituted by a main regular metal structure plus a secondary one that will bear the load of soft shaped parts.



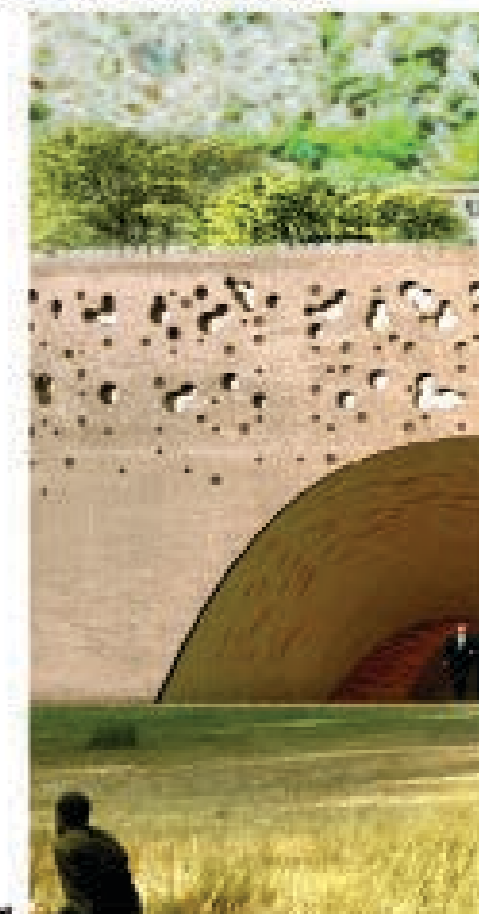
Façade design and materials

The proposed solution for the facade of the bridge/building has as objective the unity of the overall image, creating a subtle reference to the local traditional architecture, however, a composition characterized by a strong contemporary style.

To meet the highest aesthetic and ecological construction requirements, we would mainly used natural materials such as stones, ceramics, woods, metal, mounted according to dry-laying systems.

To achieve a unified image both internally and externally it is very important the proper use of few materials that well respond to the performance requirements dictated by the local climate and the presence of the river as humid source.

The façade will be made by prefabricated concrete panels, to ensure stability and durability of structures considering the humid environment, characterized by special round windows.



Facade Detail

Roof

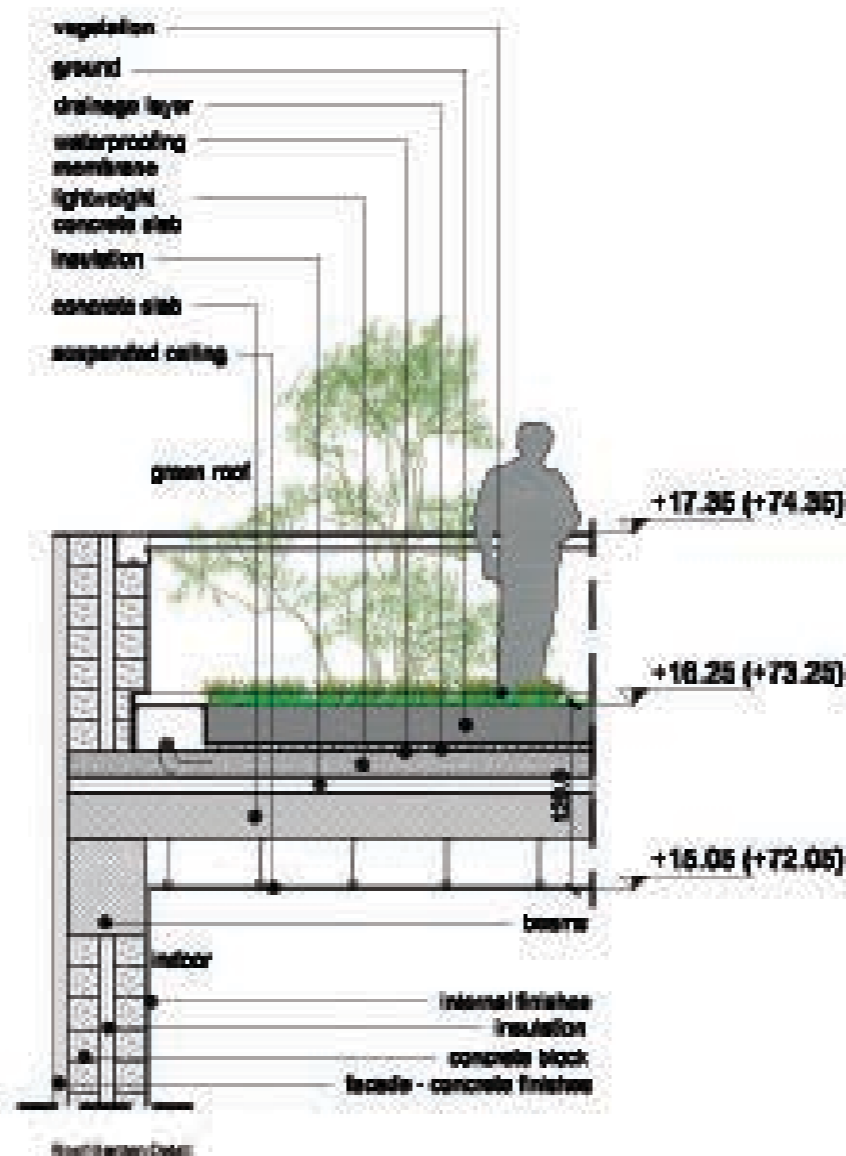
The roof is a pedestrian walkway planted with trees, shrubs and grass and organized with benches.

The roof garden is completely covered with vegetation planted on high fertility soil, to ensure the durability of plants. The structural slab is made by prefabricated concrete elements.

The most important features are the quality of the substrate, the amount of water accumulated, the supporting surface of the element of accumulation and the opening in the pores of the fabric filter. It is usually a system that has reduced thickness and weight to allow it to be used in roofing and requires little maintenance, as it is used a vegetation composed of essences of sedum that must be able to survive in situations of extreme drought, with high capacity for regeneration and self propagation.

It is a finishing technology that provides several benefits cover the building as protection sealing, adjusting the microclimate thanks to the lowering of the temperature in the urban environment and the fight against the heat island effect, isolation heat and therefore energy saving, the reduction of the presence of fine particles, creating new habitat for wildlife, the control of stormwater, in addition to reduced environmental impact and aesthetic.

- It is generally composed of a "package" of more layers which comprehends:
- Diaphragm (or mantle) waterproof anti-root
 - Separation layer and protection of waterproofing membrane
 - Layer of drainage and water storage
 - Fabric filter
 - Substrate culture
 - Vegetation



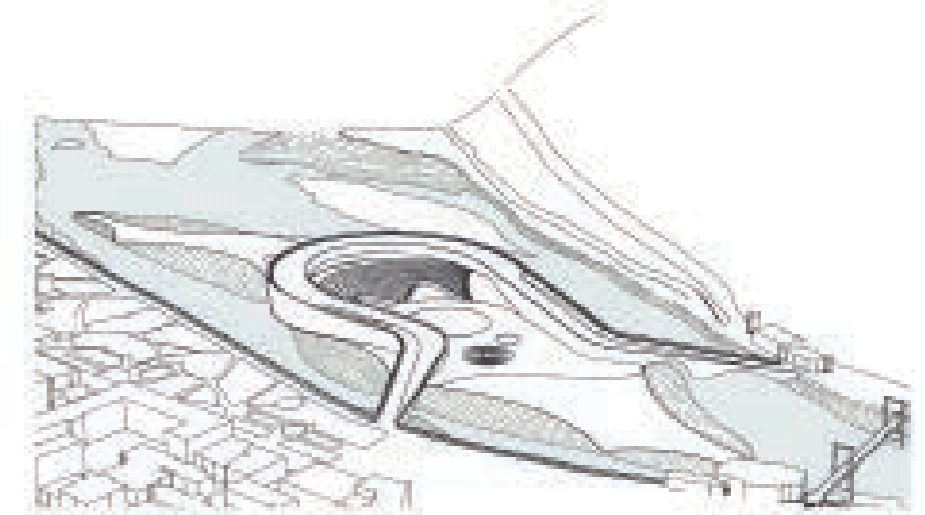
Technical plants

Our partners engineer's innovative design solutions embrace the latest technologies to improve a building's performance and sustainability. Integrated building services systems creating a balanced and controllable internal environment: natural ventilation, heating and lighting systems, combined with active systems, such as air conditioning, to provide a high level of comfort and operational efficiency.

To achieve the most appropriate solution we adopt a holistic approach, considering all aspects of the design process from 'abstract' issues such as occupant wellbeing to the detailed analysis of mechanical components and the impact of

environmental regulations on the building's form and energy usage. Using sound building physics principles and advanced modeling techniques to analyse the envelope and spatial layout, our systems are integrated into the building fabric to create functional internal spaces and balanced, controllable conditions. Building services represent a significant planning and cost factor on any building project, so it is essential to provide a fully integrated design solution that is delivered on time, on budget and which embraces the latest technology.

Designed to provide optimum levels of occupant comfort all year round, our MEP systems set a new benchmark for efficiency and sustainability.



View of the Open Theater



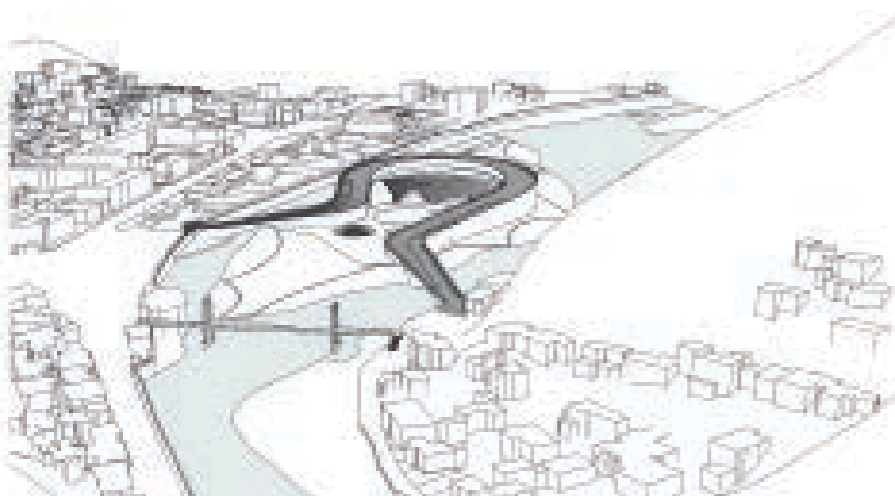
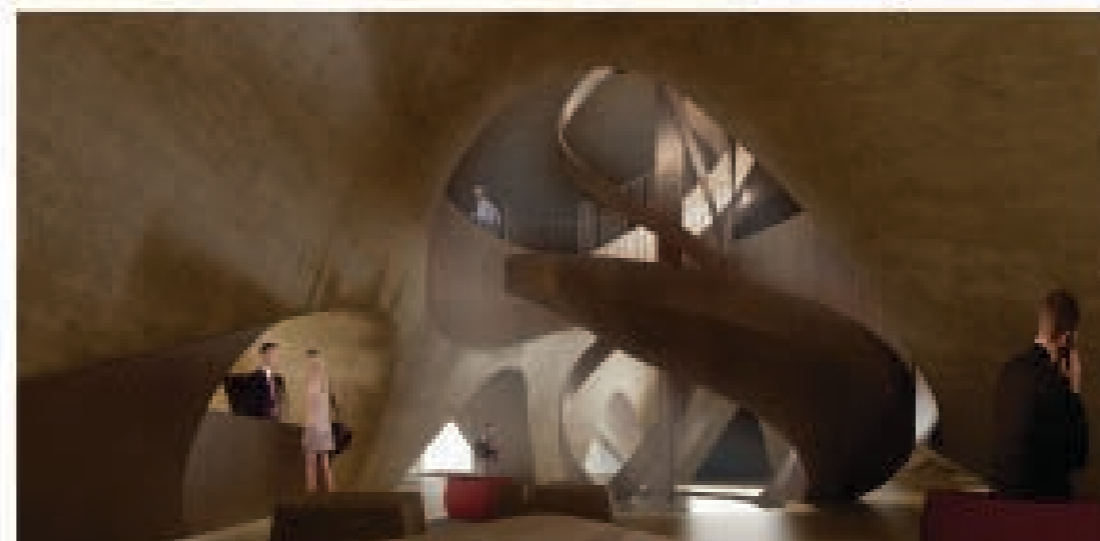
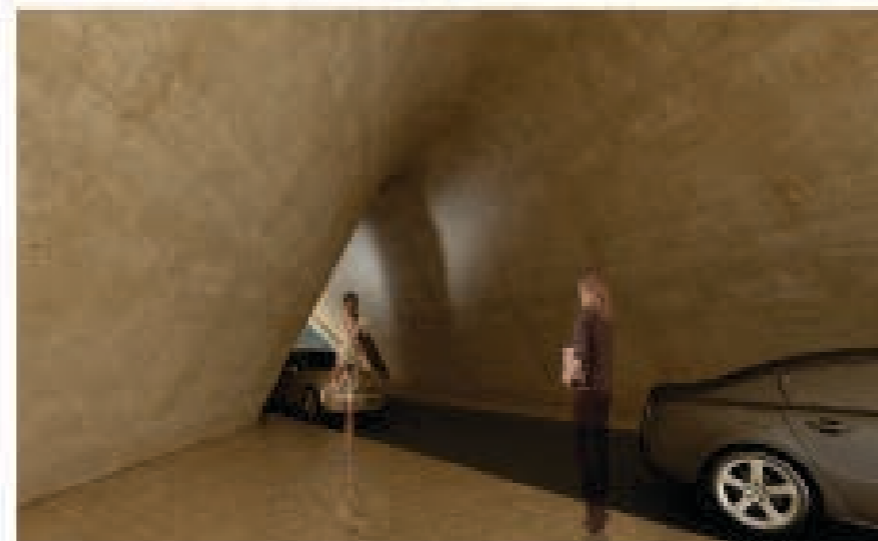
Sustainable designs

Energetic containment and reduction of the environmental impact due to the greenhouse effect, in response to the current global emergencies - represents the key factor that should lead the design, integrating building and systems solutions. In other words, a green approach should be applied to the design of buildings, as every design choice has environmental implications.

Our design intentions converge to a proposal that has as its ultimate goal in respecting the environment and a high level of welfare of the users.

We indeed intend to adopt the following solutions in order to highly meet the criteria of a sustainable design:

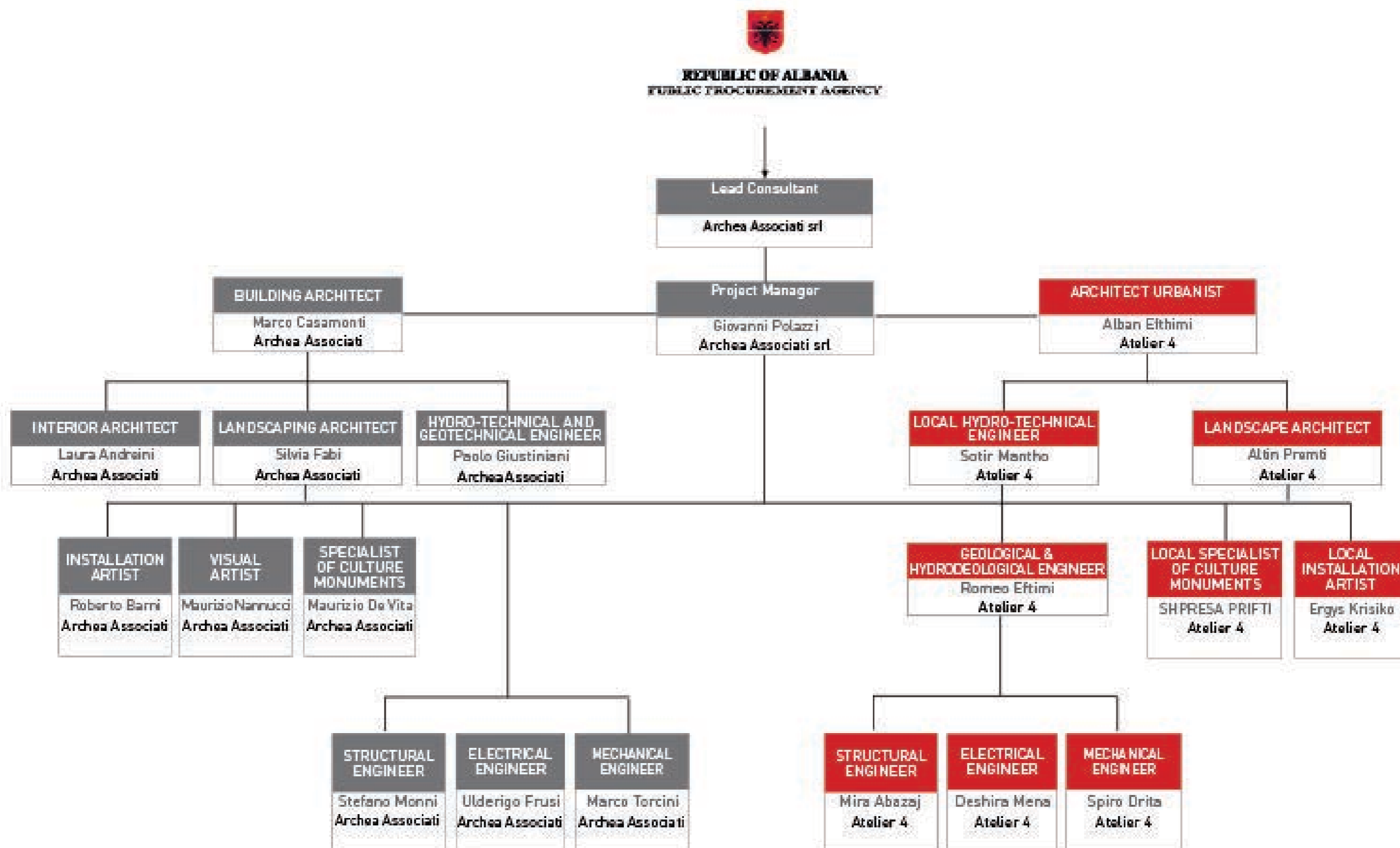
- The reduction of direct solar radiation through the use of modular shading elements. This will help to avoid overhear as well as guarantee a softer natural lighting of the interior space.
- The insulation of the building shell through accurate definition of the insulation thickness for the opaque parts and a careful choice of the glass for the transparent surfaces, gaining a sensible reduction of energy requirements to cool the living areas.
- Plant efficiency that will reduce fuel consumption without compromising the overall performance.
- The use of bio-ecological materials such as ceramic, stone and dry construction system.

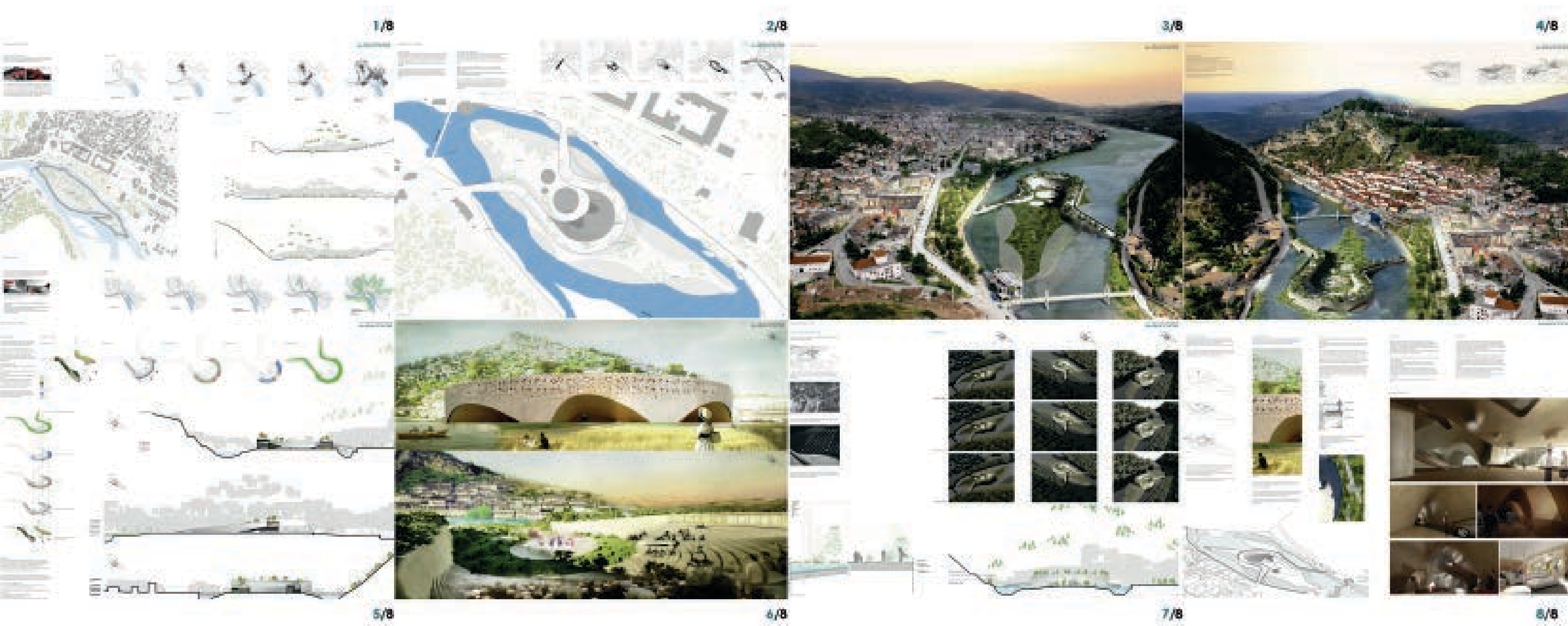


C_ INVESTMENT COSTS ESTIMATION

Architecture &Engineering	Build Up Area (BUA)m2	Construction Cost Euro /m2	Cost Estimate (Euro)
1 Riverbanks:13.350mq	13.350,00	100	1.335.000,00
2 Green area: 18.400mq	18.400,00	50	920.000,00
3 Open air theatre: 2.000mq	2.000,00	300	600.000,00
4 Green roof + Trees : 5.755mq	5.755,00	50	287.750,00
5 Façade area:8.300mq	8.300,00	150	1.245.000,00
6 Building total: 20.535mq	20.535,00	630	12.937.050,00
Ground floor: total 9.066mq	9.066,00		
First floor: total 6.045mq	6.045,00		
Second floor: total 3.112mq	3.112,00		
Third floor: total 2.311mq	2.311,00		
7 Vertical Connections	750,00	720	
8 Lifts: 42mq	6,00	25000	150.000,00
TOTAL VALUE			17.474.800,00
CONTIGENCIES	5%		873.740,00
TOTAL INCLUDING CONTIGENCIES			18.348.540,00
TOTAL ADDED VALUE (TVSH)	20%		3.669.708,00
FINAL TOTAL			22.018.248,00

D_ LIST OF ALL MEMBERS OF THE DESIGN TEAM AND THEIR ROLES





Open water landscape design
 Build a water plaza adjacent to the waterfront development and the waterfront development, parallel to the waterfront development. Building the network of a landscape that will accommodate the waterfront development.



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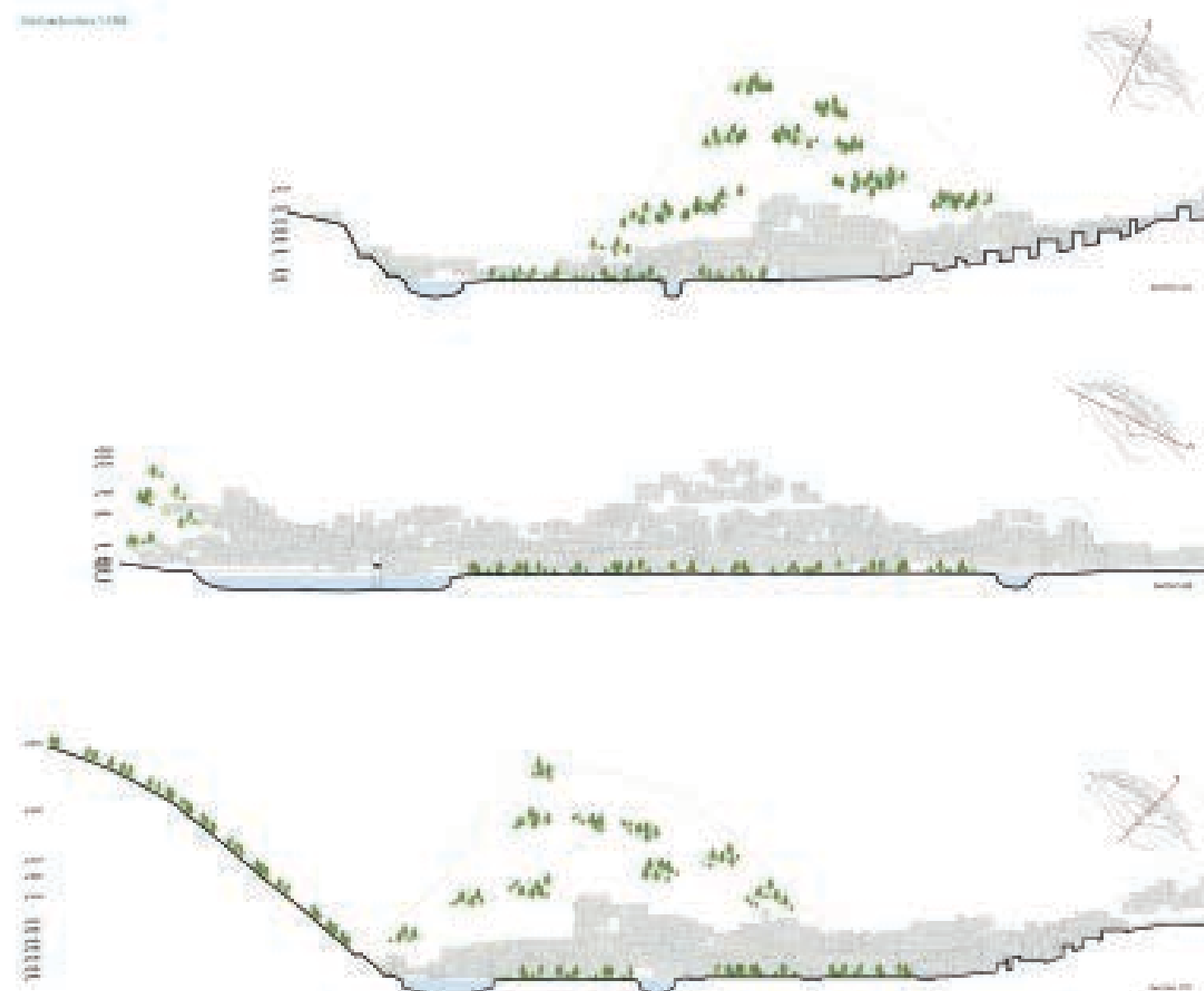


Waterfront development

The waterfront development along with water features is a significant architectural feature to the waterfront development. The waterfront development is a significant architectural feature to the waterfront development. The waterfront development is a significant architectural feature to the waterfront development.



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Conceptual design
 A conceptual architectural design is a preliminary drawing of the design and the site plan. It is a drawing that shows the basic form and layout of the building and the site. It is a drawing that is used to communicate the design to the client and to the construction team. It is a drawing that is used to show the overall concept of the design and to show how the building and the site will be integrated.

Architectural concept design
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This is a conceptual drawing to show the overall concept of the design and to show how the building and the site will be integrated. It is a drawing that is used to communicate the design to the client and to the construction team. It is a drawing that is used to show the overall concept of the design and to show how the building and the site will be integrated.





Project description:
 The main objective of this project was to create a new window to the town of Pinar del Rio, a small town in the mountains of the Dominican Republic. The project was initiated by the local government and the architect's office, with the aim of creating a new public space that would be a landmark for the town and a symbol of its identity. The project was carried out in a collaborative manner, involving the local community and the architect's office. The project was completed in 2015 and has since become a landmark for the town.



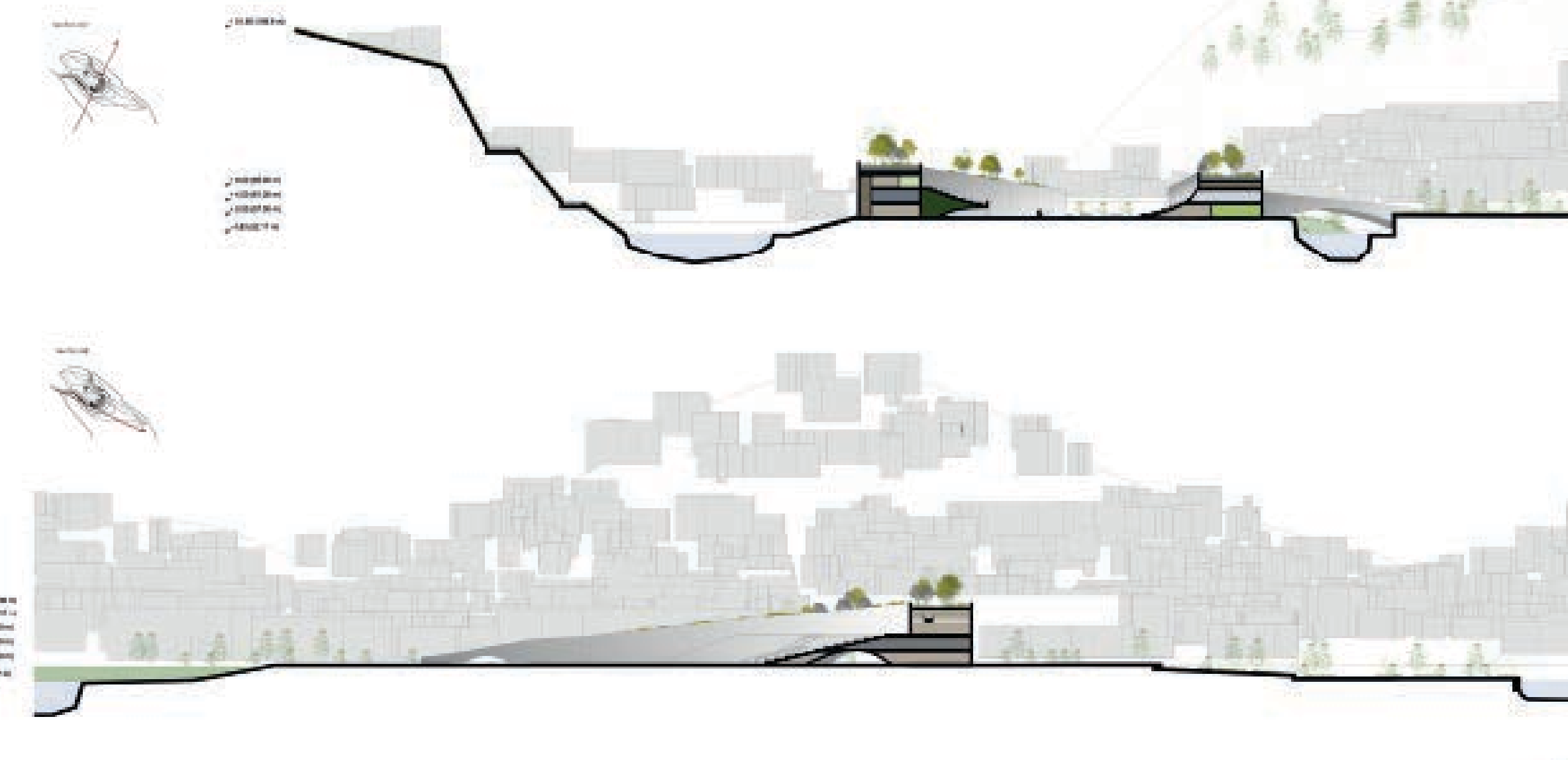
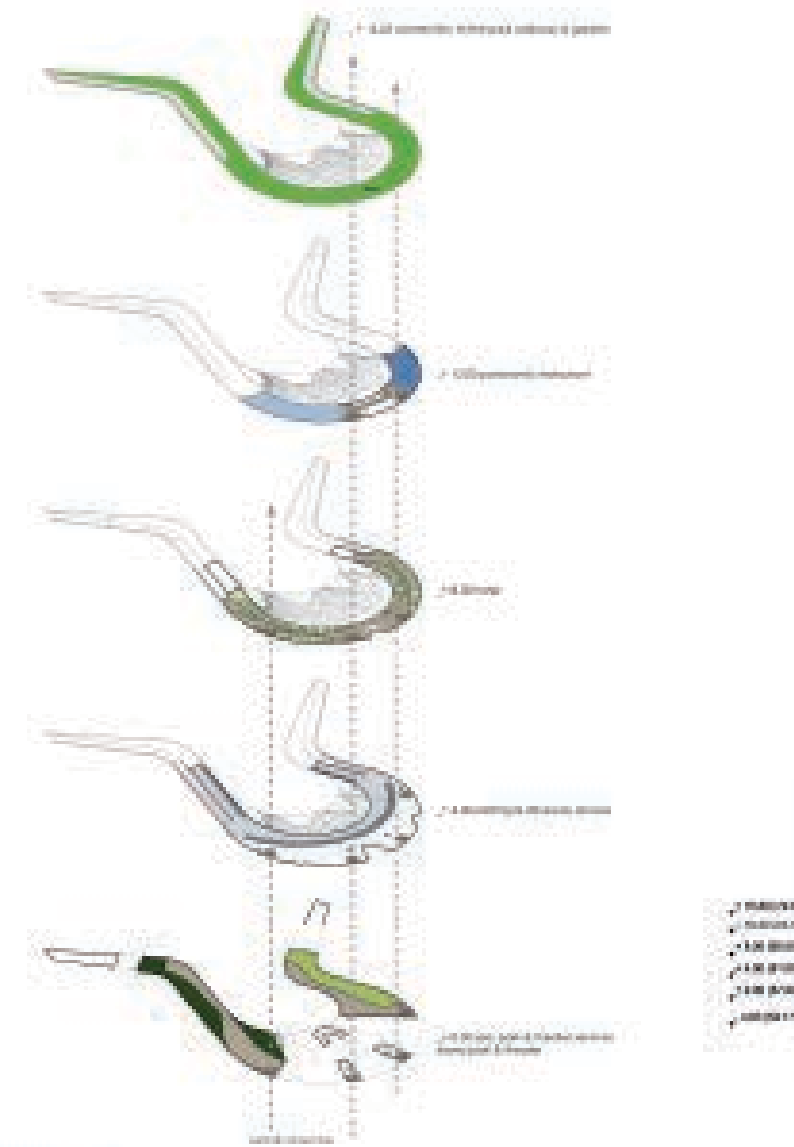
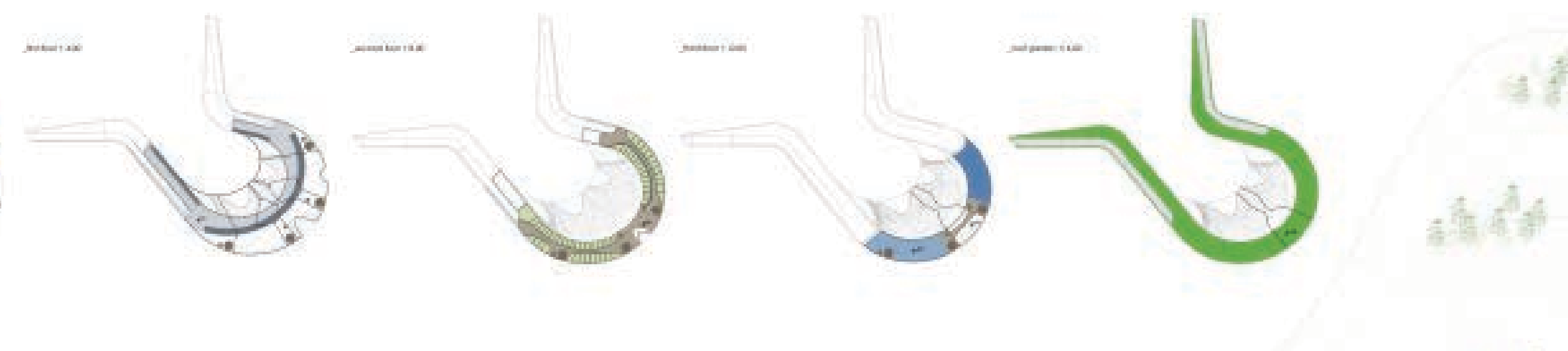
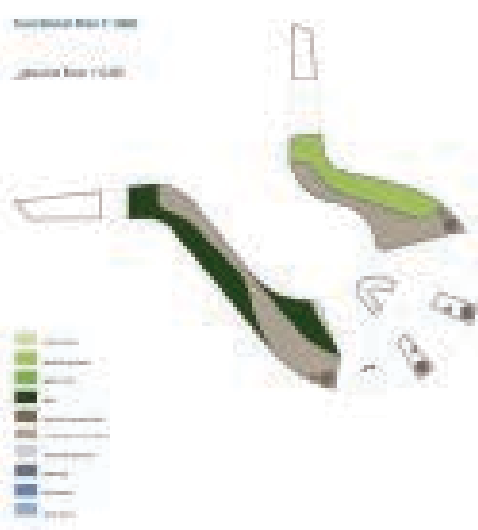
FUNCTIONAL PROGRAM

To develop the content of the structure of the initial site, the organization designed a conceptual master plan, taking into account the following objectives:

Through a series of stages, the project aims to create a sustainable and integrated urban space, a unique and multifunctional environment, designed to be used by all and to be a source of energy for the community's development.

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CONCLUSIONS

The idea of integrating a large-scale urban development with a high-quality urban environment, a unique and multifunctional environment, designed to be used by all and to be a source of energy for the community's development.

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Integration of building and landscape design

Integration of building and landscape design



Integration of building and landscape design

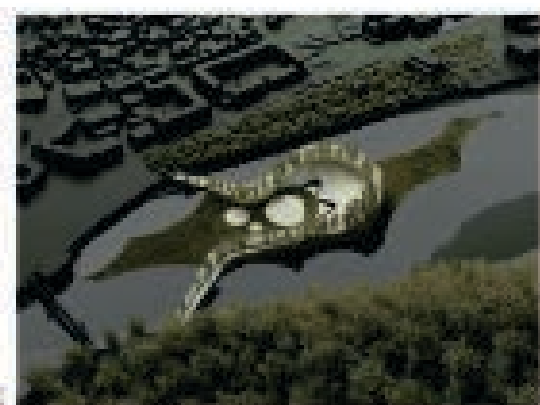
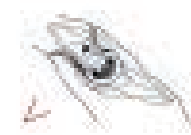


Integration of building and landscape design

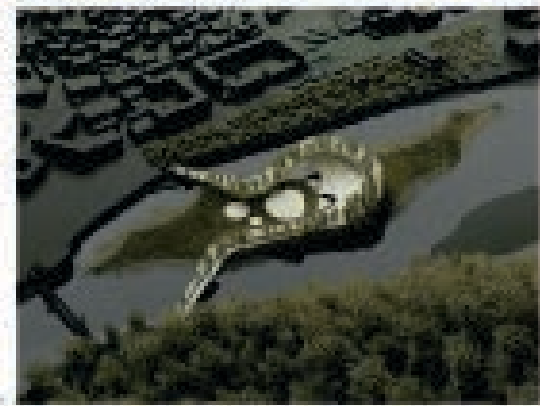


Integration of building and landscape design

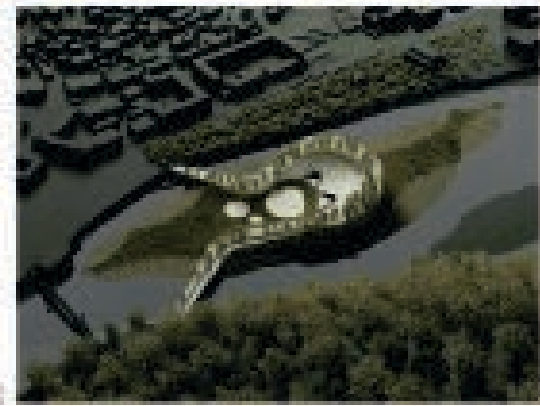
View from bridge



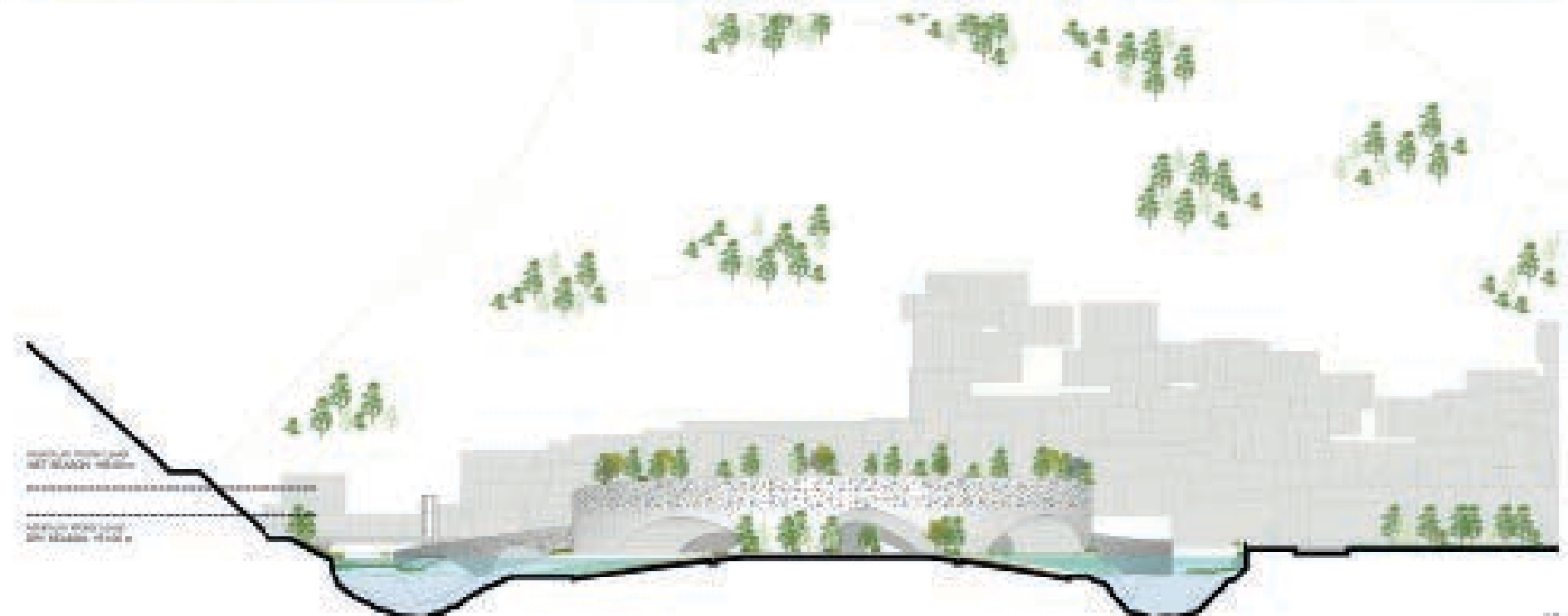
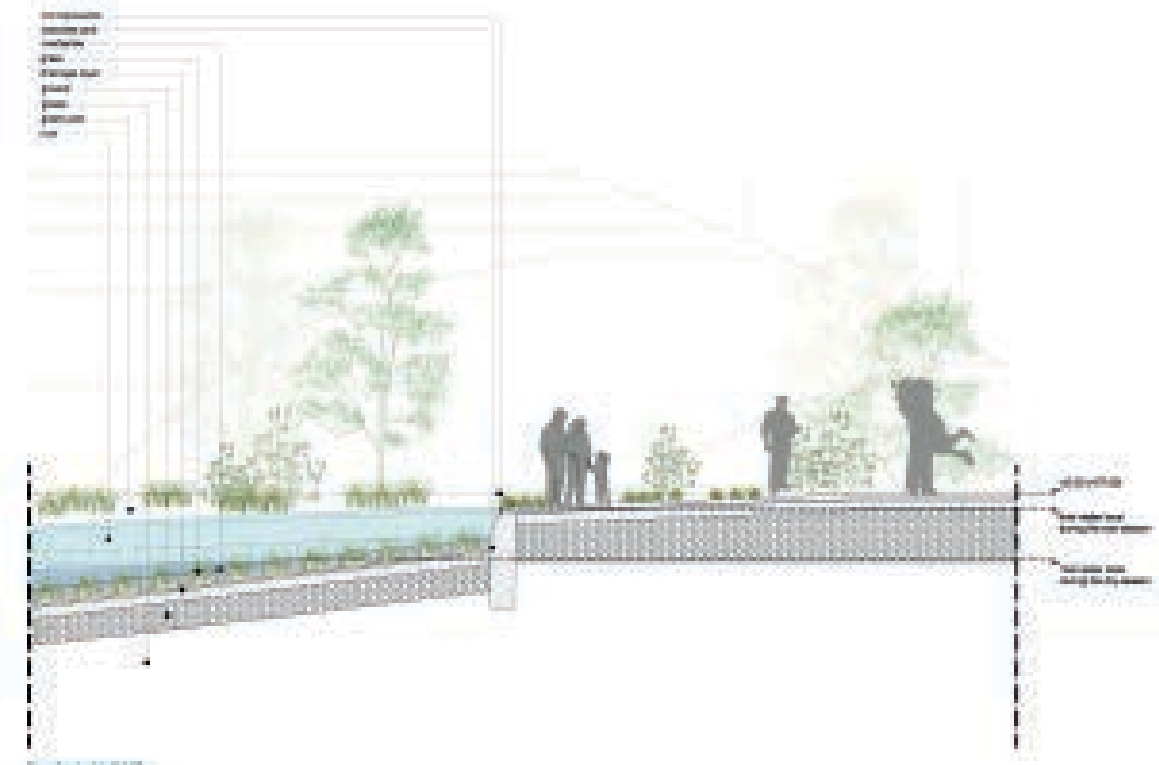
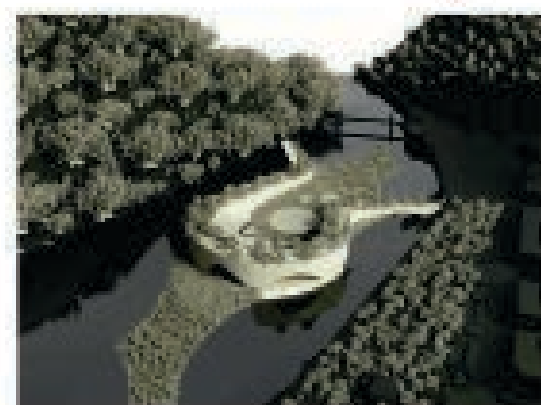
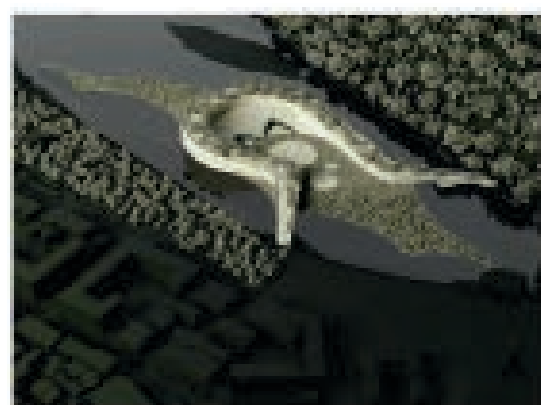
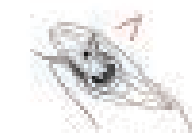
Integration of building and landscape design



Integration of building and landscape design



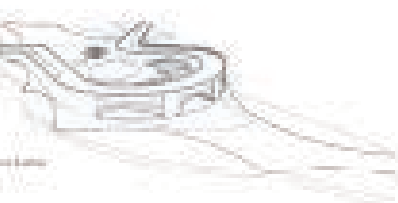
Integration of building and landscape design



Work and entertainment building

The concept of the proposed building is to create a high-quality building for the business and entertainment sectors, providing a high-quality building for the town. The building is designed to be a high-quality building for the town.

The use of natural materials and green building is also a key feature of the building. The building is designed to be a high-quality building for the town.

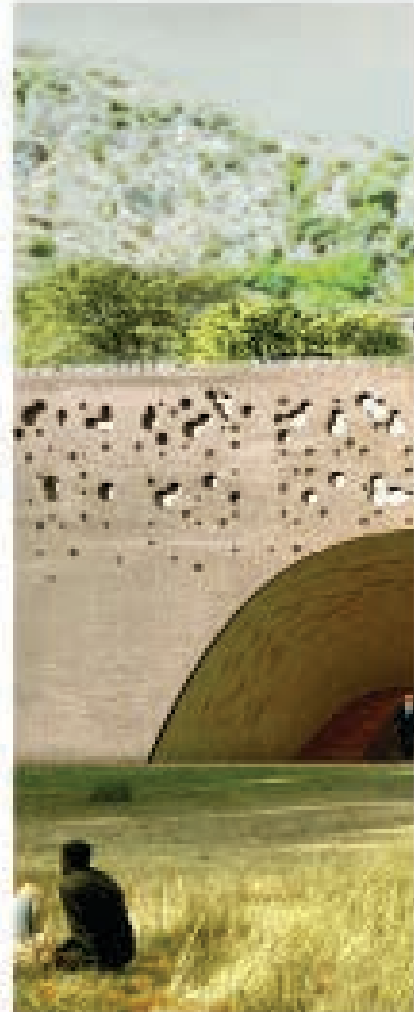


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Green design solution

The proposed building is designed to be a high-quality building for the town. The building is designed to be a high-quality building for the town.



01 Green wall

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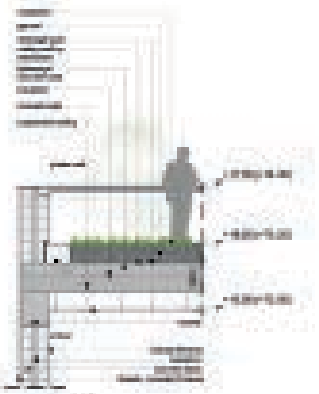
Site

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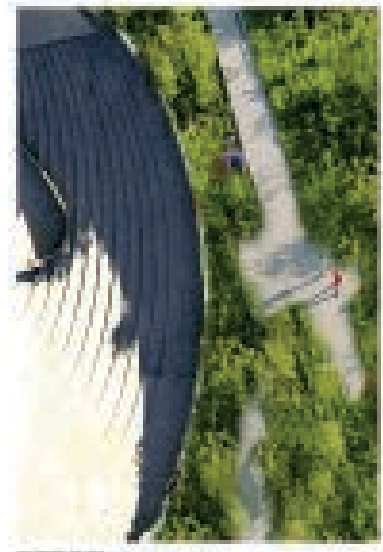
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02 Aerial view of site

Structure

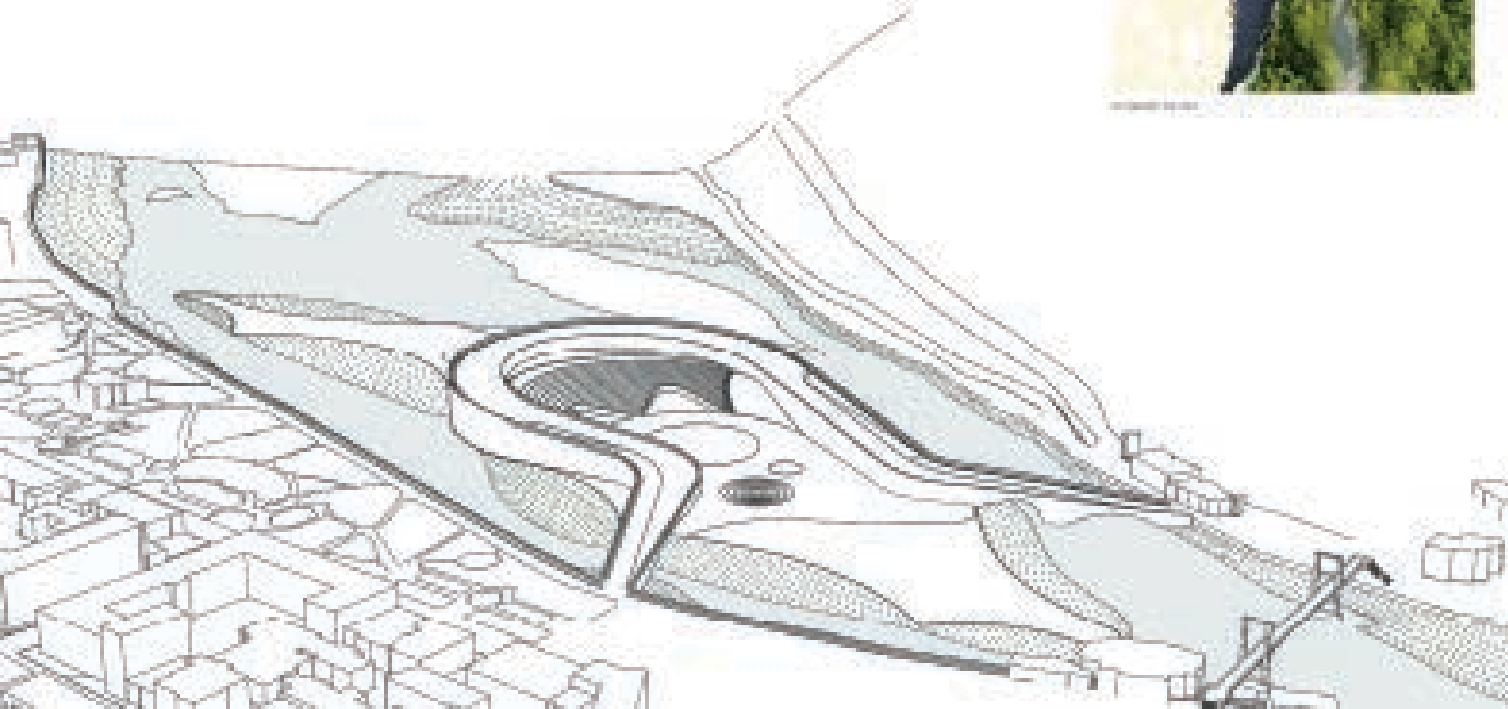
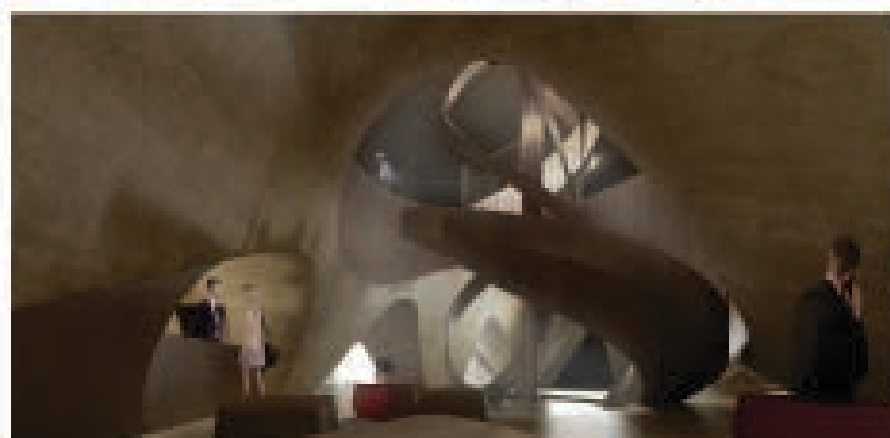
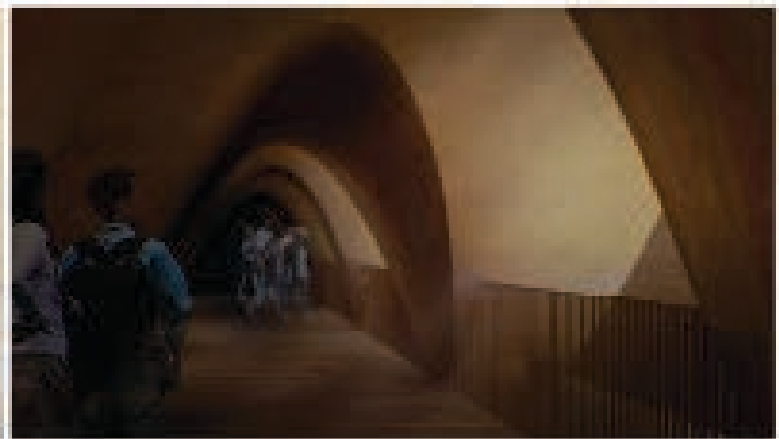
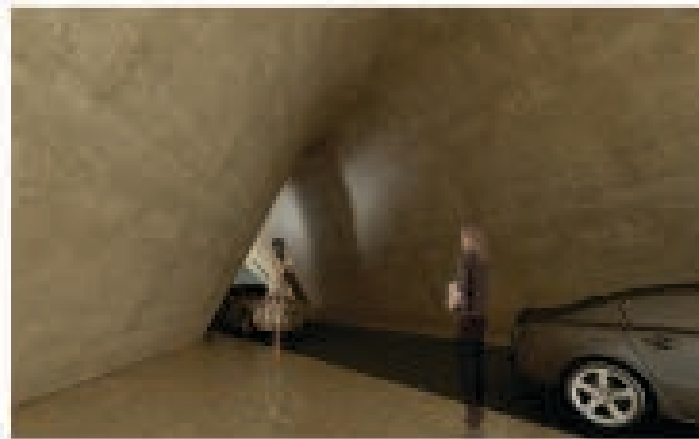
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Interior of the building



ATELIER 4
ARCHITECTS & DESIGNERS

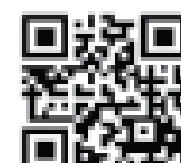
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A_ Description of the design concept

Short introduction about Berat:

Berat is a small city located in the south of Albania and one of the most historical of the country, part of the Unesco World Heritage Sites. Descending from the model of a Ottoman city, it has many religious buildings and ancient city walls.

The Osumi river, a tributary of the Seman which crosses southern Albania, cuts through the city.

A small island, that often changes its outline depending on the

water level of the season, it marks the bend where the river broadens out.

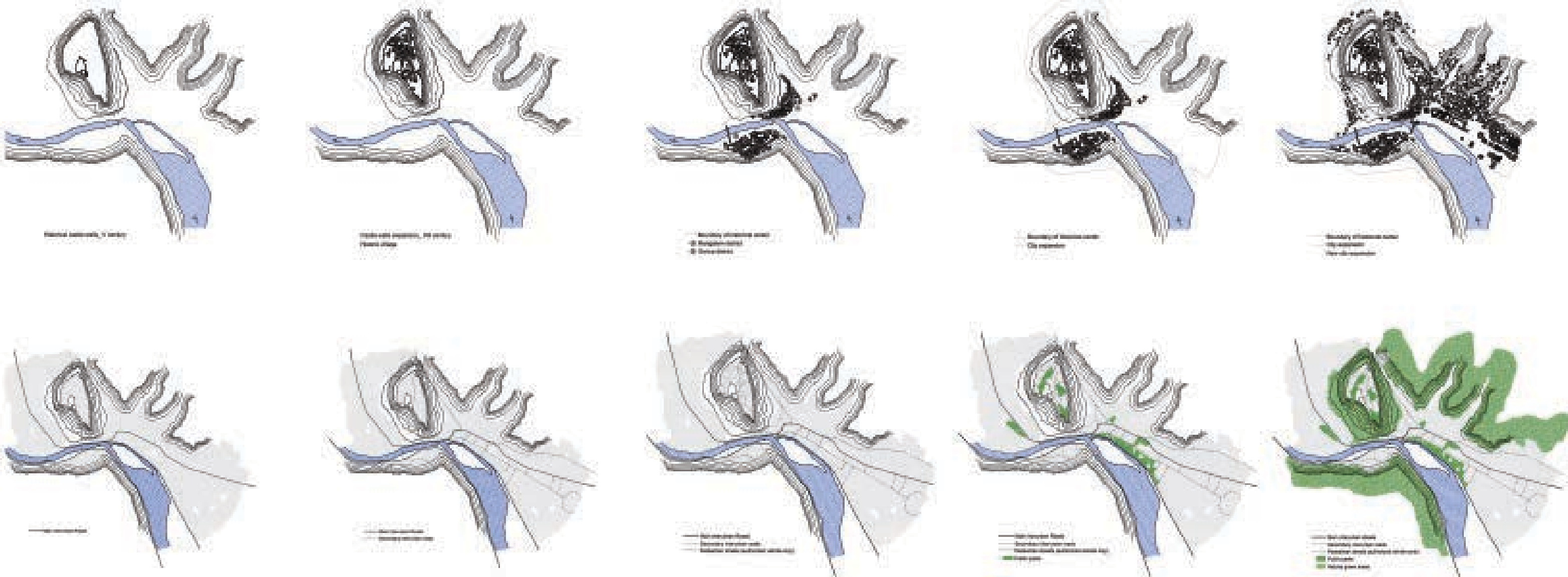
The most significant element of the urban tissue is a series of small white houses covering the steep hillside.

The town is still renowned for its historic architecture and scenic beauty and is known as the "Town of a Thousand Windows", due to the many large windows of the old decorated houses overlooking the town. It is unclear whether it really means "Thousand windows". Indeed, the quarter is built in a very steep place and windows seem to be one over another. Similar views can be seen in Melnik,

Bulgaria, Gjirokastrë in Albania, as well as Catanzaro in Italy, where an Albanian minority once lived.

The presence of the Osumi River, whose route crosses mountains, is a significant element for Berat, not only for the relationship that is normally created between the city and its the river, the through the banks designing the waterfront, but first of all because of the changes in river water flows.

For these reasons the island that faces the city is continuously changing its shape, fighting with the river water level.



General strategy:

The task of the competition is the redesign of the island banks, to become resilient to flooding situations, transforming Osumi Island in a real focal point for the city, not only for citizens, but creating a new landscape element for the whole country.

For all these reasons it is important and necessary to develop a project that enhances the image of the island and of the whole town, but at the same time represents a renewed and more usable functionality in terms of connections and fluxes, creating new opportunities for the city.

For an appropriate redevelopment, it is essential the search for unity and coherence between the different parts: river, island, new town, historical town, mountains and landscape.

For these reasons the intervention in Osumi Island will combine clearly the external environment, designed with natural existing elements, with the building itself. A new image of the interior and exterior spaces in close dialogue with the studied views on the river and on the city, old and new, in order to make the most of all the available elements.

The proposed concept design aims to create a new link, a new connection between the two banks of the river, from the city to the rocky mountain, crossing the island.

We propose a new pedestrian bridge across Osumi river covered in trees and shrubs to span the river between the two banks, as a new landscape element defining "urban by nature".

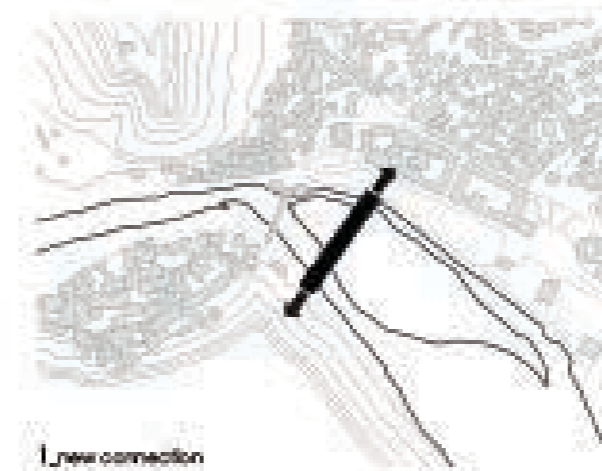
Berat is where it is because of the river osumi. But over many years the human experience of this amazing piece of nature has been marginalised by floods and transport moves.

The historic district of the thousand windows and the new expansion on the other side of the bank are facing but almost isolated

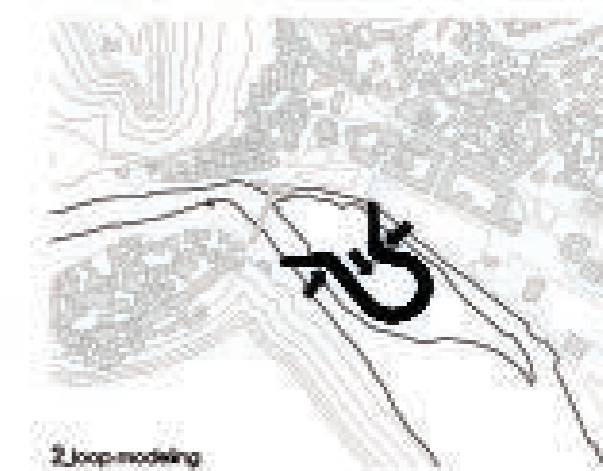
There is now an opportunity to connect this two parts together, better than the existing, to give citizens a huge improvement in the quality of pedestrian river crossing in this area, enhancing the island as a natural park, to allow people to get closer to the river and at the same time to stimulate new regeneration possibilities at both ends where the new bridge lands.



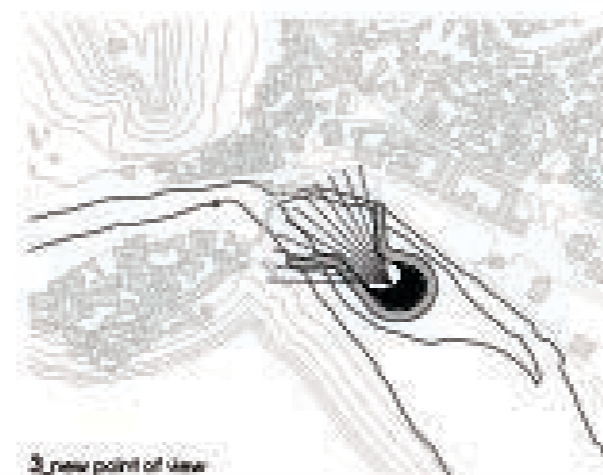
Osumi Island and banks



1_new connection



2_loop modeling



3_new point of view



4_renovation of the island bank



5_bank



Functional program:

The new connection does not have to be seen only as a bridge but as new a landscape, sculptural and architectural building/connector.

The shape of the new bridge is articulated to create a curvilinear pedestrian walkway (500 m long), starting from the level of the city waterfront at + 57.00 m , reaching the top level at 73.25 m (16.25 m slope) and descending to + 57,3 m on the other side.

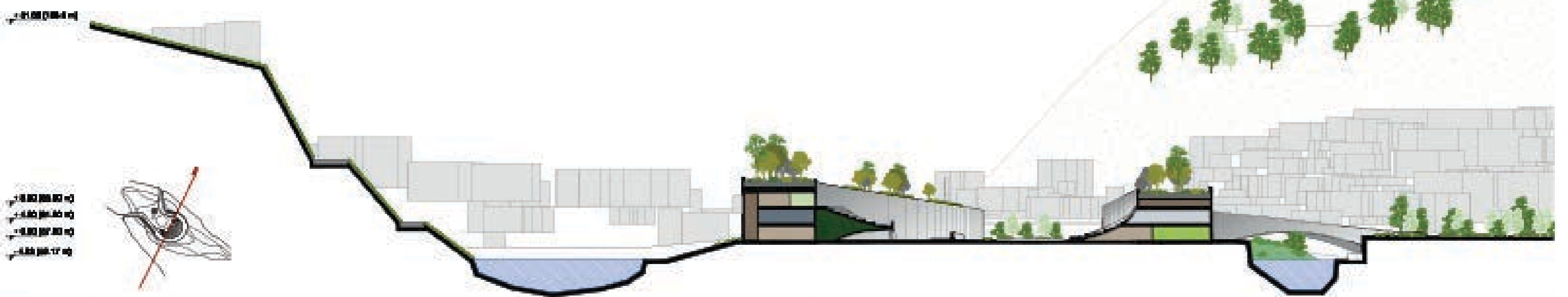
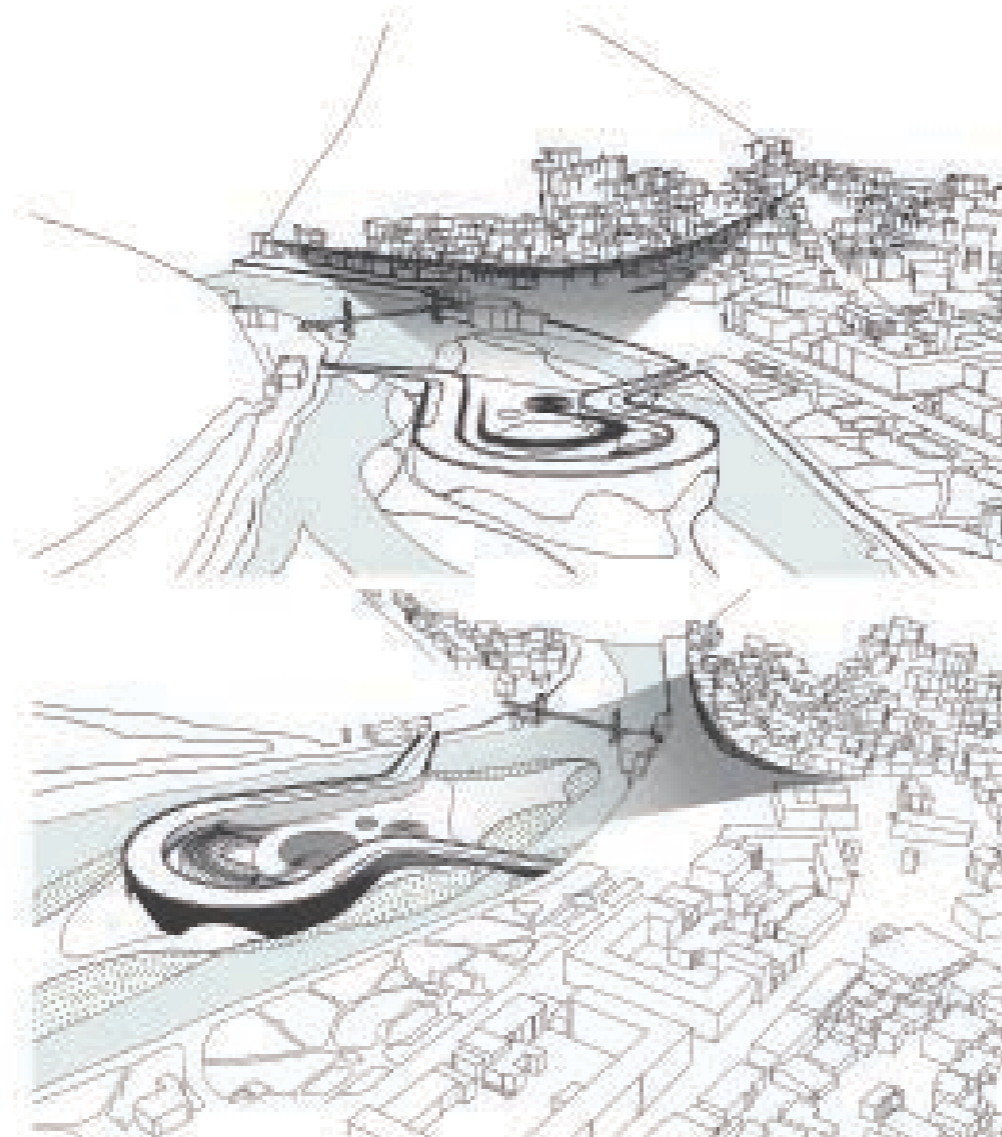
The bridge creates a loop, as a fluid element, that hosts an open theater facing the old town and laying on the island, descending to + 52.8 m.

The new theater, as a polyvalent space inside the park, becomes a new window to Berat, the one thousand windows city.

To develop the potential of the island and of the whole city, the bridge has been designed as a multifunctional element, hosting functions and activities, articulated in 4 levels.

The bridge is a also a driveway link, located under the pedestrian path and covered by the garden, to mitigate the environmental impact of a street crossing the bridge.

This solution ensures the usability of the island for any kind of visitor, and it allows the servicing of the functions located in the bridge/ building.

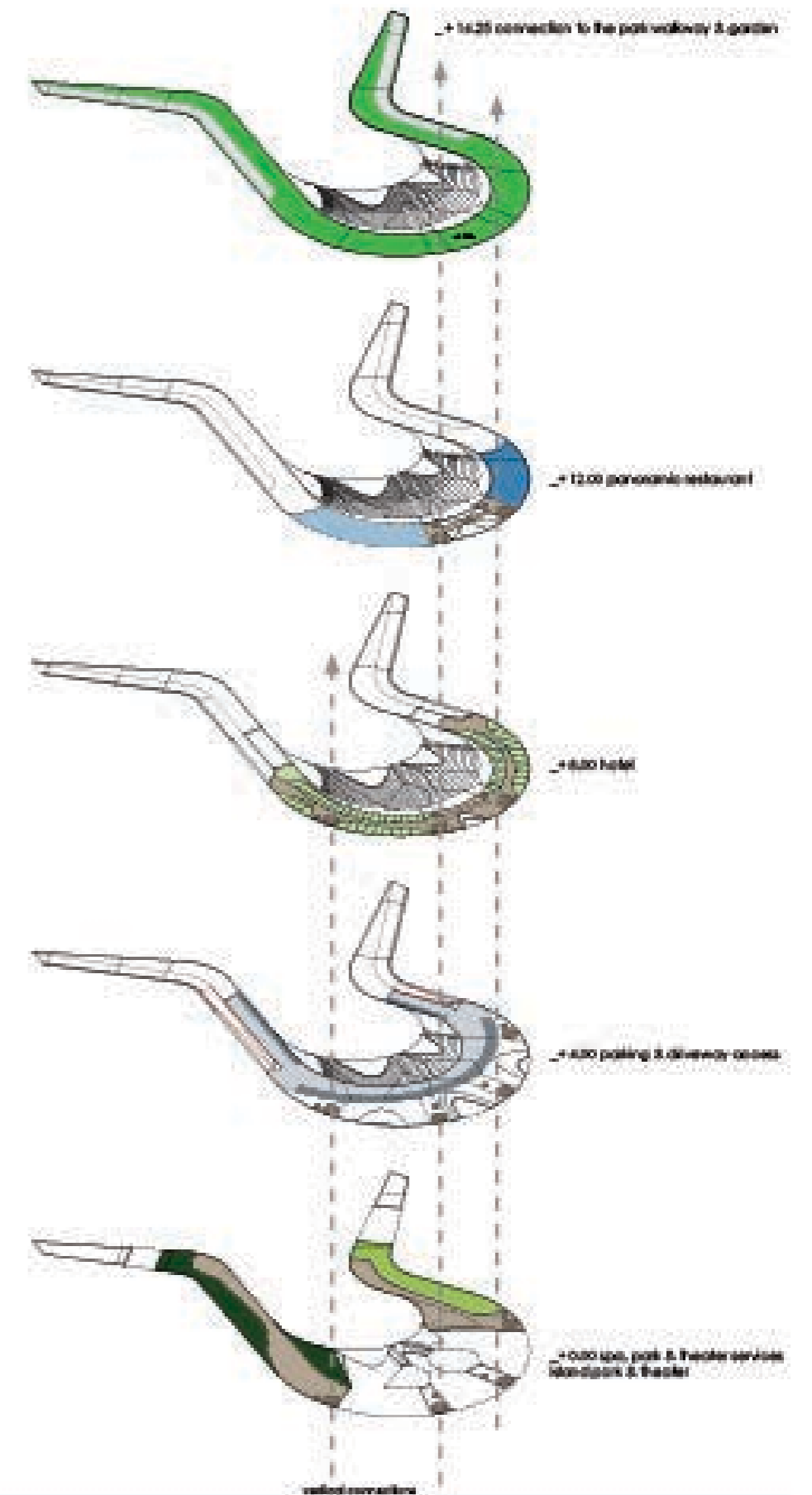
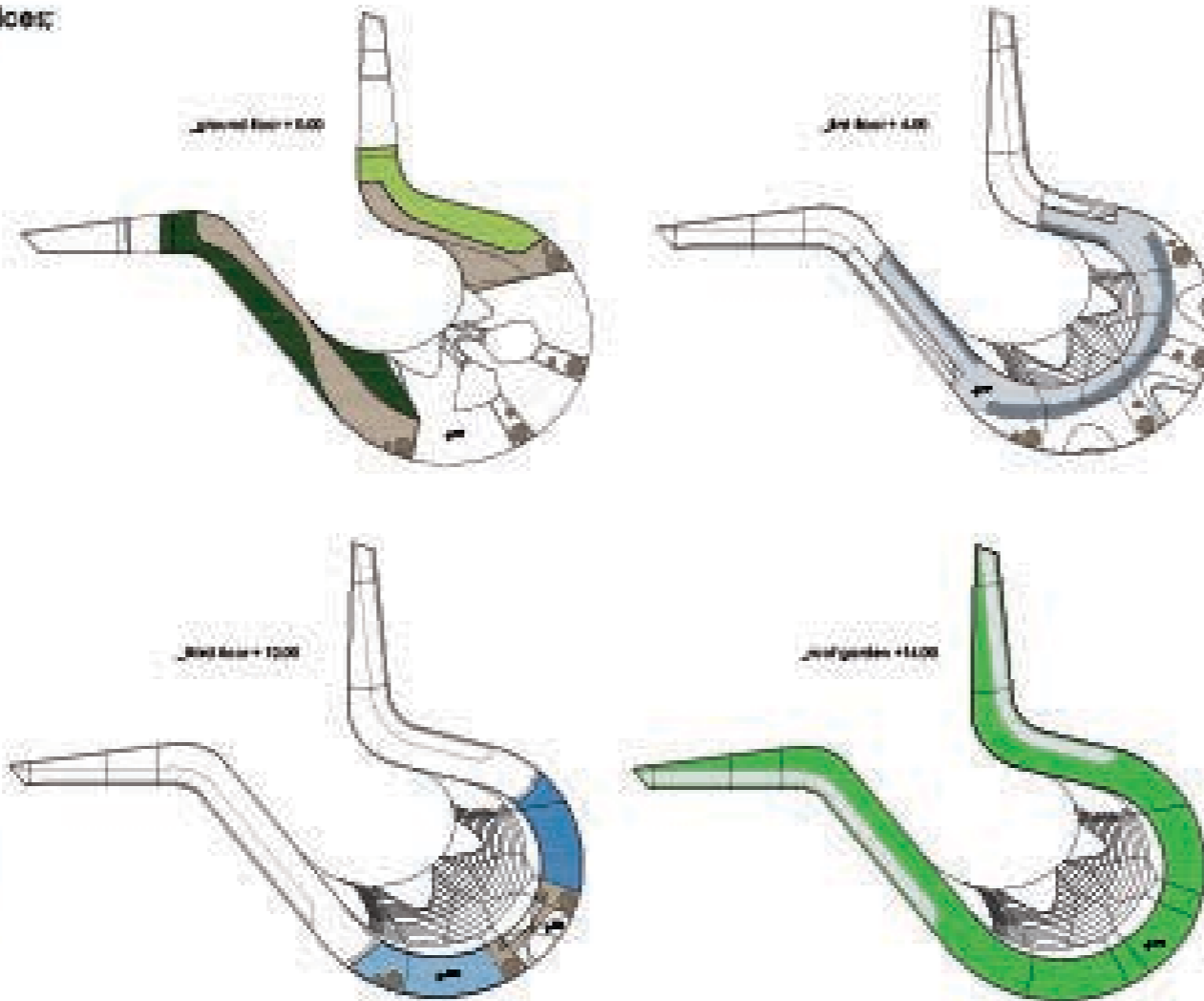


The building hosts:

- services and spaces dedicated to the open theater (ground floor);
- accommodations (restaurant and bar) dedicated to visitors (ground floor);
- services and spaces dedicated to the open theater (ground floor);
- a small spa area connected to the hotel (ground floor);
- a parking on the 1st floor served by the driveway;
- a hotel (2nd floor) provided with lounge and services;
- panoramic bar and restaurant on the 3rd floor;

The unique location of the hotel and services offers the possibility of establishing an intimate dialogue with nature, emphasizing the colours, sensations and atmospheres in an elegant and sometimes surprising way.

- bedrooms
- leather services
- green roof
- spa
- vertical connections
- horizontal connections
- vertical access
- parking
- restaurant
- open area



Objectives:

The idea of bridge/building aims to develop the island as a "pole" for the city and for the territory, as a 24 hours/day living multifunctional element, hosting features and business accommodation now absent in Berat, creating an economic strategy of public/private partnership to share the global cost of the intervention.

This is the first major milestone for the project and marks a very clear intent to create a new landmark not only for Berat, but in a larger territory scale.

The scheme has been shaped and developed into a proposal that will contribute significantly to the future of Berat's development and we are committed to ensuring the NEW Garden Bridge/Building will be something that the whole country can be proud of.

In this vision the new bridge becomes:

- a connection (pedestrian and driveway) between the two banks of the river;
- a green walkway on the whole landscape of the area;
- a park, open to visitors and citizens, with an open theater for special events, festivals and activities;
- a hotel for business and for visitors accommodation;
- a parking dedicated to visitor and tourists;
- a set of activities, connected to the hotel and opened to the park and to citizens.

View of the proposed solution



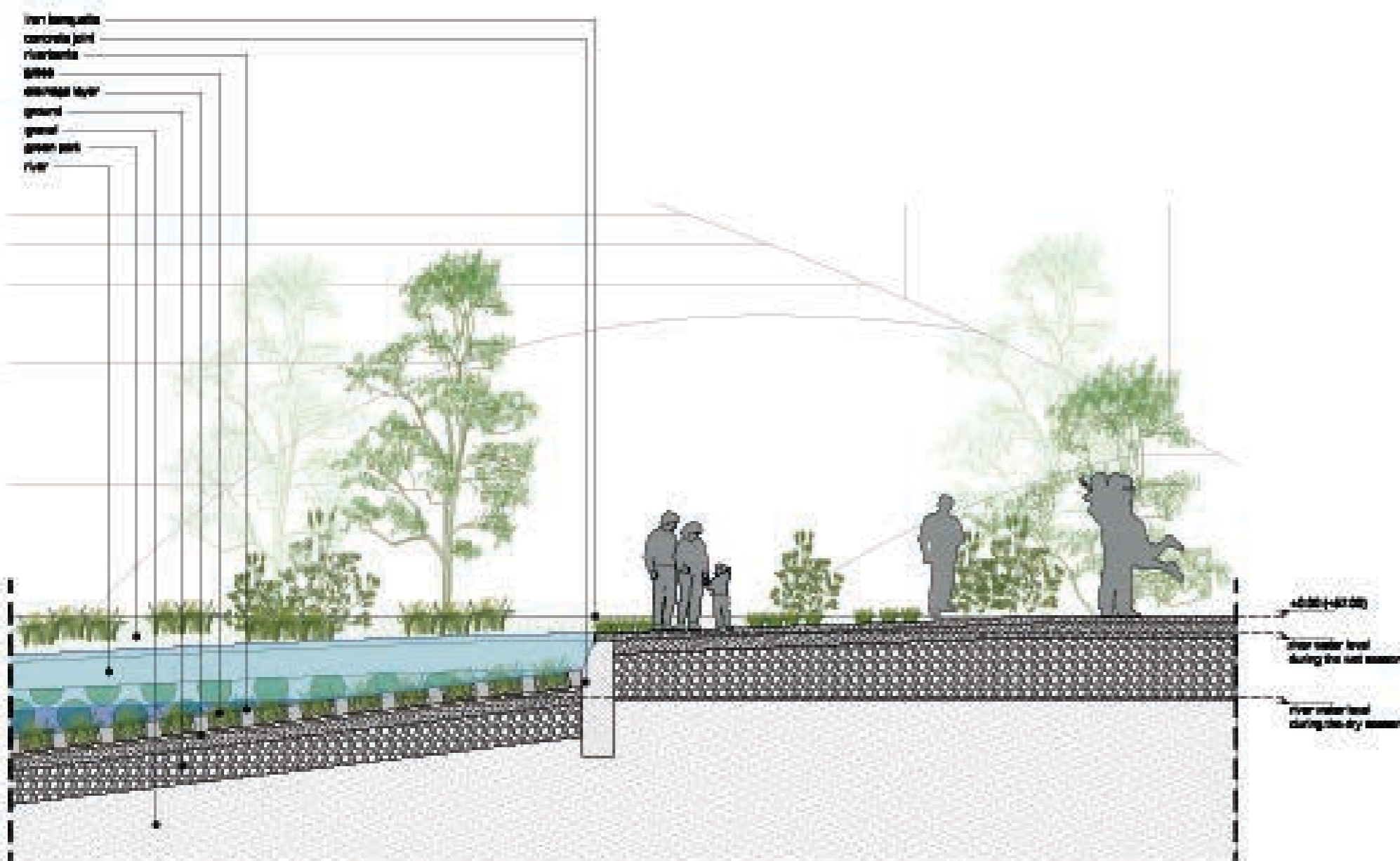
Description of flooding risk prevention strategy:

The redesign of the banks of the island and of the river is a focal point of the project, to preserve the city and the new bridge.

The banks of the island, and of the Osumi river where needed, are redesigned with concrete structure creating a grid that holds the ground, preserving the shape from water floods.

Gaps between the concrete grid are planted with humid shrubbery, compatible with water floods and holding the ground through the roots.

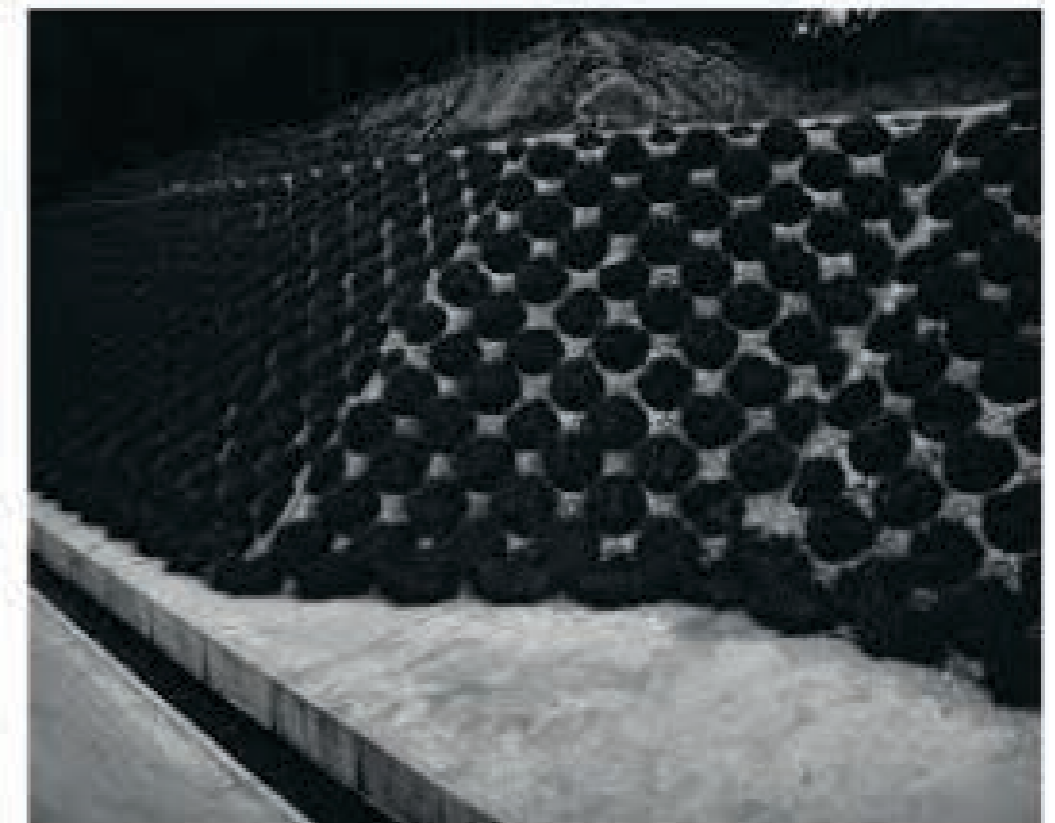
The higher of the new banks is defined starting the historic of water levels in past floods, and it is able to preserve the land of the island, it's shape and the new multifunctional building and both bridge walkway and driveway.



Bank detail



Reference: bank reinforcing structure

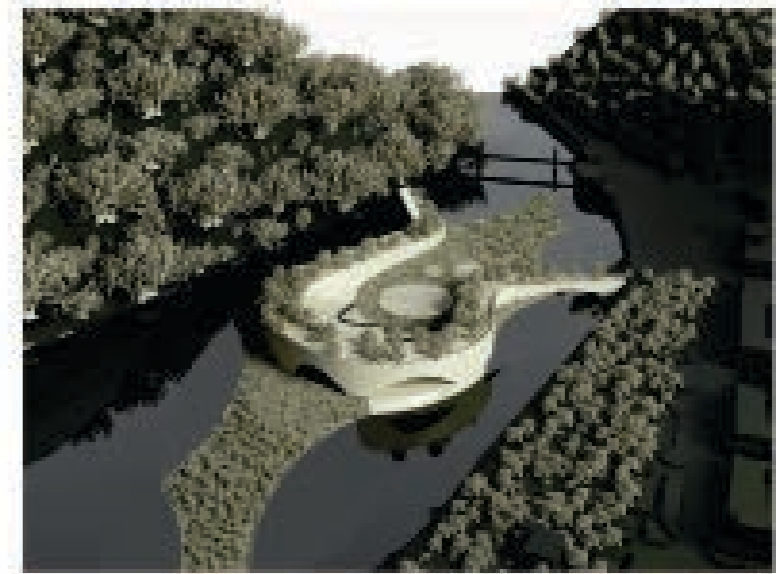


Reference: bank reinforcing structure

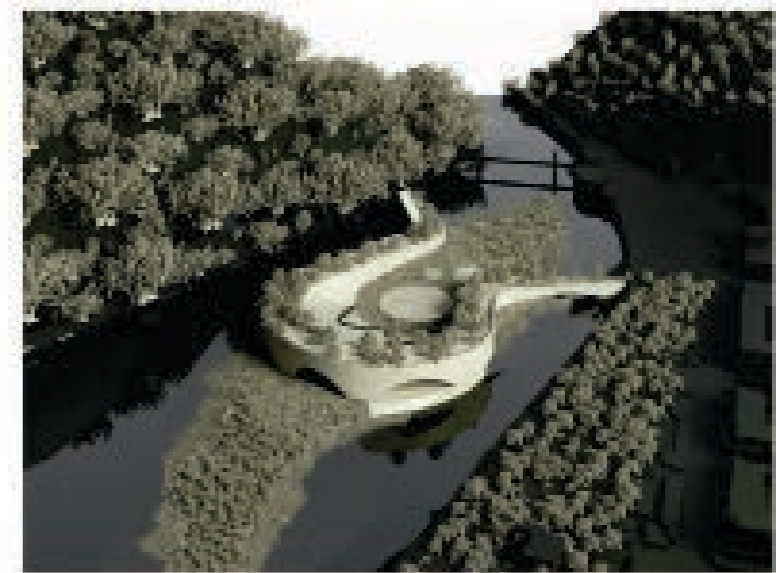
Water level diagrams



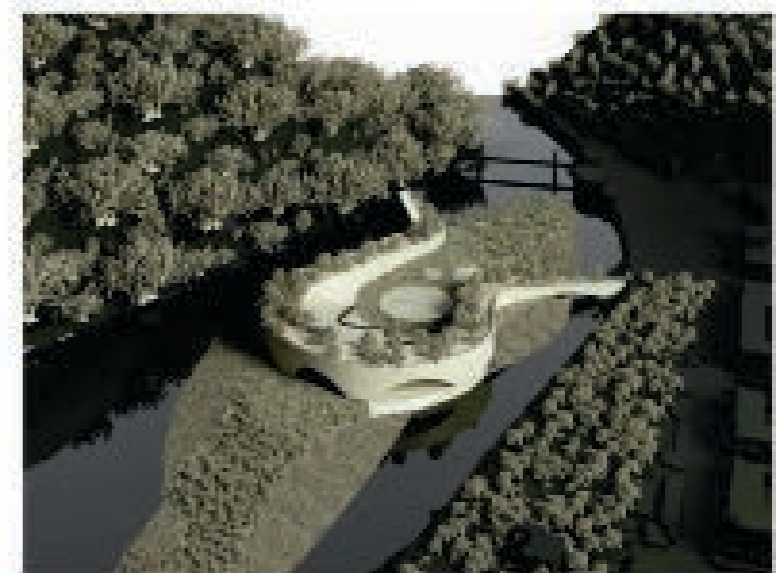
Maximum water level
WET SEASON +59.80 m



Intermediate water level



Minimum water level
DRY SEASON +51.80 m



B - MATERIALS AND CONSTRUCTION

Structure and construction methods

A key element of the proposed project is the shape of the new bridge according to the traditional image of ancient historical and rural bridges, taking inspiration to local building traditions and materials, as seen in Ura e Gorica bridge.

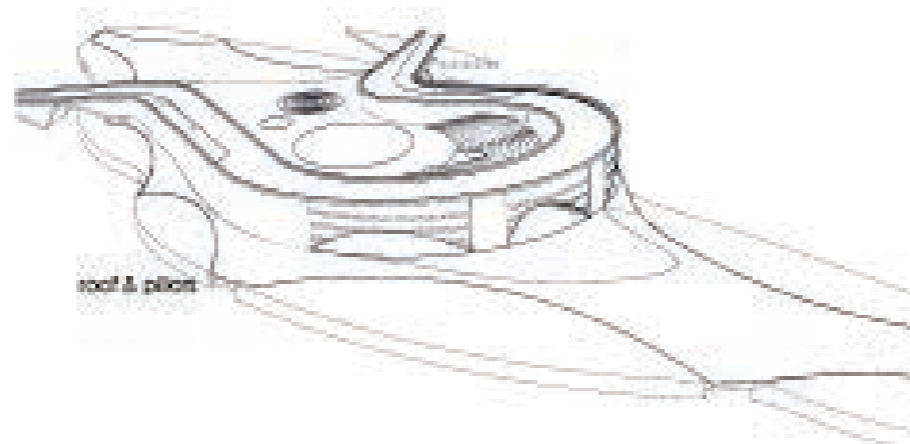
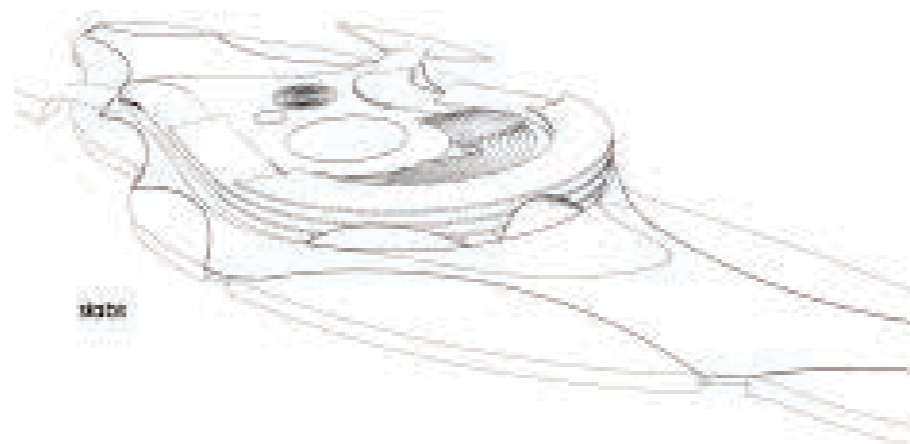
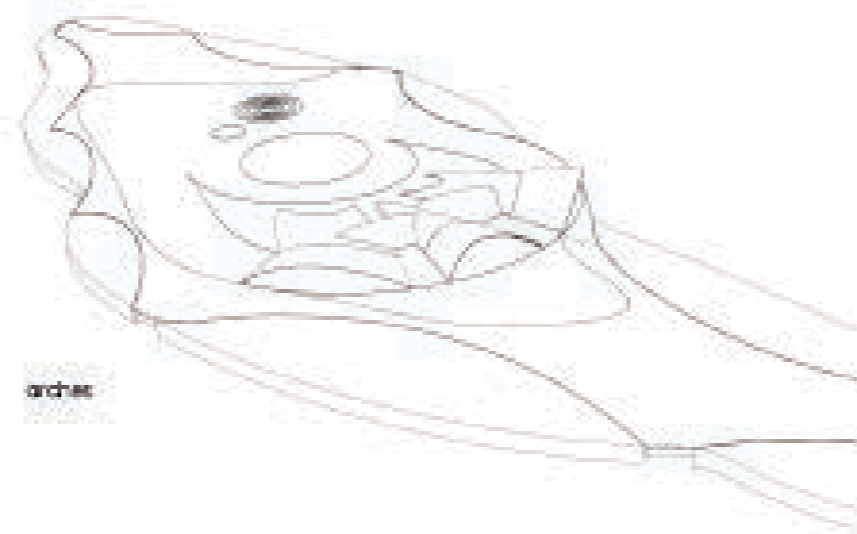
This allows to reconfigure a unified and continuous image of the building crossing the river.

The use of arches and vaults configure the pillars of the building, in which are located the vertical connections, creating external covered areas rebuilding a solid edge and creating multiples visual cones to the surrounding landscapes.

The structural design provided will mainly focus on using concrete elements for vertical pillars and horizontal elements, as the slab of the roof garden or the slab of the driveway, to ensure stability and durability of structures considering the humid environment we are working in due to the presence of Osumi river.

Concrete foundation is realized using micropiles, to structural loads to the depth soil, passing the riverbed that is not stable enough.

The proposed vaulted basement will be constituted by a main regular metal structure plus a secondary one that will bear the load of soft shaped parts.



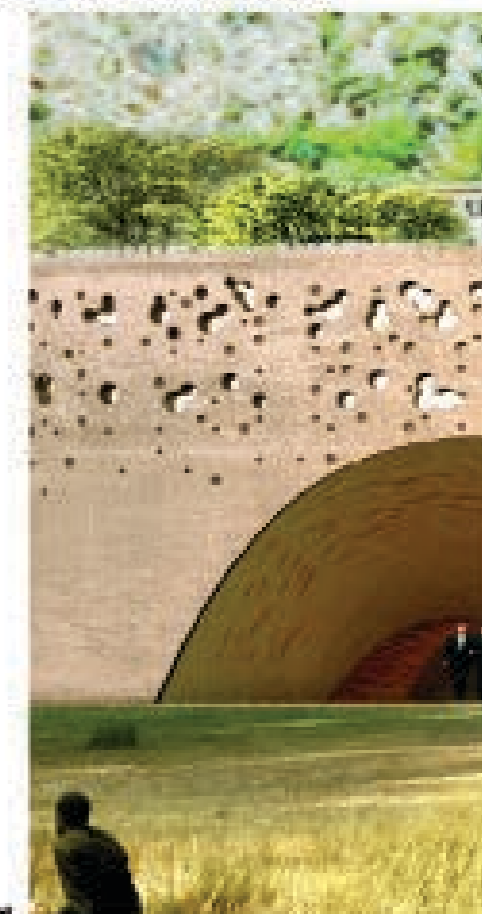
Façade design and materials

The proposed solution for the facade of the bridge/building has as objective the unity of the overall image, creating a subtle reference to the local traditional architecture, however, a composition characterized by a strong contemporary style.

To meet the highest aesthetic and ecological construction requirements, we would mainly used natural materials such as stones, ceramics, woods, metal, mounted according to dry-laying systems.

To achieve a unified image both internally and externally it is very important the proper use of few materials that well respond to the performance requirements dictated by the local climate and the presence of the river as humid source.

The façade will be made by prefabricated concrete panels, to ensure stability and durability of structures considering the humid environment, characterized by special round windows.



Facade Detail

Roof

The roof is a pedestrian walkway planted with trees, shrubs and grass and organized with benches.

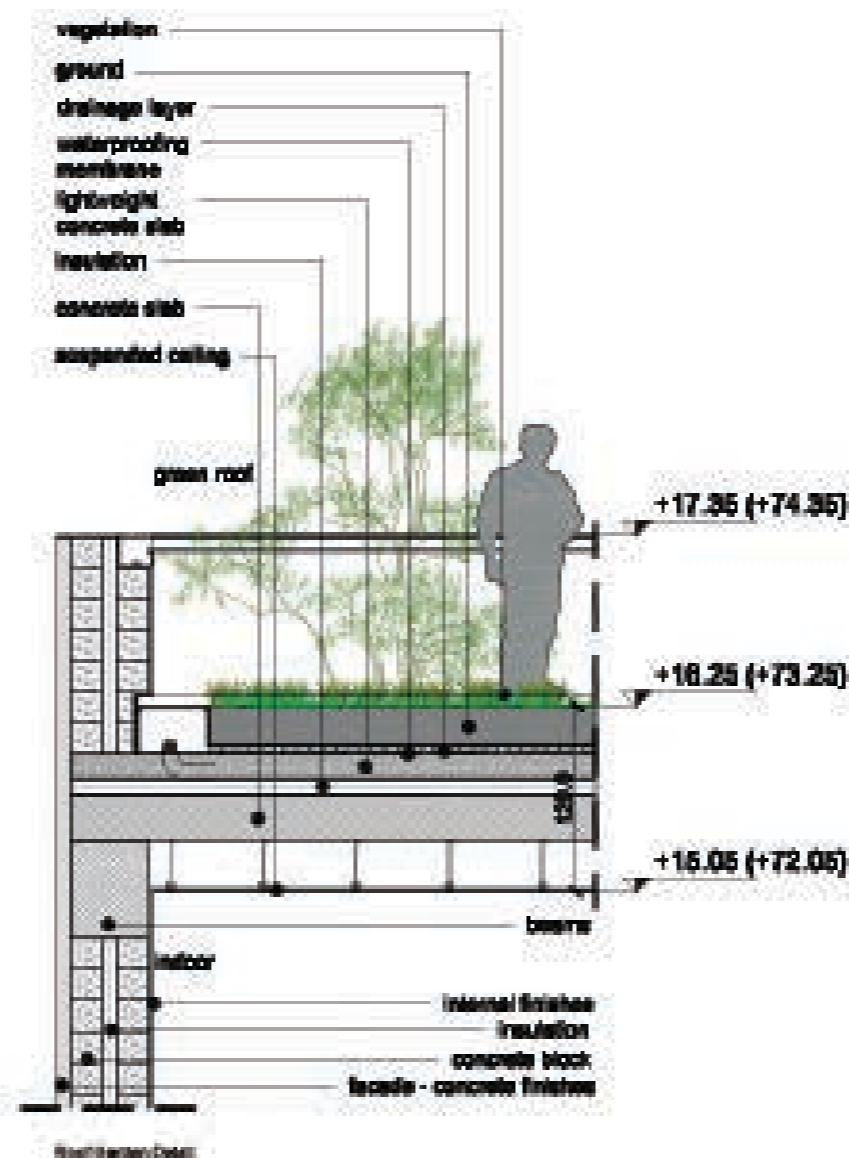
The roof garden is completely covered with vegetation planted on high fertility soil, to ensure the durability of plants. The structural slab is made by prefabricated concrete elements.

The most important features are the quality of the substrate, the amount of water accumulated, the supporting surface of the element of accumulation and the opening in the pores of the fabric filter. It is usually a system that has reduced thickness and weight to allow it to be used in roofing and requires little maintenance, as it is used a vegetation composed of essences of sedum that must be able to survive in situations of extreme drought, with high capacity for regeneration and self propagation.

It is a finishing technology that provides several benefits cover the building as protection sealing, adjusting the microclimate thanks to the lowering of the temperature in the urban environment and the fight against the heat island effect, isolation heat and therefore energy saving, the reduction of the presence of fine particles, creating new habitat for wildlife, the control of stormwater, in addition to reduced environmental impact and aesthetic.

It is generally composed of a "package" of more layers which comprehends:

- Diaphragm (or mantle) waterproof anti-root
- Separation layer and protection of waterproofing membrane
- Layer of drainage and water storage
- Fabric filter
- Substrate culture
- Vegetation



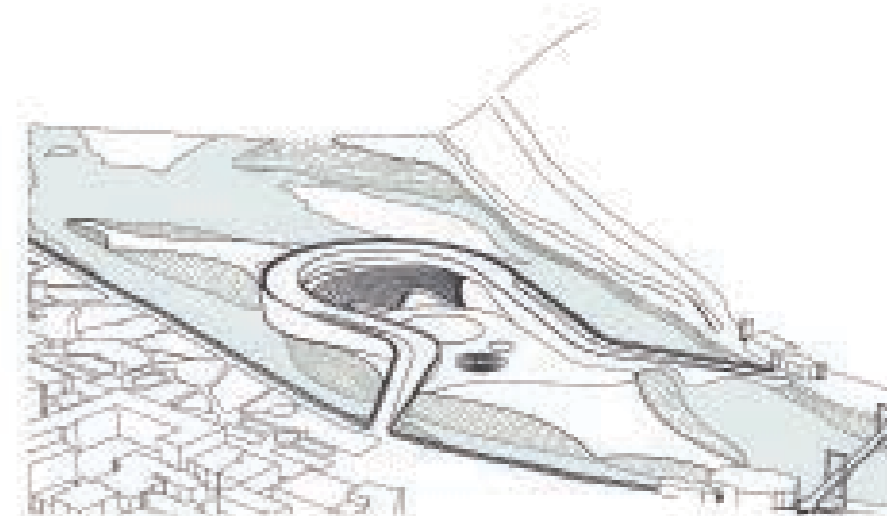
Technical plants

Our partners engineer's innovative design solutions embrace the latest technologies to improve a building's performance and sustainability. Integrated building services systems creating a balanced and controllable internal environment: natural ventilation, heating and lighting systems, combined with active systems, such as air conditioning, to provide a high level of comfort and operational efficiency.

To achieve the most appropriate solution we adopt a holistic approach, considering all aspects of the design process from 'abstract' issues such as occupant wellbeing to the detailed analysis of mechanical components and the impact of

environmental regulations on the building's form and energy usage. Using sound building physics principles and advanced modeling techniques to analyse the envelope and spatial layout, our systems are integrated into the building fabric to create functional internal spaces and balanced, controllable conditions. Building services represent a significant planning and cost factor on any building project, so it is essential to provide a fully integrated design solution that is delivered on time, on budget and which embraces the latest technology.

Designed to provide optimum levels of occupant comfort all year round, our MEP systems set a new benchmark for efficiency and sustainability.



View of the Open Theater



Sustainable designs

Energetic containment and reduction of the environmental impact due to the greenhouse effect, in response to the current global emergencies - represents the key factor that should lead the design, integrating building and systems solutions.

In other words, a green approach should be applied to the design of buildings, as every design choice has environmental implications.

Our design intentions converge to a proposal that has as its ultimate goal in respecting the environment and a high level of welfare of the users.

We indeed intend to adopt the following solutions in order to highly meet the criteria of a sustainable design:

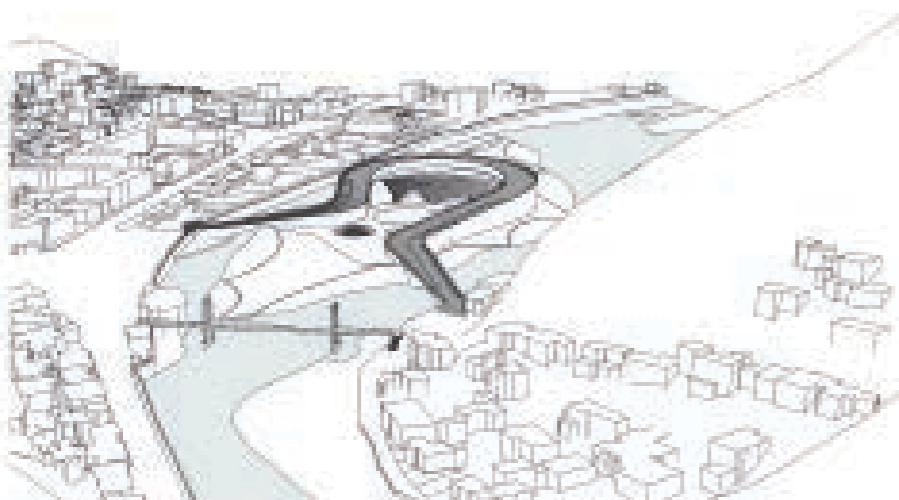
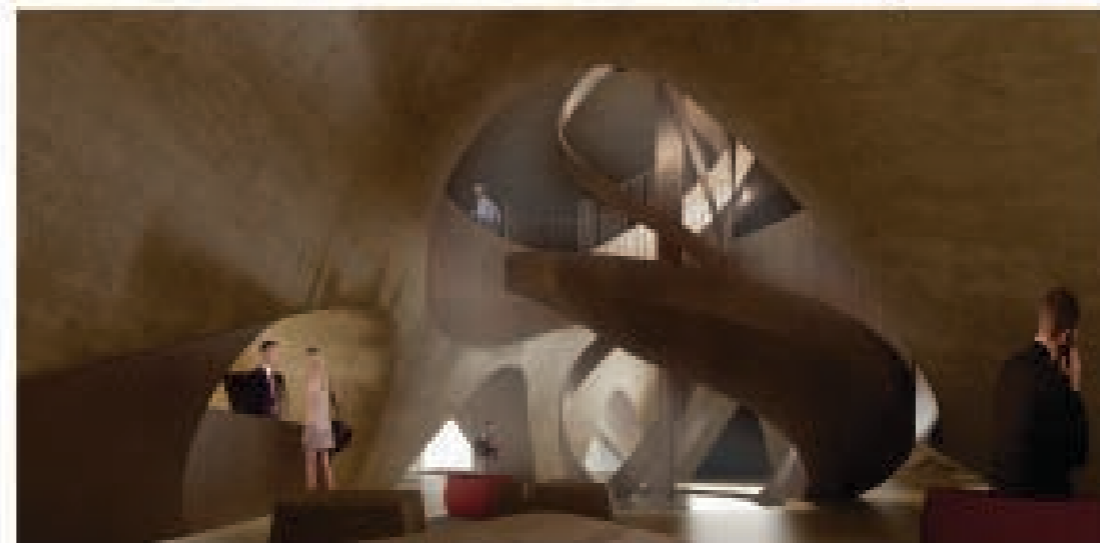
- The reduction of direct solar radiation through the use of modular shading

elements. This will help to avoid overheating as well as guarantee a softer natural lighting of the interior space.

- The insulation of the building shell through accurate definition of the insulation thickness for the opaque parts and a careful choice of the glass for the transparent surfaces, gaining a sensible reduction of energy requirements to cool the living areas.

- Plant efficiency that will reduce fuel consumption without compromising the overall performance.

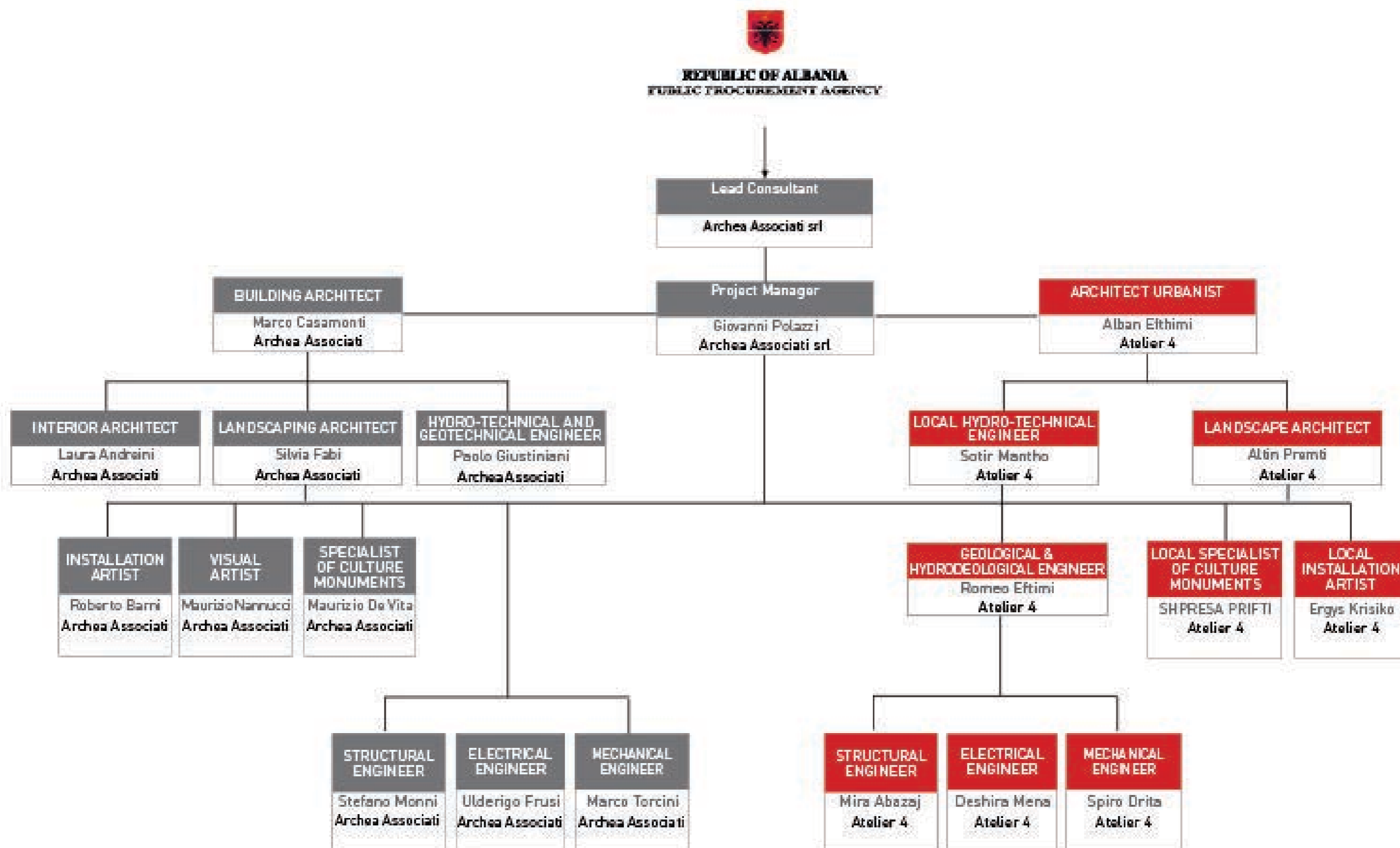
- The use of bio-ecological materials such as ceramic, stone and dry construction system.

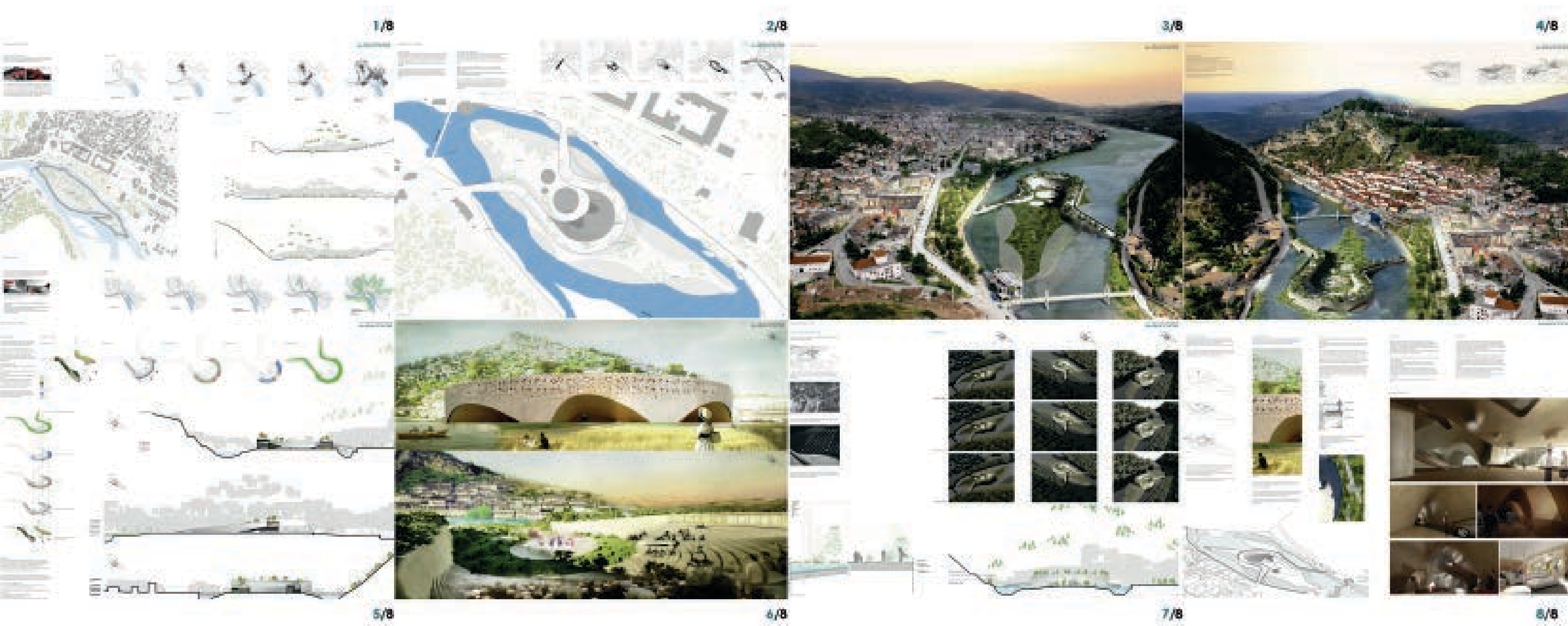


C_ INVESTMENT COSTS ESTIMATION

	Architechture &Engineering	Build Up Area (BUA)m2	Construction Cost Euro /m2	Cost Estimate (Euro)
1	Riverbanks:13.350mq	13.350,00	100	1.335.000,00
2	Green area: 18.400mq	18.400,00	50	920.000,00
3	Open air theatre: 2.000mq	2.000,00	300	600.000,00
4	Green roof + Trees : 5.755mq	5.755,00	50	287.750,00
5	Façade area:8.300mq	8.300,00	150	1.245.000,00
6	Building total: 20.535mq	20.535,00	630	12.937.050,00
	Ground floor: total 9.066mq	9.066,00		
	First floor: total 6.045mq	6.045,00		
	Second floor: total 3.112mq	3.112,00		
	Third floor: total 2.311mq	2.311,00		
7	Vertical Connections	750,00	720	
8	Lifts: 42mq	6,00	25000	150.000,00
	TOTAL VALUE			17.474.800,00
	CONTIGENCIES	5%		873.740,00
	TOTAL INCLUDING CONTIGENCIES			18.348.540,00
	TOTAL ADDED VALUE (TVSH)	20%		3.669.708,00
FINAL TOTAL				22.018.248,00

D_ LIST OF ALL MEMBERS OF THE DESIGN TEAM AND THEIR ROLES

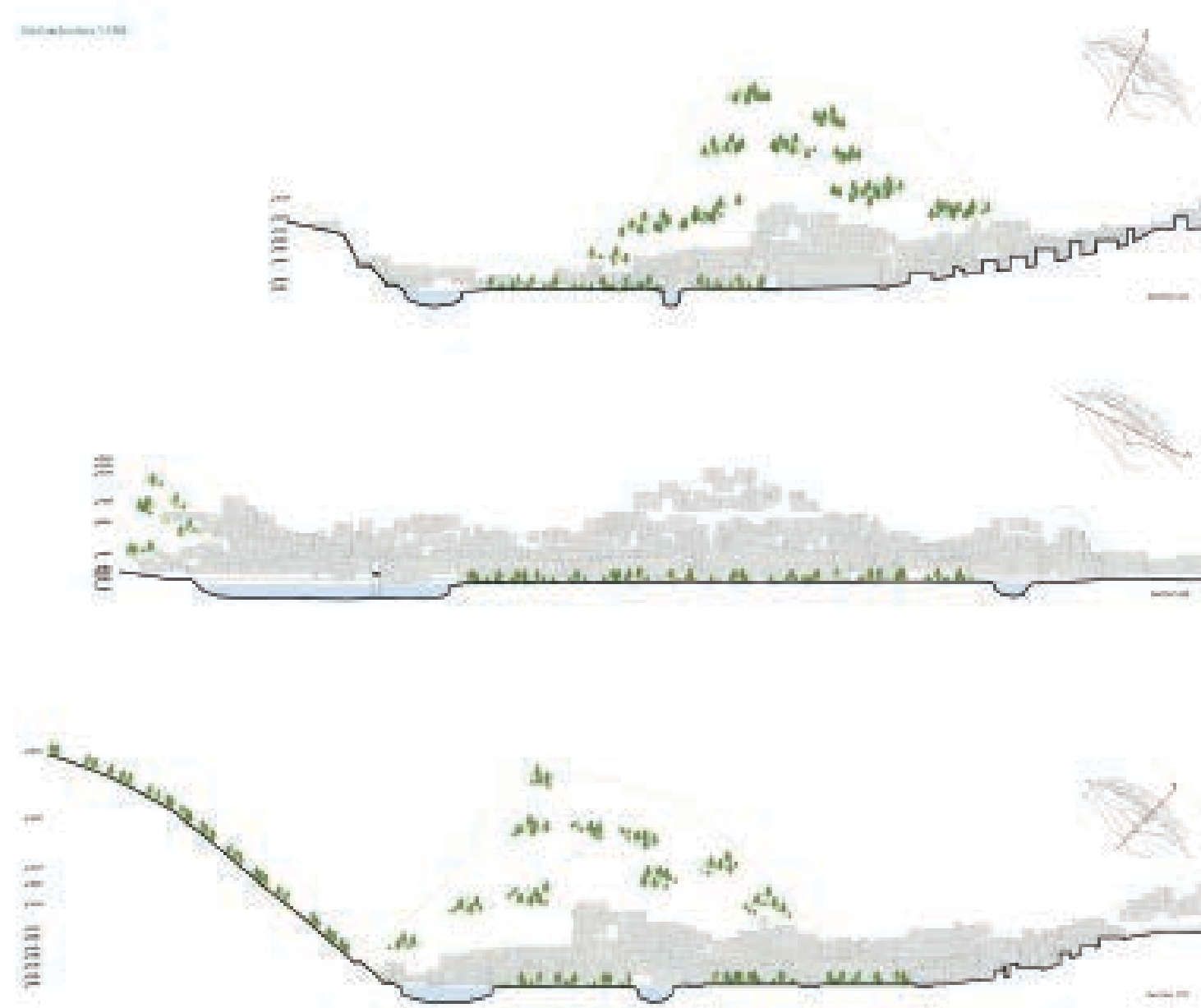




Open water landscape design
Build a water plaza adjacent to the public square and the waterfront
parkway, parallel to the waterfront line. Surrounding the plaza is a
series of water landscaping elements on site.



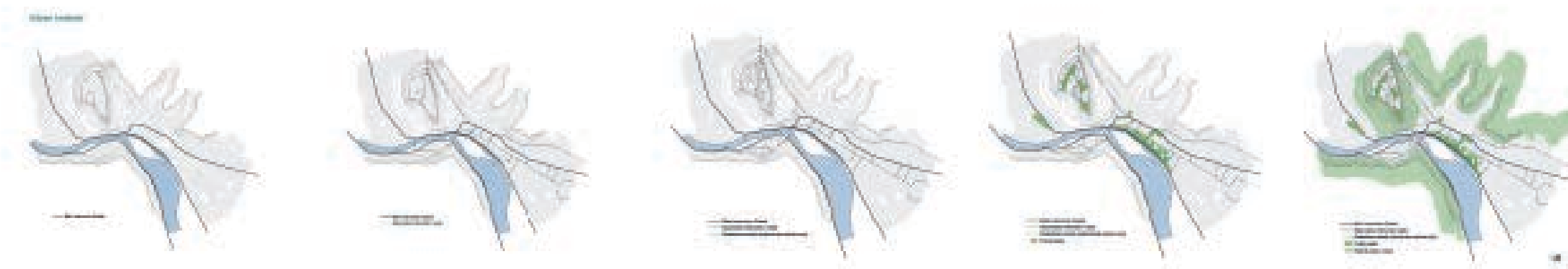
By the waterfront, a large architectural plaza with a fountain
called "Sea of Windows" will be built. The plaza will be a
public square, surrounded by a large commercial area, "Town
Center". It will be a public square with a fountain, and it will
be a public square with a fountain, and it will be a public square
with a fountain.



The design of a waterfront plaza with water elements is a key
element of the urban design. The design of a waterfront plaza
with water elements is a key element of the urban design. The
design of a waterfront plaza with water elements is a key
element of the urban design.



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element of the urban design. The design of a waterfront plaza
with water elements is a key element of the urban design. The
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element of the urban design.



Concept strategy
 A development strategy for a park located in the heart of the city. The park is designed to be a new window to the city, providing a view of the city from the park. The park is designed to be a new window to the city, providing a view of the city from the park. The park is designed to be a new window to the city, providing a view of the city from the park.

Conceptual context map
 The park is located in the heart of the city, providing a view of the city from the park. The park is designed to be a new window to the city, providing a view of the city from the park. The park is designed to be a new window to the city, providing a view of the city from the park.





Project description:
 The main objective of this project was to create a new window to the town of Pinar del Rio, a small town in the mountains of the Dominican Republic. The project was initiated by the local government and the architect's office, with the aim of creating a new public space that would be a landmark for the town and a symbol of its identity. The project was carried out in a collaborative manner, involving the local community and the architect's office. The project was completed in 2015 and has since become a landmark for the town.

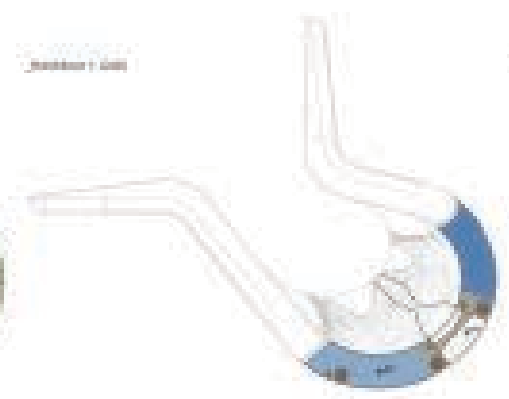
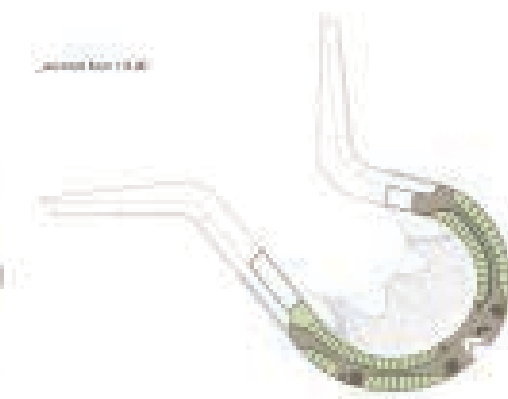
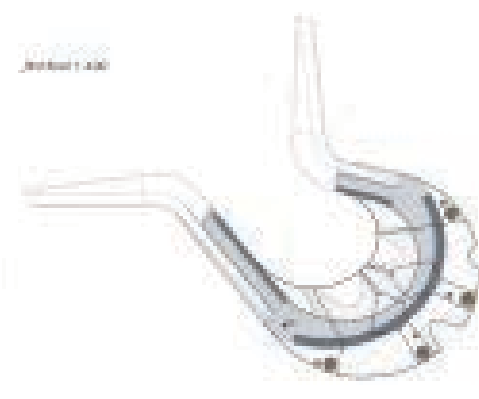


FUNCTIONAL PROGRAM

To develop the content of the structure of the initial city and transportation design is an urban environment being transformed which is attached to a river.

Through a series of steps, the structure of the initial city and transportation design is an urban environment being transformed which is attached to a river. To develop the content of the structure of the initial city and transportation design is an urban environment being transformed which is attached to a river.

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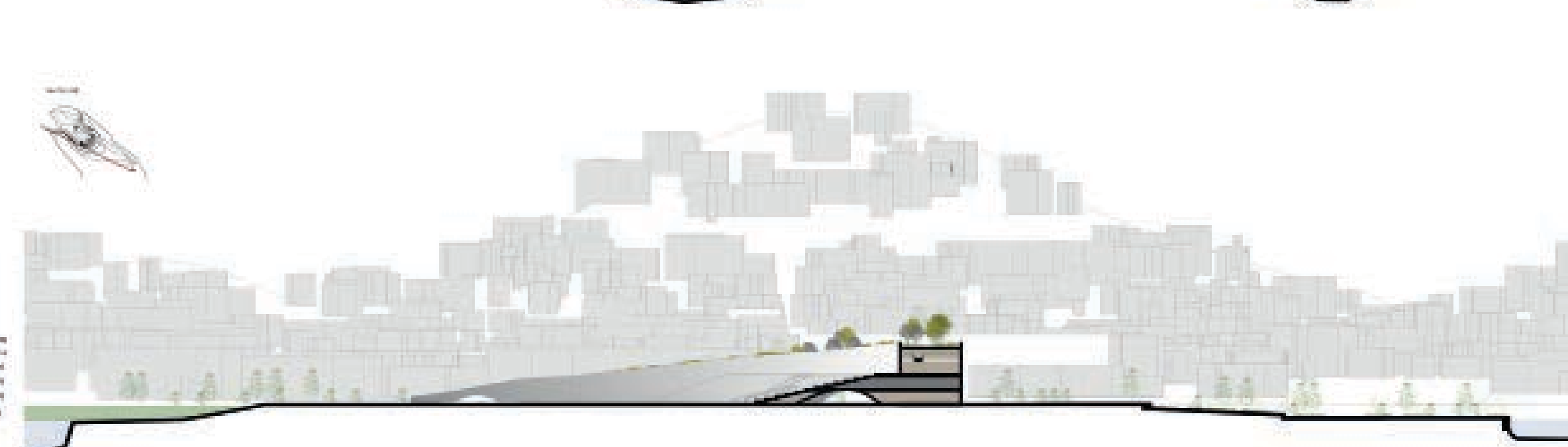


FUNCTIONAL PROGRAM

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FUNCTIONAL PROGRAM

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Integration of building and landscape design

The design of the pavilion and walkway is integrated with the landscape design of the park to create a seamless experience.



The pavilion and walkway are designed to be a seamless part of the landscape, creating a new window to the town.

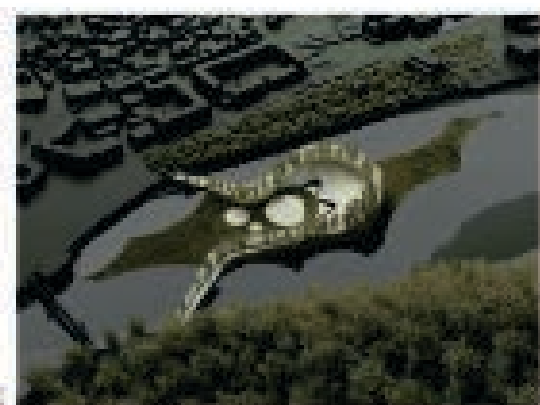
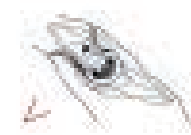


The pavilion is designed to be a seamless part of the landscape, creating a new window to the town.

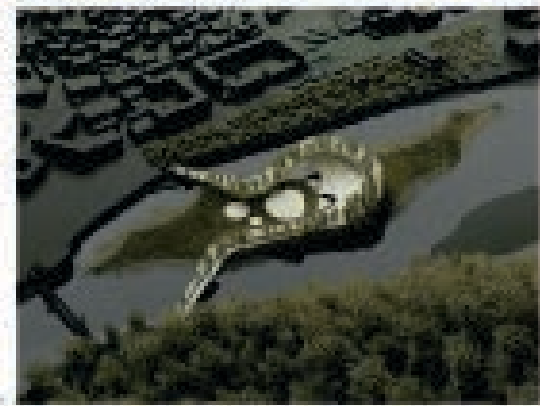


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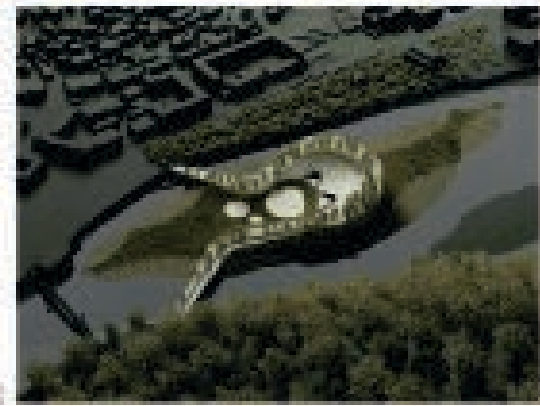
Water and design



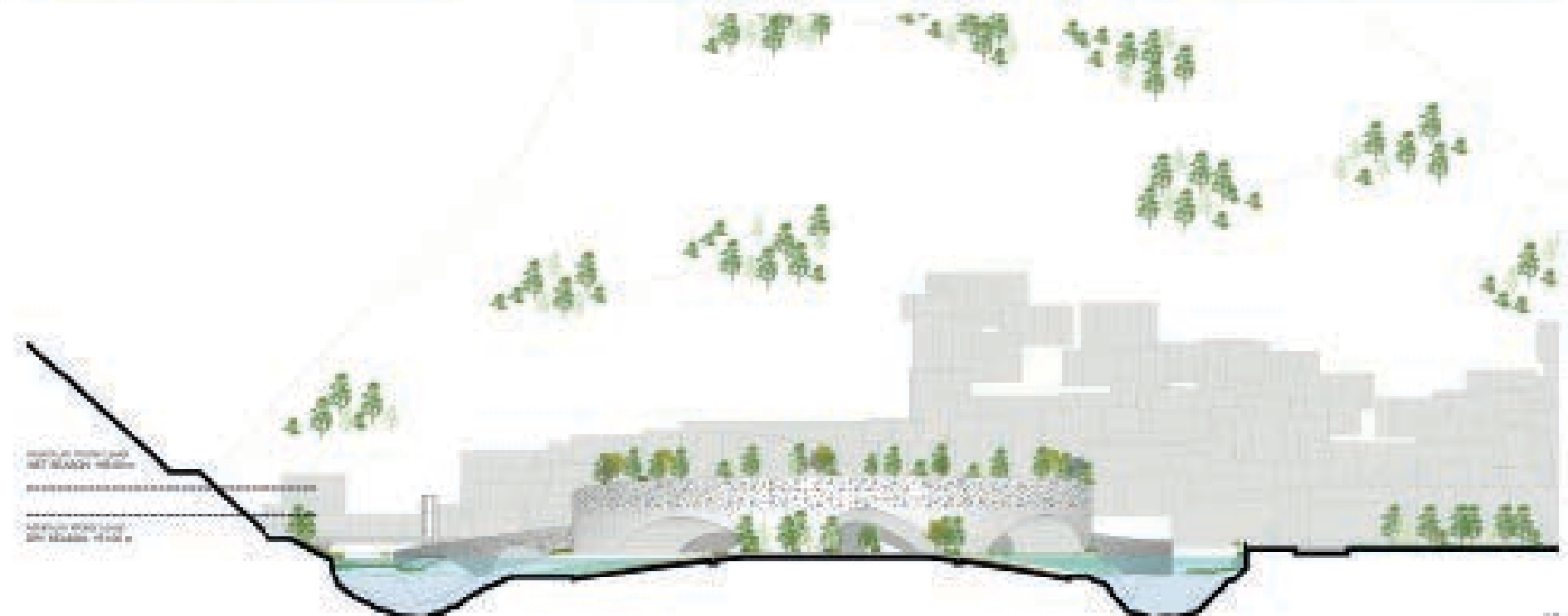
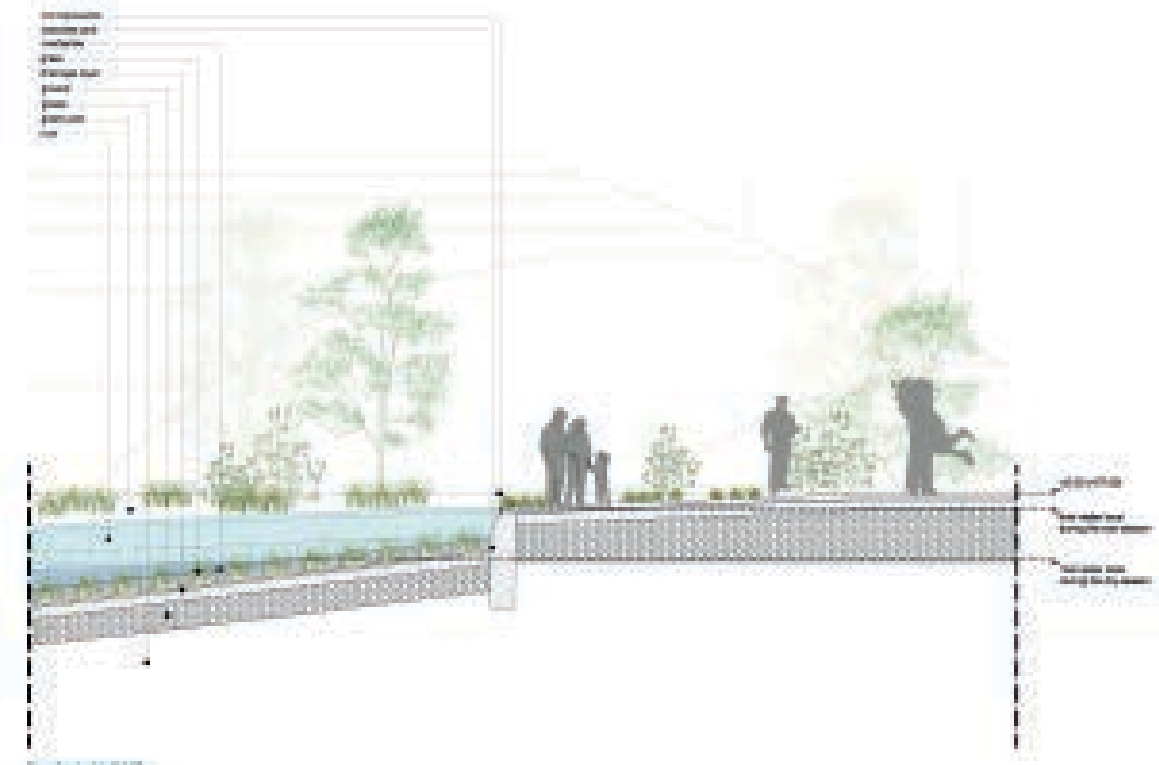
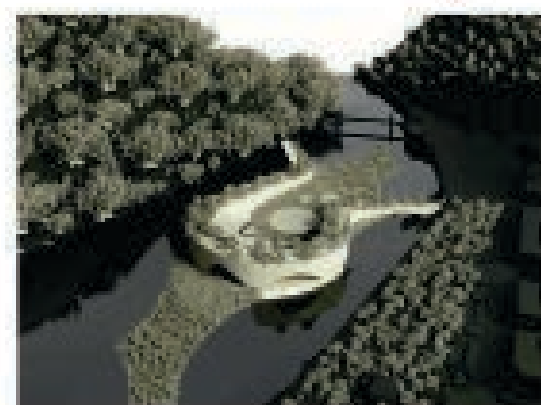
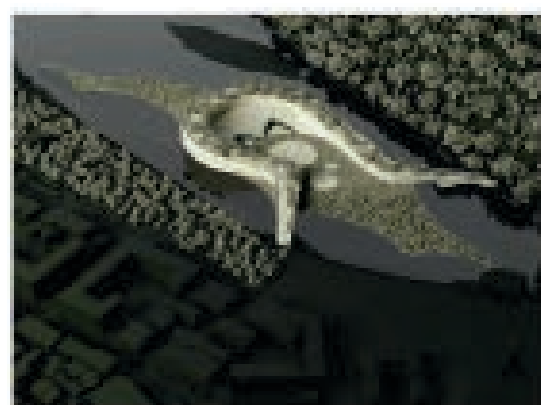
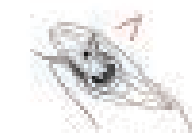
Water and design



Water and design

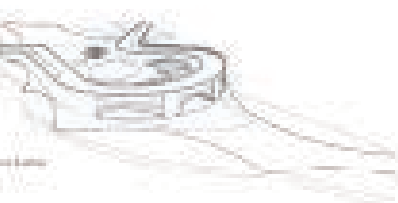


Water and design



Workshop architectural section
The concept of the proposed section is to show a high-resolution architectural section that illustrates the building's structure, including the building's facade and interior spaces, as well as the surrounding environment, as seen in the 3D rendering.

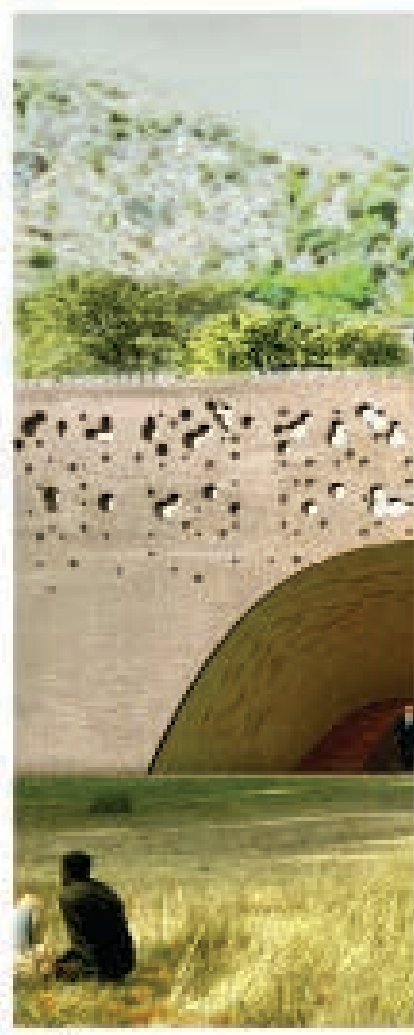
The use of a section to illustrate the building's structure is a key element of the architectural design, as it allows the viewer to see the building's internal structure and how it is integrated with the surrounding environment.



The building's facade is a key element of the architectural design, as it allows the viewer to see the building's internal structure and how it is integrated with the surrounding environment.

The proposed section is a key element of the architectural design, as it allows the viewer to see the building's internal structure and how it is integrated with the surrounding environment.

Section design and construction
The architectural design for the building's facade is a key element of the architectural design, as it allows the viewer to see the building's internal structure and how it is integrated with the surrounding environment.



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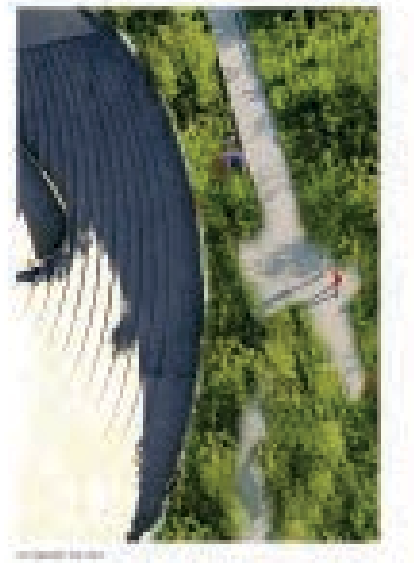
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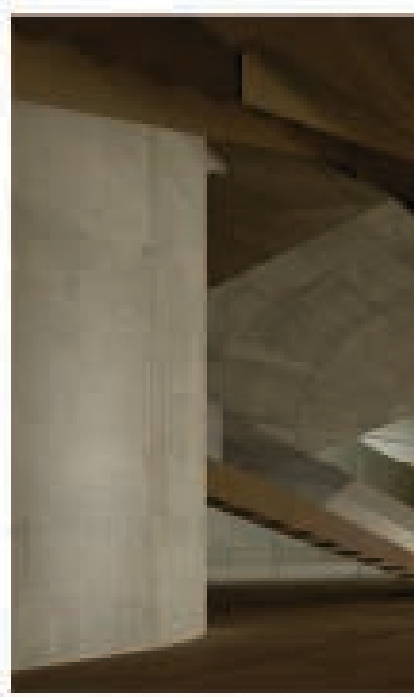


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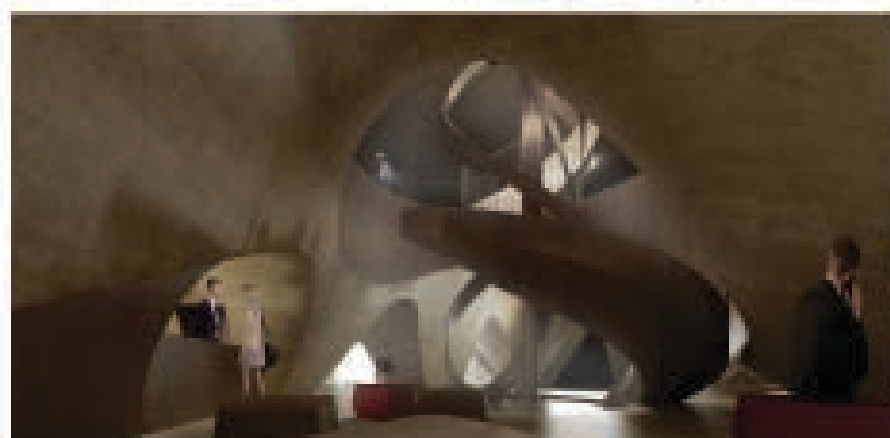
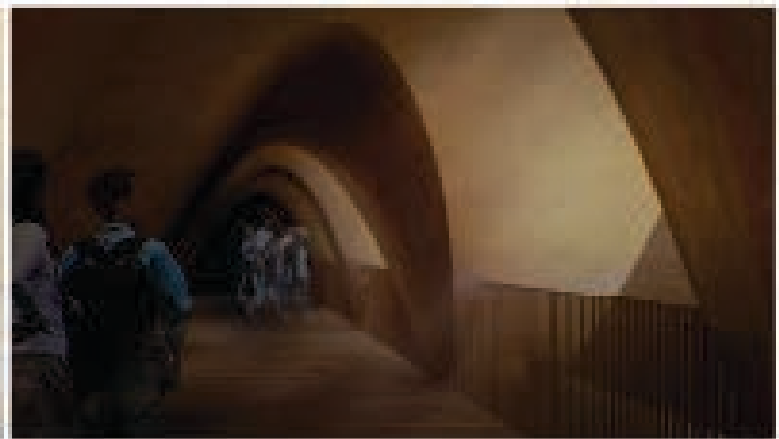
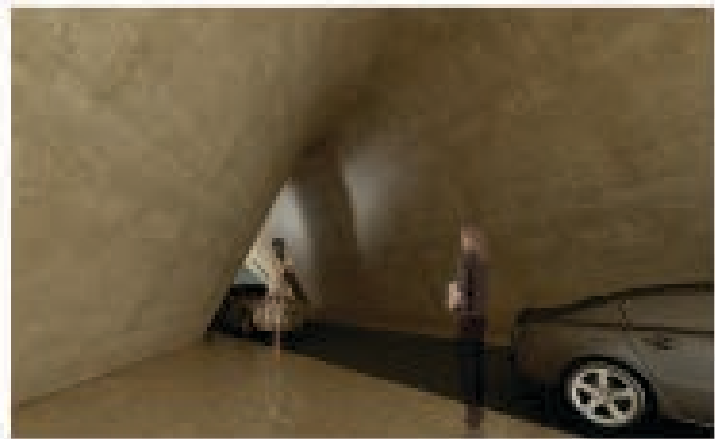
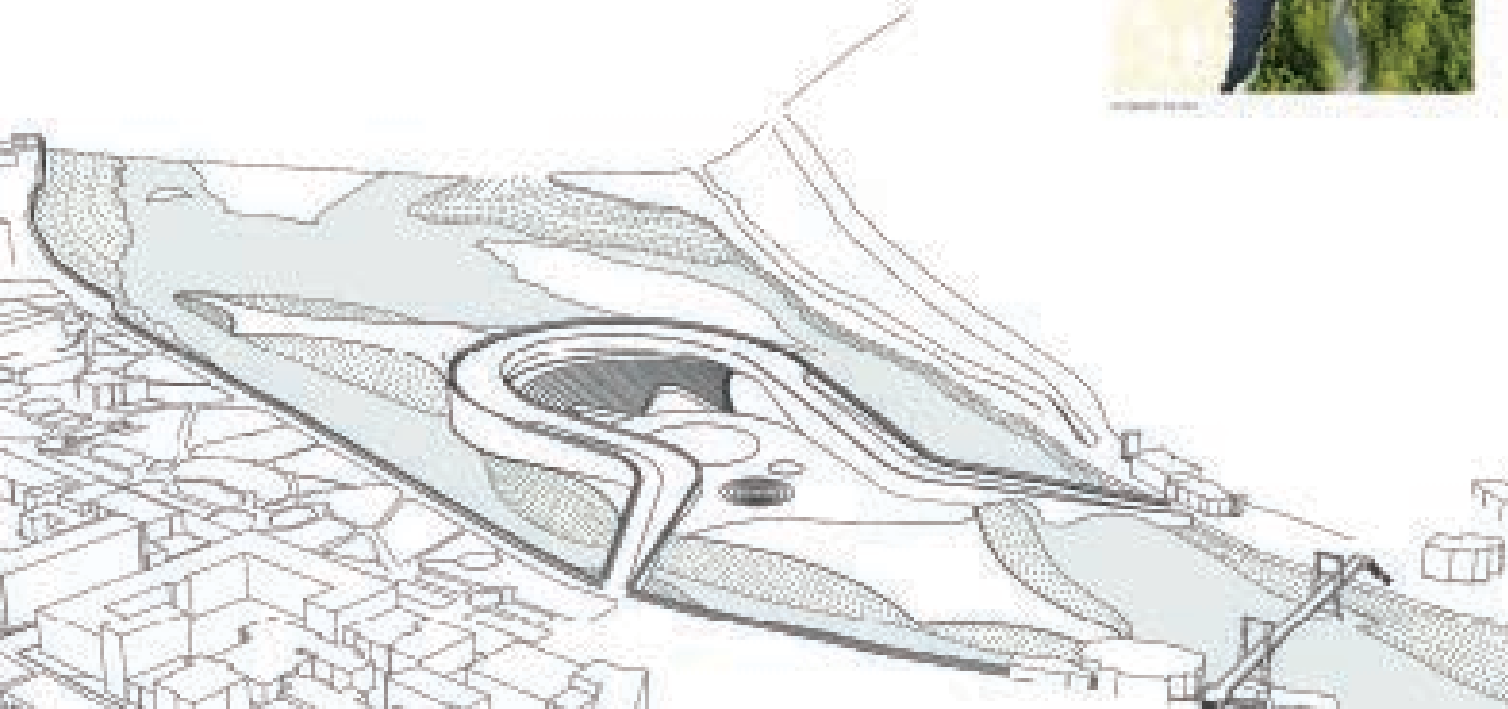
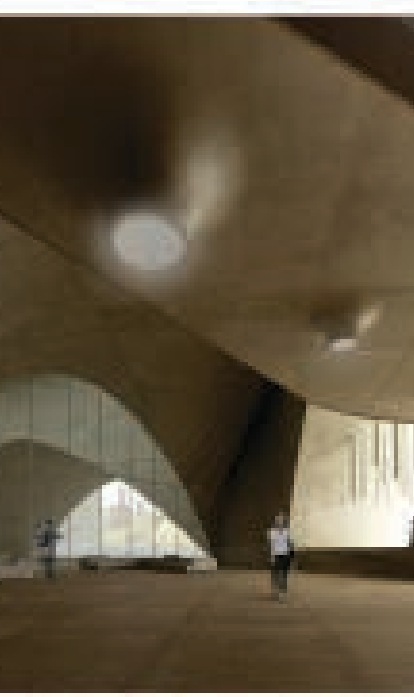


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