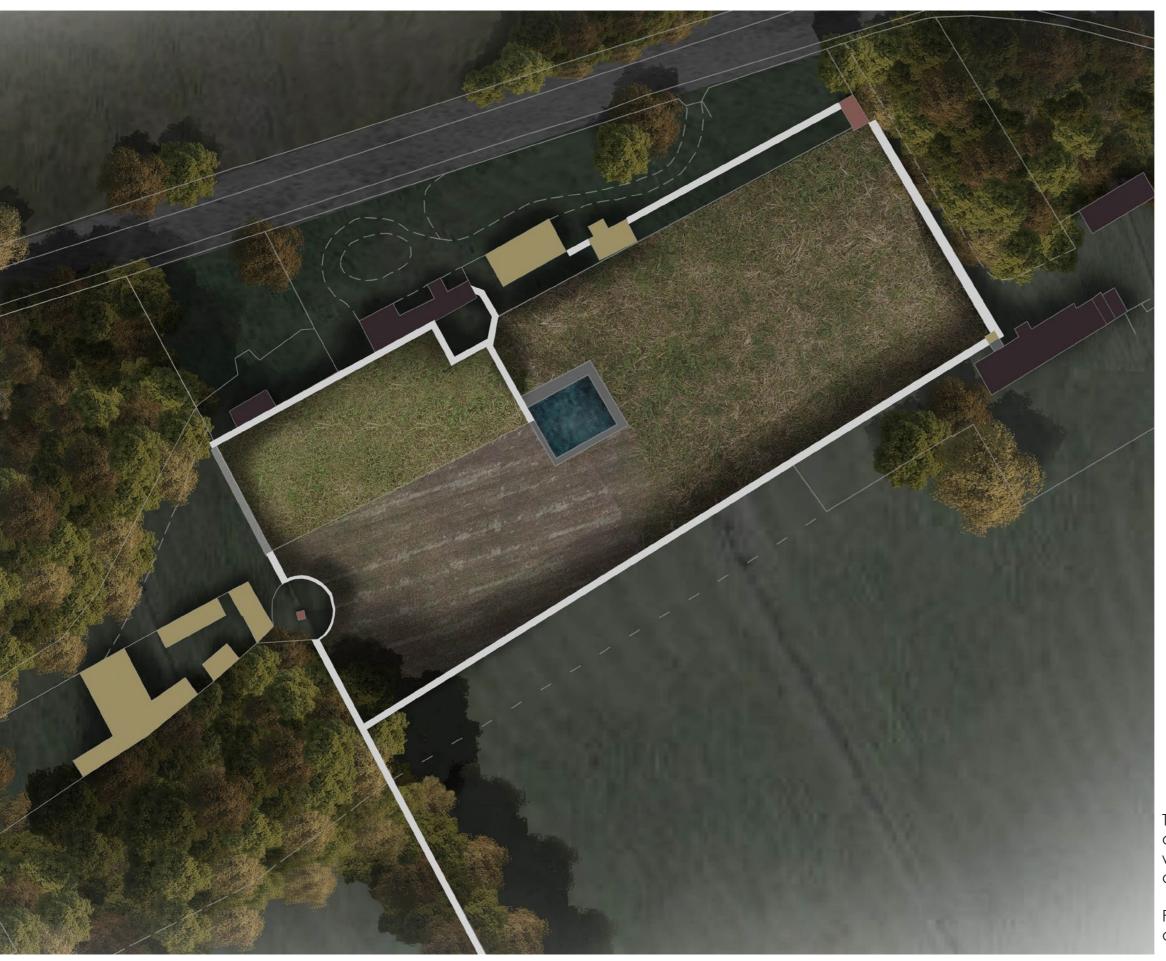


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The site



The productive garden is located on the east site of the Delaval's property and its initial function was to produce exotic fruits and vegetables in order to support the lavish dinners of the family.

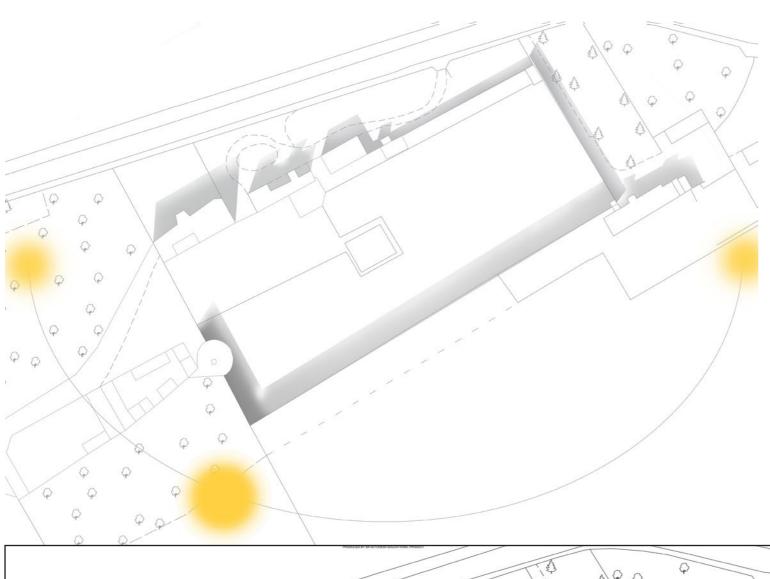
Furthermore it was acting as a proof of wealth and power.

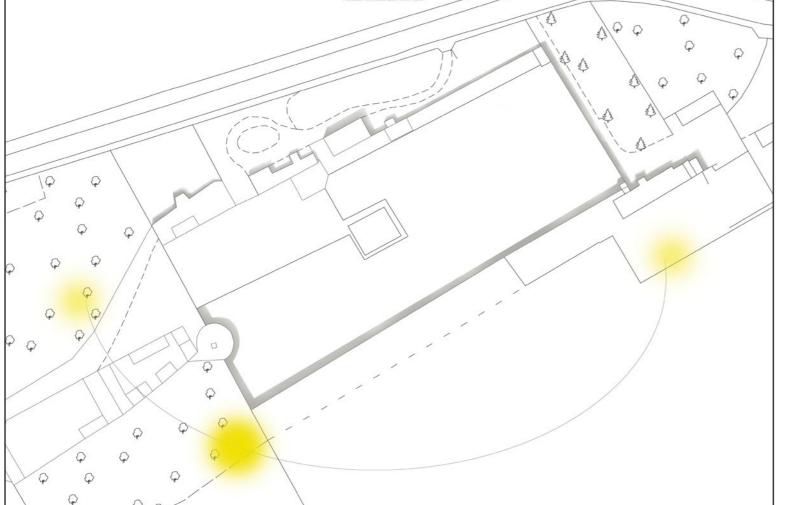
Shadows – Sun path

Winter sun path with shadows -Sun Angle 58 degrees

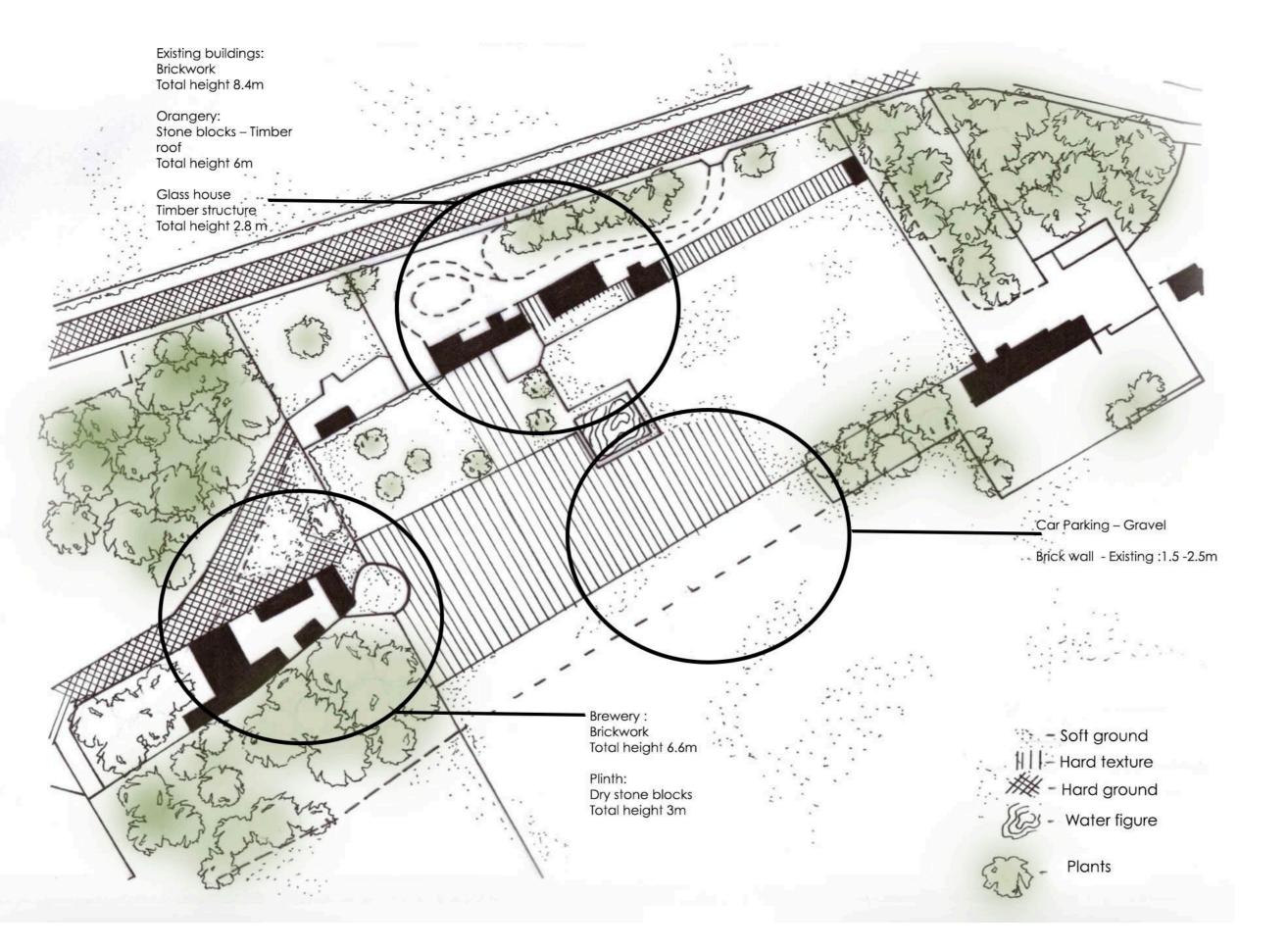
Summer sun path with shadows -Sun Angle 13 degrees



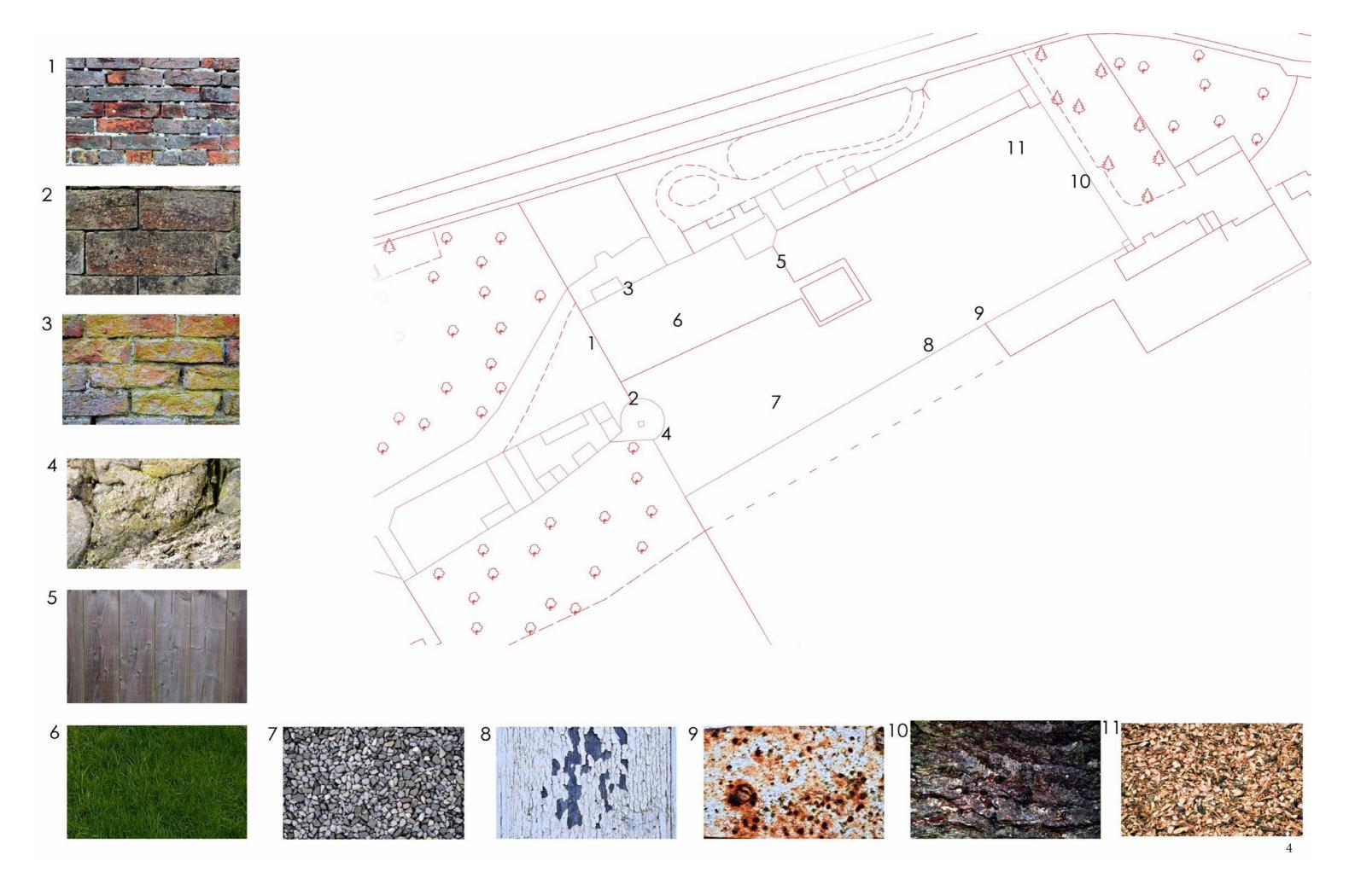




Physical Constrains



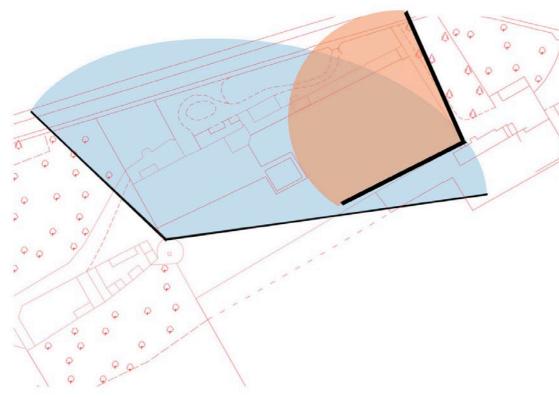
Textures and Materials



Views

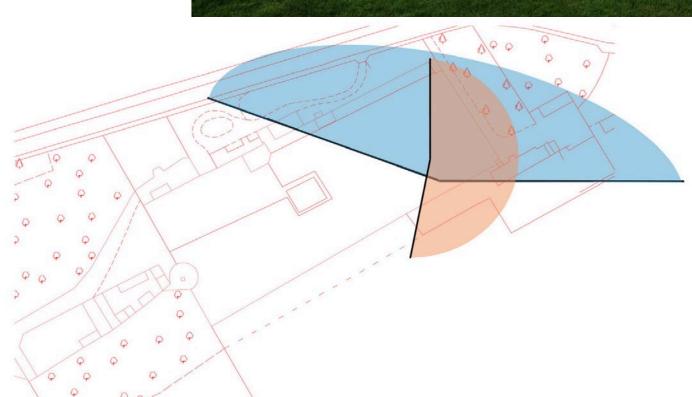




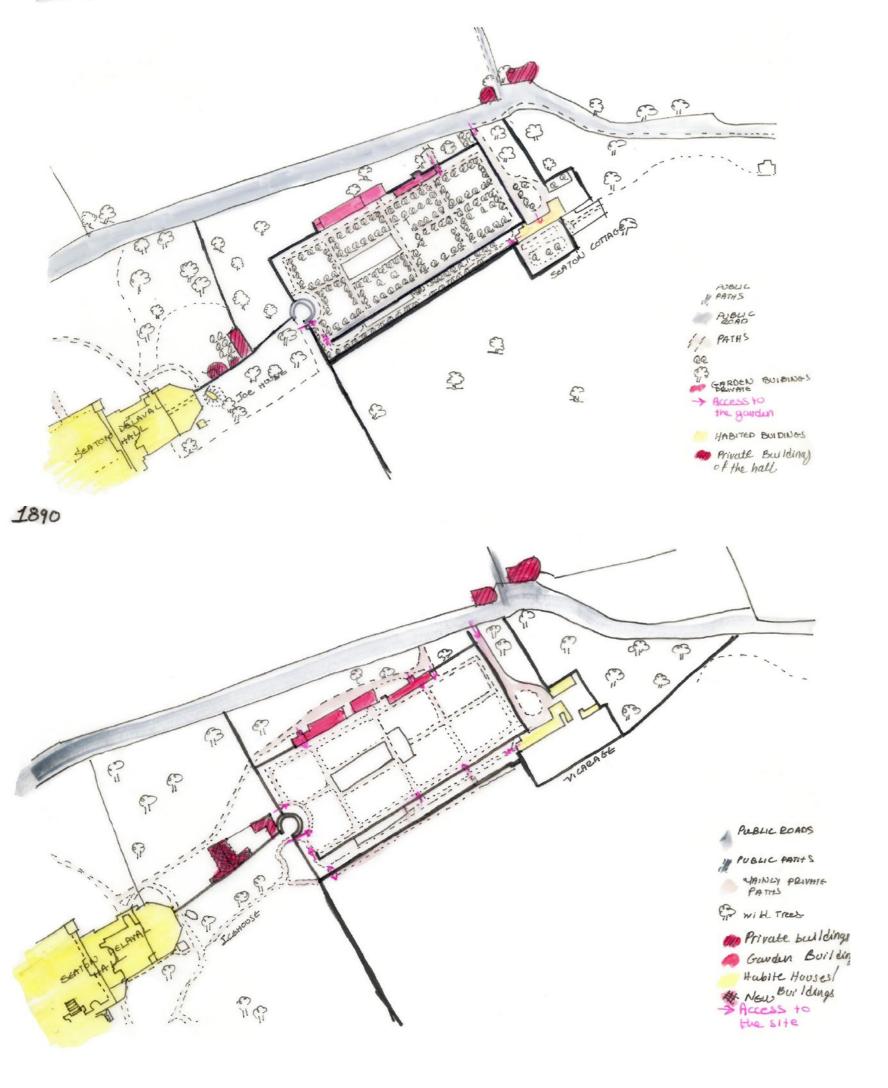








The panoramic views within the site that they highlight key areas of the garden



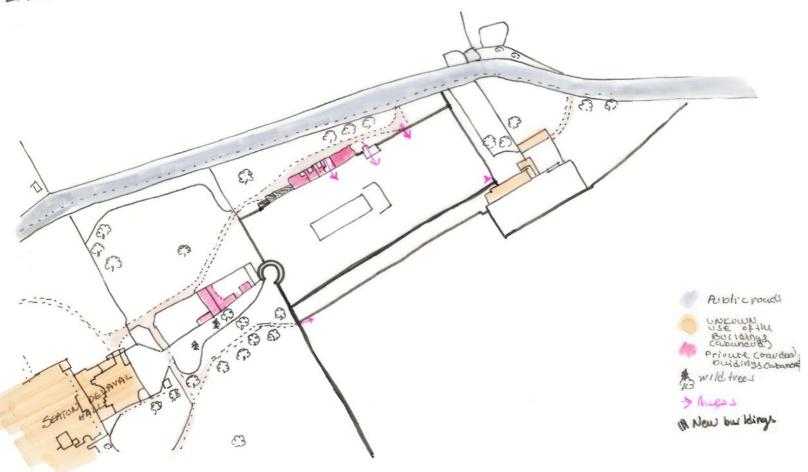
Looking back to the history of the site through the maps.

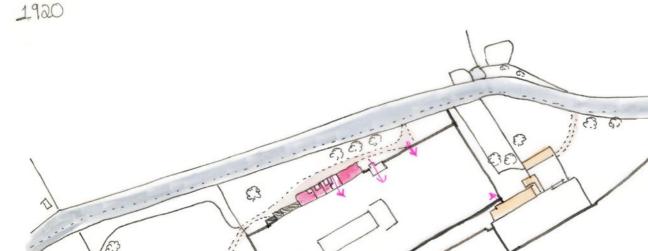
By studying the history of the hall and the families lived there in combination with the political situation of the country through the years we can identify clear reflections of how the site was used all the way from 1850s until now.

At the beginning of the 1850s the walled garden has been used for growing products for the family and their lavish parties reflecting Delavals' social status.

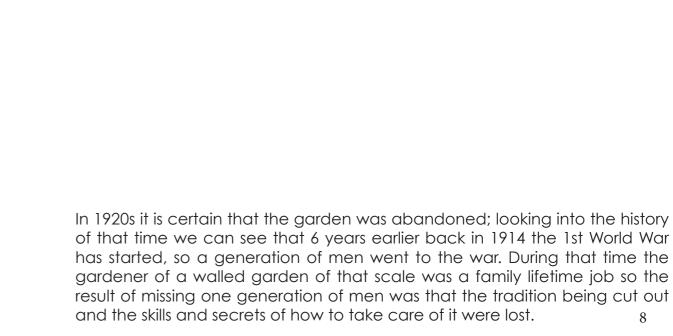
The map illustrates the landscape design of the garden (small paths within the garden), and the way that the gardeners were using to circulate the garden.







3



Public roads

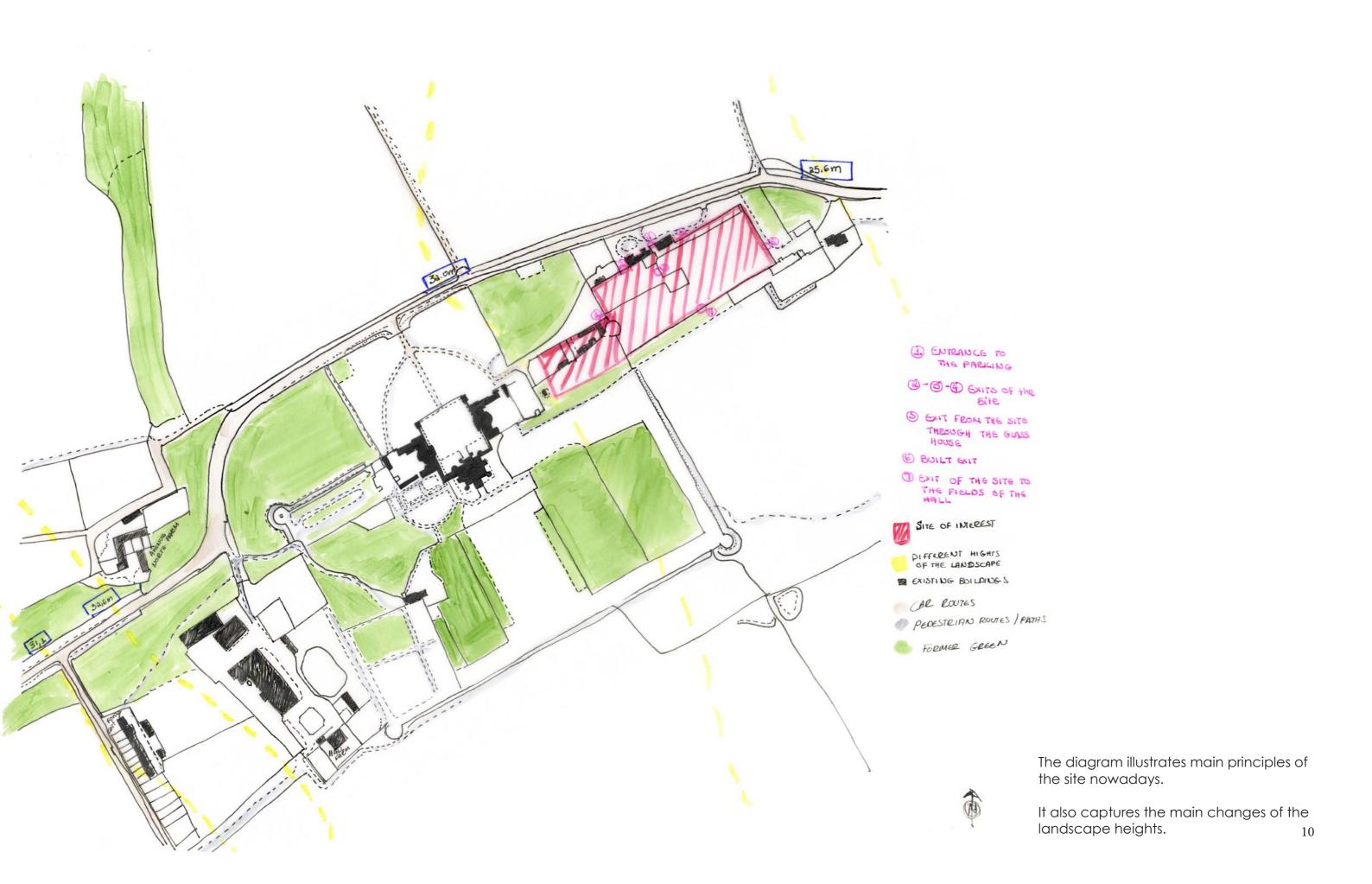
Wild trees

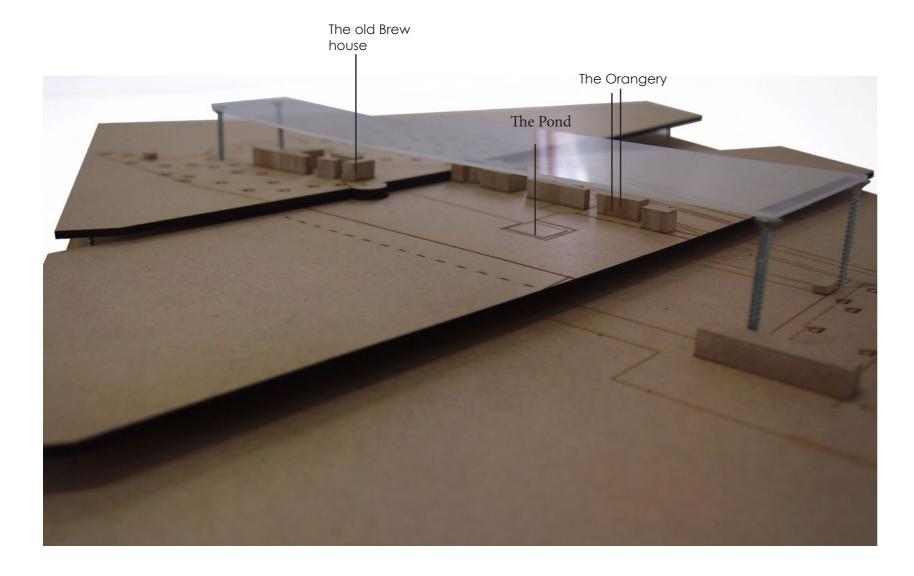
of New buildings

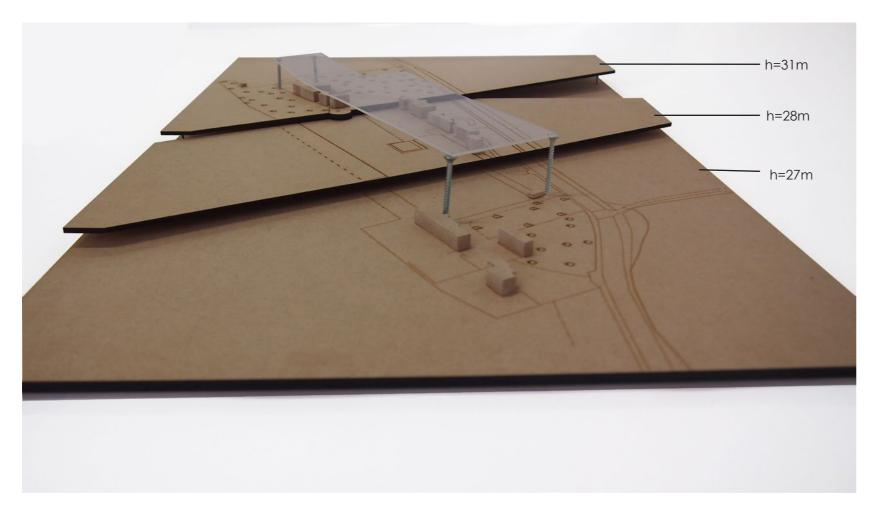
UNKOWN
USE of the
Buildings
Cabanaoas
Private (oawdus)
Buildings Cabanas



Topography

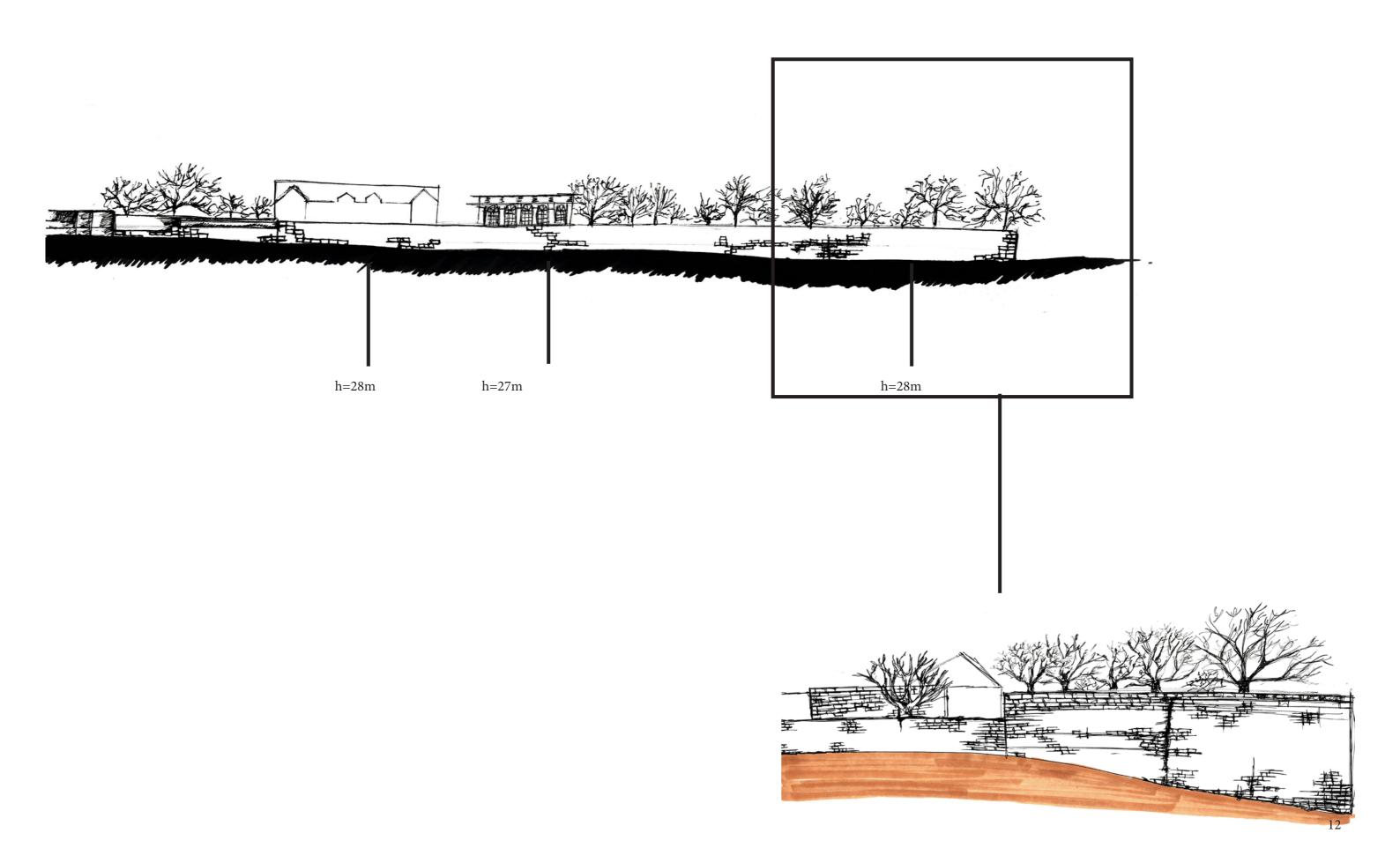


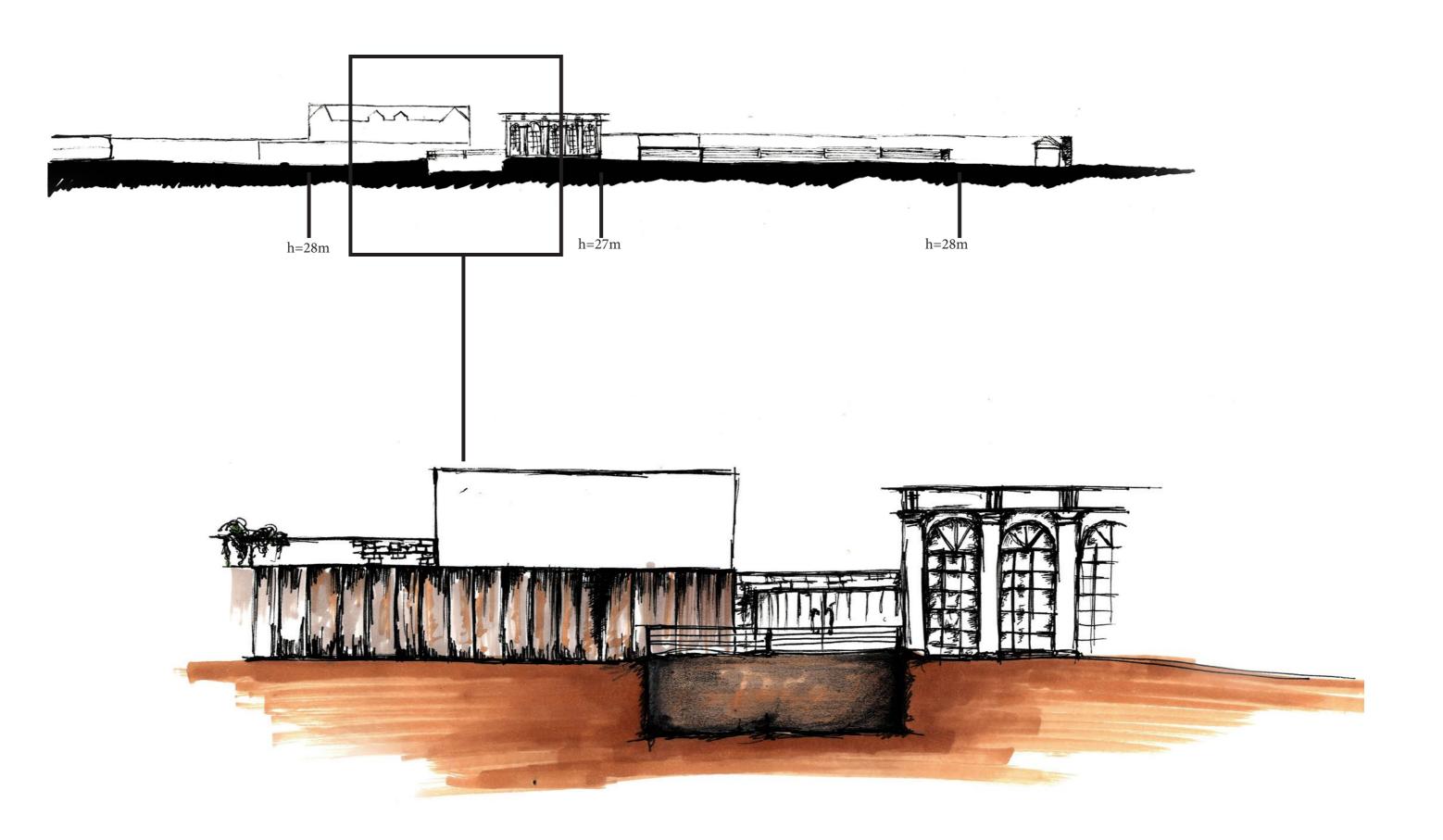




The model shows the topography of the walled garden and surrounding area. It also captures the density of changing heights in the area. 11

Sections of the site





Personal Response

The story of the family started back in the 11th century but it wasn't until the 16th century when the family reached the social status maintained until the 19th century.

The Delavals granted the land owned in Seaton Sluice as a reward for their help during the Norman Conquest in England. For many generations the Delavals worked hard and they were involved in coal and glass trade.

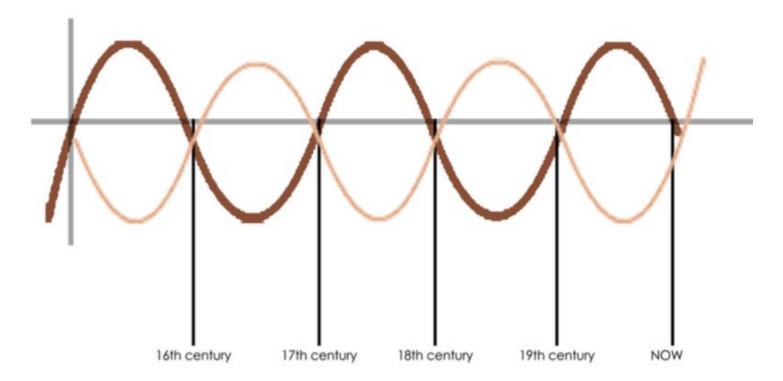
The story line of the family though is full of "ups and downs" and spans a thousand years. The story of the family reached the bottom many times through the years and for different reasons. Generations like "the Gay Delaval's" of the 17th and 18th century for example were doing thoughtlessly expenses and they were known for their scandalous behavior.

They were though the most productive generation and supported the growth not only of the family's finance but also and the "birth" of the Seaton Sluice village. The village's growth through the centuries was mostly due to the entrepreneurial and engineering skills of the Delaval family.

The family owned many different businesses, and exported many different things. To support those activities a harbor was built.

The family produced concrete, steel, salt glass; they even had a small brewery within their estate.

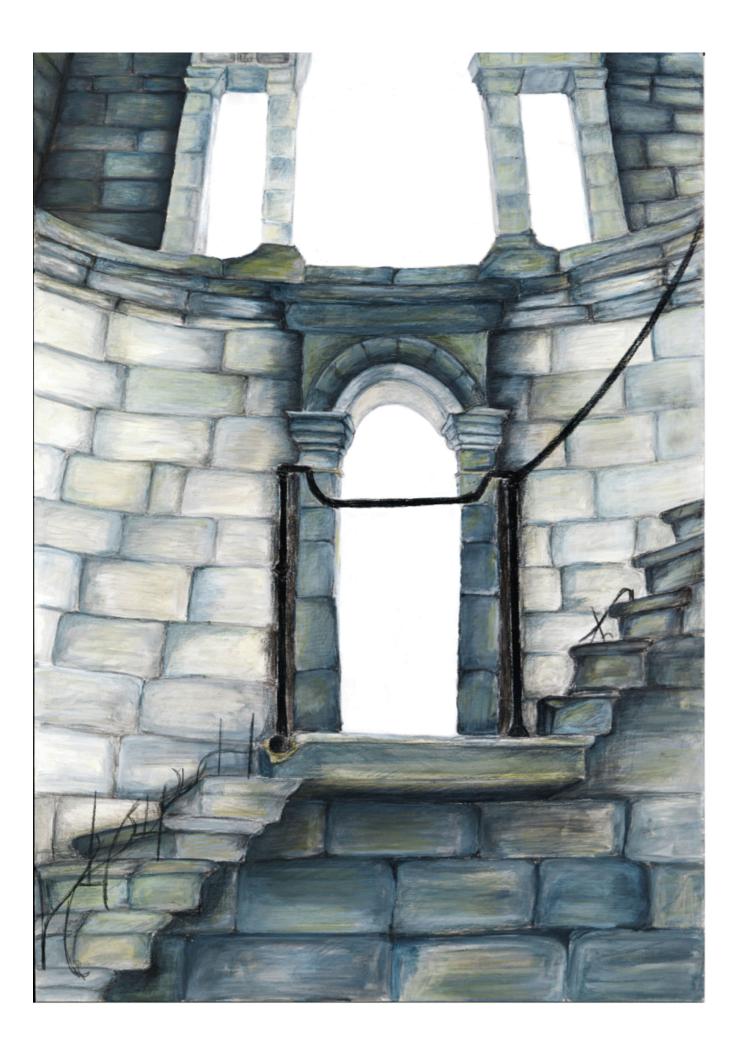
Delaval's Story line



The graph illustrates the change of the economical background of the Delavals in every generation.

There is a pattern in where the first generation creates the money the next on spends them and then the next one its being called to recreate them.

We can see that the history of the family always finds its way around.



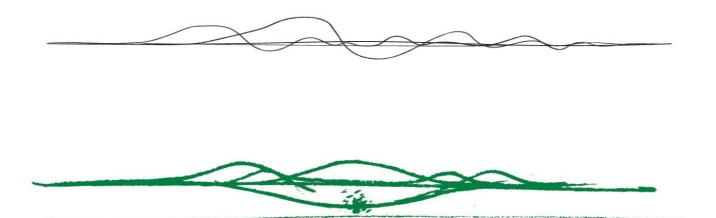
The "ups and downs" in the family's history remind us the concept of the Anslem Kiefer Heaven Earth.

The National trust aims to regenerate the story of the family and expose it to the world. We can find the similarities with the flower on the drawing which is going to reborn through the ashes. In this way the family's story nowadays is ready to be reborn through the exposure of the treasure owned for many centuries.

The drawing on the left is from a distance representation of the burnt staircase of the hall. It is mainly influenced by the ideas of Kiefer's work "Heaven and Earth". The capture of the stair steps, in the image, attempt to represent the idea:

Upward path: Heaven Downward path: Earth, and sign the reborn of the Delavals history.

Precedent Analysis





Peterhof palace-Russian Versailles

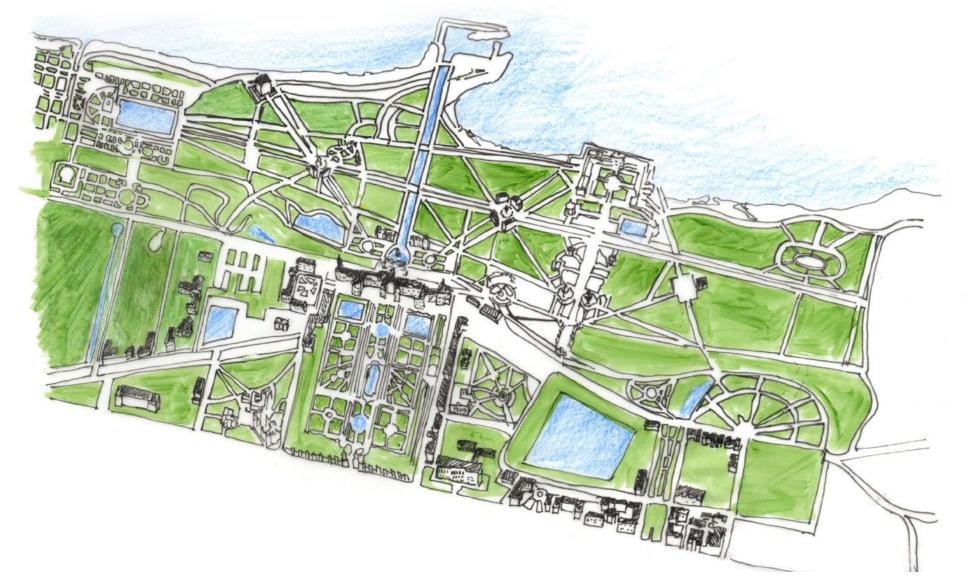
Place: St. Petersburg

Initial Architect: Jean-Baptiste Alexandre Le Blond

Purpose: Summer palace of Peter the Great

In the image of Peterholf palace we can see a clear example of reborn and regeneration of the Russian culture after the Second World War. The Germans had heavily ravaged the place during the Second World War. Military engineers and over 1,000 volunteers restored the palace and gardens in the years after the end of the war. Use of Landscape informs about the layout of the Gardens:

The greatest technological achievement of Peterhof is that all the fountains operate without the use of pumps. Water is supplied from natural springs and collects in reservoirs in the Upper Gardens. The elevation difference creates the pressure that drives most of the fountains of the Lower Gardens, including the Grand Cascade. A special aqueduct supplies the Samson Fountain, over four km in length, drawing water and pressure from a high-elevation source.



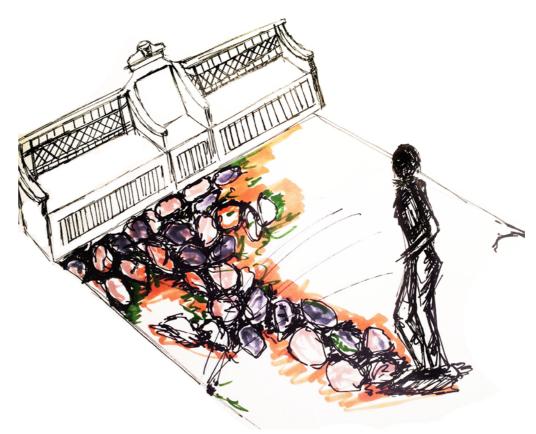


Walking in the gardens you can experience many different types of fountains that will travel you across Europe and generally among the western culture.

Example of those: Roman fountains, Pyramid Fountain, Sheaf, Triton, Lion Cascade, and the Golden Hill Cascade.

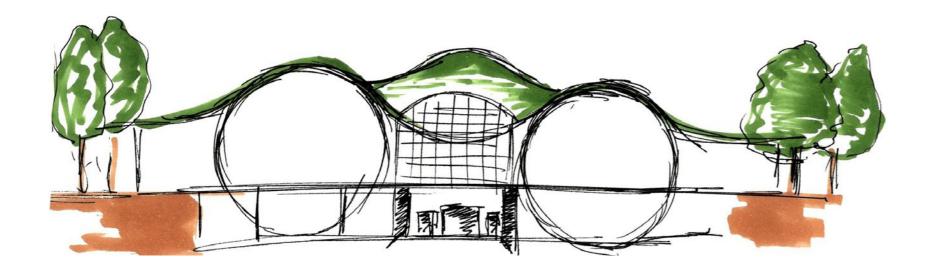


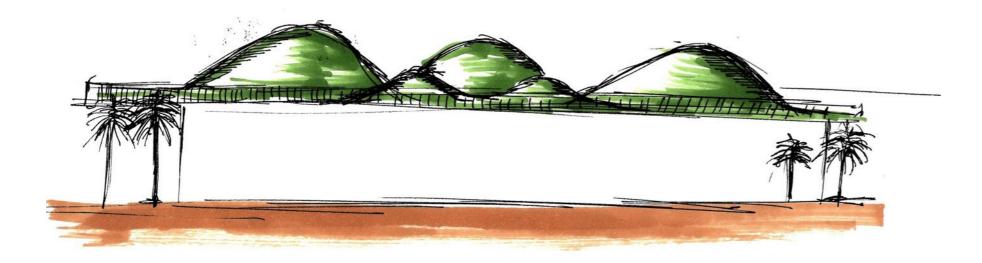
photo taken during site visit in August 2014



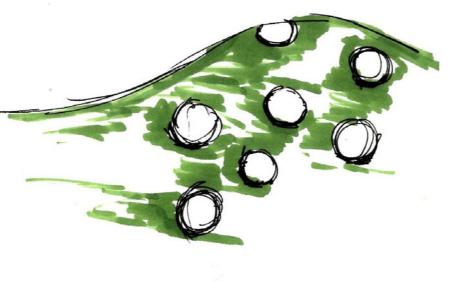
In the park, the range and diversity of fountains is astounding, from further monumental ensembles like the Chess Cascade and the Pyramid Fountain, to the ever-popular Joke Fountains, including one which sprays unwary passers-by who step on a particular paving stone.

17









Renzo Piano

California Academy of Science

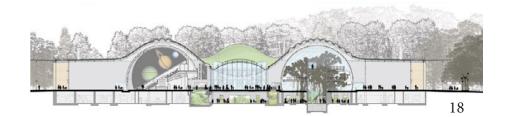
The Design of the Academy retains elements from the previous Academy resulting to a historic link between the old and the New (African Hall and North American California)

The two spherical planetarium domes exhibit spaces Rainforest Biosphere: those elements represent the Academy:space,earthandoceanaretheelementspushing theroofupthus creating the unusual curve shapes of the roof.

The building blends with the landscape around due to the grass roof, creating the illusion of continuity.

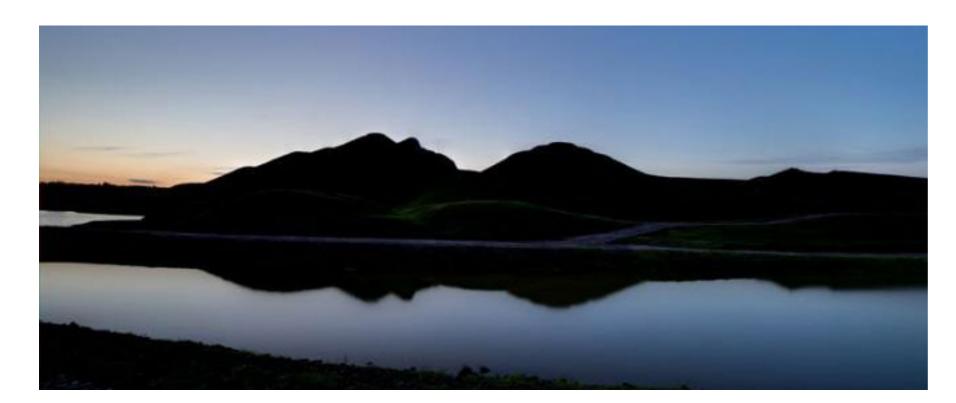






Northumberlandia





"The Lady of the North" is Landform sculpture that the visitors can experience by walking on to. It is a living part of the countryside which is going to mature over time.

The sculpture changes with the seasons and has the potential to be a futuristic link between present and future.



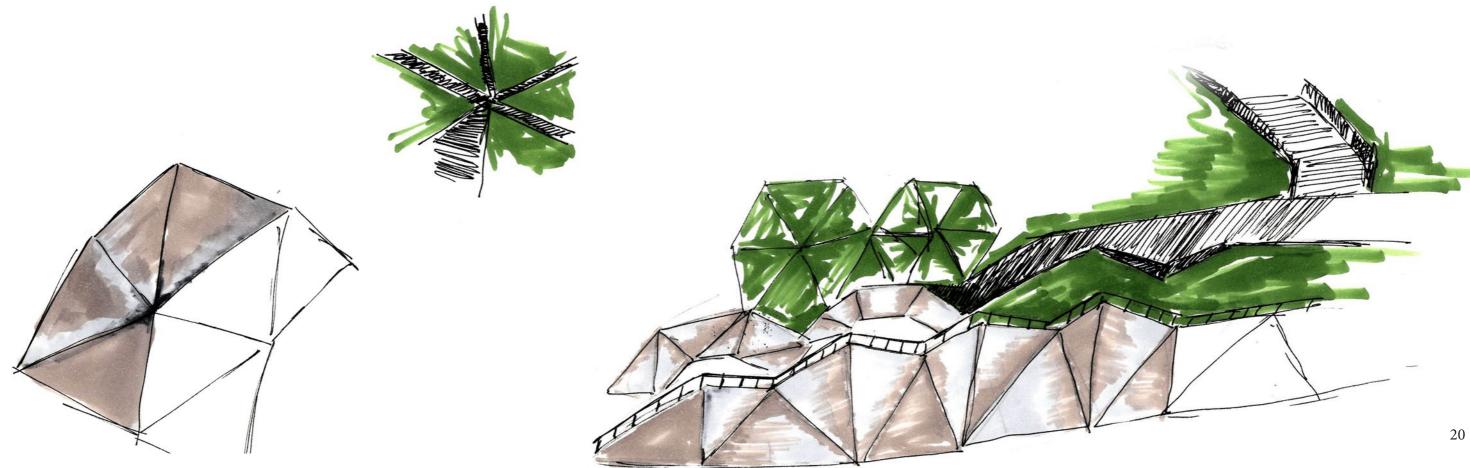
Galindez Slope and Paul Casals square

The landscape has been shaped with panels of different materials, mainly from existing rocks and vegetation of different colors. Also they used concrete in the areas that needed consolidation and light to create different effects on night time.

Different geometry of the panels is used to maximize the exposed light and to emphasize more the significant change of levels of the landscape.



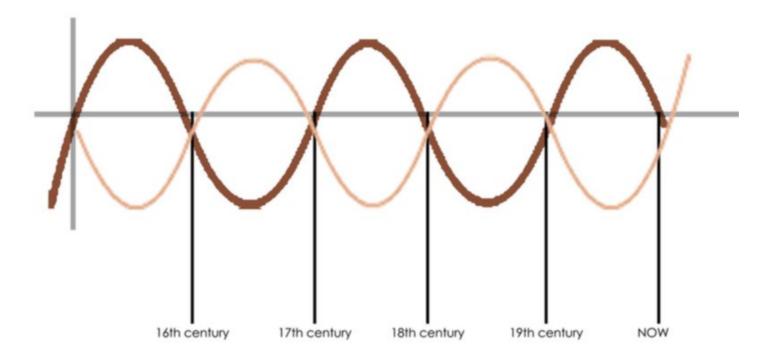


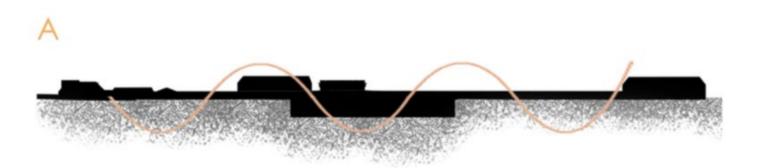


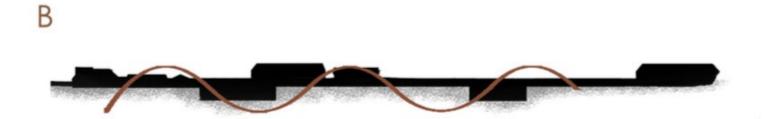
Concept Diagram

The "ups and downs" of the Delavals family will form the landscape and allow the visitor to experience this by moving around the garden and experience the significant change of the land level within courtyards, or by walking the roof of the buildings that will act as an extension of the landscape.

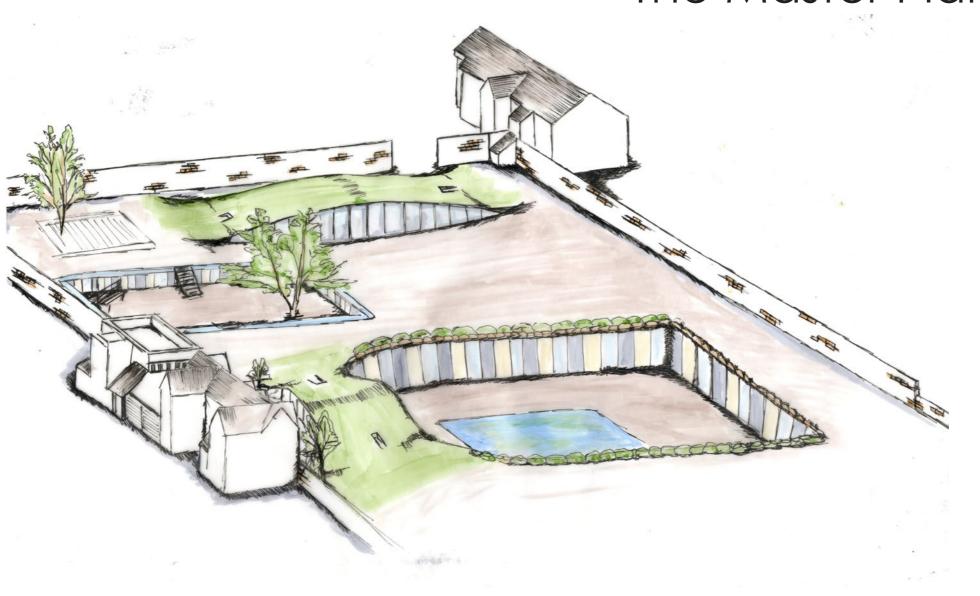
Delaval's Story line



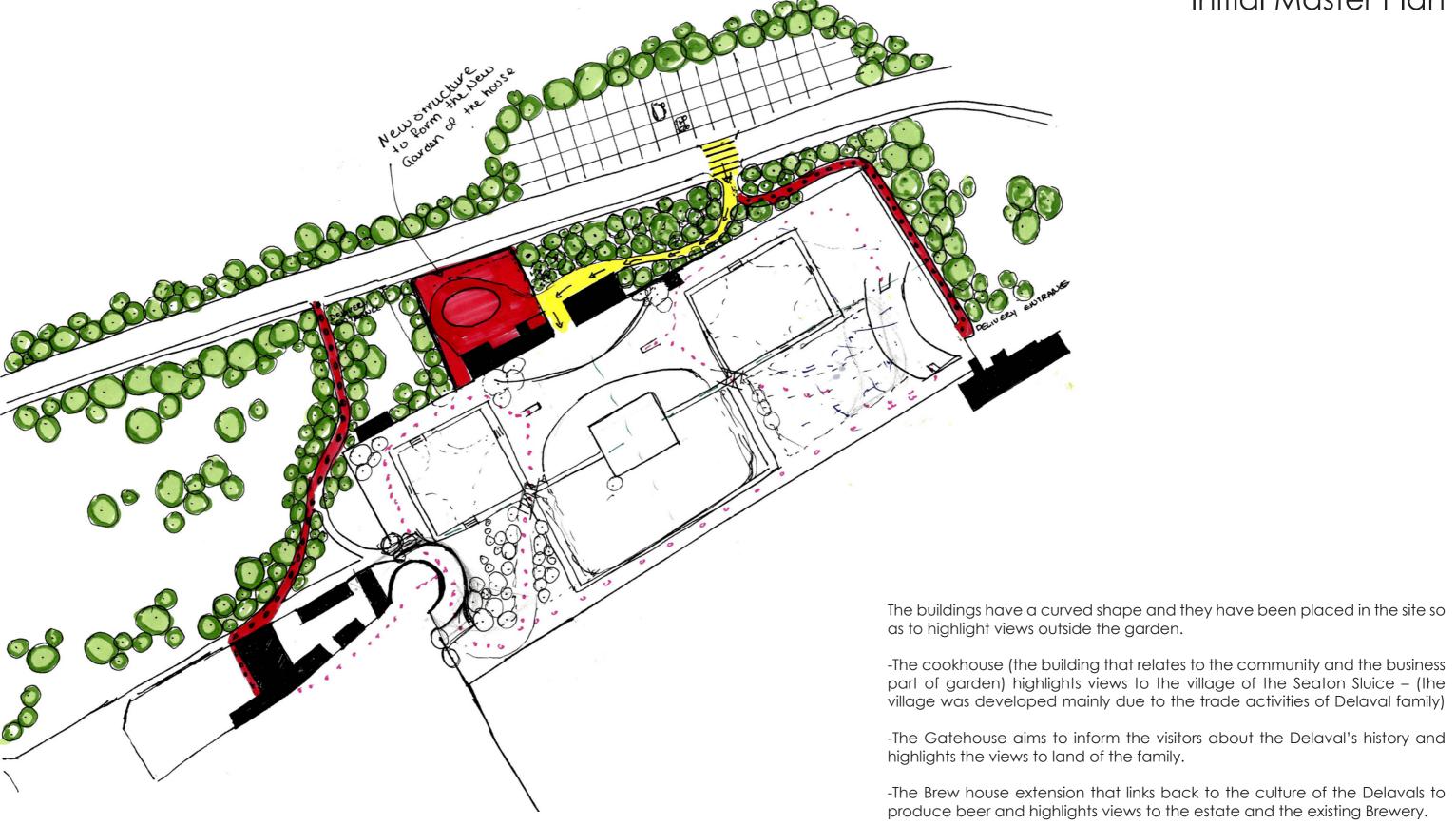


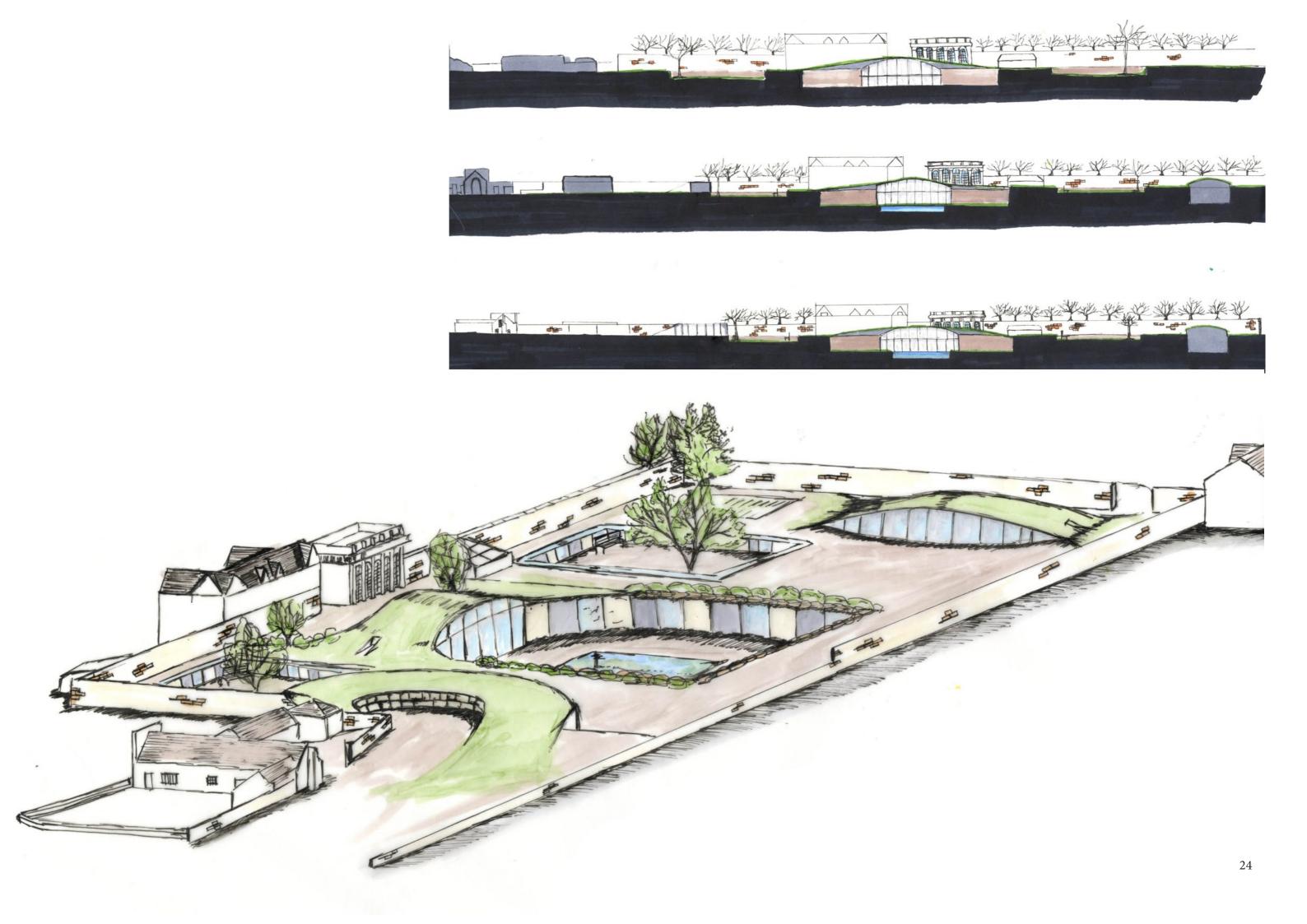


The Master Plan



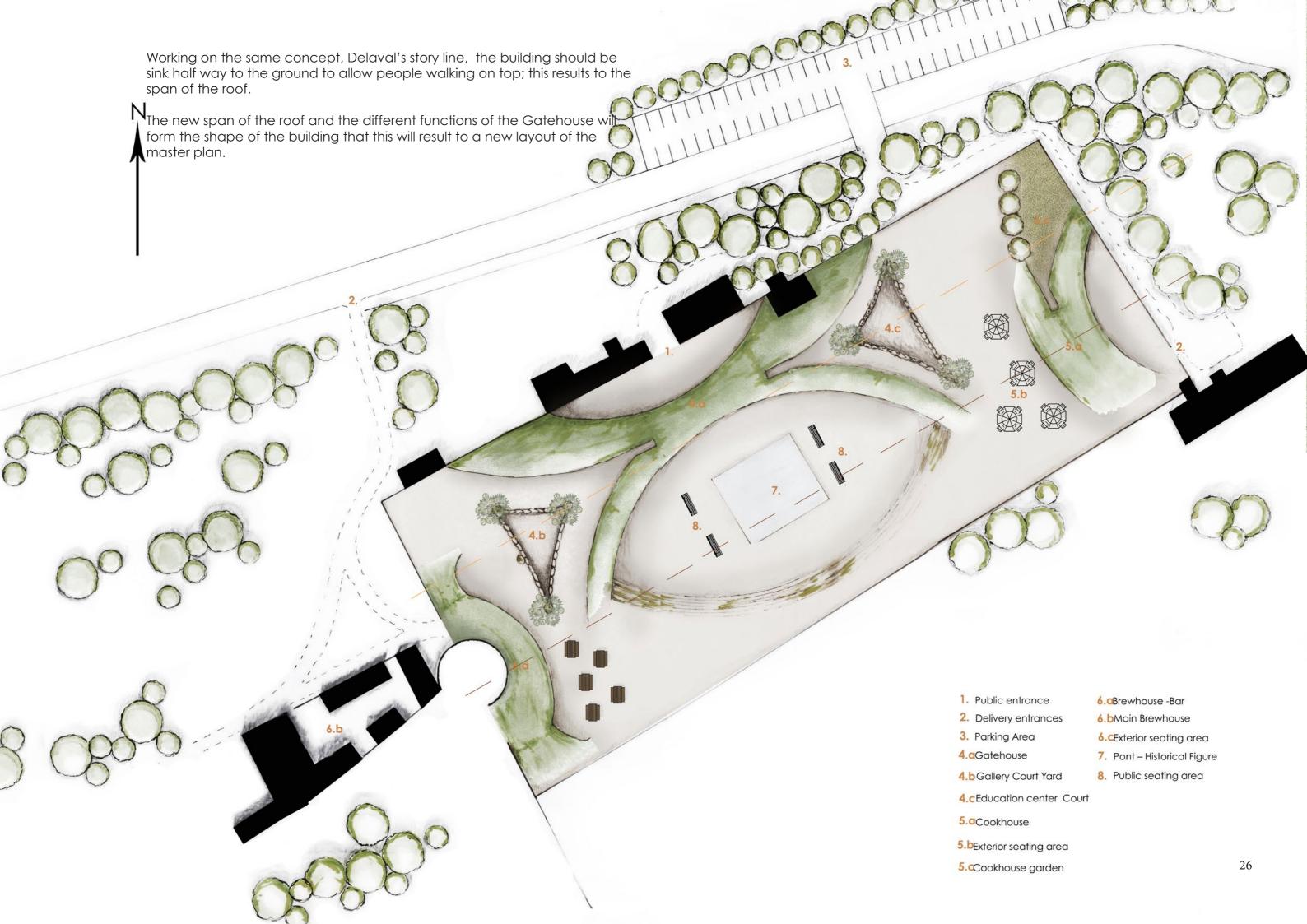
Initial Master Plan





Final Proposal







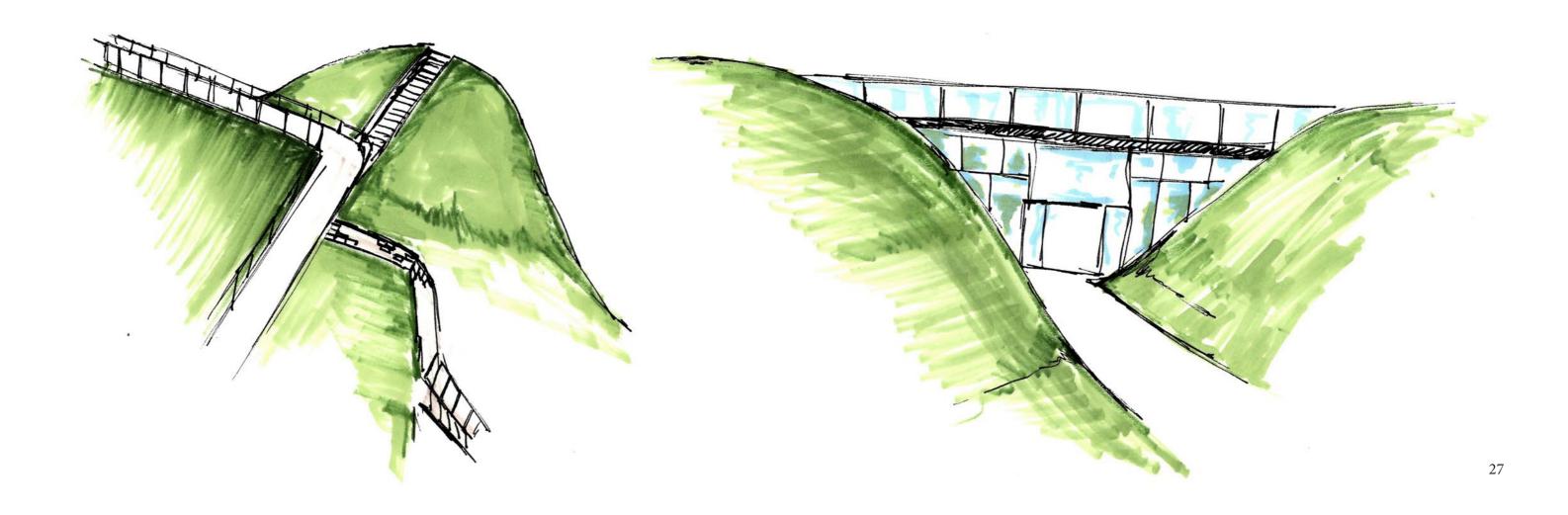
Archaeolink Park in Scotland

Archeolink Park in Scotland hides beneath a lush Green Mound

The building is Rising above the ground like a hill, is like the land has folded over from a sunken courtyard and entrances

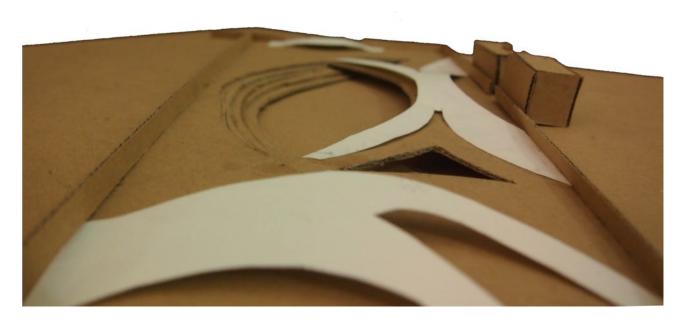
Double-glazing facades allows natural Daylight and heating into the building

The fact that is sink into the ground allows maximum insulation and minimizes heat loss

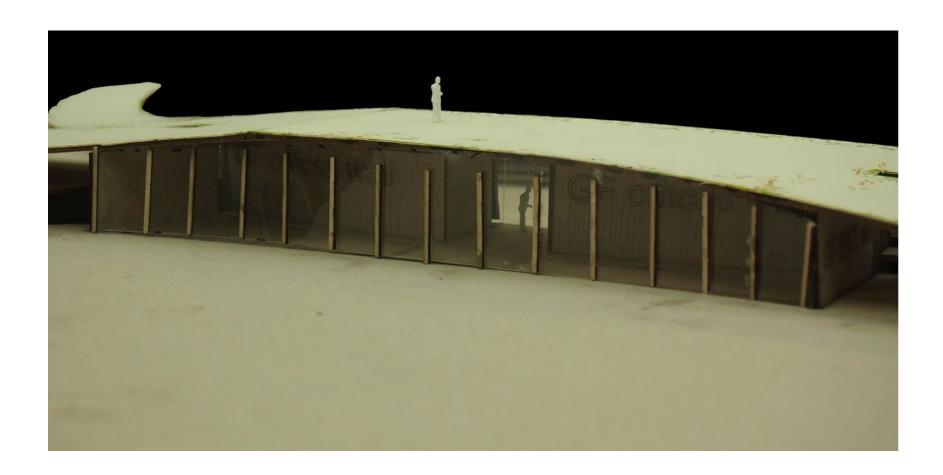


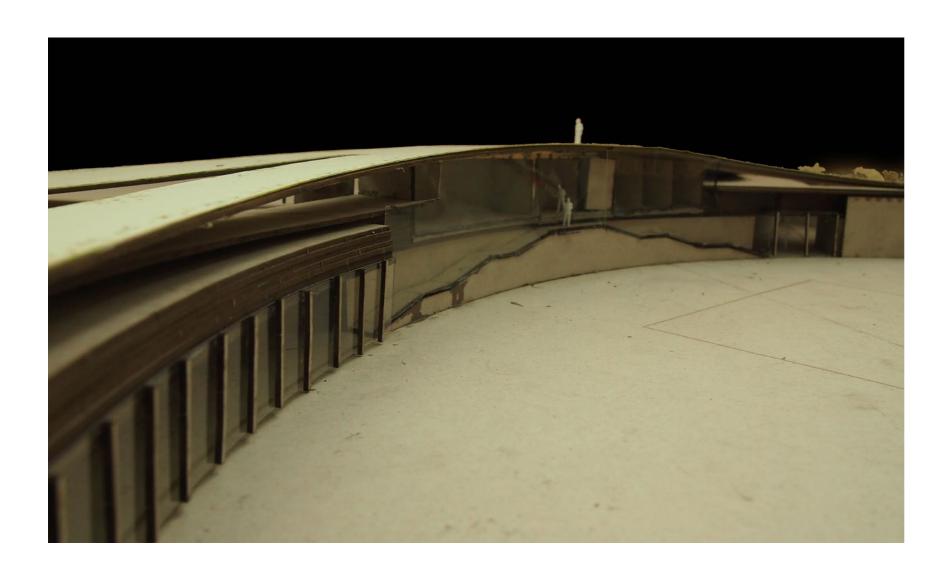
Concept model



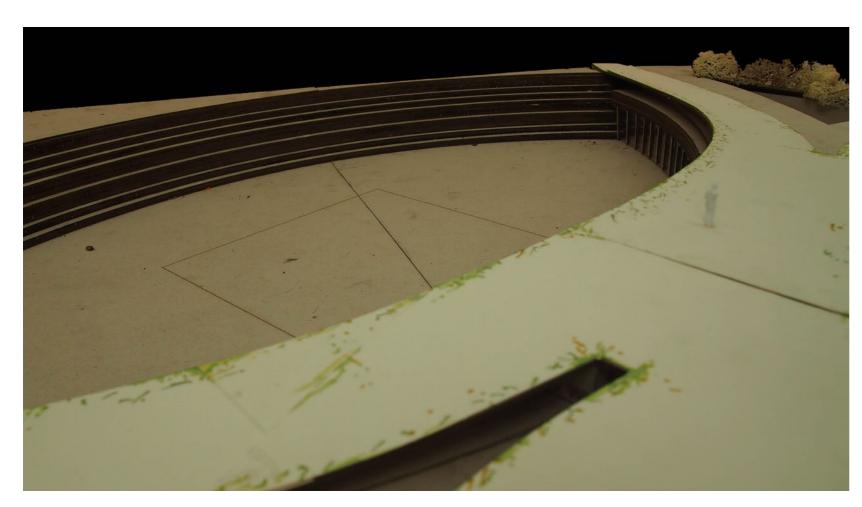


Final Model







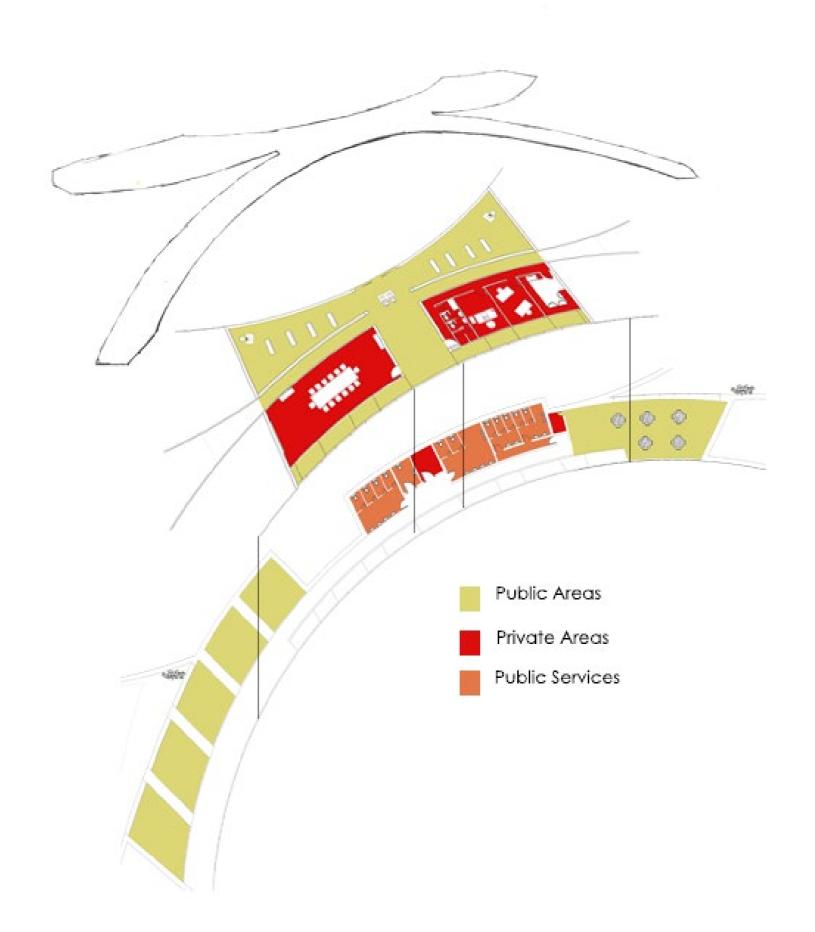




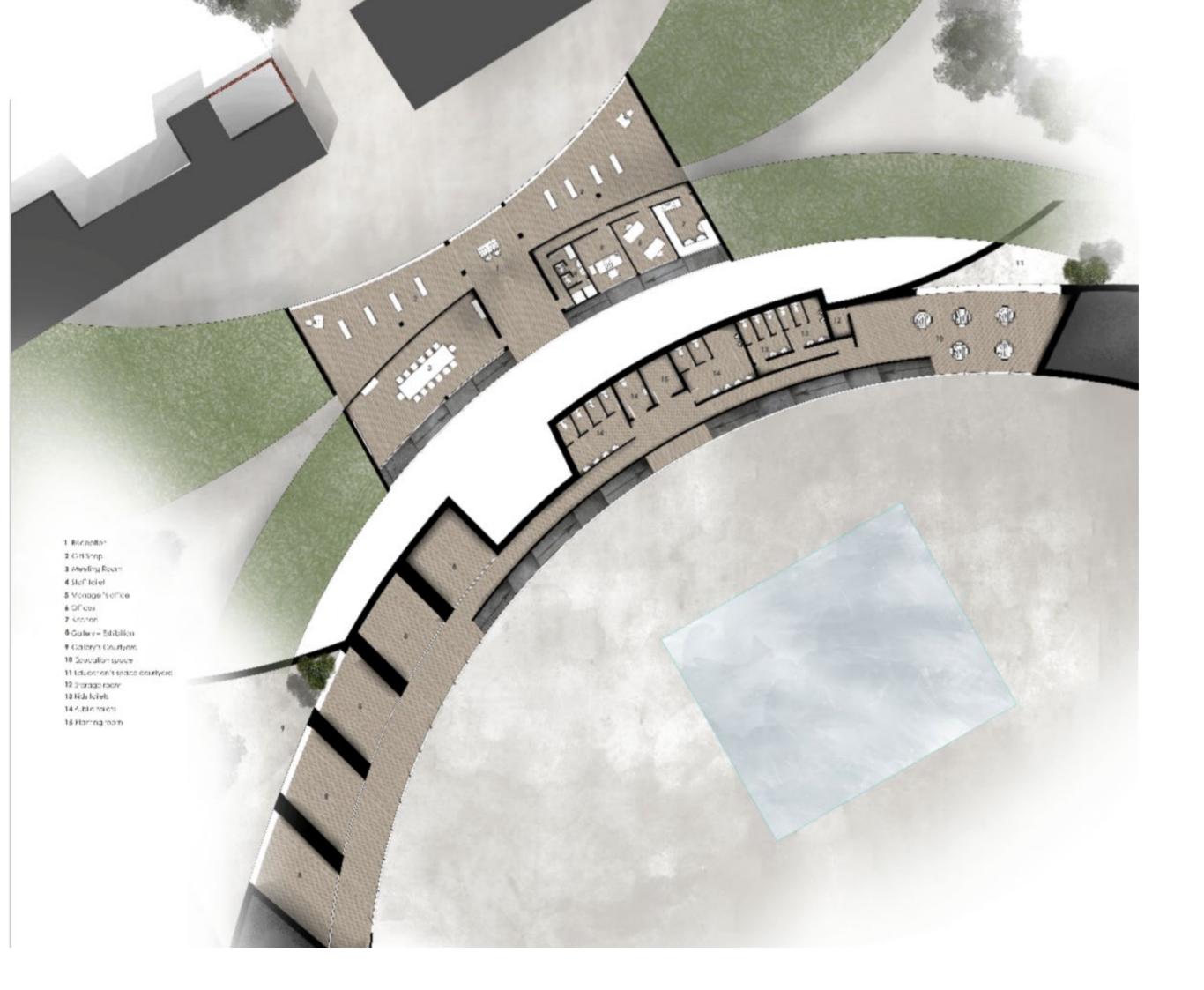


Spatial Diagram

Illustrates the Public and private areas of the building.

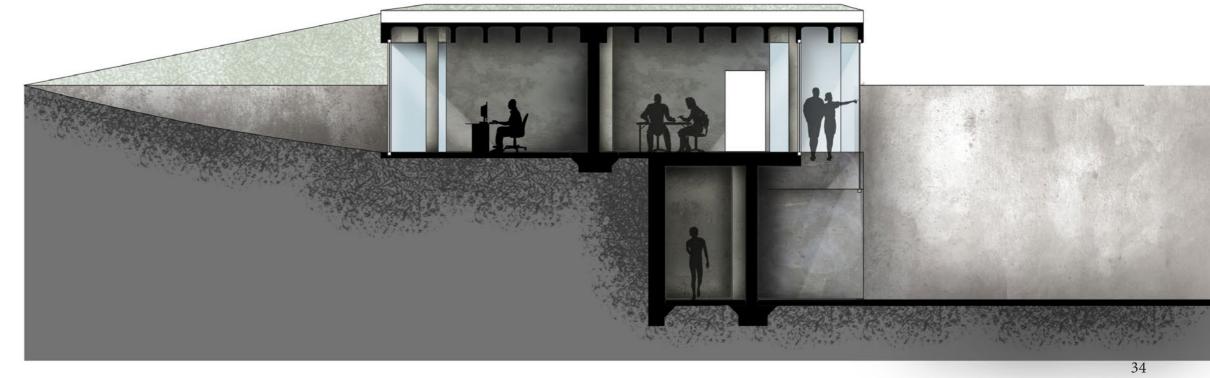


Final Plans



Final Sections





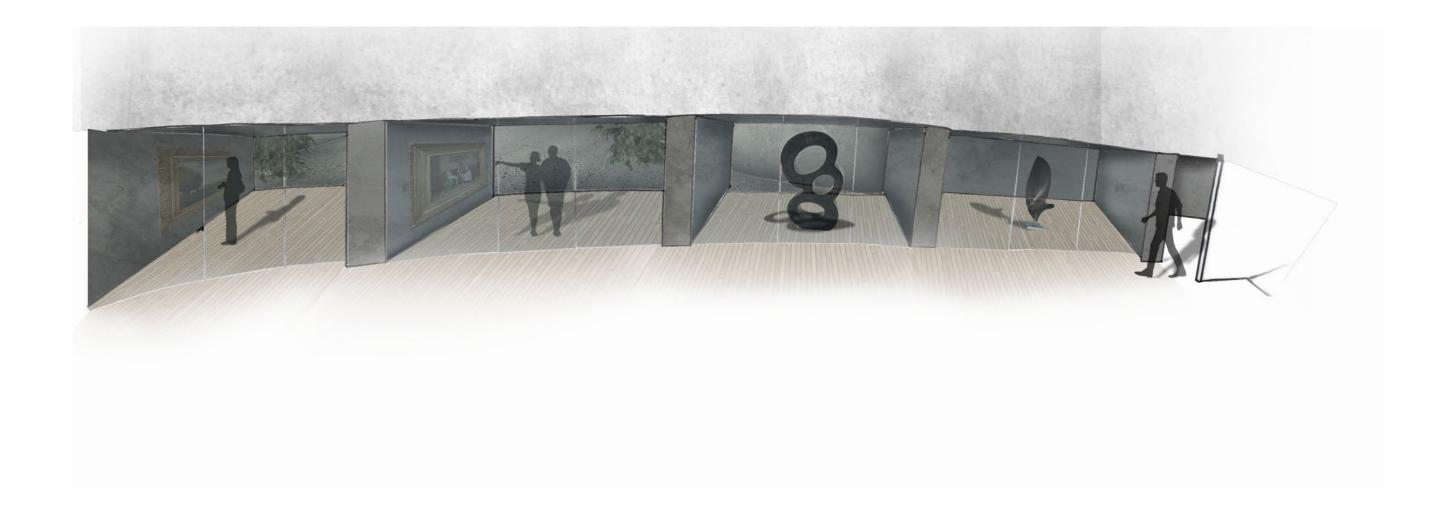
Perspectives



Exterior Perspective

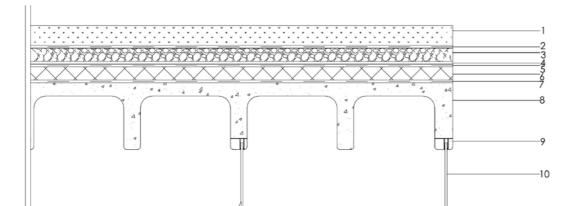
Communicates the south facades of the buildings. It also illustrates the big ramp that allows visitors to get to the underground floor and experience this journey of the changing levels.

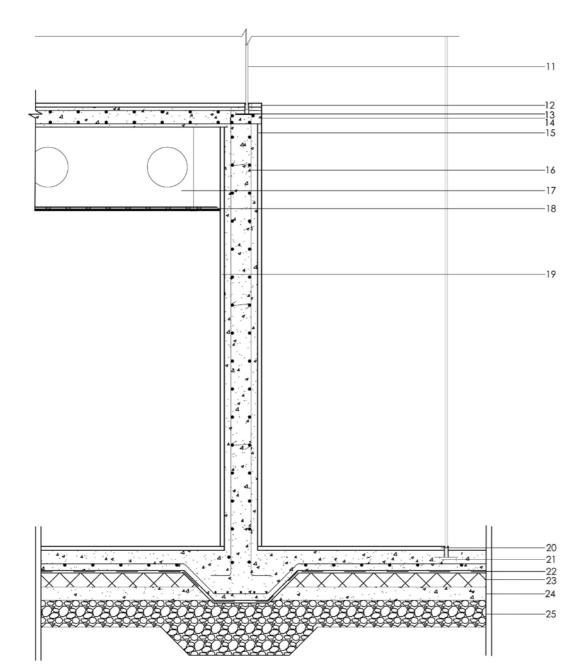
The glass facades reflect the site and help the building to blend into the landscape in a smoother way.



Interior Perspective
Communicates the relationship between the galleries, the private courtyard and the public areas. It also captures materiality and textures.
The exposed concrete allows a link to the concrete industry of Delavals.

Technical Section





- 1 Growing medium
- 2 Vapor membrane
- 3 Drainage Layer 100mm
- 4 Root barrier membrane
- 5 Water proof membrane
- 6 Thermal Insulation 100 mm
- 7 Vapor control layer
- 8 Roof structure Waffle
- 9 Hidden Window profile
- 10 Exterior Double glazing window 20mm
- 11 Interior Double glazing window 16mm
- 12 Hard wood flooring
- 13 Hidden Window profile
- 14Concrete Reinforced floor slab 100nn
- 15 Wallboard 10mm
- 16 Reinforced Concrete wall
- 17 Suspended ceiling void 600mm
- 18 Suspended ceiling
- 19 Wallboard 10mm
- 20 Hard wood flooring
- 21 Concrete Reinforced floor slab 150mm
- 22 Vapor membrane
- 23 Rigid mineral Insulation 130mm
- 24 Blind Concrete or Sand 100mm
- 25 Gravel 150

The Technical Section communicates the construction of the grass roof on a waffle slab structure for the ground floor. This method of construction was chosen because of the flexibility to span long distances without need for extra support. Also due to the flexibility to curve.

The window frames on the ramp and the office will be hidden, to allow uninterrupted views to the site.

Suspended ceiling will be installed to the underground level to hide the installation of services and allow flexibility.

External insulation will be installed to the foundation to maximize thermal mass.