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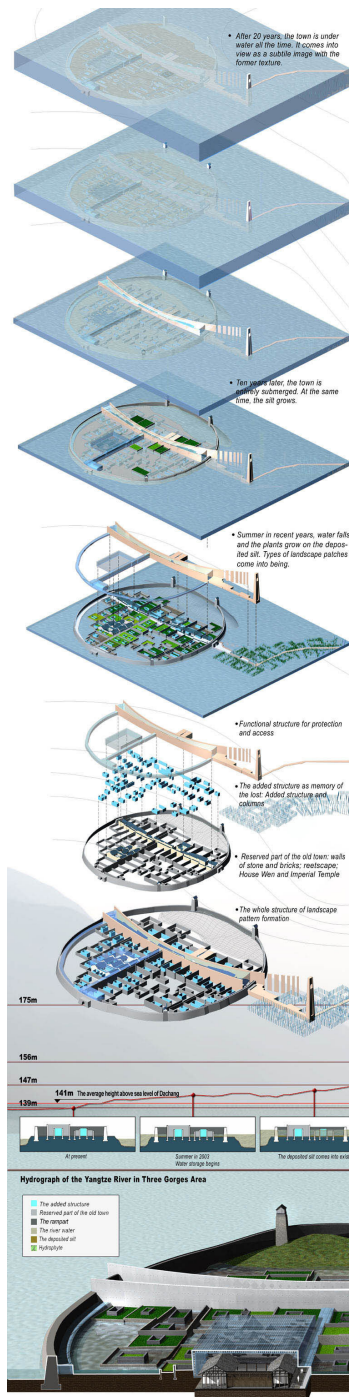
2003 STUDENT LANDSCAPE ARCHITECTURE DESIGN COMPETITION PRIZE WINNERS

FIRST PRIZE <i>UNESCO Prize for Landscape Architecture</i>	TITLE <i>Fading Away of an Edge in 20 Years: make Daching, the town being submerged, exist, grow and exhibit</i>
AUTHOR(S) Li Li, Jiazhi Li	INSTITUTION Institute of Landscape Architecture, Tsinghua University, Beijing, China
SECOND PRIZE <i>IFLA Zvi Miller Prize</i>	TITLE <i>Landscape Memory on the Edge: Preservation of Yuan Ming Yuan Ruins</i>
AUTHOR(S) Wu Wen, Wu Xiangyen	INSTITUTION Institute of Landscape Architecture, Tsinghua University, Beijing, China
THIRD PRIZE <i>CSLA Merit Award</i>	TITLE <i>Storm water infrastructure: ecology contained</i>
AUTHOR(S) Scott Jordan	INSTITUTION Department of Landscape Architecture, University of Manitoba, Winnipeg, Canada
JURY AWARD	TITLE <i>Life Garden Project: sewing the beginning and the end</i>
AUTHOR(S) Shiho Meano	INSTITUTION Department of Environmental Design, Kyoto University of Art and Design, Japan
JURY AWARD	TITLE <i>Landscape on the edge of art: installations on the edge</i>
AUTHOR(S) Julie Lommerse, Renee Lussier, Chris Midgley	INSTITUTION Landscape Architecture Program, University of British Columbia, Vancouver, Canada
JURY AWARD	TITLE <i>Borderlands: Suturing Communities along the Edge</i>
AUTHOR(S) Scott Chastain, Bradley Martin, Matthew Edwards	INSTITUTION Masters Program in Landscape Architecture and Bachelors Program in Architecture, Auburn University, USA
JURY AWARD	TITLE <i>Sustainable Culture of the Mysterious Mosuo Minority: conservation planning of Wuzhiluo Village, the Lugo Lake between Yunnan and Sichuan Provinces'</i>
AUTHOR(S) Wu Gong Deng, Xiao Fei Xue, Hong Zhou, Min Hu	INSTITUTION School of Landscape Architecture, Beijing Forestry University, Beijing, China

FIRST PRIZE <i>UNESCO Prize for Landscape Architecture</i>	TITLE AUTHOR(S) INSTITUTION	<i>Fading Away of an Edge in 20 Years: make Daching, the town being submerged, exist, grow and exhibit</i> Li Li, Jiazhi Li Institute of Landscape Architecture, Tsinghua University, Beijing, China
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JURY NOTES

The construction of the Three Gorges Dam on the Yangtze River will displace 140 towns. This project explores, as an alternative to relocation or rapid destruction, a process of gradual change of landscape, culture and ecology, and included some added structures, consideration of a process of 20 years, and discussed the importance of the cultural landscape.



Fading-Away of An Edge in 20 Years

----- Make Dachang, the town being submerged exist, grow and exhibit

1. The rising water takes many old towns at edge status.
As the largest hydroelectric dam in the world, the massive Three Gorges Dam on the Yangtze River in China is being constructed and will take 20 years to finish the project. Its reservoir would reach over 150 meters upstream and force 140 towns below 175 meters pulled down. All these towns possess of long history and fine town culture. But now they stand on the edge of disappearance.

2. The current solution is too limited to save most of these towns.
Many planners forward the solution to move the whole town to upper site of the mountains. However, this method can only be used for few famous towns of just parts of them. Most of the old towns will be demolished entirely. It is a regret that most of the towns fall into blind lane at one time.

Site Conditions
Dachang is one of such towns in danger. It locates at the headwaters of Daring River, a main branch of the Yangtze River in Sichuan Province. The town serves as a typical site which possesses great value. It has a long history of 1700 years and has impressive town structure: the well-preserved inner town and the developing outer town. The inner town is about 4.27 ha. It consists of a rounded temple, two main streets, and three gates; the outer town begins with the east old gate and stretches along the main street. The two parts record an integrate process of the local town pattern from Qing Dynasty to now, indicating the essential town culture of the three gorges area.

Concept
The solutions of entire moving and pulling down are both unsuitable to this town. If it is moved, its population composing and life style would change greatly. As a result, only a distorted town gets protected, so does the town culture. To some extent, it is no much better than pulling down.

How can earth can we find a moderate way to deal with the town?
As landscape architect is a developing country, our power to deal with these being town is too restricted. We must face with the sudden lost and accept the fact that they will disappear one day. Actually everything has its time limit and must experience the birth, growth, transformation and disappearance. But when and how?

As Edge Theory says, the edge is the area or part to connect different entities. It is complicated and sensitive, and presents specific characterly resulted from the structure actions among these entities. We are inspired by the interesting features of an edge. **Although the edge between living and dying is definite, an interactive process of long time may extend the meaning of an edge.**

- 1. Preserve the life of an edge.**
The change between existence and disappearance is most influencing, and it can be called an edge status. This is also the most meaningful moment in edge's life. Hold this moment and present it to people, for it can tell us the understanding, memory and emotion to the edge.
We search for a way to lighten the uncomfortable feeling of regret. Keep the landscape and the culture longer more days and make the edge alive with rich, not just empty. The edge always changes every year. This is an evolved process which endows us with comfort and belief.
- 2. Reduce the rigidity of the ecological disturbance by human being.**
When some entities, especially the geographical ones, get lost or transformed rapidly, the process is being-edge. It will bring a rigid and unadaptable disturbance to the ecological world which we live in, as the Three Gorges Dam will do to its area. Landscape ecology sees us try better to reduce the rigidity, dealing with the landscape materials such as water, soil, plants, etc.
3. Shape the structure (or landscape pattern) formation.
To form a landscape pattern with above landscape materials, natural organizing is needed. Like the costume making in China, a primary structure is needed as the framework, then types of patches are filled in the blocks of the frame. Most of all, time is also an important material for landscape pattern formation. It brings the ecological process of these patch types by using all of the other materials, water, soil, plants and trees create the final character landscape, or the landscape mosaic.

Design
1. The landscape process.
The major idea in this plan is to form an evolving landscape process at Dachang. The process presents the gradual changes of space, culture and ecology.
According to the statistics, the soil flowing into the Yangtze River is added up to 170.2 tons every year. The bank erodes away as the river water level changes at seasonal periodically. As a result, the Yangtze River becomes filled with silt gradually. In this plan, the silt is stored up to form an earthen dam on the town structure. Dachang town's area is about 42.7ha, and the silt deposited on the town approaches to 1,284,000 m³, forming a height of 30m to cover the town every year. In about 20 years, the town will be entirely covered with the silt.
Every summer within the 20 years, the water draws down and left the silt only. The gathering silt year by year supplies the local hydrophytes with abundant nutrient. The plants not only helps to reduce the silt flowing away. As time goes on, there comes a self-growth cycle: the growth and decomposition of organic plants form humus soil which is so fertile to promote their growth next year.
In fact, the water level goes more than 20 meters beyond the town. All is gone ----- the town, the process, and the edge. Only some lightings in landscape can tell us about the image of the past.

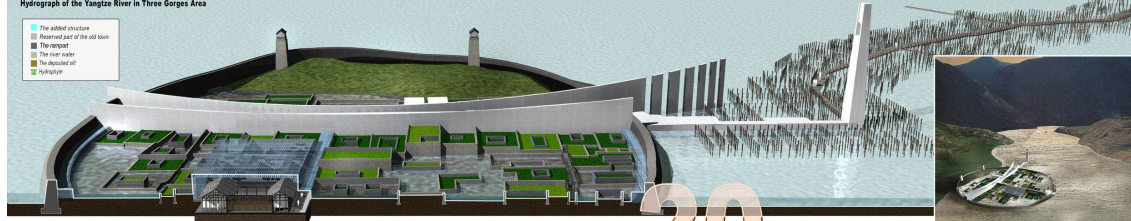
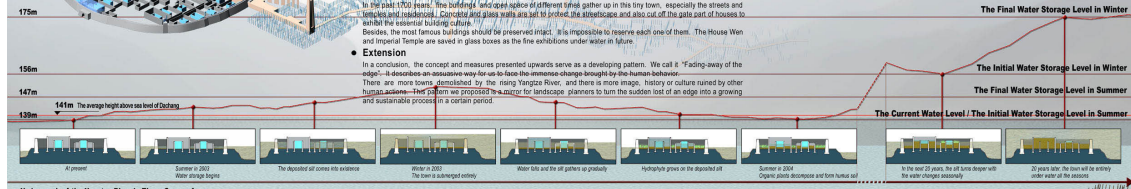
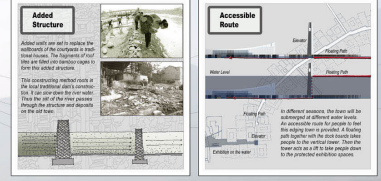
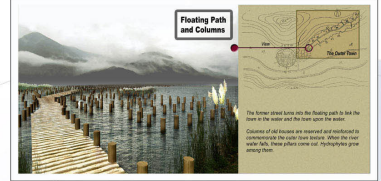
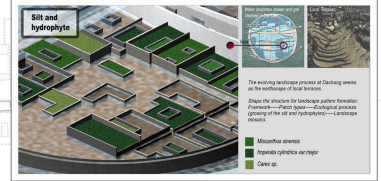
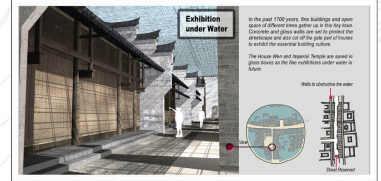
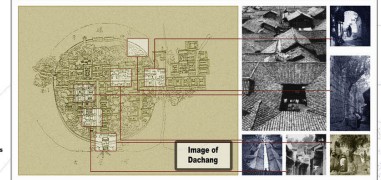
2. Maintain the structure of the inner town.
The building materials of the inner town consist of stone, bamboo, stone, brick, etc. We mark them. When the rising water comes up, the upper wall (wood) and the roof (tile) will be easy to be washed away, so we clean out such materials. Only the main walls made of stone and bricks are kept as the prime structure. The notices the former temple, library, and houses.
However, the walls of the courtyards in traditional houses are mainly made up of wood or bamboo. How can we keep this kind of attractive element to ensure the integrity of the structure? We create added walls by filling the fragments of roof tiles into bamboo cages. This constructing method roots in the local traditional dam's construction and its function is to slow down the river water. By this way, the silt of the river passes through the structure and deposits on the old town.

3. Mark the texture of the outer town.
The outer town develops along a street to enter the inner part. It has larger scale and newer style. To express its difference, we mark the pattern by a floating path and arranging pillars. The former street turns into the floating path to link the "town" in the water and the "main" upon the water. Pillars of old houses are reserved and applied to communicate the outer space. When the river water falls, these pillars come out. Hydrophytes grow among them.

4. Ensure the accessible route.
In different seasons, the town will be submerged at different water level, sometimes part or sometimes whole. We provide an accessible route for people to feel this edging town. A floating path together with the dock boards take people to the vertical tower at any water level. And the tower acts as a lift to take people down to the protected exhibition spaces of the inner town.

5. The exhibition under water.
In the past 1700 years, the buildings of different styles gather up in this tiny town, especially the streets and temples and landmarks. Concrete and glass walls are left to protect the streetscape and also cut off the gate part of houses to retain the residential building culture. Besides, the most famous buildings should be preserved intact. It is impossible to reserve each one of them. The House Wen and Imperial Temple are saved in glass boxes as the fine exhibitions under water in figure.

Extension
In a conclusion, the concept and measures presented upwards serve as a developing pattern. We call it "Fading-away of the edge". It describes an associative way for us to face the immense change brought by the human behavior. There are more towns demolished by the rising Yangtze River, and there is more image, history or culture ruined by other reasons. Whether it is the rising Yangtze River or any other reasons, planners to turn the sudden loss of an edge into a growing and sustainable process in a certain period.



FADING-AWAY OF AN EDGE IN 20 YEARS

----- MAKE DACHANG, THE TOWN BEING SUBMERGED EXIST, GROW AND EXHIBIT

SECOND PRIZE <i>IFLA Zvi Miller Prize</i>	TITLE AUTHOR(S) INSTITUTION	<i>Landscape Memory on the Edge: Preservation of Yuan Ming Yuan Ruins</i> Wu Wen, Wu Xiangyen Institute of Landscape Architecture, Tsinghua University, Beijing, China
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JURY NOTES

The 18th Century gardens of Yuan Ming Yuan are neglected and threatened by Beijing's urbanization. This project proposes using a comprehensive analysis of the history of the gardens and applying modern methods of landscape design to preserve and exhibit the ruins.

LANDSCAPE MEMORY ON THE EDGE

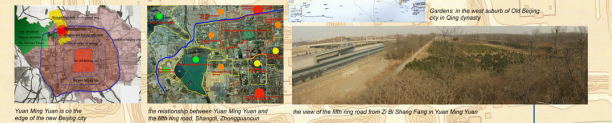
Preservation of Yuan Ming

During 1709-1860, Yuan Ming Yuan was built and reached the culmination of traditional Chinese gardening and culture, being called "garden of gardens". In 1860, French and British Joint Army looted the whole garden and subsequently burnt down Yuan Ming Yuan again. In 1980, the united army from eight European countries robbed and destroyed the remains of Yuan Ming Yuan again. In 1988, Yuan Ming Yuan was listed in the National List Cultural Heritage, and was partly restored and opened to the public.

The main part of the Yuan Ming Yuan still remains the state of wilderness without effective preservation. Some specialists want to build two main urban roads across Yuan Ming Yuan. Some developers want to build top grade villas in Yuan Ming Yuan. Some professors think Yuan Ming Yuan is a wonderful place to set up one of the best university in the east. Some people think it is necessary to rebuild Yuan Ming Yuan.

Yuan Ming Yuan is on the edge of the city

- In Qing dynasty, Yuan Ming Yuan located in the west suburb scenery area of Beijing, connected with the Summer Palace and Jing Yi Yuan by water system and green belt. It was far away from the old Beijing city.
- Today, Yuan Ming Yuan is besieged by the new Beijing city, the fifth ring road wanders at its north edge, and it is in the connection area between the silicon valley—Zhong Guan Cun and the high-tech industry park—Shangdi.



Yuan Ming Yuan is on the edge of the memory

- We can not image the splendid Yuan Ming Yuan achieved before the steady destruction in 1860, when we are in the ruins today. The memory of the image of "garden of gardens" is lost.
- Because of the absence of the effective preservation, and with the nature corrosion, the ruins of Yuan Ming Yuan is full of garbage and rural today, and the ruins are still undergoing destruction. Only a little of the ruins are cleaned up and opened to the public. Thus the memory of the history is becoming more and more blurry.
- West Buildings is a special scenery site composed with western architecture—an exotic mixture of Chinese traditional with forest houses. Currently these stone architectures have the most visible ruins. This often gave people the wrong conclusion that Yuan Ming Yuan was mainly European style or its whole design was largely influenced by European architecture. In fact, those sites only covered about 5% of Yuan Ming Yuan and was built by Qianlong Emperor mainly for curiosity. The rest of the 95% was all pure Chinese classical architecture and gardens.

Conclusion: Great dangers

- Yuan Ming Yuan's physical entity is in the danger of swallow of the development of the new Beijing city.
- The status of Yuan Ming Yuan in people's mind is now declining.
- The prominent achievements of Yuan Ming Yuan achieved in Chinese traditional garden has never been understood correctly.
- The cultural and art value of Yuan Ming Yuan has disappeared completely.
- One of the most important World Cultural Heritages is dying.

Only get the whole memory of Yuan Ming Yuan (including its splendid achievements in history and its destruction in 19th century back), can Yuan Ming Yuan survive in the urbanism of New Beijing City and its values can last for ever.

Measures to remind the memory the characteristic of Yuan Ming Yuan:

- Being the second palace only inferior to the Forbidden City, so palace is the necessary components in the garden.
- Being the synthesis of man-made landscapes on the flat ground was divided into more than 100 scenic spots.
- Mountain and water system constituted basic framework, plants flourished in all seasons, all kinds of buildings usually formed the focal of the scenic area.

Preservation idea: analyzing characteristic of Yuan Ming and the ruins left, using the method of modern landscape design, to preserve and exhibit its ruins to get the memory back.

Mountain and water system

Mountain

- History**
- 200 small hills took up one-third of the Yuanmingyuan ground, most of which are soil-hill, and a little is stone-hill.
 - All kinds of mountain scenery such as precipitous cliffs, secluded valleys, steep rock walls and stone caves zigzagged their way about.
 - Everywhere it was so arranged that hills were next to each other, in each other and after each other, all well balanced in every way, and provide the good base for planting trees.

Nowadays

- Small hills were incompletely kept on the site. Only with the help of the old map can we remind the approximate shape of hills in the history.
- Most of the Soil hills had been destroyed, some had been wholly wiped off, some had been cut into two parts, some has been cut off more than half, some had been dug and got smaller and shorter than ever—which directly lead to the loss of the space feeling.
- Most stone hills collapsed, stones had been lost. Only on a few scenic spot can we see some stone remains, scattering around the ground. Which embody the atmosphere of the ruins.

Preservation

- Soil hills should be completely restored at its original site according to historic data and archeological excavation, so the original space relationship can be reacquainted.
- Stone remains should be carefully tidied up and to exhibit as a witness of the ruins.



Water

- History**
- During Qing dynasty, Haijian district had plenty of water resource, many natural springs effused in the Yuanmingyuan, and the underground water level was high.
 - In order to make use of plenty water resource, Yuanmingyuan was designed to be a water scenery garden.
 - All kinds of water types such as the vast lake, the serpentine streams, and ponds covered nearly half ground of the garden.
 - Water route was the main route for the emperor to looking around the garden.

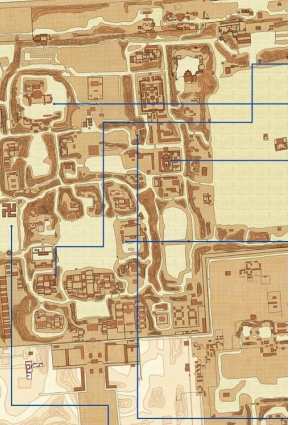


Nowadays

- With the urbanism of Beijing city, water resource has deeply reduced, r underground water got scarce.
- The Yuanmingyuan's old rivulets had dried up.
- A lot of rivulets and lakes had been changed to paddyfields or fishpond.
- The restored water system in Changchunyuan and Qichunyuan is as same as Yuan Ming Yuan.
- The restored water system took on two different seasonal scenarios. Firstly, from spring to autumn, most rivulets and lakes are fully of water, as view of the south china water village. Secondly, in winter, most lakes have dried up, together with desolate and sorrow of the ruins.

Preservation

- Completely restore water system at its original site according to historic data.
- According to current situation of water resource, still adopt static water system.
- Join the whole water system and rebuild the water routes. But only on the water.



Plant

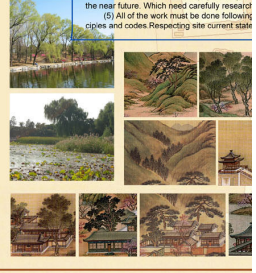
- History:**
- Hundreds and thousands of plants so it was also called an arboretum.
 - The main species on the mountain were pine, cypress, and some other species.
 - In the building series, some species were used.
 - Some scenery spots were famous.

Nowadays:

- None of the original tree is left.
- In the unrestored part, the single structure as well as some trees in the d
- In the restored part, tree sap which can not embody the characteristics of beautiful flowers and bright colors were planted.

Preservation:

- In order to embody the atmosphere of the ruins, some scenery spots with planting the virtual method. Or be shown on the spot with it to be.
- In the unrestored part, two method are used. a. Those plants which block the restoration. b. Those plants which do not block it partly and be renovated gradually with healthy plants.
- In the restored part, two method are used. a. Those plants which destroyed the scenery. b. Others should be kept presently and to be renovated in the near future. Which need carefully research.
- All of the work must be done following principles and codes. Respecting site current state.



THIRD PRIZE <i>CSLA Merit Award</i>	TITLE AUTHOR(S) INSTITUTION	<i>Storm water infrastructure: ecology contained</i> Scott Jordan Department of Landscape Architecture, University of Manitoba, Winnipeg, Canada
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JURY NOTES

The Denargo land area of Denver, Colorado is a one-mile stretch of former industrial land with a long history of mixed industrial and sparse land use and is currently under pressure to transform. This project consists of design of a multi-functional landscape that reveals storm water purification processes, includes adaptive reuse of the market structures, and integrates the storm water system as the focal landscape, with the intent of changing perceptions and stimulating redevelopment.

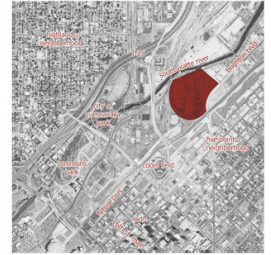
process defined

As a former public marketplace, the Denargo land area is situated along the Brighton Corridor, in Denver, Colorado. The corridor is a one-mile stretch of former industrial land between downtown Denver and Interstate 70. Surrounded by manufacturing, industry, Coors Field, Union Station Terminal (the future transportation hub of Denver) and the Denver Stockyards, the area has a long history of mixed industrial and sparse land use. Due to the current demand for housing and hotels, and the sites proximity to downtown, the area is under considerable pressure to transform.

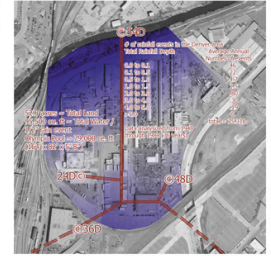
The design creates a multi-functional landscape that reveals storm water purification processes through the daylighting of a 54" storm pipe from off-site catchment areas and the re-design of the site's storm water infrastructure as the focal landscape of the re-designed Denargo Market. Through adaptive re-use of the remaining market structures and integrating the storm water system as the focal landscape of the market, it is the intent of this revelatory landscape to begin to precipitate change in societal perceptions, understanding and behavior with regards to storm water management systems in the urban environment. At the same time the new marketplace is intended to act as a catalyst and spur new mixed-use development in the surrounding area.

Designed to exceed the Best Management Practices, as outlined by Denver's Urban Drainage and Flood Control District, this proactive approach to storm water infrastructure was undertaken with the intent of responding to the following four revelatory criterion, as uncovered during the literature review portion of the design process.

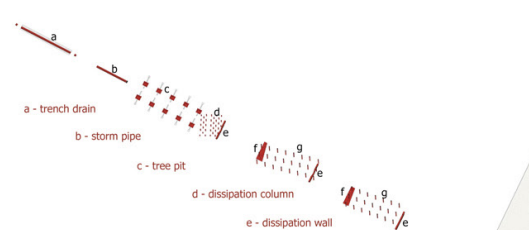
- perceptibility of change
- intelligibility of purpose
- abstraction of natural and engineered systems
- proximity of experience



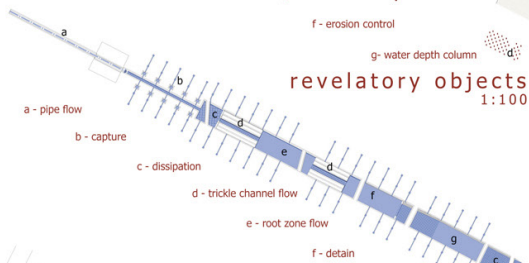
site defined



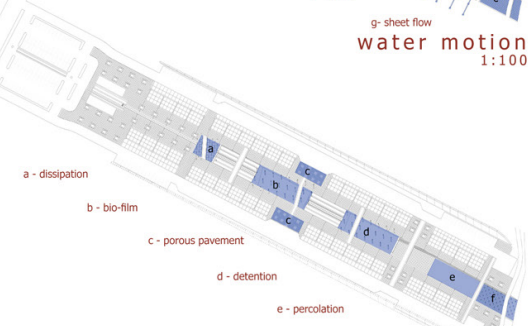
watershed



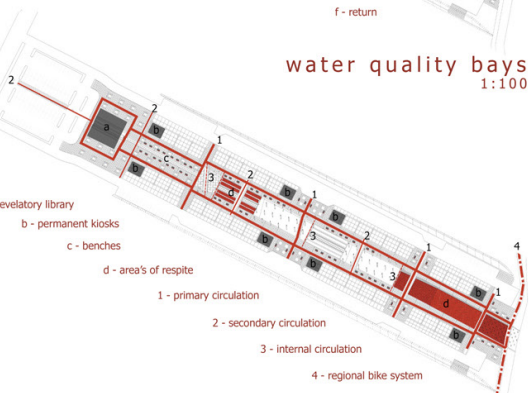
revelatory objects
1:100



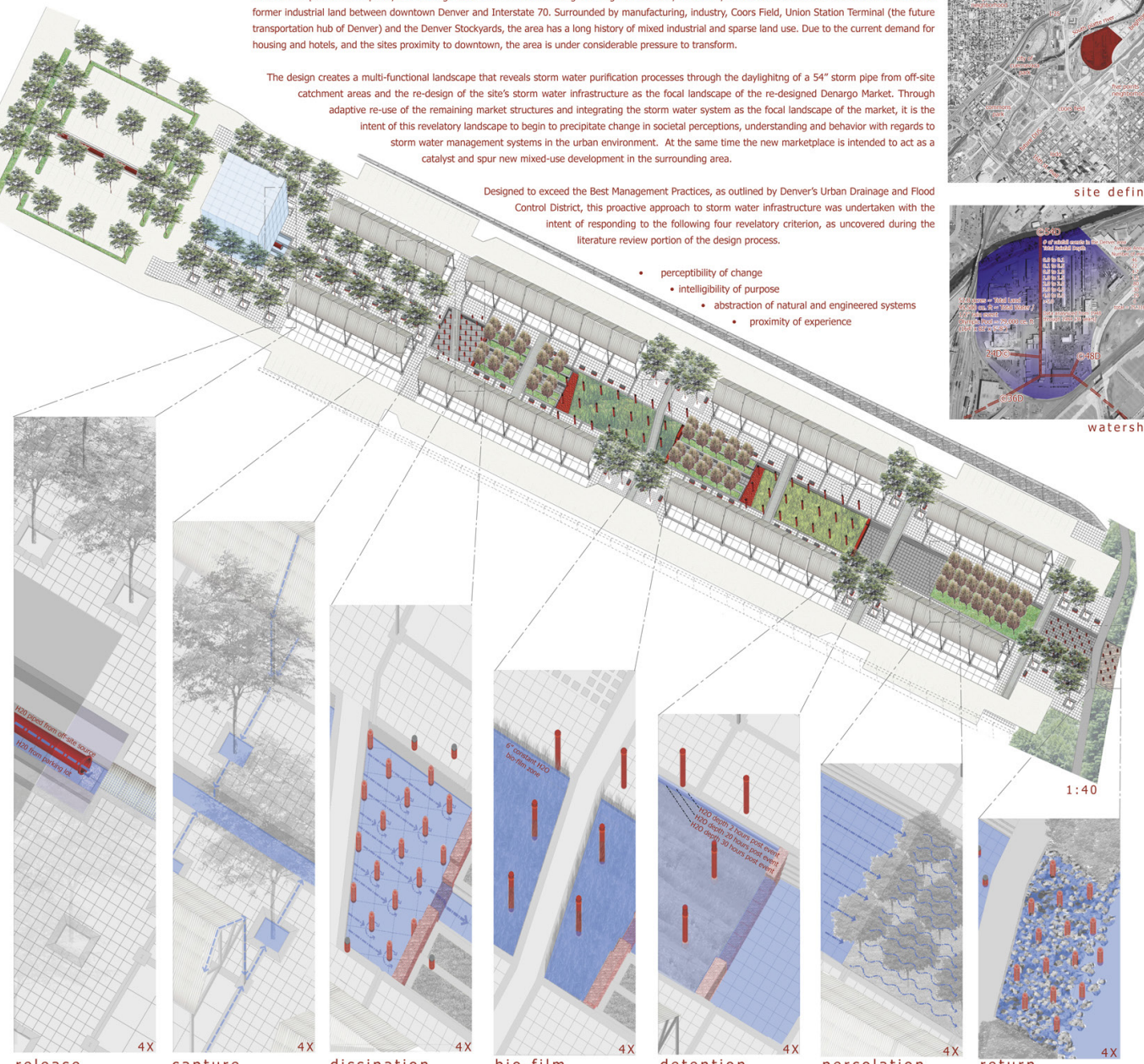
water motion
1:100



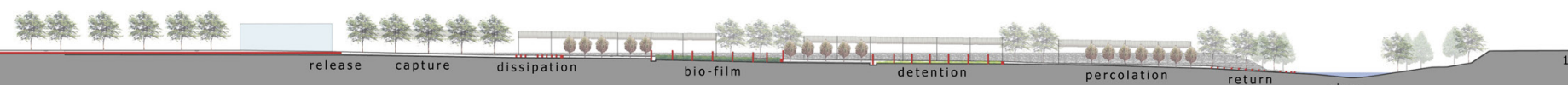
water quality bays
1:100



market functions
1:100



release 4X capture 4X dissipation 4X bio-film 4X detention 4X percolation 4X return 4X



release capture dissipation bio-film detention percolation return river 1:40

storm water infrastructure: ecology contained