The Bowtie Parcel Master Plan

UCLA LD6: Concept Development / Instructor: Steven Chavez

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Christina Eldredge

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HISTORY



Pre 1750s

Tongva occupies the region for centuries

> • •

769 Portola Expedition records first written record of LA, including the LA river. San Gabriel Mission

is completed (1771)

El Pueblo de Los Angeles is established. Settlers build a willowpole dam across the Los Junes river Angeles river

1781



1877-1908

Taylor family settles on east bank of the LA River and sells farm equitment as well as raises oats, barley, hogs, and pigeons. Employing over 5,000 and known as 'Taylor Yard' Becomes a major rail yard facility (1925)



1938

The LA River floods during a 4-day storm. As a reponse, the Army Corps of Engineers channelizes the river into the concrete storm drain that we see today. Its course was straightened and flora removed.



1985

Taylor Yard closes its long standing purpose as a freight switching facility. Several hundered jobs are lost. The area gets developed for warehouses and is zoned for mixed use.



2014 California State Parks

& Clockshop partner to activate parcel with art & cultural programming & name it The Bowtie Project

2019

The City of LA, **California State** Parks, & The **Mountains & Reation** & Conservation Authority sign a letter of intene to form the '100-Acre Partnership at Taylor Yard'



2020

The Nature Conservancy & California State Parks sign an agreemen to collaborate on 2.5 acre Bowtie Demonstration Project.



The Treaty of Guadalupe Hidalgo is signed and the Mexican-American War ends. California is ceded over to the U.S. and Stephen Clark Foster is appointdc first American mayor of Los Angeles. Southern Pacific Railroad is completed (1876)



1990s

By the 1990s over half of the rails are vacated. Fedex and Metrolink are developed nearby which was not favored by the community. The first Taylor Yard Area Planning and Urban Design Workshop is held.



SITE INVENTORY

FAUNA



Osprey





Long-Necked Stilts



Ground Squirrel



Coyote





CLOCKWORK ART PROJECTS



1- HATCH- Jesse Harrod 2019



2- ACE DESIGN STUDIO 2016



3- FIRE PIT N/A



4- ACE DESIGN STUDIO 2016



N/A



5- RAILCAR TURNAROUND









Bacharis salicifolia



Eriodictyon californicum



Datura wrightii



Pennisetum setaceum



Washingtonia robusta

Ζ

 \triangleright

 \bigcirc

SITE ANALYSIS



SITE CONSTRAINTS



LIMITED ACCESS POINTS & PARKING

AVALIABLE PARKING

MAIN

ACCESS

POINTS

South entry way is a locked maitenance gate. Only limited street parking avaliable, none that is site specific.



FLOODING



NORMAL Water travels fast at certain curves & during floods which can be a hazard. Upstream floodgates CEMENT release water when needed.



AIR POLLUTION & HIGH TENSION LINES



Compromised air quality from the surrounding freeways. High tension lines could potentially cause health hazards and are unsightly with an irritable hum.





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INVASIVE PLANTS & CONTAMINATED SOILS



& SOIL CONTAMINATION

HIGH LEVELS OF INVASIVE PLANTS sites heavy railraod machinary the soil is compacted. Toxins are at a level that require mitigation.



SITE OPPORTUNITIES





PARKING LOTS

DESIGNATED South entry way is a locked maitenance gate. Only limited street parking avaliable, none that is site specific.



RIVER BRIDGES & TERRACING

RIVER BRIDGES RIVER TERRACING

South entry way is a locked maitenance gate. Only limited street parking avaliable, none that is site specific.



SOIL **REMIDIATION**/ SHADE TREES

South entry way is a locked maitenance gate. Only limited NATIVE PLANTS street parking avaliable, none that is site specific.







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ART/PLAY INSTALLATION RIVER WALK



ART/PLAY INSTALLATIONS South entry way is a locked maitenance gate. Only limited street parking avaliable, none that is site specific.



BUFFALO BAYOU PARK

HOUSTON, TEXAS DESIGNED BY SWA GROUP COMPLETED 2015

OVERVIEW

A revitalized **160 acre greenspace** along a 2.3 mile long stretch of the Buffalo Bayou, the city's main drainage basin. Includes difficult conditions such as steep slopes, overhead freeways and utilities, limited access, and flood prone banks. The site also suffered from a damaged ecological and riparian system.

SUCESSES:

Native landscaping, hike & bike trails, the go-to dog park in the city, public art, a creative play area, 4 new bridges that **connect surrounding neighborhoods**, floodbenches, two visitor centers, gathering places for visitors to picnic, relax, and enjoy. It has been reengineered to **thrive in flooding conditions** (Hurricane Harvey).

AREAS FOR IMPROVMENT:

13% average increase in the median property tax revenue due to gentrification, Much of the existing trees and vegetation was removed.



DOG PARK photo via: archpaper.com



POLICE MEMORIAL & BRIDGE photo via: swagroup.com



SITE OVERVIEW: photo via swagroup.com

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COMMUNITY GATHERING photo via: swagroup.com

SHANGHAI HOUTAN PARK

SHANGHAI, CHINA Designed by turenscape Completed 2010

OVERVIEW:

Built on a former 34.5 acre industrial site. It was previously owned by a steel factory and a shipyard and was largely used as a landfill and laydown yard for industrial materials. Ran alongside a very polluted river (Grade V – unsuitable for human contact) that was subject to flooding.

SUCESSES:

The new design changed the water quality from Gradee V to Grade II (suitable for landscape irrigation) using only biological processes. Dramatically **increased biodiversity** on the site with 93 species of plants and over 200 species of animals observed. Includes **recreational and educational experiences** for visitors. **Reused** almost all of the steel and bricks found on the site – celebrating the industrial spirit of the site.



SITE OVERVIEW photo via: archdaily.com



ART photo via: archpaper.com



FLOATING GARDEN photo via: archdaily.com



WALKWAY photo via: archdaily.com



PLAY AREA photo via: swagroup.com

QUZHOU CITY, CHINA DESIGNED BY TURENSCAPE COMPLETED 2015

OVERVIEW:

This project is located at the west bank of the Shiliang Creek in the Zhejiang Province in China. The site is 90 acres and is completely surrounded by intensive developement. The topography of the site was difficult with red sandstone hills and a large floodplain in the lower area. The client's request was that the park be a multifunctional green space that provdes recreational opportunities for the citizens.

SUCESSES:

This park addresses the big picture issues and beautifully a productive urban oasis. The design includes food and energy security, **water resiliance**, ideas such as **'befriending the flood'**, agricultural urbanism (productive crops were introduced to the abandoned fields), and **minimum intervention**. The mosaic landscape patterns and its natural processes are kept basically unchanged. The cultural aspects of the park were also recognized and maintained, such as the village trails and the old pavillion.



SITE OVERVIEW photo via: turenscape.com



PEDESTRIAN WALK photo via: turenscape.com



WALKING BRIDGE photo via: turenscape.com



RIVER PAVILLION photo via: turenscape.com

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ADAPTIVE DESIGN WALKWAY photo via: turenscape.com



DESIGN ALTERNATIVE 1





DESIGN ALTERNATIVE 2



DESIGN ALTERNATIVE 3



MASTER PLAN STATEMENT

The Bowtie Project

This design connects the people and places around the Bowtie with two bridges over the Los Angeles River and to Frogtown and the Elysian Park neighborhoods. The railroad has also been sunk underground to allow for easy access to & from the high school on the east side and vehicles coming from San Fernando Road.

The site has terraces along the river, some vegetated with native plants and some encouraging visitors to venture down to the waters edge. The Bowtie also contains a stage with ampitheater seating, two cafes, a dog park, a childrens play area, and an educational plaza with different learning opportunities.

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INSPIRATION



EDUCATIONAL CENTER



CONSTRUCTED WETLAND

Constructed wetlands are engineered systems that use natural functions of vegetation, soil, and organisms to treat different water streams.



RIVER TURBINE

Each vortex turbine delivers 3-100kW, and can operate efficiently with a low height difference. Turbulent generates electricity with a single turbine or multiple turbines, allowing the device to generate as much electricity as if it was on a dam.



COMMUNITY BOCCE BALL COURT



OUTDOOR AMPITHEATER



BIOSWALE WITH BRIDGE

MASTER PLAN





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-) RIVER-LEVEL WALWAY
-) MAINTENANCE BUILDING

SITE SECTION 1 - THE LEARNING PLAZA



EDUCATIONALAL OBSERVATORY

PLAZA

PLANTER WITH SEAT BENCH

PROMENADE (10 FEET)

RIVER TURBINE

DISCOVERY PATH (6 FEET)

LA RIVER



SITE SECTION 2 - THE RIVER AMPITHEATER



STAGE (50 FEET)

AMPITHEARTER SEATING PATHWAY (5 FEET)

THE GREAT LAWN

PROMENADE (10 FEET)

PLANTED TERRACES

CONSTRUCTED WETLAND



PERSPECTIVE 1 - THE RIVER AMPITHEATER





At night the River Ampitheater is illuminated by lights





PERSPECTIVE 3 - THE LEARNING PLAZA





WALKTHROUGH VIDEO

https://youtu.be/Vc-tmZOmpJE



