

PORTFOLIO OF RUOXI CAO



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Ruoxi Cao
M.LA , SITES AP, LEED GA

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PROPOSED LANDFORMS MODEL

CLOSING THE GAP

Boyle Heights is a high-density neighborhood of low income and education in Los Angeles. Residents and officials stated that Boyle Height lack of park spaces. There are existing **open spaces gap**. My design intention possibly address this issue through landscape design to help young generation to be more involved in bright future. My proposed plan close the gap by introducing parks, commercials, **connections to the LA River** to the site to help active the community and provide places for community gathering and increasing the connection to the world.

Type Public Realm
Academic

Location Los Angeles, CA, USA

Duration 03/2016 - 05/2016

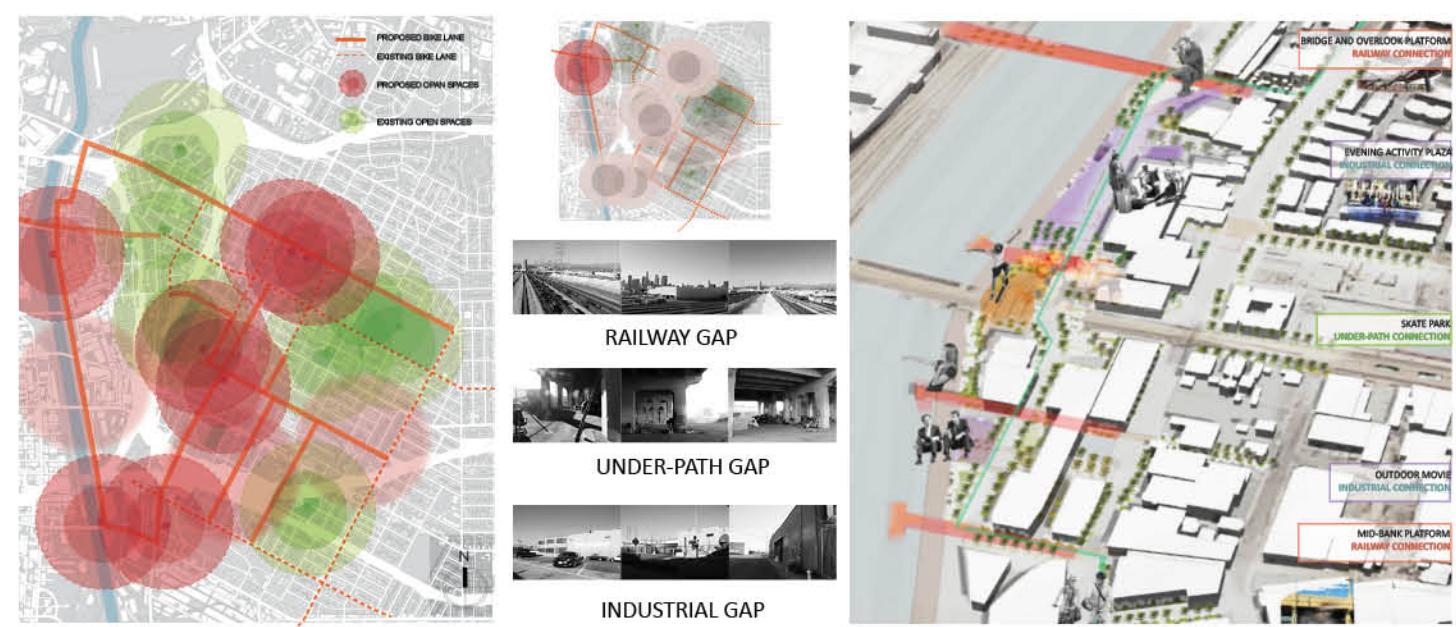
Area Size Neighborhood-6.52 square miles
Enlarged Site - 180 Acre

Instructor Gero Aquino, Ying-Yu Hung, Gabe Mason

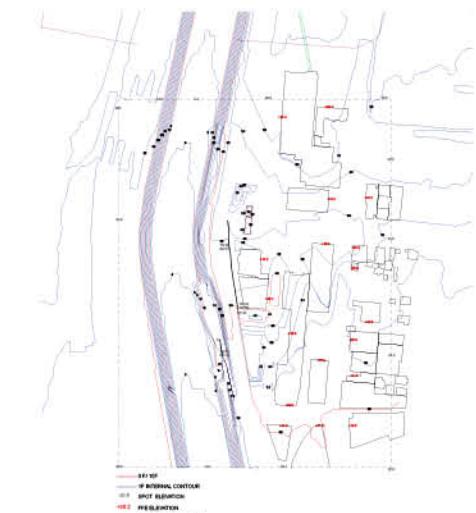
ANALYSIS



NEIGHBORHOOD STRATEGY



ENLARGED PLAN



GRADING PLAN



PROGRAM PLAN



PROPOSED STREET PARK



LA RIVER WATERFRONT



AMPHITHEATER NIGHT VIEW

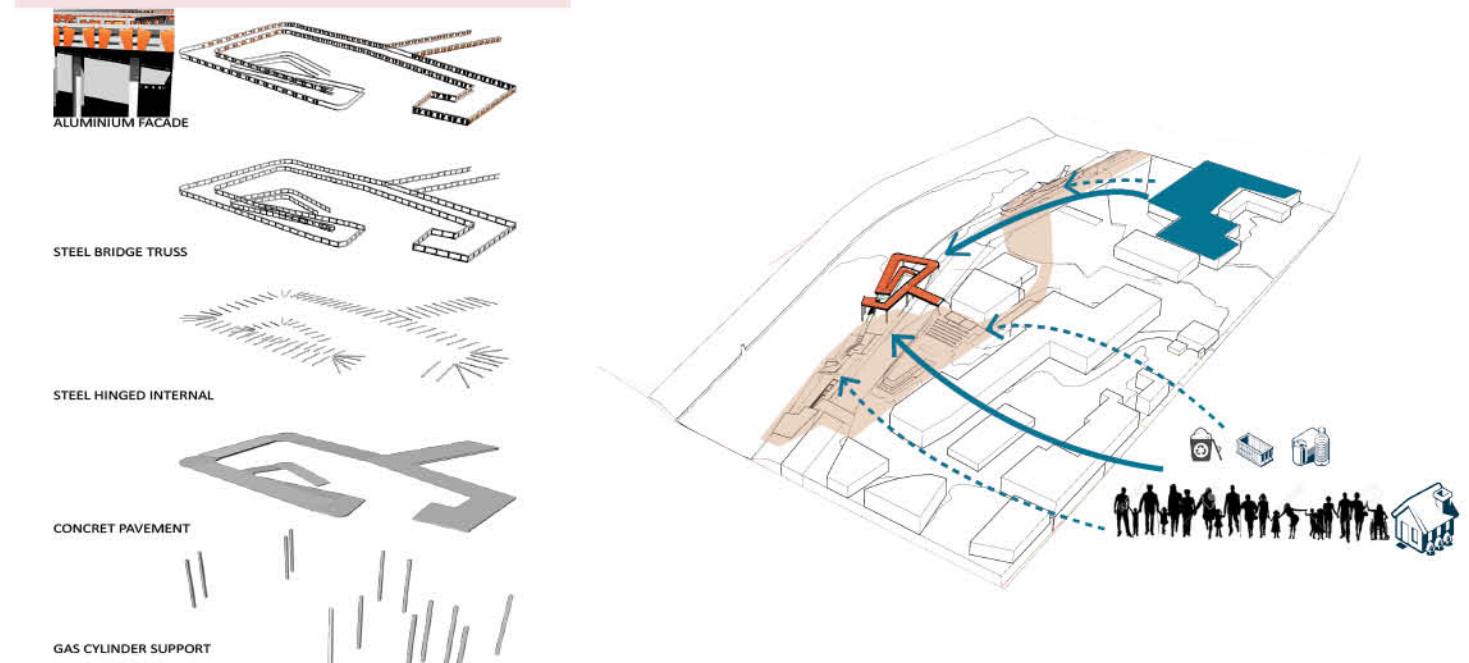
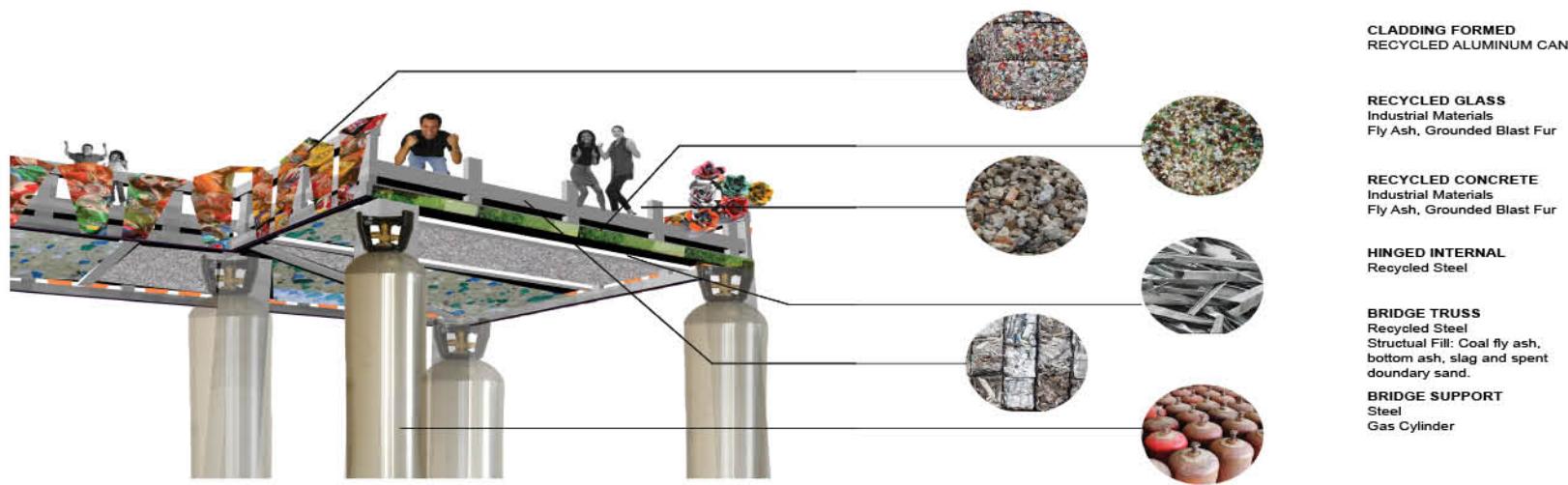


STREET AMENITIES

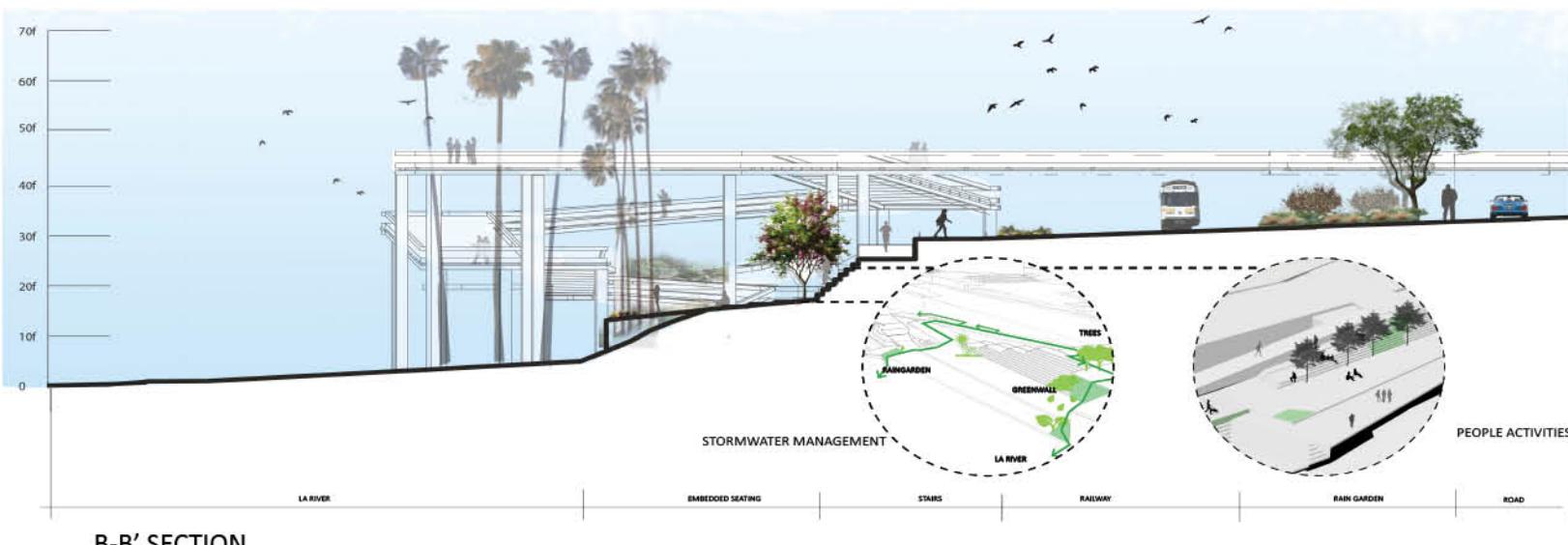


A-A' SECTION

DETAILED DESIGN

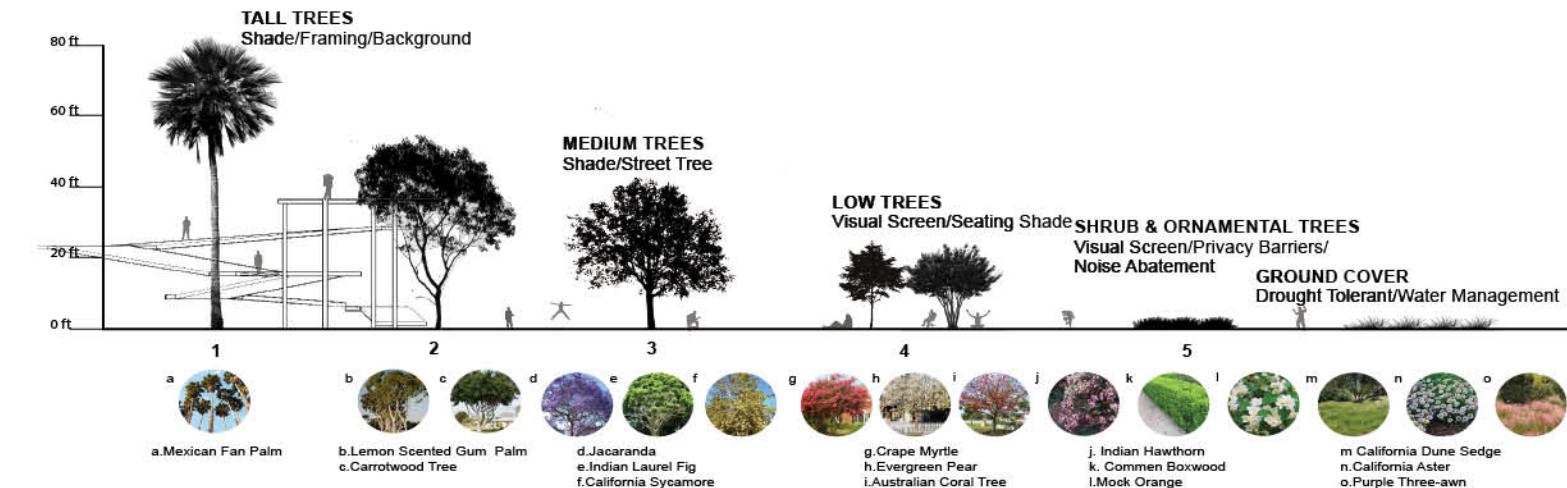


SECTION

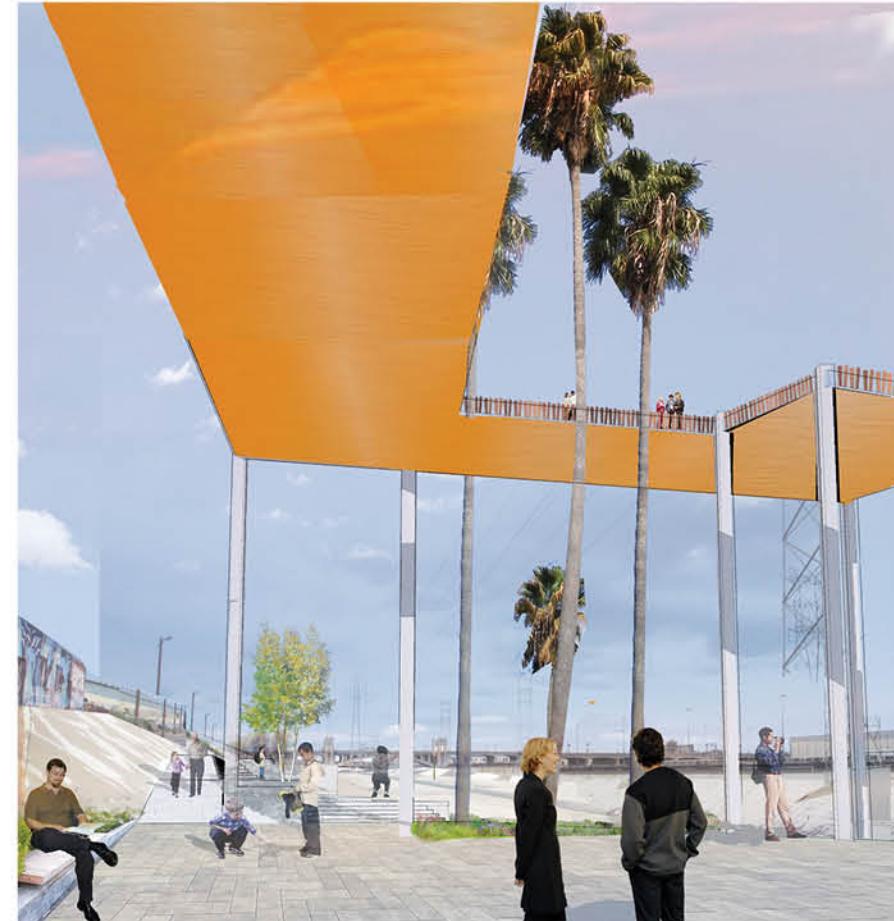


B-B' SECTION

PLANTING DESIGN



PERSPECTIVE

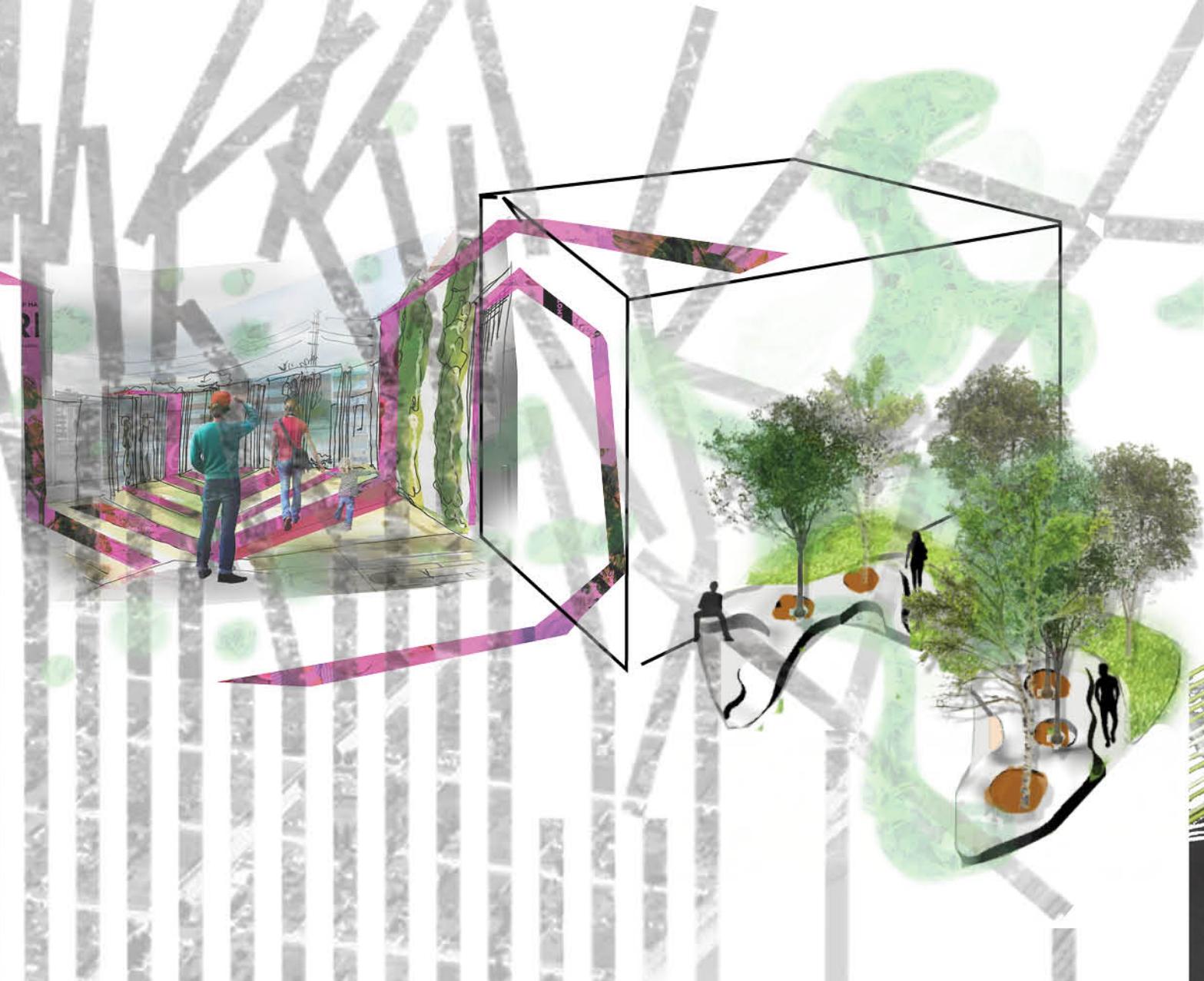


PLATFORM STAGE



MODELS





PROPOSED PLAN

Software AutoCAD, Photoshop, Illustrator, InDesign, ArcGIS, Rhino

THE CORPORATE CONNECTION: IN SEARCH OF A BUSINESS-LIKE BEAUTY

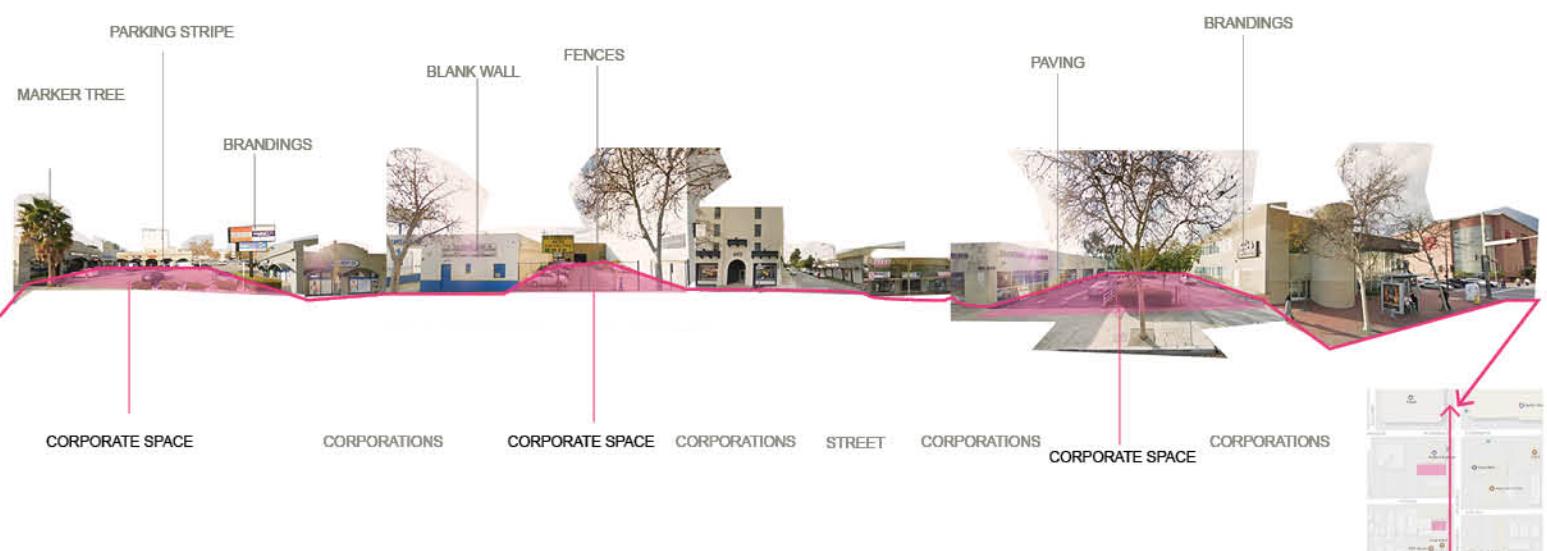
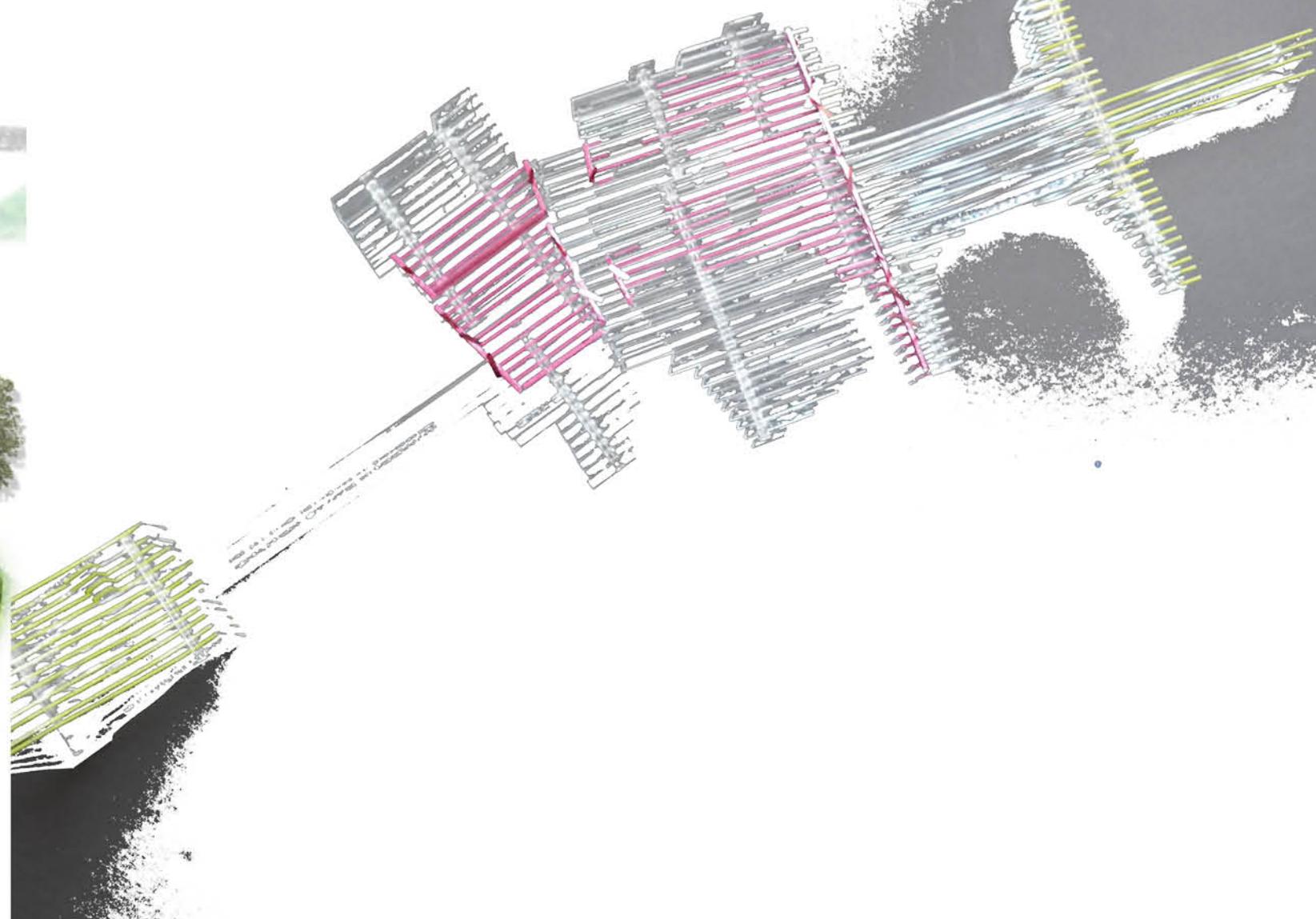
Vernacular corporate landscapes are open spaces in private ownership which were not professionally-designed but were laid down for basic practical, aesthetic and company identity purposes by the people who own and maintain them. Through understanding their basic logics, we can adopt their 'common' ideas in a more self-conscious and intelligently designed way.

Type Thesis
Academic

Location Los Angeles, CA, USA

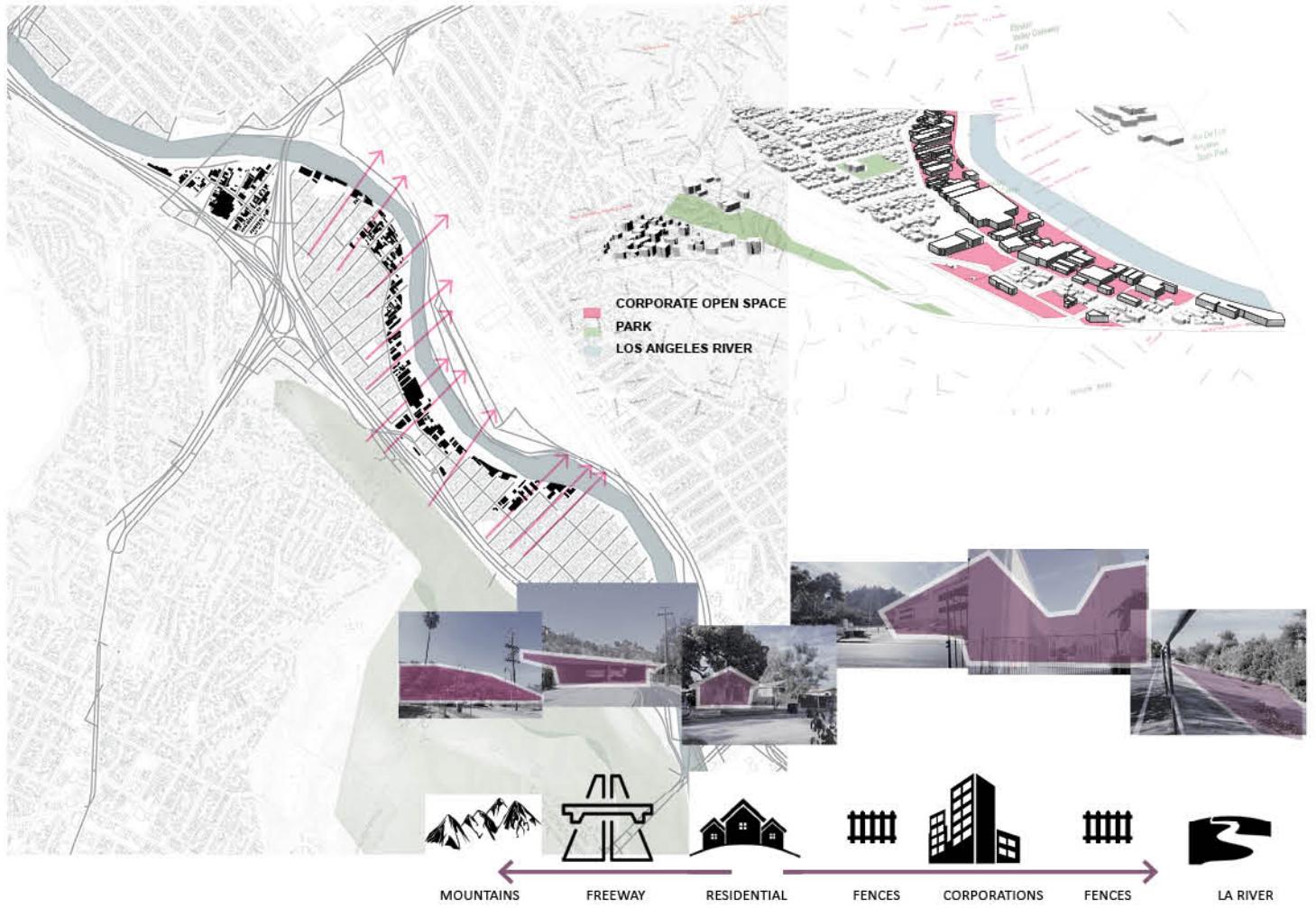
Duration 08/2016 - 05/2017

Instructor Peter Culley

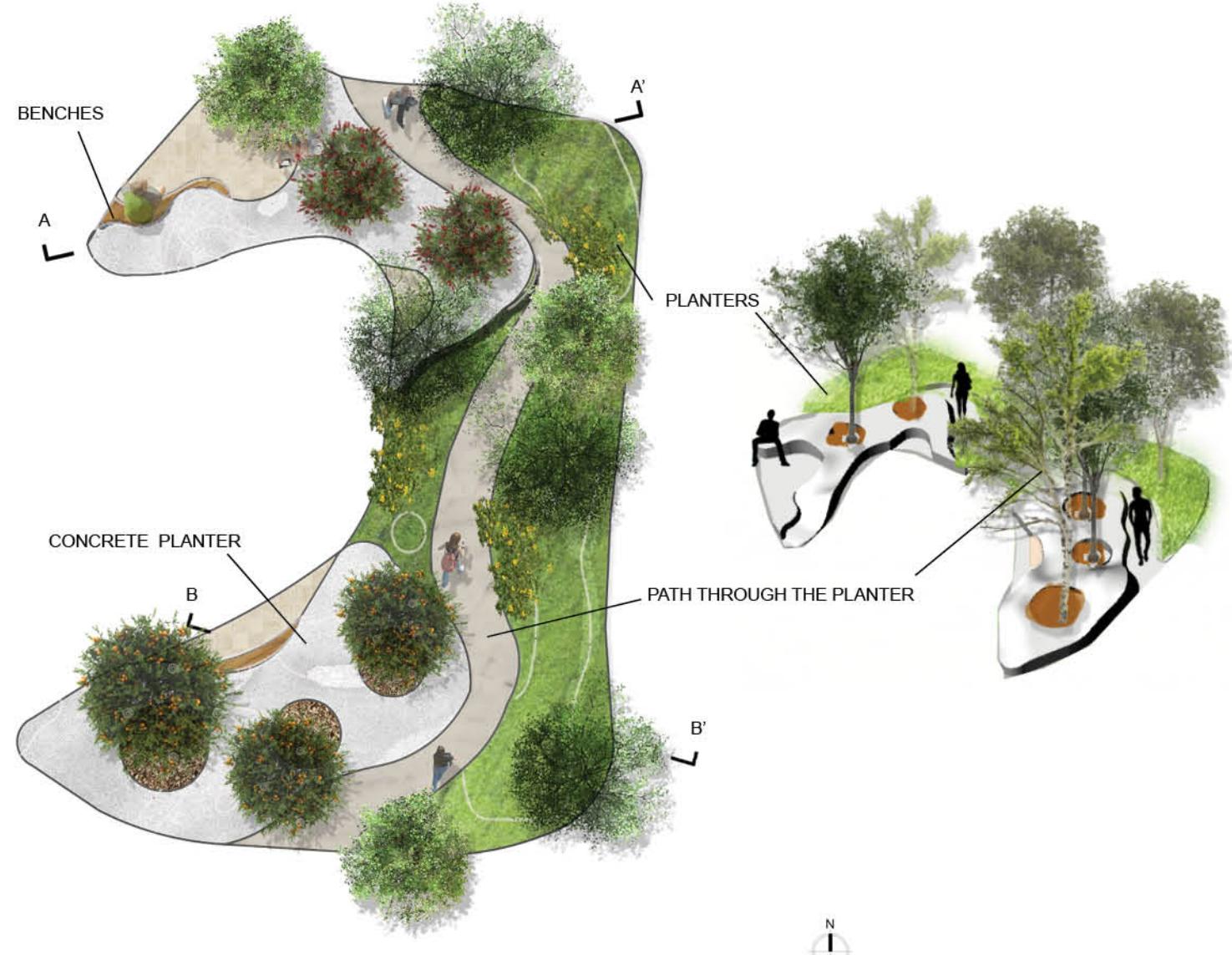


Location :91203, Los Angeles, CA
Source: Google Maps. <https://www.google.com/maps/>

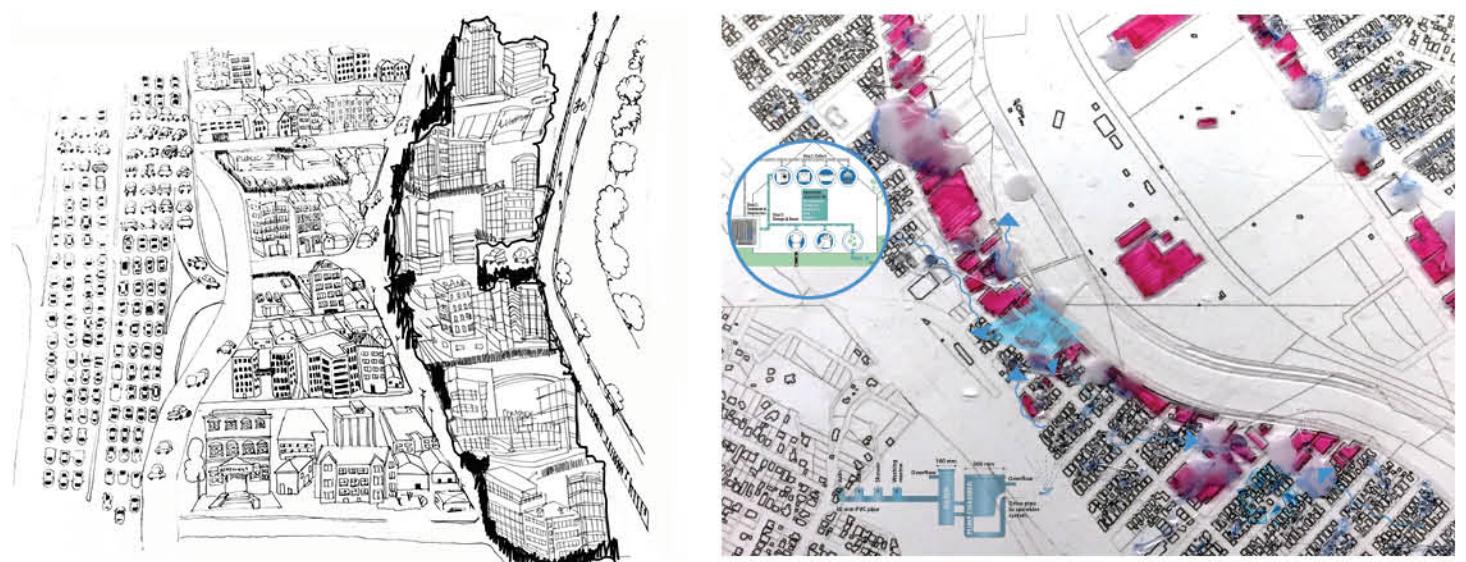
INTERROGATING THE CORPORATE BELT IN FROGTOWN



PLANTER DESIGN



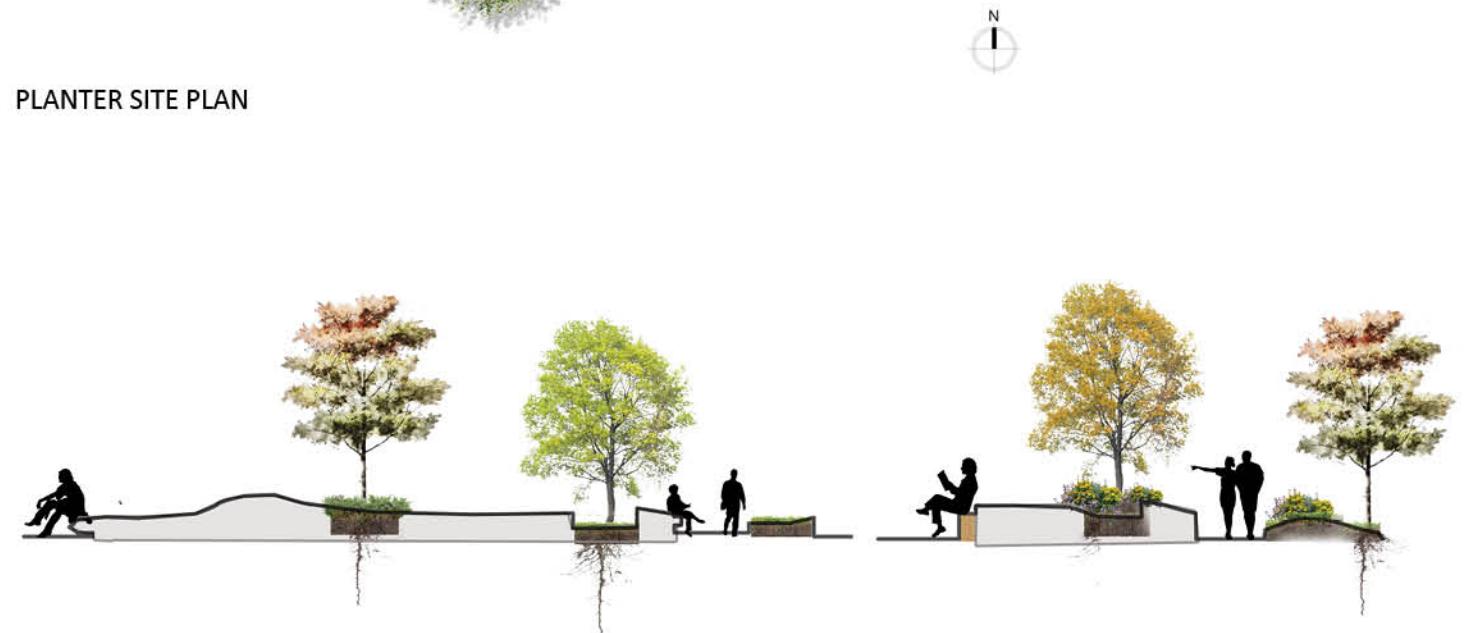
FUTURE FROGTOWN



WARNINGS

GRAYWATER FOR CO-ACTIVITY

PLANTER SITE PLAN



A-A' SECTION

B-B' SECTION



SITE RENDERING

Software Revit, Lumion, Enscape, AutoCAD, Landfx, Photoshop, InDesign

JCNI PARCEL 7 DEVELOPMENT

JCNI Parcel 7 is a 99 unit 4-story multifamily housing. The composition and finishes of the building façade work in tandem with the landscape design to create an integrated, high-performance, and welcoming environment for the residents. Landscape design connects the interior living spaces with the surrounding urban fabric through the use of integrated bioretention gardens, public and private gathering areas, shaded seating, ADA accessibility, and public amenities such as community gardens, dog park, and communal tables. The unusual site conditions have created the opportunity for a multi-level and landscape that will demonstrate best practice in the provision of social spaces and environmental sustainability.

Type Residential
Professional

Location San Diego, CA, USA

Duration 03/2016 - On going

Area Size 26,400 sqft

Company BNIM Architects

Design Process:
Schematic Design
Conceptual Design
Construction Documents
Cost Estimate
Site Modeling
Site Rendering

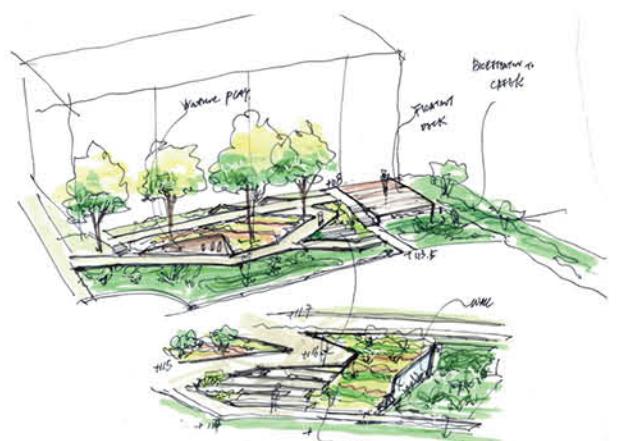
SCHEMATIC DESIGN



DESIGN PROCESS



GRADING PLAN

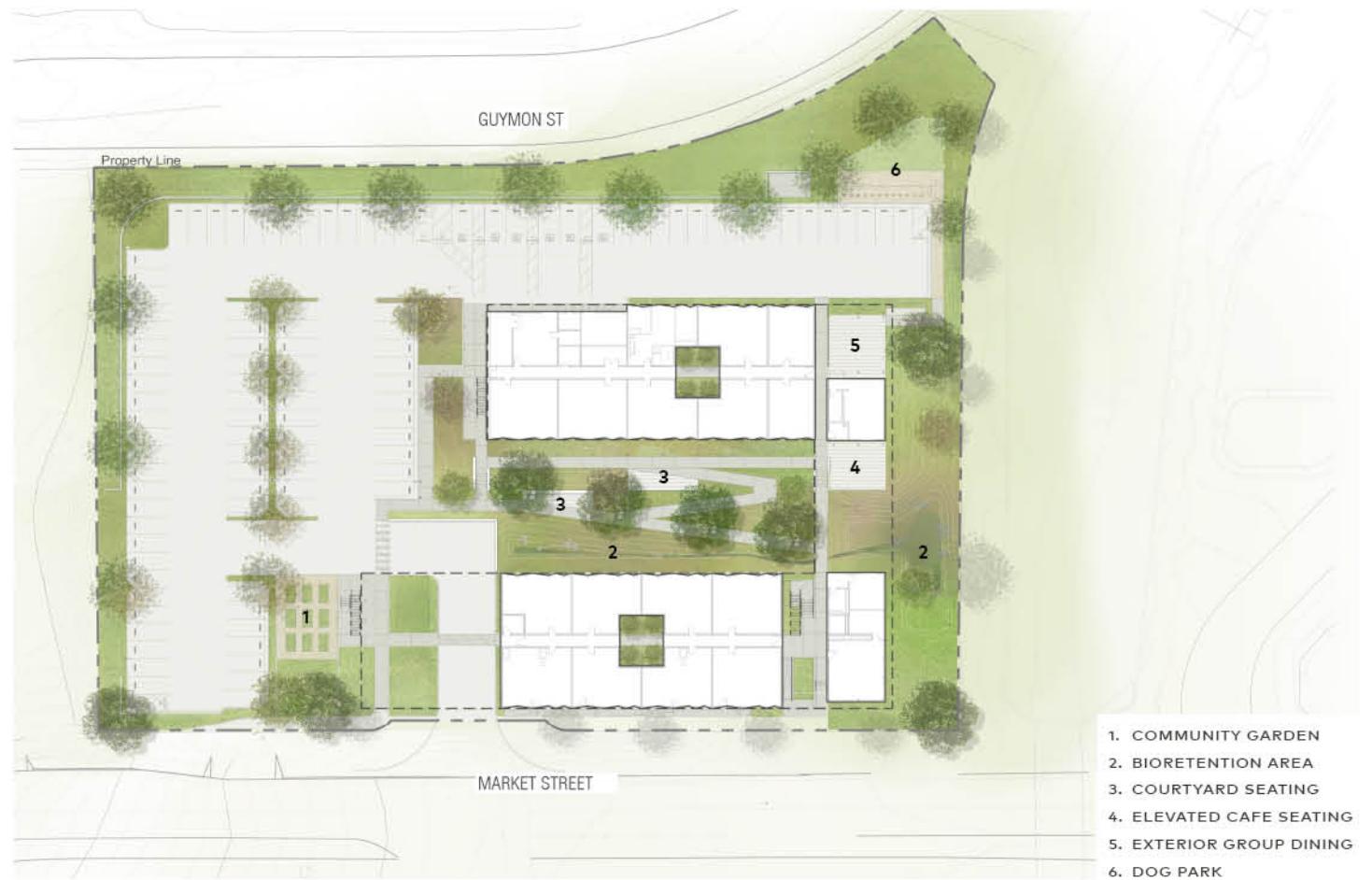


SKETCHES



MODELS

SITE PLAN



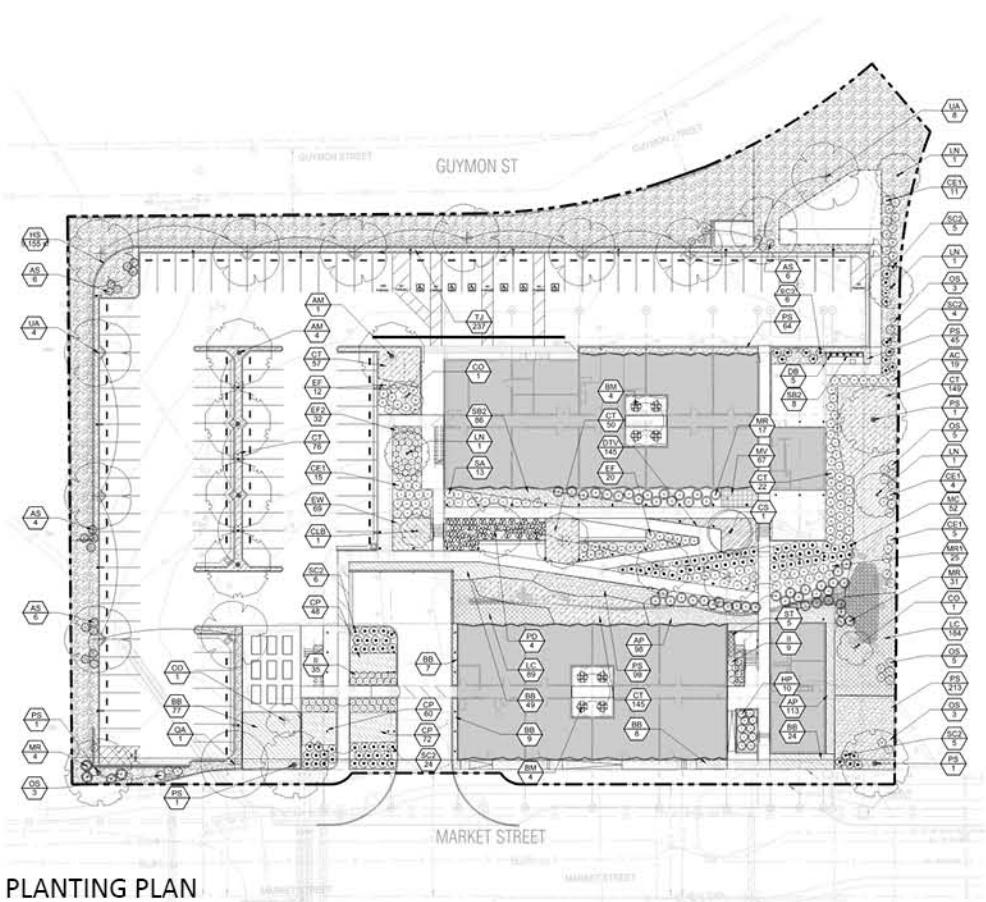
LIGHTING STUDIES



PLANTING DESIGN

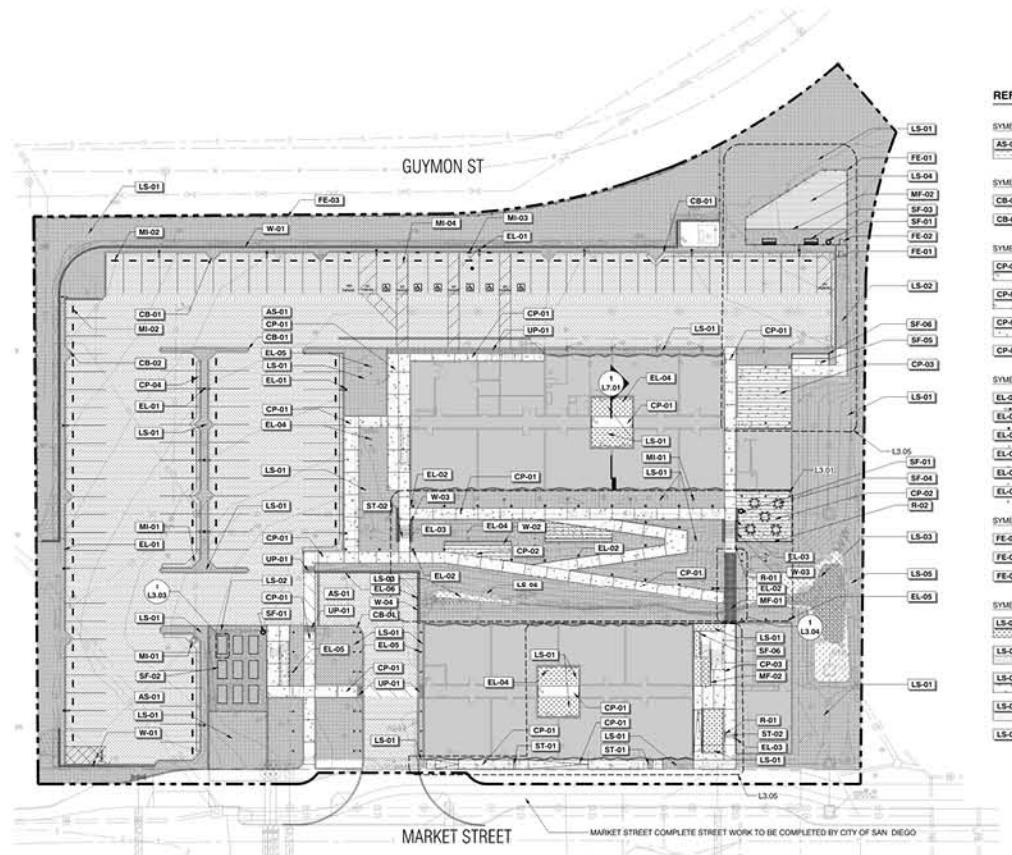


PLANTING PLAN

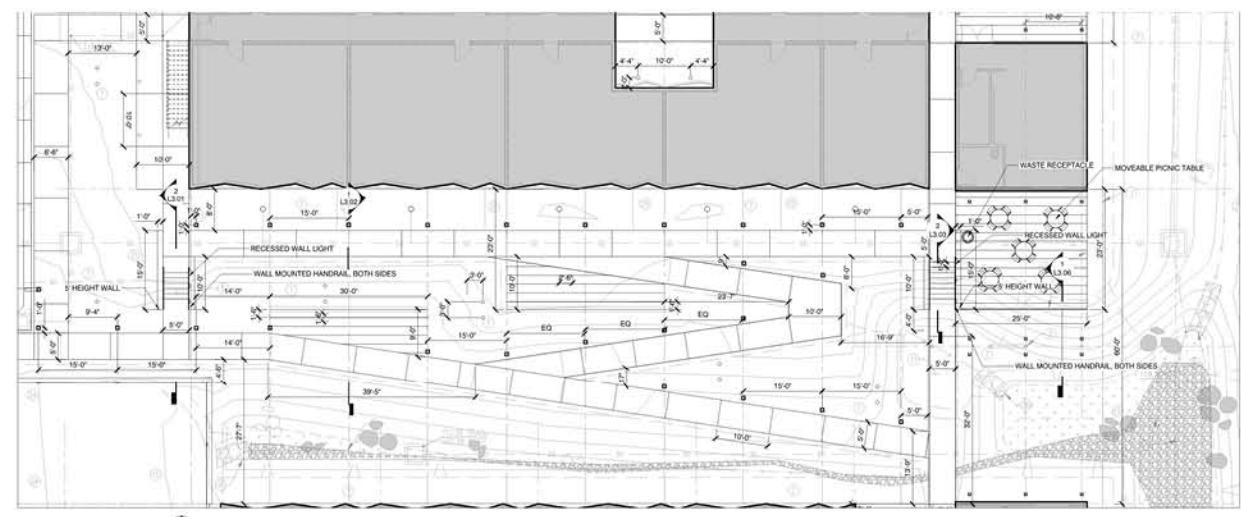


PLANT SCHEDULE		CODE	COMMON NAME	SCIENTIFIC NAME	CONT.
1	+	AM	ARbutus Standard	ARbutus MAREN	24" BOX
2	+	CLB	BURB. DESERT Mallow	CHLORIS LINEARIS BURB	36" BOX
3	+	CO	WESTERN REDBUD MULTI TRUNK	CERCIS OCCIDENTALIS	36" BOX
4	+	CB	SWEET ORANGE	CITRUS S. SINENSIS	24" BOX
5	+	LN	NATCHEZ CRAB MYRTLE	LAURERETROSIMA INDICA FAURE	24" BOX
6	+	PD	DESERT MULBERRY GREEN	PARKINSONIA X DESERT MULB	36" BOX
7	+	PI	CALIFORNIA STACHYOPE MULTI TRUNK	PLATANUS RACEMOSA	36" BOX
8	+	CR	COAST LIVE OAK	QUERCUS RUBRA	36" BOX
9	+	VA	ALLEE LACEWING ELM	VELVUT PARVIFOLIA ALLEE	24" BOX
10	+	CODE	BOURNIA NAME	BOURNIA NAME	CONT.
11	+	AC	MANDARINA	ARCTOTIS PINNATIS MANDARINA	1 GAL.
12	+	AS	COASTAL AGAVE	AGAVE SHAWII	1 GAL.
13	+	BM	MAMMUS BAMBOO	BAMBUSA MAMMOGRAMMA	1 GAL.
14	+	CE	Fairy Duster	CALADIUM PROPOLYNA	3 GAL.
15	+	CE1	BUSH ANEMONE	CARPENTERIA CALIFORNIA SUEZBETH	5 GAL.
16	+	CT	CAPE FUSH	CHONOPETALUM TECTORIUM	5 GAL.
17	+	DE	DIXIEYA	DIXIEYA MATTOMI	1 GAL.
18	+	EF	BRITTLE BUSH	ENCELIA FARINOSA	5 GAL.
19	+	EF2	CALIFORNIA BUCKWHEAT	ERODIUM FASCICULATUM FOLOLOSUM	3 GAL.
20	+	HP	RED YUCA	HEPERIA DE PAVOLLA	3 GAL.
21	+	IR	Douglas Iris	IRIS DOUGLASIANA	2 GAL.
22	+	MC	PINK MAILY	MALVIBERGIA CAPILLARIS	1 GAL.
23	+	MR	DEER GRASS	MUNZBERGIA INCENS	1 GAL.
24	+	MR1	CREEPING MAHONIA	MAHONIA REPENS	1 GAL.
25	+	OB	SANTA RITA PHOENIX	OPUNTIA SANTARITICA TUBAC	1 GAL.
26	+	SA	DESERT OLIVEBUSH	SPINOPALA AMBIGUA	5 GAL.
27	+	SC2	CEDAR SAGE	SALVIA CEDROLERO	5 GAL.
28	+	ST	MOTHER OF THOUSANDS	SANSEVIERA TRIFASCICATA	1 GAL.
29	+	AF	PURPLE THREEKAN	ARISTOCA PURPUREA	1 GAL.
30	+	BB	BLUE GRAMA	BOUTELLA GRACILIS BLONDE AMBITION	1 GAL.
31	+	CP	SANDOLINE REDGE	CAREX PANDA	1 GAL.
32	+	CT	BENESLEY SEDGE	CAREX TUMULICOLA	1 GAL.
33	+	PTV	PLAZ LASY	DIABELLA TAHAMANICA VARIATA	1 GAL.
34	+	EW	SEASIDE DAISY	ERIGERON TAFIFASCICATA	1 GAL.
35	+	HP	PER TABLE	HYDROSERIS MA	1 GAL.
36	+	LC	NATIVE BLUE RYE	LEMYRIA CONDENSATA CAYON PRINCE	1 GAL.
37	+	MV	COOTIE MINT	MONARCHELLA VILLIBIA	1 GAL.
38	+	PS	BLENDER VELOZ GRASS	PENNISTEUM SPATULATUM	1 GAL.
39	+	SE2	SENNOO	SENOCA MINORISCA BLUE CHALK STOCK	1 GAL.
40	+	TJ	STAR JASMINE	TRACHELOPERMUM JANINODES STAR	1 GAL.

CONSTRUCTION PLAN AND DETAILS

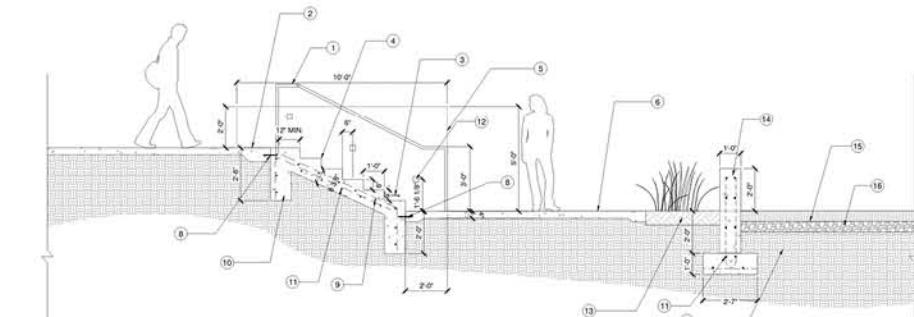


REFERENCE NOTES SCHEDULE	
SYMBOL	ARTIFICIAL SURFACE DESCRIPTION
AS-01	ASPHALT PAVING - TYPE 1
SYMBOL	CURB DESCRIPTION
CB-01	VEHICULAR CURB
CB-02	LANDSCAPE CURB
SYMBOL	CONCRETE PAVING DESCRIPTION
CP-01	CONCRETE PAVING - TYPE 1
CP-02	CONCRETE PAVING - TYPE 2
CP-03	CONCRETE PAVING - TYPE 3
CP-04	CONCRETE GUTTER
SYMBOL	SITE LIGHTING DESCRIPTION
EL-01	POLE MOUNTED LUMINAIRE - TYPE 1
EL-02	BOLLARD LUMINAIRE - TYPE 1
EL-03	RECESSED WALL LIGHT
EL-04	FLOOR LUMINAIRE
EL-05	FLOOR LUMINAIRE - TYPE 2
EL-06	WALL LIGHT - TYPE 2
SYMBOL	FENCING DESCRIPTION
FE-01	DOG PARK SECURITY FENCE
FE-02	SECURITY FENCING GATE
FE-03	SECURITY FENCE
SYMBOL	LANDSCAPE DESCRIPTION
LS-01	PLANTING AREA
LS-02	STABILIZED DECOMPOSED GRANITE
LS-03	BIORETENTION PLANTING AREA
LS-04	SYNTHETIC TURF
LS-05	LANDSCAPE BOULDER
SYMBOL	METAL FABRICATION DESCRIPTION
MF-01	BRIDGE
MF-02	STEEL EDDING
SYMBOL	MISCELLANEOUS DESCRIPTION
MD-01	AREA DRAIN INLET
MD-02	WHEEL STOP
MD-03	ADA SIGNAGE
MD-04	PARKING LOT STRIPE
SYMBOL	RAINING DESCRIPTION
R-01	HANDRAIL
R-02	GUARDRAIL
SYMBOL	SITE FURNISHINGS DESCRIPTION
SF-01	WASTE RECEPTACLE
SF-02	COMMUNITY GARDEN PLANTER
SF-03	BENCH - TYPE 1
SF-04	TABLE - TYPE 1
SF-05	BBQ GRILL
SF-06	CONCRETE PLANTER
SYMBOL	STAIR DESCRIPTION
ST-01	STAIR - TYPE 1
ST-02	STAIR - TYPE 2
SYMBOL	UNIT FAVING DESCRIPTION
UF-01	TRUNCATED DOME PAVERS
SYMBOL	WALL DESCRIPTION
W-01	RETAINING WALL - TYPE 1
W-02	SEAT WALL - TYPE 1
W-03	CONCRETE WALLS
W-04	CONCRETE CHANNEL WALL

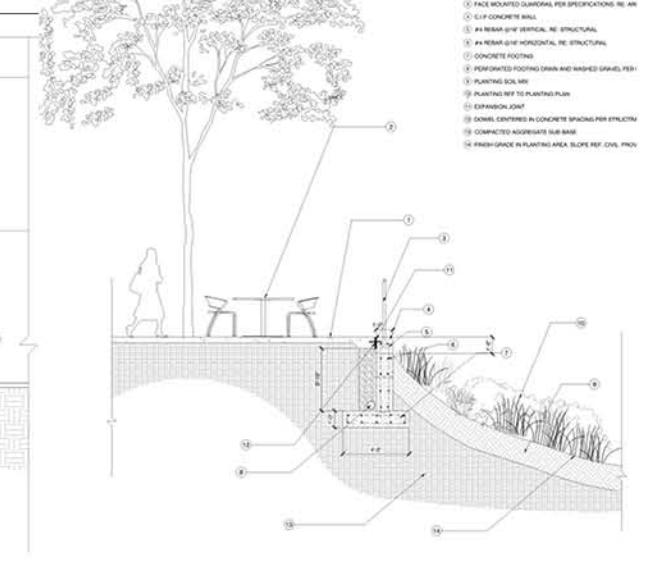
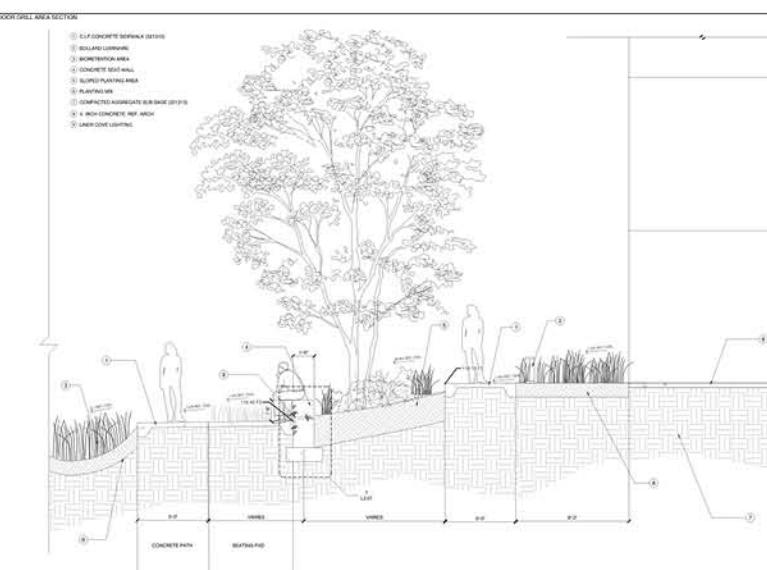
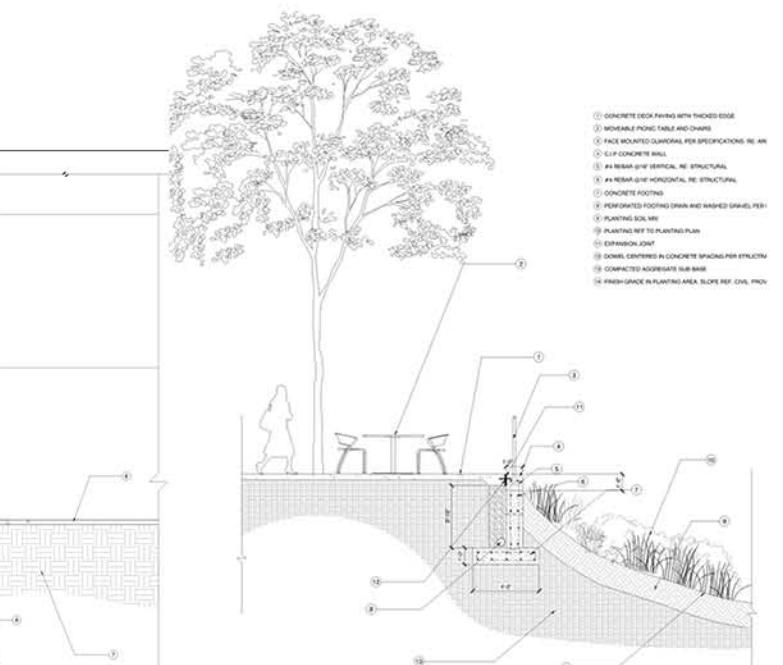
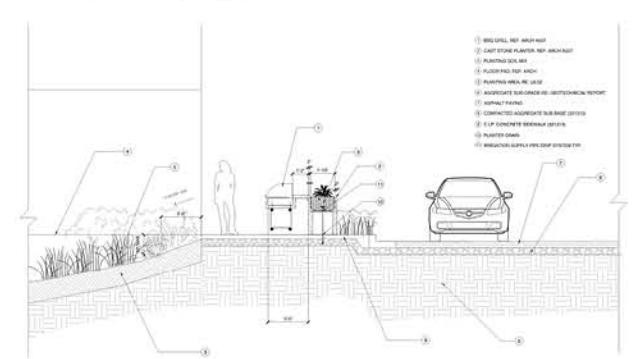


1 CONSTRUCTION PLAN

- 1. GALVANIZED STEEL HANDRAIL, 1 1/2" DIA. EMBEDDED RE: STRUCTURAL FOR CONCRETE FOOTING AND STAIR Treads. HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS
- 2. THICKENED EDGE TYPE
- 3. PROVIDE POSITIVE DRUMANE TYP.
- 4. #4 DOWELLS @ STAR TREADS 1 1/2" RIBBED BATTER TYP. CONTRASTING STRIPS SHALL MATCH ARCHITECTURAL STAIRS.
- 5. C-1P CONCRETE WALL BEYOND
- 6. C-1P CONCRETE SIDEWALK (321313)
- 7. COMMUTATED AGGREGATE GROUT BASE (321313)
- 8. #4 DOWEL(1 1/2" O.C. (321313)
- 9. C-1P REINFORCED CONCRETE STAIR (321313)
- 10. C-1P CONCRETE STAIR FOOTING (321313)
- 11. #4 COWEL(B) 12" O.C.
- 12. RECESSED WALL LIGHT
- 13. PLANTING MIX
- 14. CONCRETE WALL
- 15. ASPHALT PAVING
- 16. AGGREGATE SUB-GRADE RE: GEOTECHNICAL REPORT



2 SECTION - CONCRETE STAIR TO NORTH BUILDING



1 SECTION - CONCRETE DECK

① GALVANIZED GMAW 2 PAINTED W/ HIGH PERFORMANCE COATING
 ② WELD ON GALVANIZED STEEL BEAM
 ③ HIGH PERFORMANCE COATING
 ④ PL 5/8" 3 SIDES TYP
 ⑤ 5/16" WELD ON BEES TYP

NOTE: CONTRACTOR TO VERIFY IN
 TELCO 100 ALUMINUM (1/2" MILLS)
 FLUSH TRANSITION

3 BRIDGE SECTION B

METAL BRIDGE PLAN

PORTFOLIO OF RUOXI CAO



SKATE PARK SITE PLAN

Software Rhino, Vray, AutoCAD, Photoshop, InDesign

HARBOR CITY SKATE PARK

Located at Harbor City Park, between Torrance and Carson, the new 11,000 square foot concrete skatepark has been earning rave reviews from skateboarders across the South Bay. South Bay skateboarders are loving the smooth concrete, innovative obstacles and healthy balance of street and transition-style terrain. These schematic design were loved by the skateboarders in the community.

Type Skate Park
Professional

Location Los Angeles, CA, USA

Duration 09/17 - 03/18

Area Size 11,000 sqft

Company City of Los Angeles, Department of Recreation and Parks

Design Process:
Schematic Design
3D Modeling
Site Rendering
Community Presentation

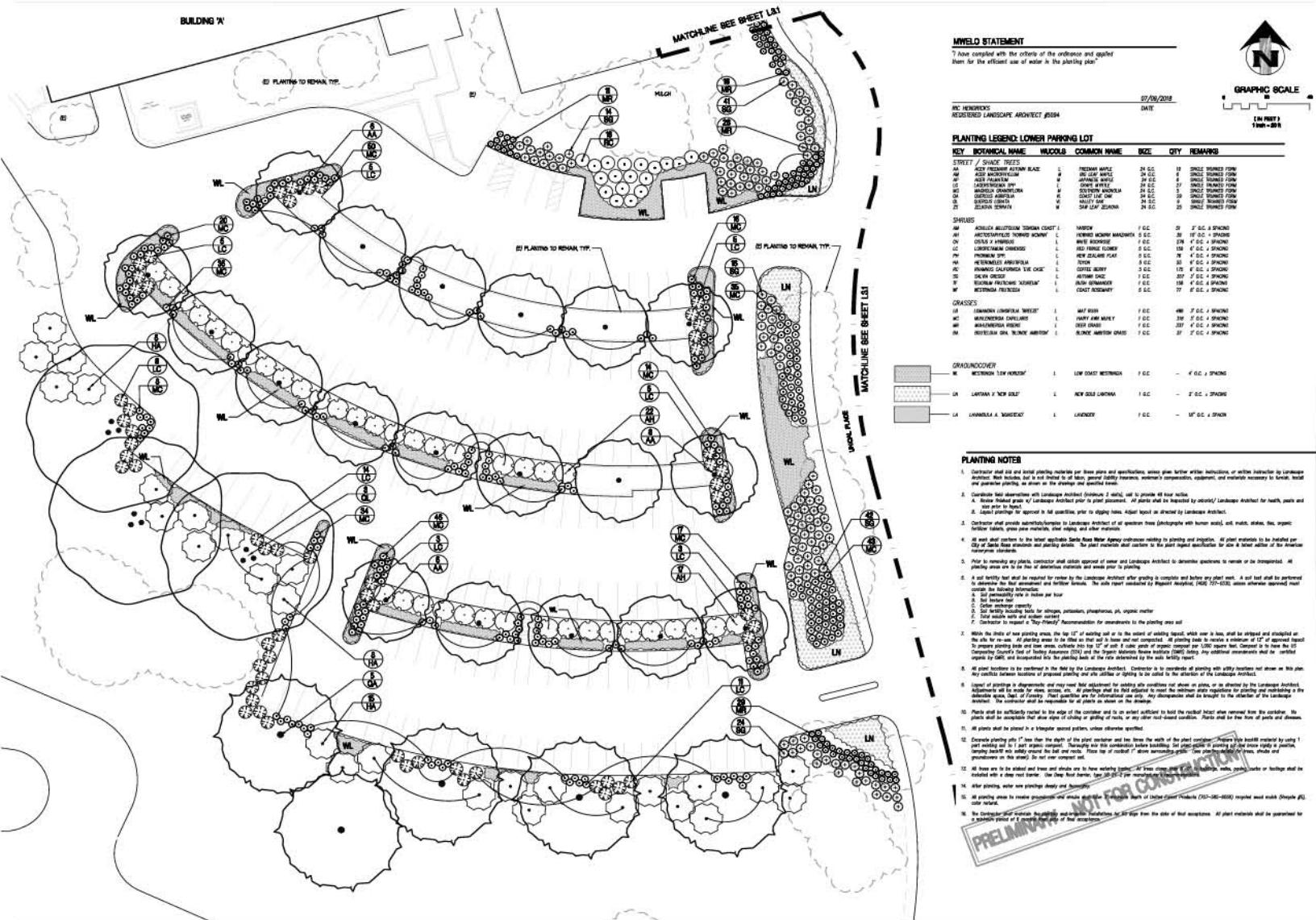
SCHEMATIC DESIGN



COMMUNITY INVOLVEMENT



Resource: <https://www.laparks.org/skatepark/harbor-city-skate-park>



MEDTRONIC CAMPUS PLANTING DESIGN

MEDTRONIC CAMPUS - LANDSCAPE RENOVATION

Santa Rosa Medtronic campuses are the headquarters for two of Medtronic's largest businesses within its coronary and vascular divisions — the coronary and structural heart and the aortic, peripheral and venous businesses. The design renovated the landscape in the parking lot and bring active plaza area. Using native plants, the design places a high degree of emphasis on the public realm through a series of elements that connect the project to the company, of which it is a vital part.

Type Commercial Renovation
Professional

Location Santa Rosa, CA, USA

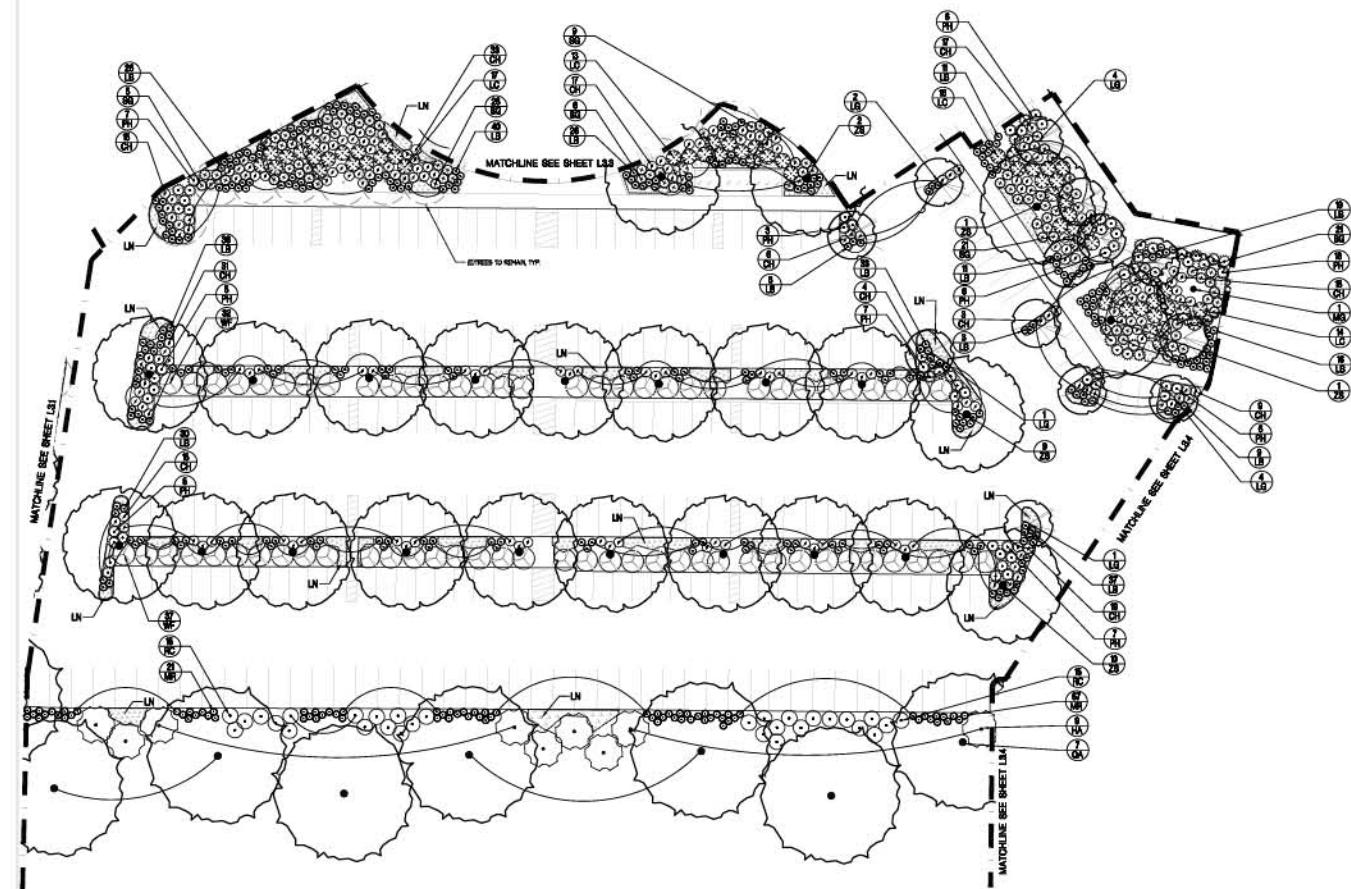
Duration 06/18 - 11/18

Company Firma Design Group

Software AutoCAD, Photoshop

Design Process:
Construction Documents
Planting Plan
Construction Details
Site Rendering

SITE RENDERINGS



SITE PHOTOS



Design Process:
Construction Documents
Site Plan
Planting Design
Irrigation Plan



Design Process:
Planter 3D Modeling
3D printing
Construction Documents
Site Modeling
Planter Analysis



SAN FERNANDO ROAD PARK
SYLMAR, CA, 91342
CITY OF LOS ANGELES

ROBERTSON PLAZA
LOS ANGELES, CA, 90048
HKLA



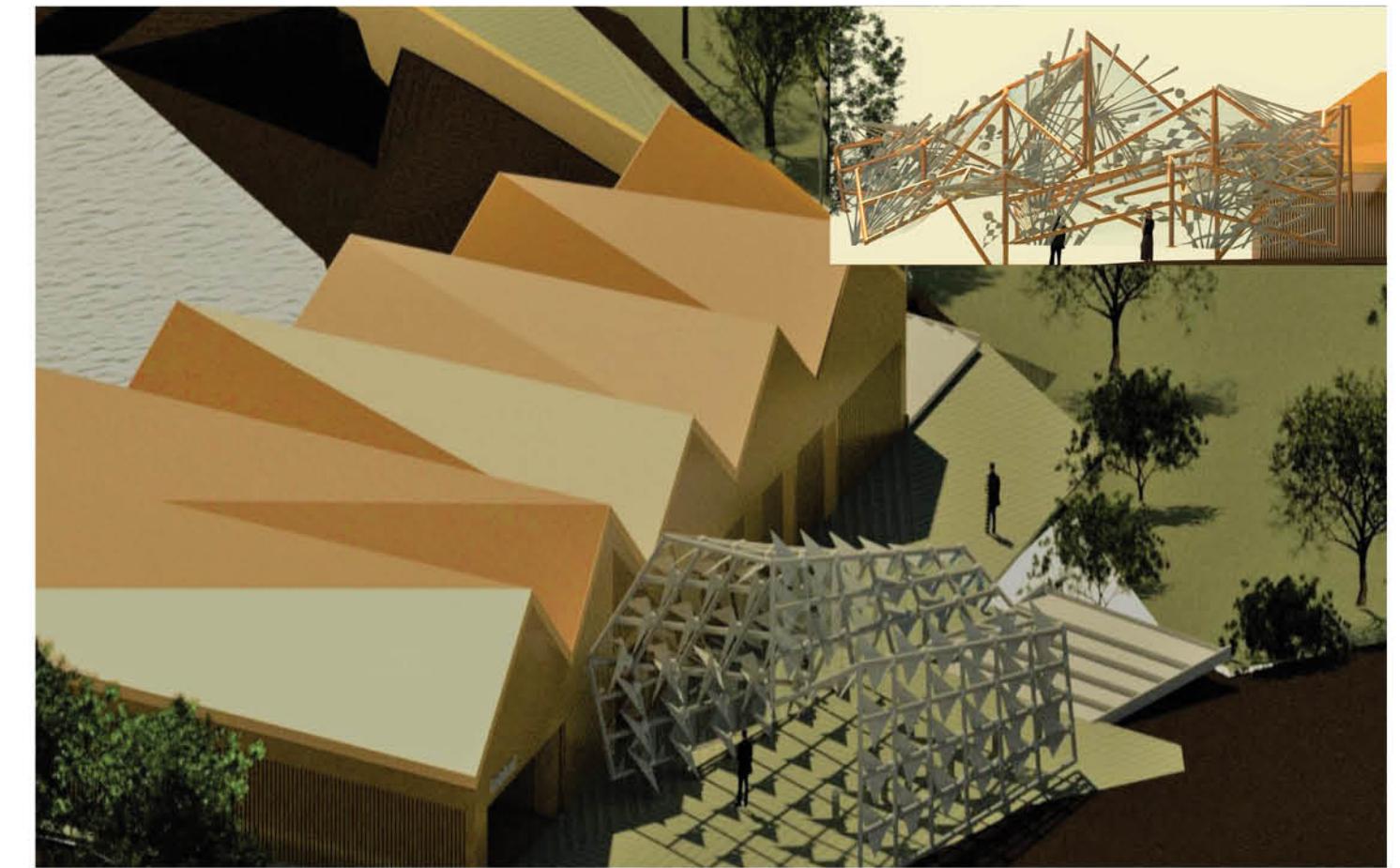
PAINTINGS & MODELS



WATER COLOR RENDERING



PENCIL DRAWING



REVIT PRACTICE naturum Kosterhavet /White Arkitekter with new Green House