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A Locavore Landscape and Architecture for the Future of Miami-Dade County's Haulover Park

A Locavore Landscape and Architecture for the Future of Miami-Dade County's Haulover Park

LOCATION: Miami, FL
PROGRAM: Restored & Fortified Landscape + Restaurant
STATUS: Proposal

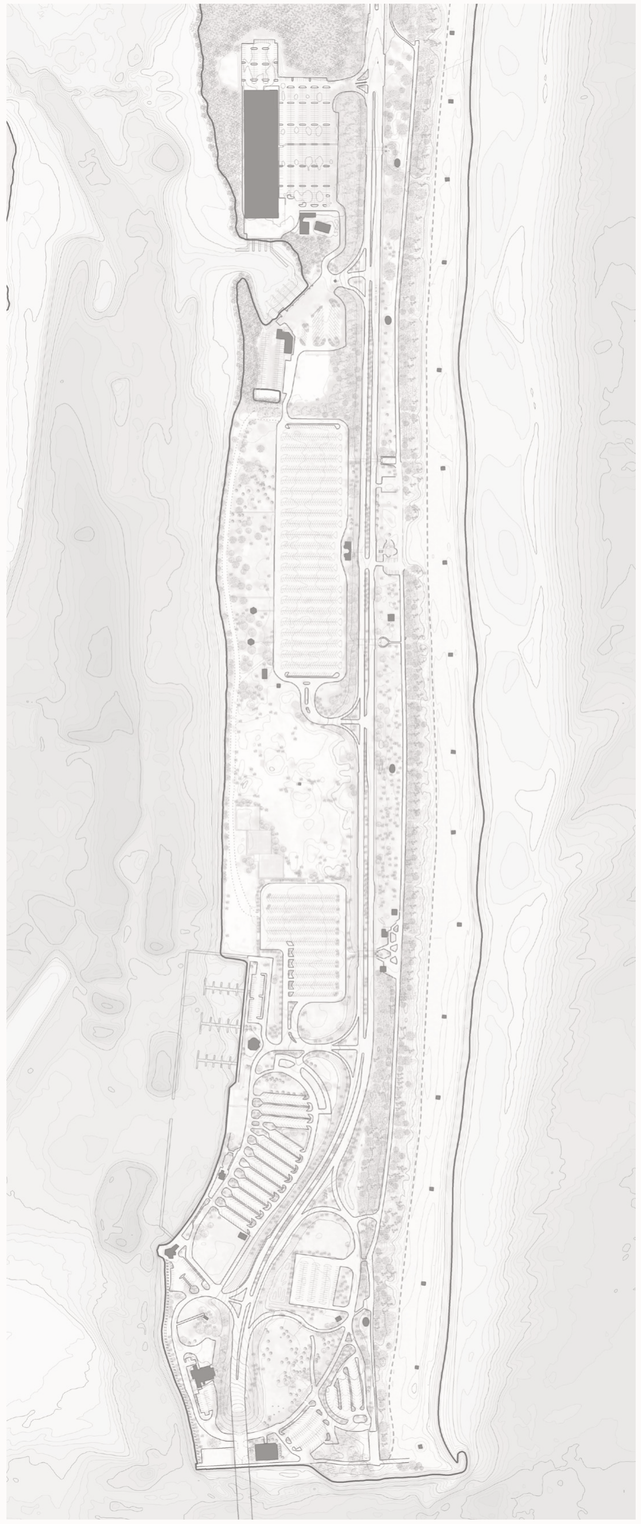
This project illustrates the potential to advance food-based coastal restorations as an approach to climate change. The project draws upon a collaborative landscape that enhances the ecological health of Miami-Dade County's Haulover Park and its capacities for coastal agriculture through sustainable farming and foraging, providing grains, produce and game for a series of experimental kitchens and a niche restaurant, UMAMIAMI.

The barrier islands along South Florida's eastern coast have been transformed over the last 100 years as dredged fill expanded their borders and mangroves were traded for pavement. This transformation has exposed the coastlines to the perils of sea-level rise.

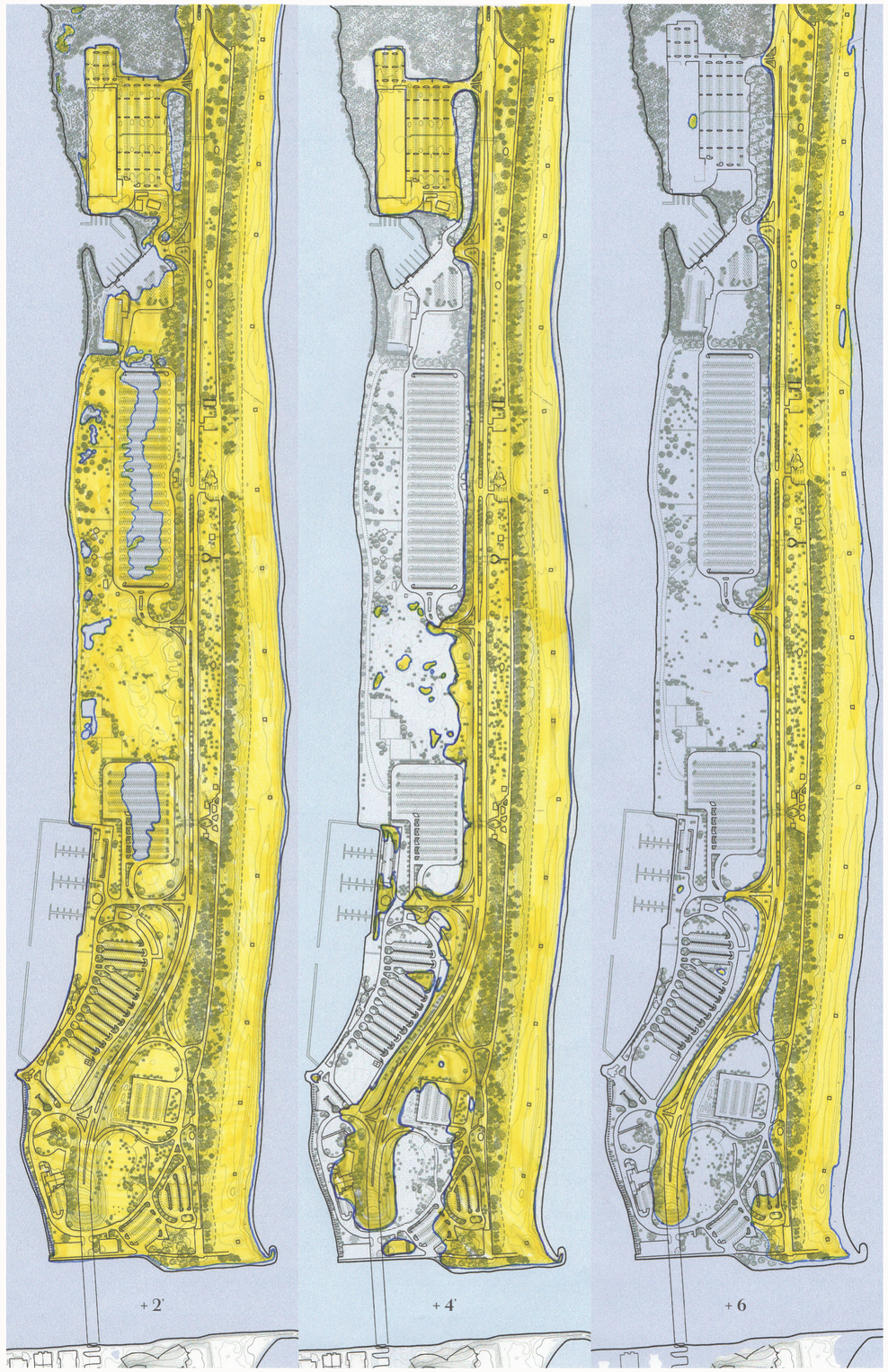
Haulover Park is one of a chain of Florida's east coast barrier islands. Designed by William Lyman Phillips and established in 1948 as a premier beachfront park, Haulover currently provides ocean access to a county of nearly 3 million people some of whom reside as far as 30 miles from the sea.

With 23% impervious pavement, 17% tree cover, and few remnants of its historic plant and animal life still present, the park provides an opportunity to investigate the site's pre-development ecology, cultural history, and present day role in the face of climate change impacts, as a foundation upon which to develop a proposal for its future.

In his influential text, Design with Nature, Ian McHarg describes the evolutionary importance of collaboration – through which a species survives by their merits of strength or cunning, and thrives by teaming up with other species both flora or fauna, to mutually benefit. Analysis of this process at Haulover Park informs the development of this proposal.



Map of the current park conditions, bathymetry, topography, builds, erosion control line, paving and tree canopy.



Sea level rise maps presenting 2' incremental changes from the current conditions at Haulover Park.

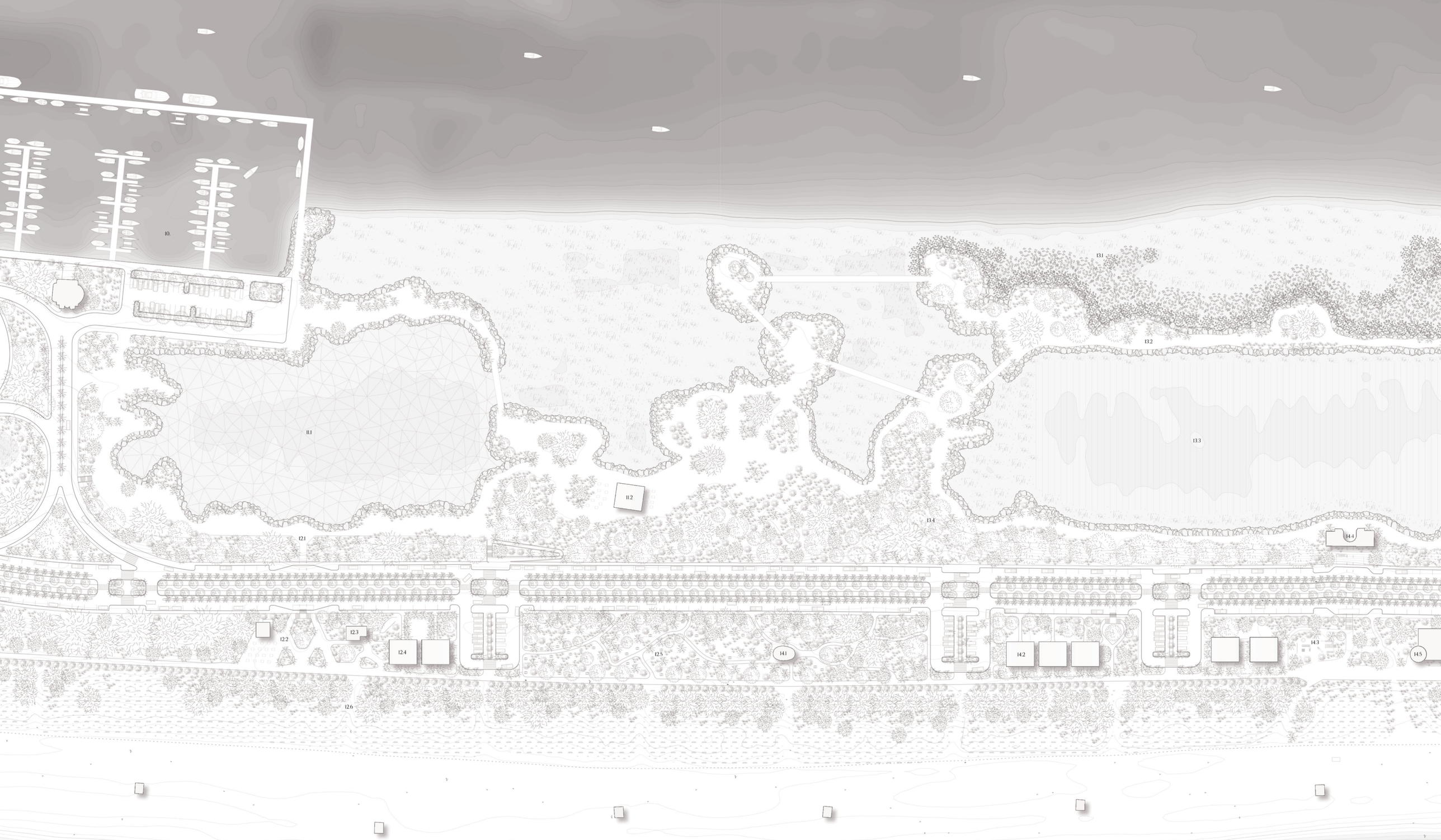


Legend

1. Green Corridor
   - 1.1 Bay walk
   - 1.2 Underpass
   - 1.3 Retention Green
2. Recreation Park
   - 2.1 Refreshments + Test Kitchen
   - 2.2 Grilling and Picnic Area
3. Ocean Front
   - 3.1 Inlet
   - 3.2 Jetty
   - 3.3 Erosion Control Line

Legend

4. Fish Market + Charter
5. Kite Park + Kite Shop
6. Skate Park + Pump Track
7. Dog Park
8. Recreation Park
   - 8.1 Refreshments + Test Kitchen
   - 8.2 Bike Rentals
   - 8.3 Beach Agriculture
9. Ocean Front
   - 9.1 Restrooms
   - 9.2 Dog Beach

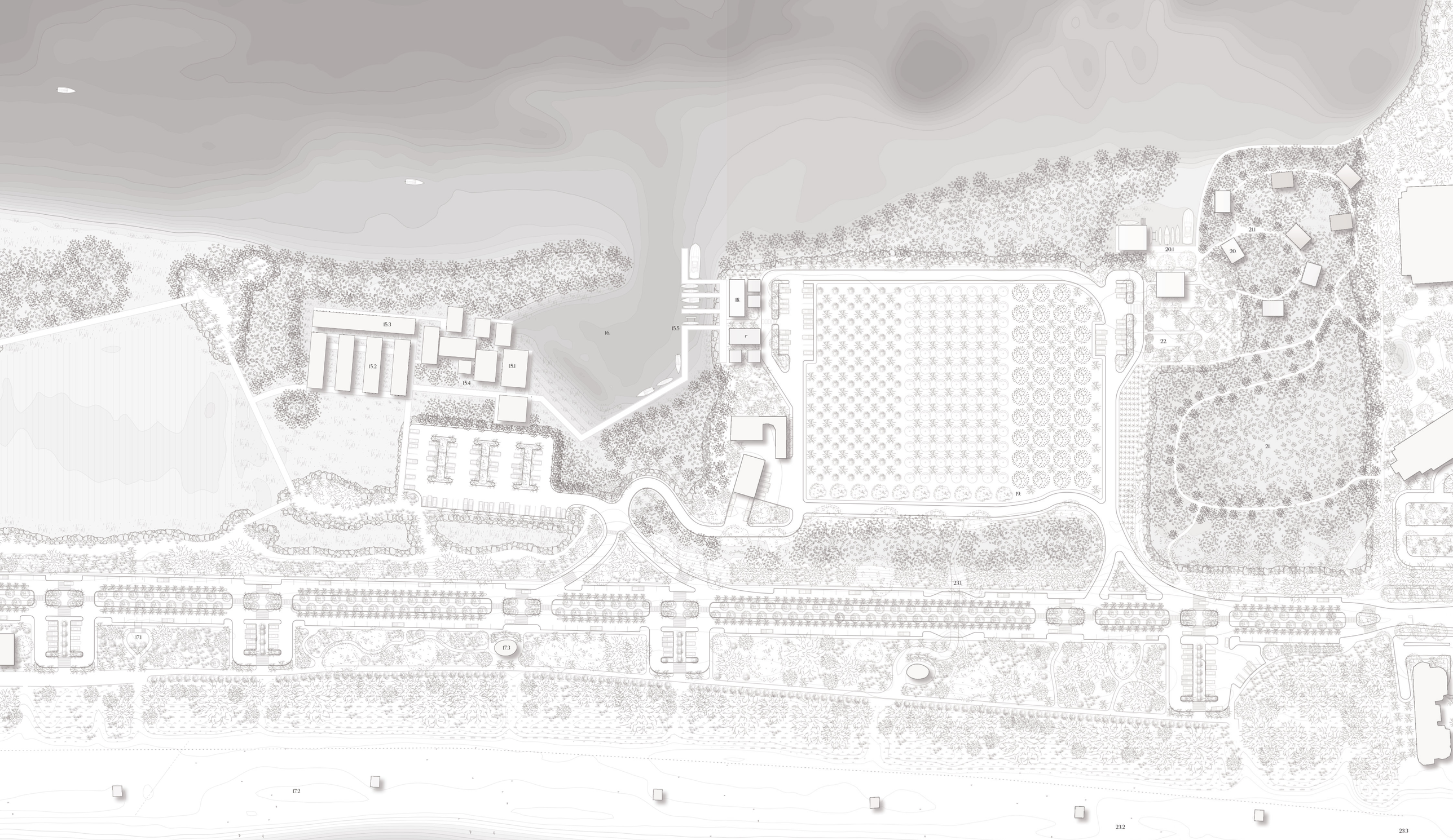


Legend

10. Marina (Sail Conversion)
11. Coastal Meadow
    - 11.1 Salt Harvesting Basins
    - 11.2 Salt Shack + Test Kitchen
12. Beach Front
    - 12.1 Pedestrian Tunnel
    - 12.2 Plaza
    - 12.3 Restrooms
    - 12.4 Pavilions (1-2)
    - 12.5 Grilling and Picnic Area
    - 12.6 Dune Crossovers

Legend

13. Coastal Meadow
    - 13.1 Mangrove Restoration
    - 13.2 Bay Walk
    - 13.3 Seaweed Farm
    - 13.4 Longleaf Pine Hammock
14. Beach Front
    - 14.1 Restrooms
    - 14.2 Pavilions (3-5)
    - 14.3 Playground
    - 14.4 Pedestrian Tunnel
    - 14.5 Lifeguard Station

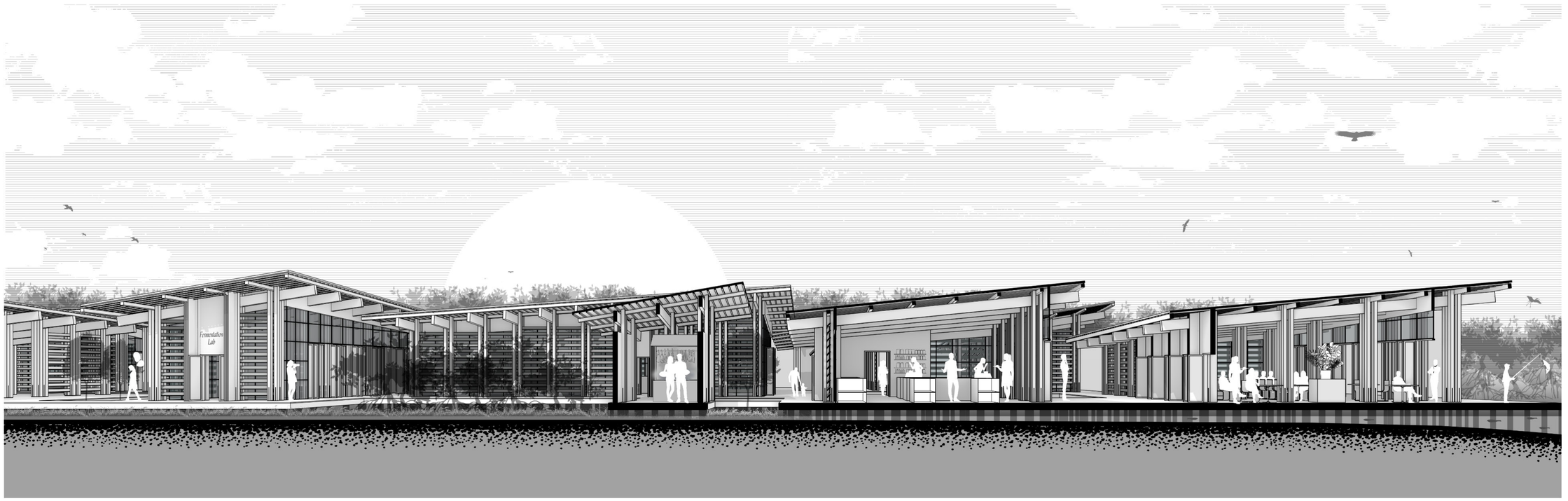


Legend

15. UMAMIAMI
    - 15.1 Restaurant
    - 15.2 Shade-houses
    - 15.3 Botanical + Culinary Lab
    - 15.4 Coastal Forager's Meadow
    - 15.5 Public Pier
16. Restored Bayside Basin
17. Ocean Front
    - 17.1 Pedestrian Tunnel
    - 17.2 Nude Beach (South)
    - 17.3 Restroom

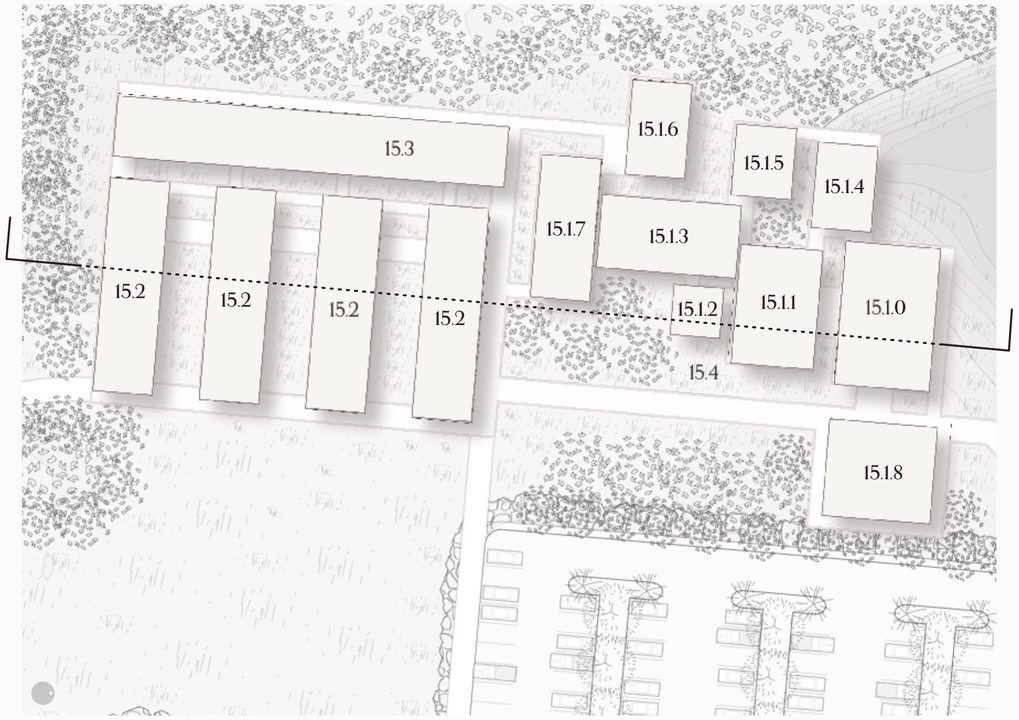
Legend

18. Coastal Ecology Research Lab
19. Arboriculture + Bee Hives
20. Research Fellow Housing
    - 20.1 Dock + Boathouse
21. Mangroves + Oyster Farm
    - 21.1 Boardwalk
22. Communal Garden + Agriculture
23. Ocean Front
    - 23.1 Pedestrian Tunnel
    - 23.2 Nude Beach (North)
    - 23.3 End of Public Beach



Shane Jezowski

Section Perspective: UMAMIAMI



Site Plan: UMAMIAMI

Map Key

15.1 Restaurant (UMAMIAMI)
- 15.1.0 Main Dining Room
- 15.1.1 Service Kitchen
- 15.1.2 Open Air Grill
- 15.1.3 Main Kitchen + BOH
- 15.1.4 Private Dining Room
- 15.1.5 Open Air Bathrooms
- 15.1.6 Test Kitchen
- 15.1.7 The Fermentation Lab
- 15.1.8 Bar and Lounge

15.2 Shade-houses
15.3 Botanical + Culinary Lab
15.4 Coastal Forager's Meadow

We share our culture and prove our civility through food, and there is no better way to deliver an experience worth the proverbial price of admission to UMAMIAMI's tasting menu where the fruits, vegetables and game of Haulover Park is served to its guests. UMAMIAMI adopts the values and practices of Master Chef René Redzepi, who founded NOMA in Copenhagen, Denmark, where foraging and fermentation are crucial to their success and net zero carbon footprint. Akin to NOMA, UMAMIAMI will dedicate its menu to locally harvested Florida flora and fauna to offer a mouthwatering experience for its patrons. UMAMIAMI is a nod to the umami, the fifth flavor and the city of Miami Beach where Haulover Park is located.

UMAMIAMI is a restaurant and culinary research facility that is organized into nine buildings connected by an open air deck. This enables each building to perform optimally with minimal heat exchange and accumulation while enhancing the site's cross breezes and the ambient cooling that the groundwater and foliage will provide. Each building's roof is a compound curved canopy maximizing the ambient Northeastern exposure and minimizing the Southwestern solar gain. Glazing is utilized to maximize indirect daylight with exposed glazing to the North, wood louver cladded glazing for the east and west walls, and a solid CLT wall for the southern facing walls.

Located at the edge of a Mangrove Forest, UMAMIAMI offers patrons the sensation of discovery that recalls the origins of Haulover Park in a context that also provides the amenities of modernity. UMAMIAMI educates and entertains through diverse experiences that engage visitors throughout the grounds to learn more about how the site operates and why their patronage is important.

An average night includes a pre-dinner walk of the grounds with a resident horticulturist to learn about the menu and the flora and fauna that compose it. The dining experience can be a private Pavilion or the Dining Hall where each room is centered around a long table emblematic of Haulover Park's various zones as demonstrated through the multiple dishes of the tasting menu to allow for the chefs to provide a unique and curated experience of the flavors of the site and surrounding farms of Florida.

The Primary Kitchen is the engine behind the culinary experience pulling products from The Fermentation Lab and serving meat and produce to the grill that is then teased, finished and plated at the Service Kitchen. The Service Kitchen lives at the center of the entire operation to manage the experience for the patrons and is led by a senior resident chef. Patrons sit at the edge of The Cove surrounded by nature and immersed in the culinary experience, unable to notice the operations at play.

2

Timber Town

Timber Town

LOCATION: Hialeah, FL
PROGRAM: Industrial Settlement
STATUS: Proposal

Timber Town is an artisan settlement designed to support a community of makers by educating them in the re-introduction of wood utilization in South Florida. By teaching artists how to use local renewable materials in practices ranging from timber joinery to wood-fired ceramics, Timber Town becomes a prototypical sustainable development. Timber Town's mission is to increase the community (and state's) tree count and overall health, while developing an industrial settlement that can pass on artisanal and environmentally crucial knowledge.

Timber Town is modeled off New Lanark, a historically successful industrial settlement in Scotland, where Robert Owen provided more than a business for his cotton mill workers. Owen provided the workers healthy and affordable lodging, food, education, health, and recreation- giving them a sustainable and affordable life worth living and working for. Similar to New Lanark, Timber Town will provide an urban program that provides a holistic live-work environment for the betterment of the internal and external community.

Timber Town uses reclaimed Lumber from South Florida in the form of NLT beams and columns and applies an adaptive re-use of the existing walls from the derelict industry facilities on the project site. Through the adoption of the existing masonry walls of the site plus the use of reclaimed timbers and stock steel products, Timber Town's carbon footprint is reduced.

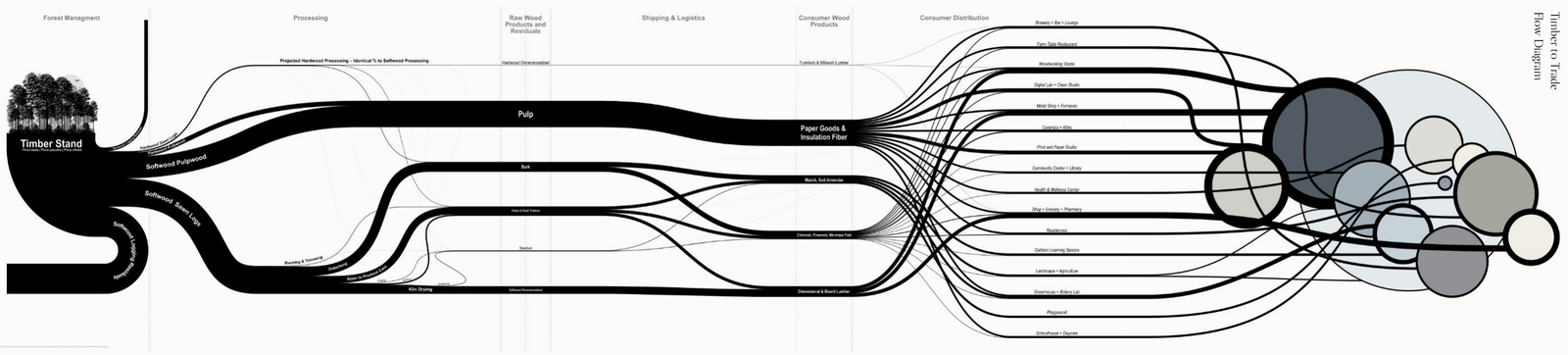




Greenhouse with integrated shades and mesh fabric exterior envelope



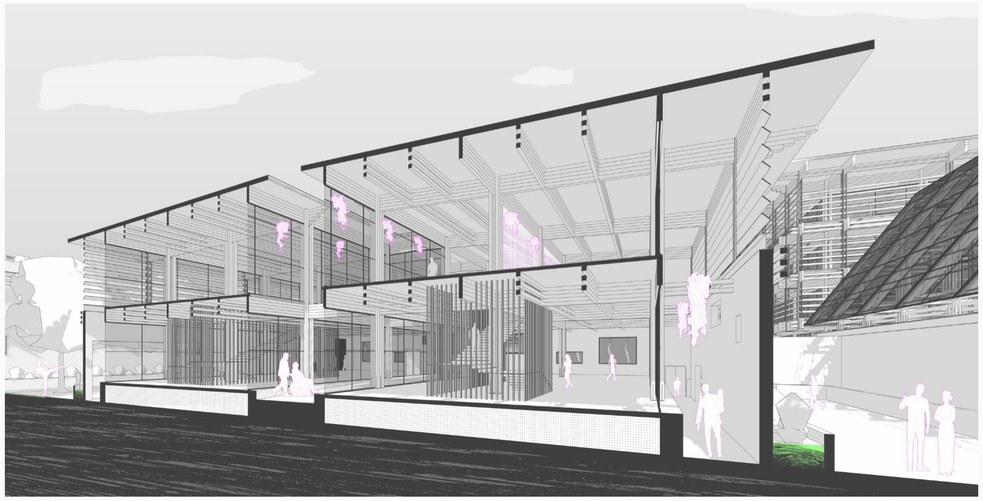
Southern Elevation



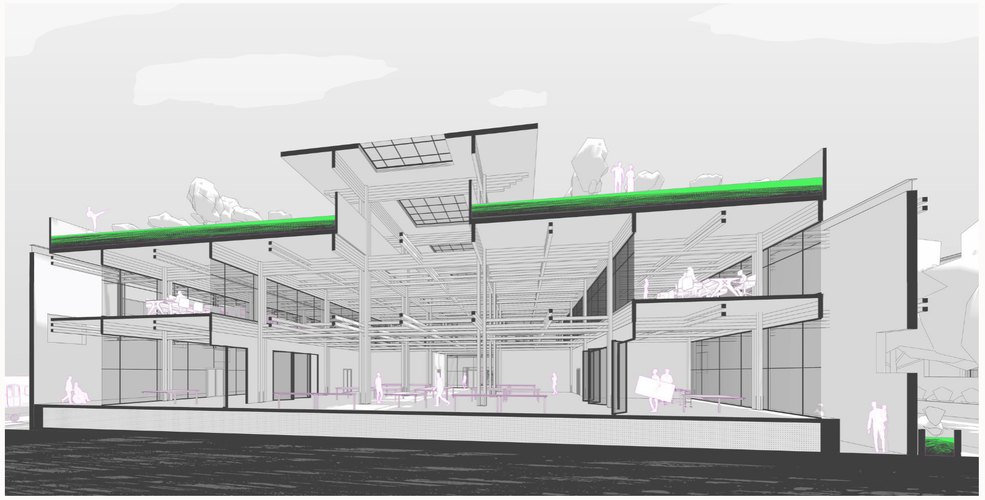
Timber to Trade Flow Diagram



Adaptive Reuse Diagram
Magenta = walls for adaptive reuse
Yellow = security walls for adaptive reuse



Section Perspective: Library



Section Perspective: Artisan Studios



Section Perspective: Brewery



Library



Artisan Studios



Brewery



3

North Beach Youth Center



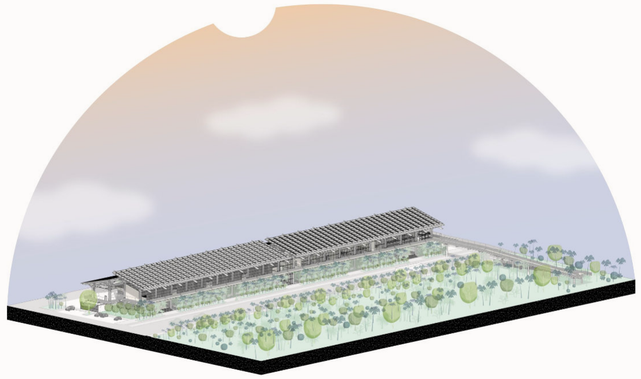
North Beach Youth Center

LOCATION: Miami, FL
PROGRAM: Civic Center
STATUS: Proposal
TEAM: Maria Cadena, Shane Jezowski

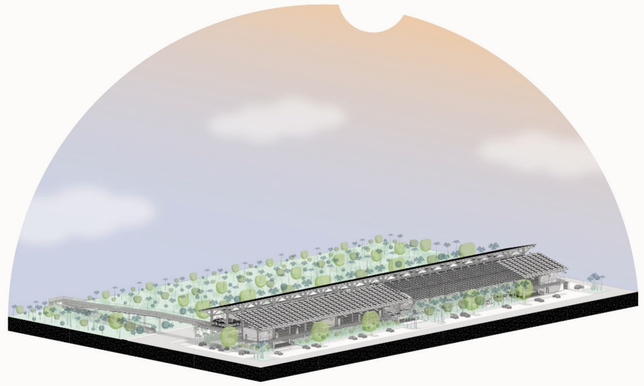
The North Beach Youth Center is an open-air, civic building that aims to promote a communal atmosphere for the residents of North Miami Beach. The building integrates ecological systems that create a space that can benefit from the site conditions - decreasing the energy required to power active cooling systems and increasing the comfort of those using the building.

NBYC's ecologically inspired systems include bio-swale planters that work as a barrier for the bike lane, oyster filtration ponds at the north and south of each plot, open air and fan cooled multipurpose recreational spaces, solar panels, onsite communal farms and native grassland parks for recreation and contemplation.

NBYC is divided into an underline (the lower level), and the overline (two upper levels) that act as a bridge from master-plot to master-plot, keeping pedestrian traffic above the cars. Designed for future sea level rise, the bridge will allow for all the programming to be raised up to 12 feet above the current mean sea level, taking into consideration possible 100 year flood levels.



Isolated Axonometric: East Facade



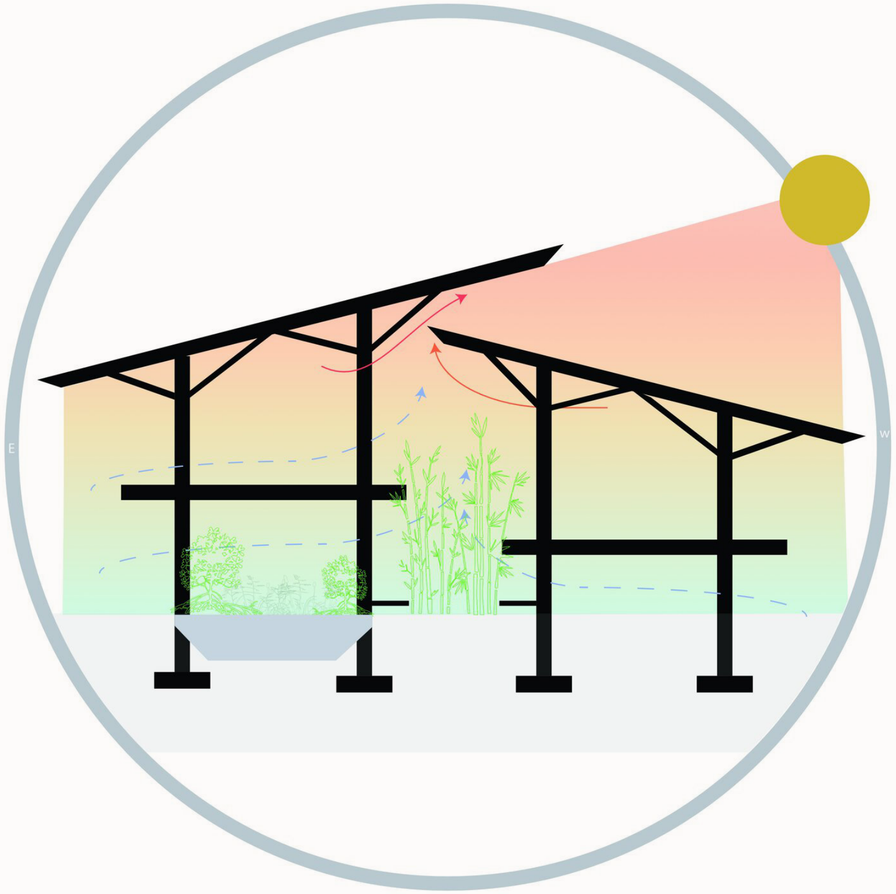
Isolated Axonometric: West Facade



Market and Food Hall



Site Plan

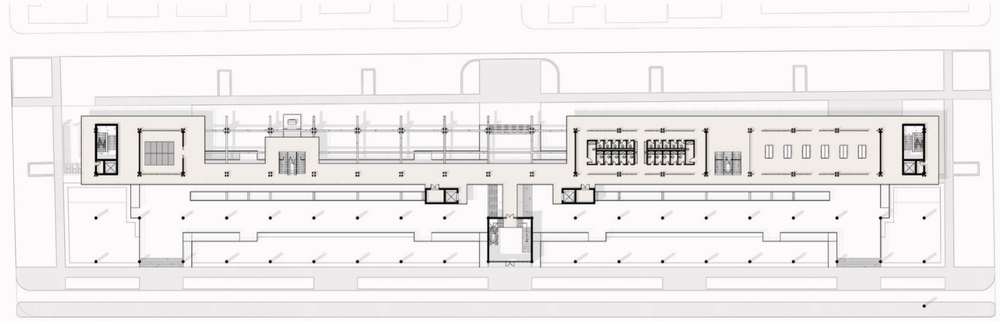


Passive Systems Diagram

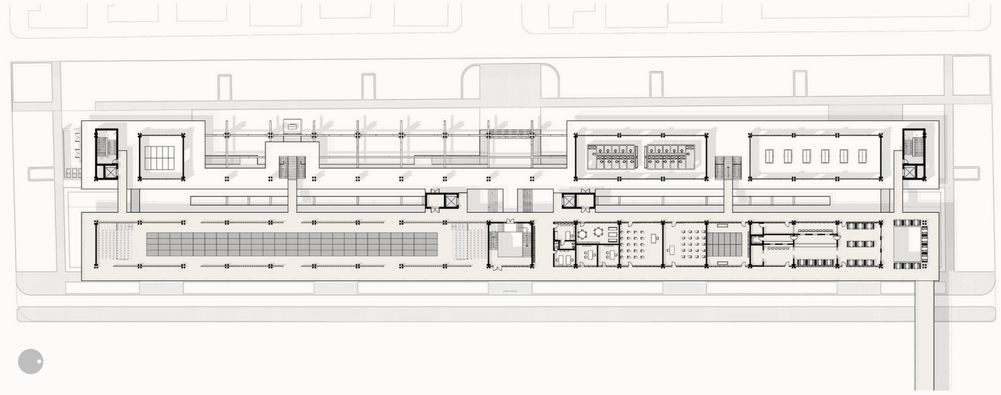
Ground Floor



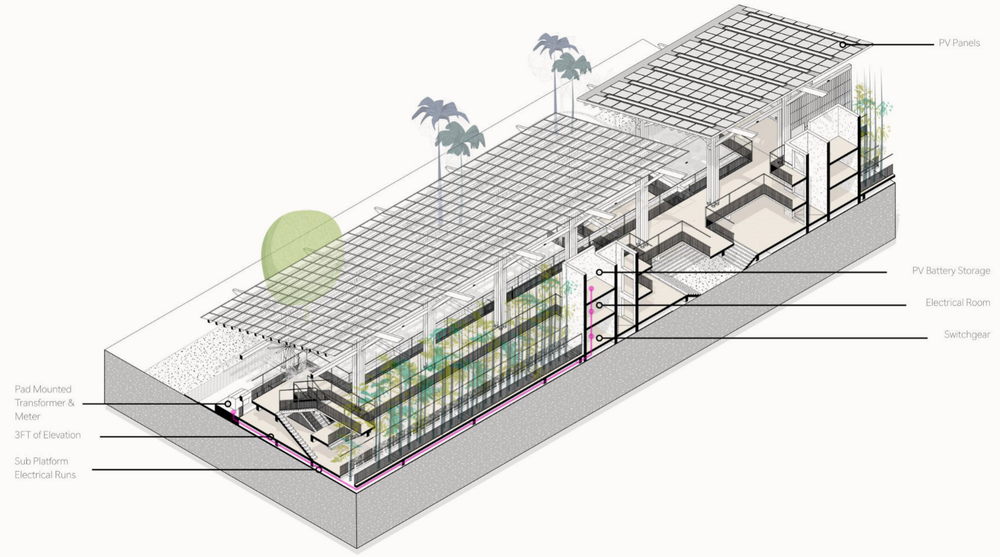
First Floor



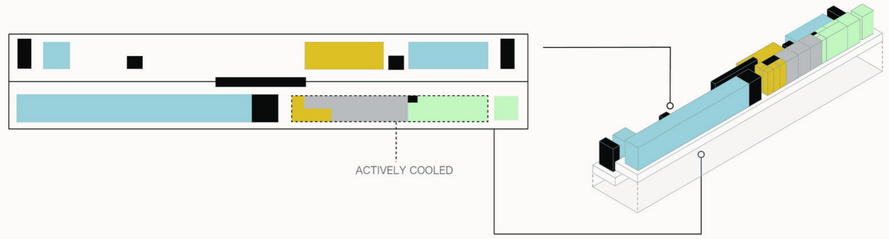
Second Floor



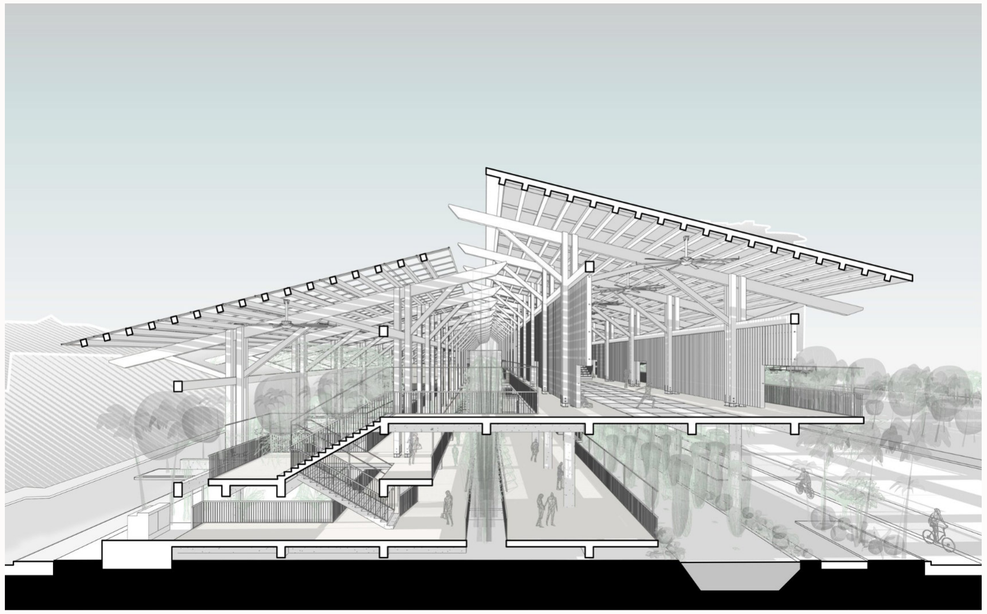
Electrical Systems Diagram



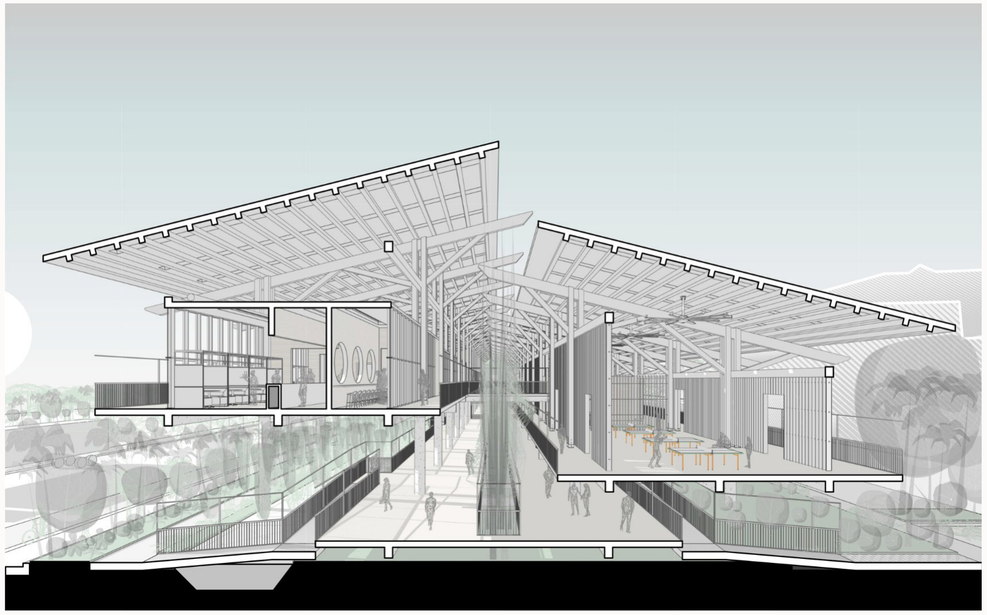
Program Diagram



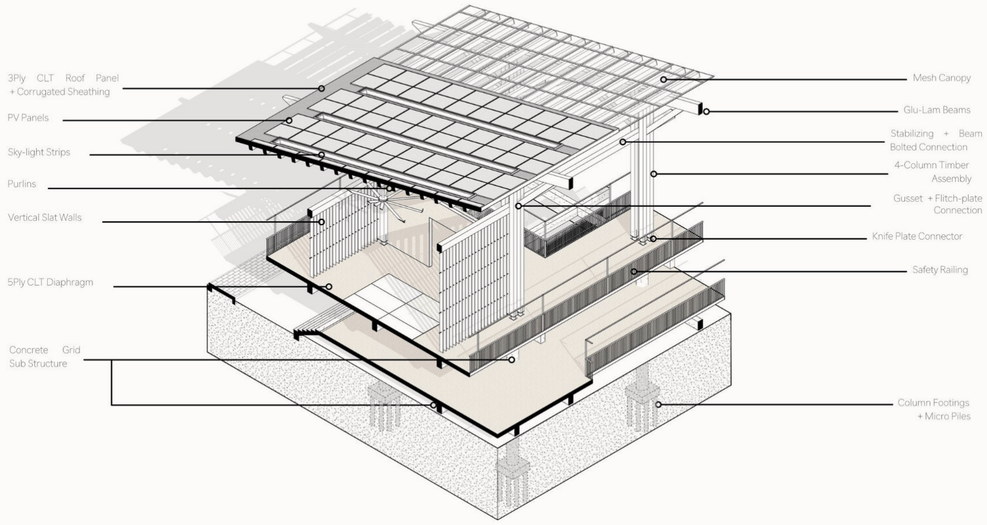
		OCCUPANTS	SQUARE FOOTAGE
RECREATION	Table Tennis	48	2400
	Gymnastics Hall	334	7200
	Multipurpose Studio	20	600
ENTREPRENUERSHIP	Storage	2	500
	Juice Bar	50	2500
	Take-out Bar	15	600
	Walk-in Fridge	2	250
	Outdoor Dining	30	600
	Storage & Trash	2	100
ADMINISTRATIVE	Office	2	500
	Waiting Area	50	1000
	Nurse Station	2	250
	Restrooms & Showers	2	2500
	Management & Record Keeping	2	600
LEARNING	Daycare	25	600
	Classrooms	40	1500
	Faculty Office	2	500
SUPPORT	Egress	707	2000
	Electric Room		100
	Electric Source		100



Section Perspective: North Facing



Section Perspective: South Facing



Tectonics Diagram



Entrance Gallery



Open Air Gymnasium

4

Sutro Baths



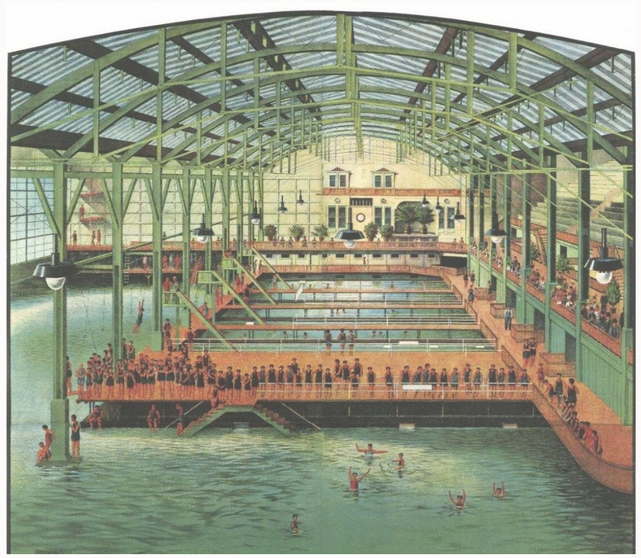
Sutro Baths

LOCATION: San Francisco, CA
PROGRAM: Bathing Complex
STATUS: Proposal

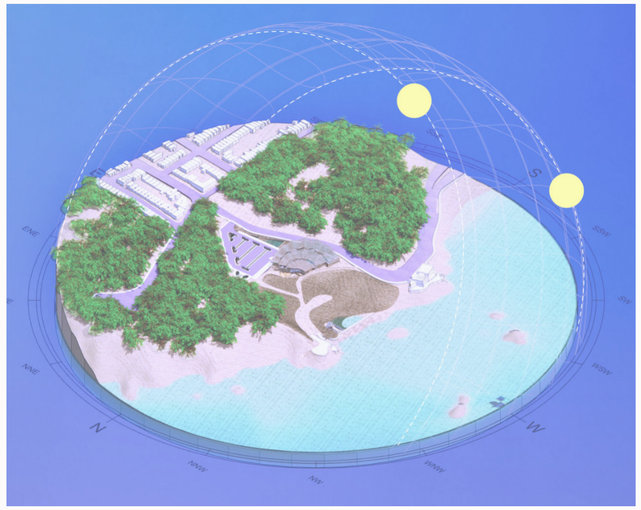
Sutro Baths is a redesigned bathing complex on the site of the ruins of the original bathing complex of the same name, built in 1896. In its heyday the structure was the the world's largest indoor swimming pool establishment, and the ruins and landscape are a pilgrimage site for many residents and visitors.

In an effort to celebrate the history of the site and maintain the much loved landscape, the redesigned bathing complex placement is based on development strategies provided within Ian McHarg's well known design guidebook Design with Nature. McHarg emphasizes the importance of determining the ideal location for development by placing a hierarchy towards ecology, culture, natural amenities, and so on. Thus the location for the building's location was determined according to the area that has the least to offer to the ecology, region, etc.

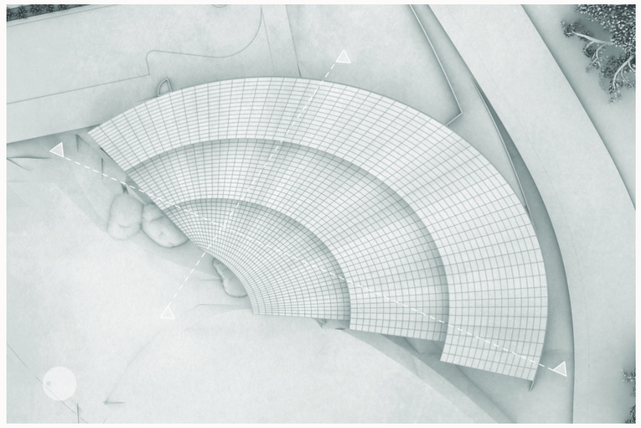
This choice in placement maintains the current pathways and preserves the ruins of the original bathing complex. The new building becomes a protector for the old building, instead of overpowering or overtaking the historical site.



The original Sutro Baths (circa 1896)
Image courtesy of unknown author, public domain, via Wikimedia Commons



Solar Conditions Diagram



Plan view with Section Cuts



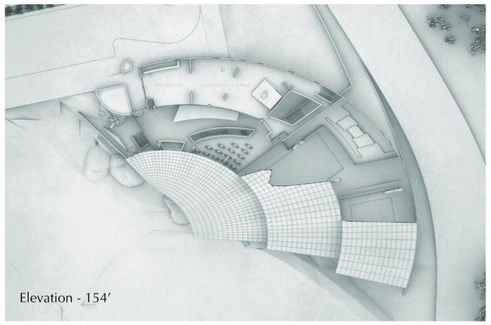
Elevation rendered of the proposed Sutro Baths with the city and landscape.

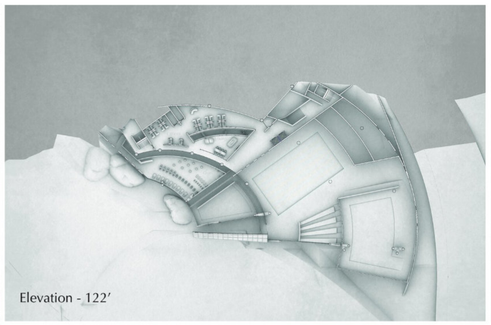


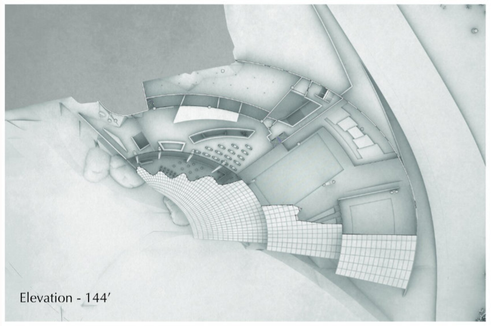
Ruins of the original Sutro Baths and the proposed Sutro Baths

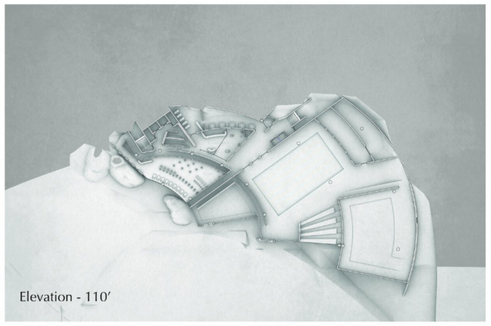

Lap Pool
Leisure Pool
Bleachers
Hot Pool
Dry Area
Wet Area
Entrance Foyer and Interpretation Center
Filtering Foliage
Natural Filtration Ponds
Storage
Secondary Mechanical Filtration
Kitchen
Dining Hall
Offices
Lounge
Gym
Spas
Storage
Child Care
Locker Rooms

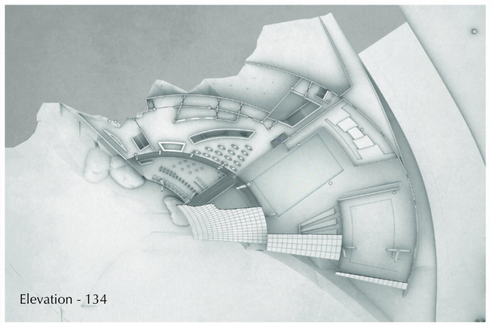
Plan Views

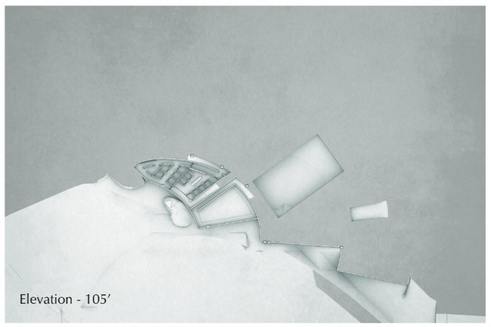

Elevation - 154′


Elevation - 122′

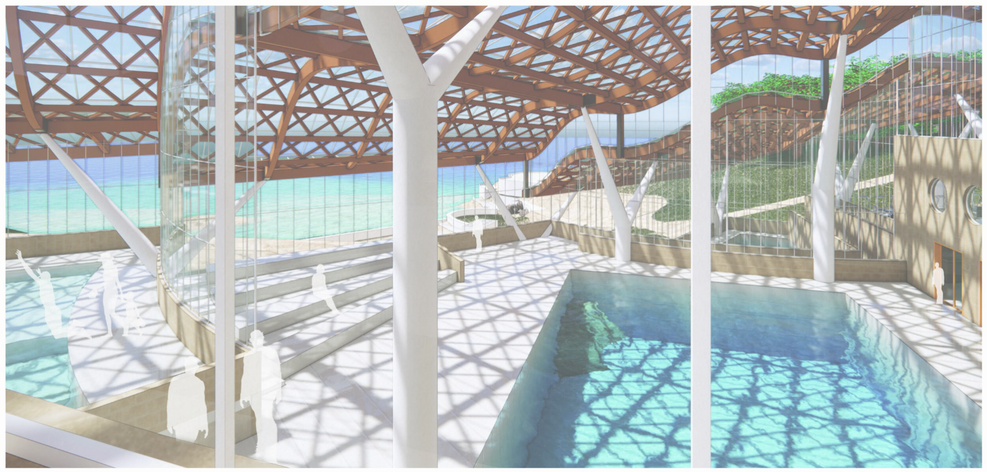

Elevation - 144′

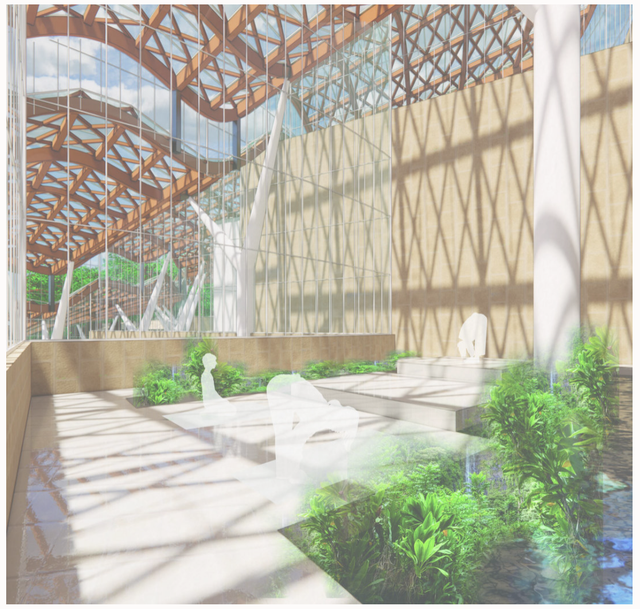

Elevation - 110′


Elevation - 134

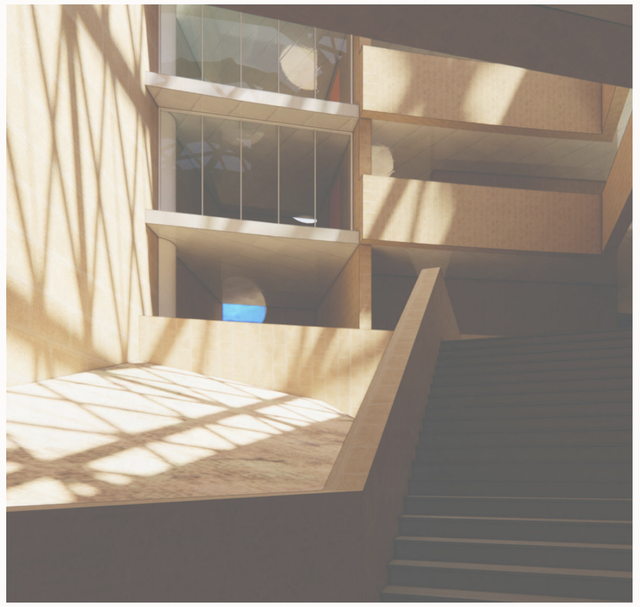

Elevation - 105′

The Baths





The yoga pavilion is naturally cooled by a connecting pond that extends outside of the bathing complex and into the cliffside.



The ever changing play of light and shadow through the masonry.

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5

RISD Nature Lab



RISD Nature Lab

LOCATION: Providence, RI
PROGRAM: Mixed-Use (Education + Living)
STATUS: Proposal

The Nature Lab at the Rhode Island School of Design is a mixed use space housing the school's extensive natural history collection, as well as visiting artist live and work spaces. An iconic addition to the art school's campus, this project is not only focused on beautifully displaying and cataloging nature, but is also a lesson on how to build in a way that is sensitive to the natural world from which we draw and collect.

While the rotation of the stacked boxes echoes the stacks of specimen boxes found inside the nature lab, this fractured massing also helps to mitigate urban heat island effects. The rooftop greenhouse includes integrated solar ponds for radiant water heating. The sunlight coming in through the greenhouse skylight provides light and heat for the entire building. CLT panel to panel framing reduces the carbon footprint of the build while also providing structural support.



Full video presentation



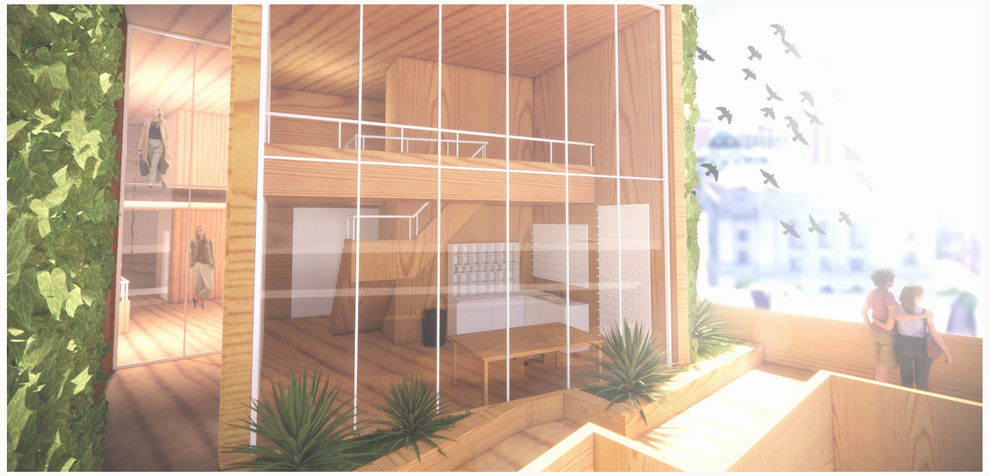
The Nook



Plans



Elevation



Artist live and work studios



The Nature Lab collections area



6

Plotto 11



Plotto 11

LOCATION: Via Marmorata, Roma
PROGRAM: Residential (Multi-family)
STATUS: Proposal

Plotto 11 is a multi-family building that borders the site of a once glorious ancient Roman forest. Sadly, the forest was decimated over the centuries to make room for poorly built housing for a rapidly expanding population. This project speculates upon architectural solutions that could have been implemented with the aim of preserving and celebrating the beauty of the original forest.

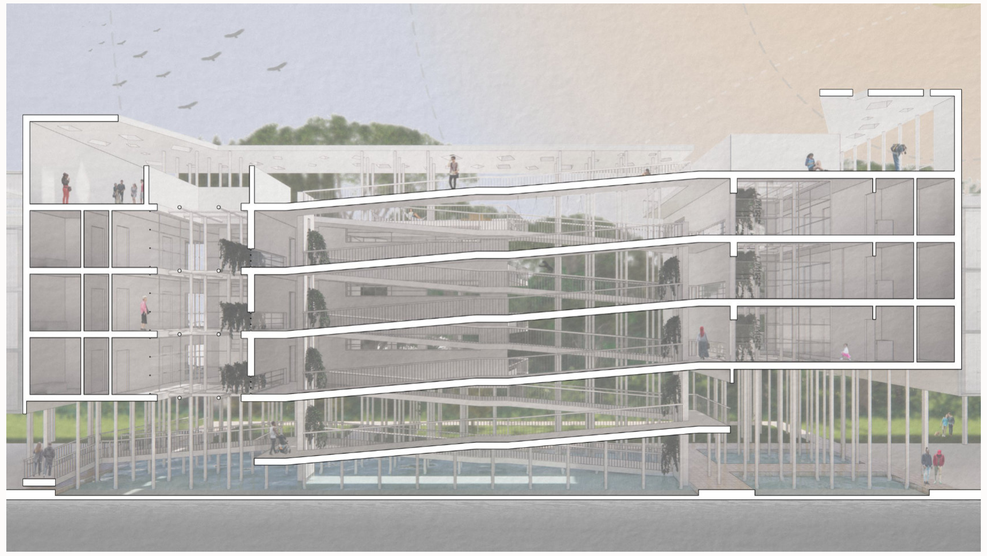
The architecture mimics the trees of the forest with a mass of piloti (columns), and the roofline shifts and undulates, mirroring the irregular tops of the tree canopies. The forest side of the building offers considered views and interactions with the adjacent forest.



Isometric



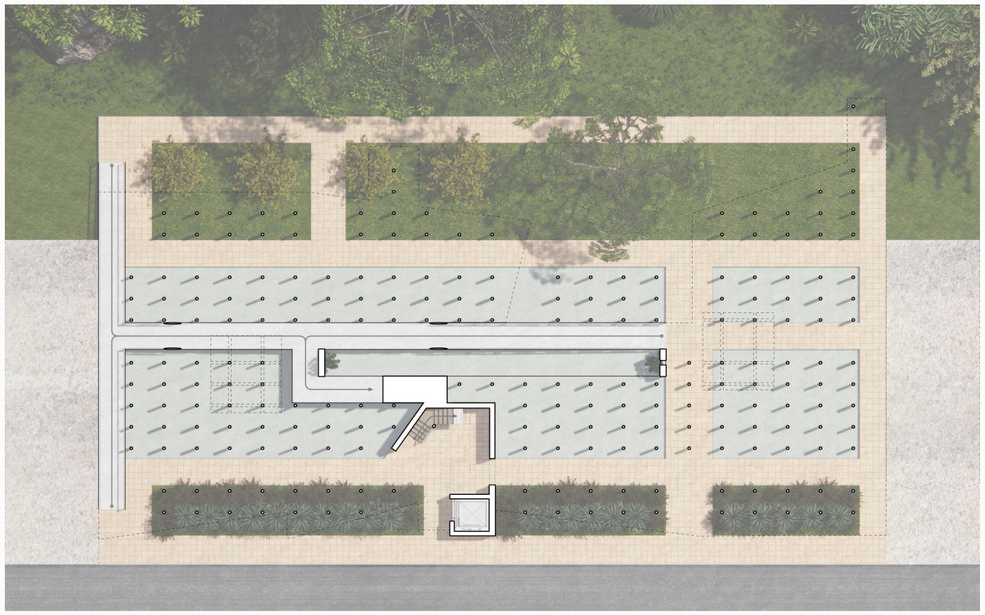
Site Plan with adjacent architecture and landscape



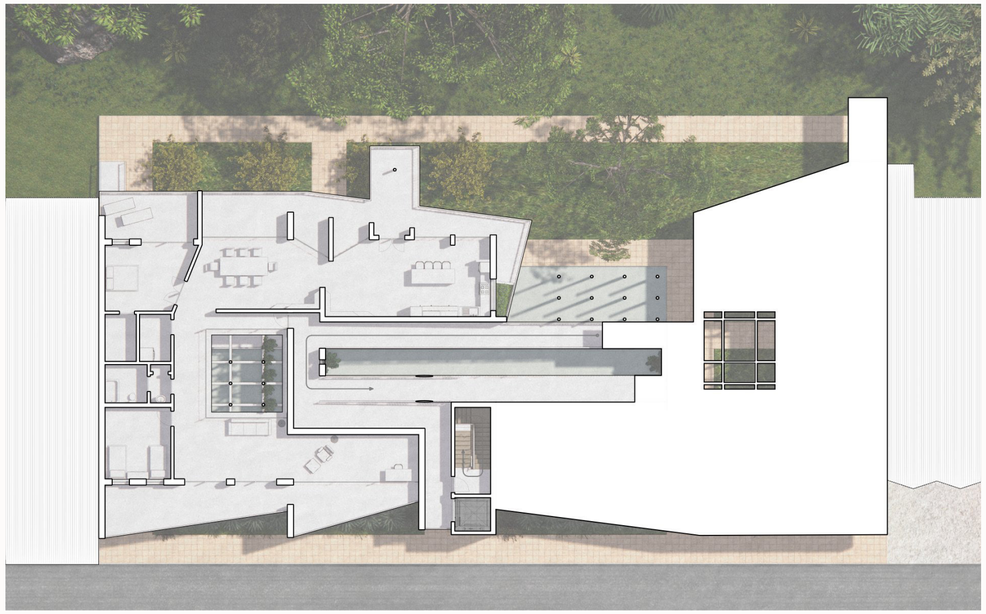
Section perspective looking East



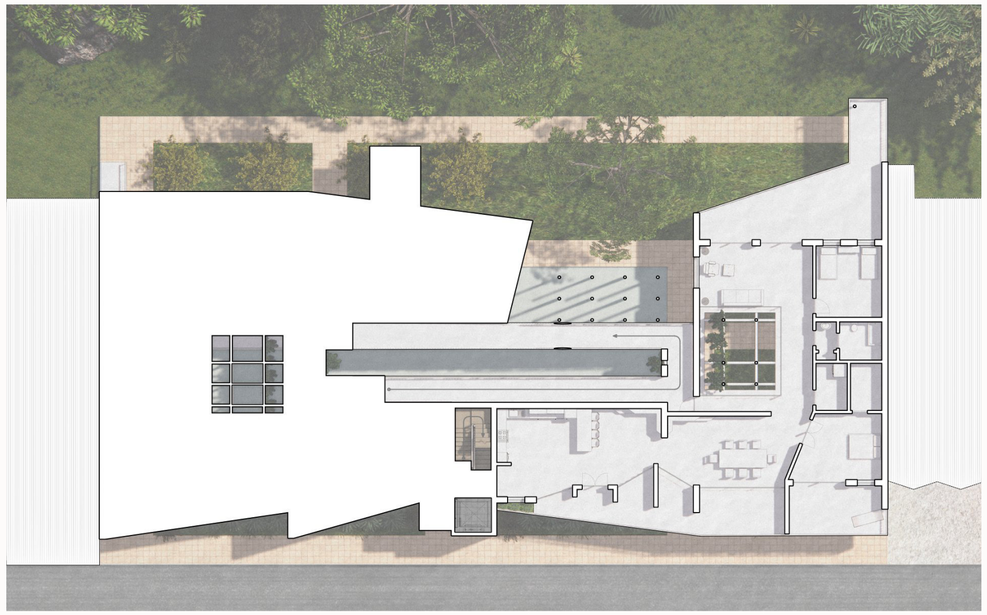
East facade from the arboreal forest



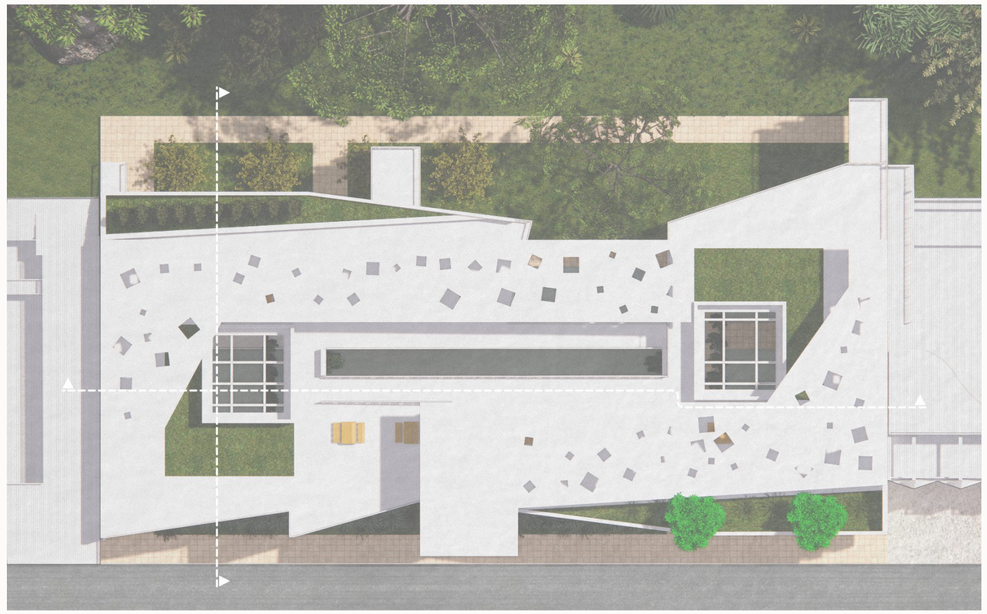
Ground Floor Plan



Residential Floor Plan A



Residential Floor Plan B



Roof Plan



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