

OCEAN PAVILION  
90% DESIGN

SEATTLE DESIGN COMMISSION  
AUGUST 20TH, 2020

DRAFT

# OVERLOOK WALK + OCEAN PAVILION

## AGENDA

### INTRODUCTION

- Multidisciplinary/multicultural team

### APPROACH

- Seattle Aquarium Conservation Mission
- Seattle Aquarium key value - honoring place
  - Coast Salish tribal involvement
  - Community engagement
  - Public Art
- Land meets the sea - white cap to white cap

### BACKGROUND

- Summary of 60% SDC approval and feedback
- Integration of Waterfront Seattle/Overlook Walk/Seattle Aquarium
  - Major Circulation Paths
  - Coordination of form and material palette
  - Transparency and activation of public spaces
  - A place for gathering & mixing of cultures

### 90% DESIGN

#### AQUARIUM ROOF & OPEN SPACES

- Overview
- Circulation
- Program
- Planting
- Roof open space and Overlook
- North stairs
- Promenade Below SAOP
- Exterior Lighting

#### OCEAN PAVILION

- Conservation mission/Aquarium campus
- Sustainability
- Program organization
- Experience and Materials:
  - Integration with waterfront/ urban context
  - Integration with Salish steps
  - Integration with waterfront context
  - Integration with the promenade
- Public art program

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MULTIDISCIPLINARY/MULTICULTURAL TEAM  
PROCESS

HEADWATER PEOPLE CONSULTING

ANNE HAMILTON

SDOT

DAN FRIDAY

COAST SALISH TRIBAL CONSULTANTS

LMN

PCA

PIELOW

ORCA

JACOBS

FRIENDS OF THE  
WATERFRONT

STANTEC

DRAGON FLY

SEATTLE AQUARIUM

ANDY AIKEN, NATIONAL AQUARIUM

OFFICE OF THE  
WATERFRONT

PAE

GREENBUSH

MILLER HULL

THINC

STUDIO PACIFICA

ASIA TAIL

ANCHOR QEA

SOJ

JCFO

TURNER

JMB CONSULTING

HLB

HOFFMAN

MKA

TBD CONSULTANTS

DARKLIGHT

SHANNON WILSON

GREENBUSH

LAND MORPHOLOGY

MANNY EZCURRA, MONTEREY  
AQUARIUM

VALERIE SEGREST

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# APPROACH

- Seattle Aquarium Conservation Mission
- Seattle Aquarium key value - honoring place
  - Coast Salish tribal involvement
  - Community engagement
- Land meets the sea - white cap to white cap

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## NATURAL HISTORY OF LAND AND WATER

**“I don’t believe in magic. I believe in the sun and the stars, the water, the tides, the floods, the owls, the hawks flying, the river running, the wind talking. They’re measurements. They tell us how healthy things are.”**

**- BILLY FRANK JR.**

**Nisqually advocate for Indian treaty rights and environmental stewardship**



**“... a once in a lifetime opportunity to emphatically connect downtown to the waterfront and Elliott Bay, and to revitalize the environmental, social, and economic bases for the city and the entire region.”**

**- JAMES CORNER, JCFO**

**WATERFRONT SEATTLE  
PUBLIC OPEN SPACE**

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**“Nothing else will matter if we fail to protect the ocean.  
Our fate and the ocean are one.”**

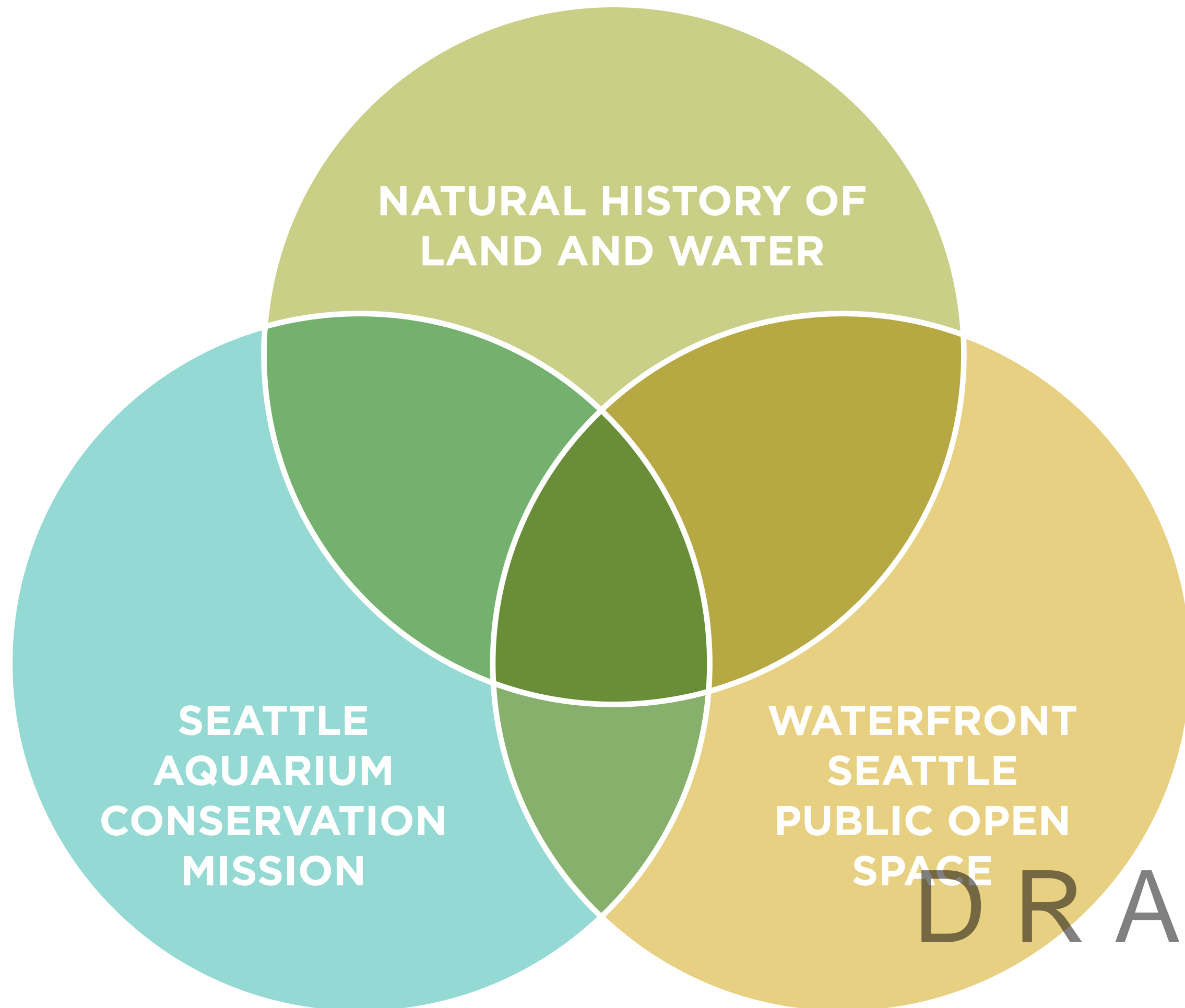
**- DR. SYLVIA EARLE,  
National Geographic Explorer-in-Residence**

**SEATTLE AQUARIUM  
CONSERVATION MISSION**



**HERO FOR  
THE PLANET**

**DRAFT**



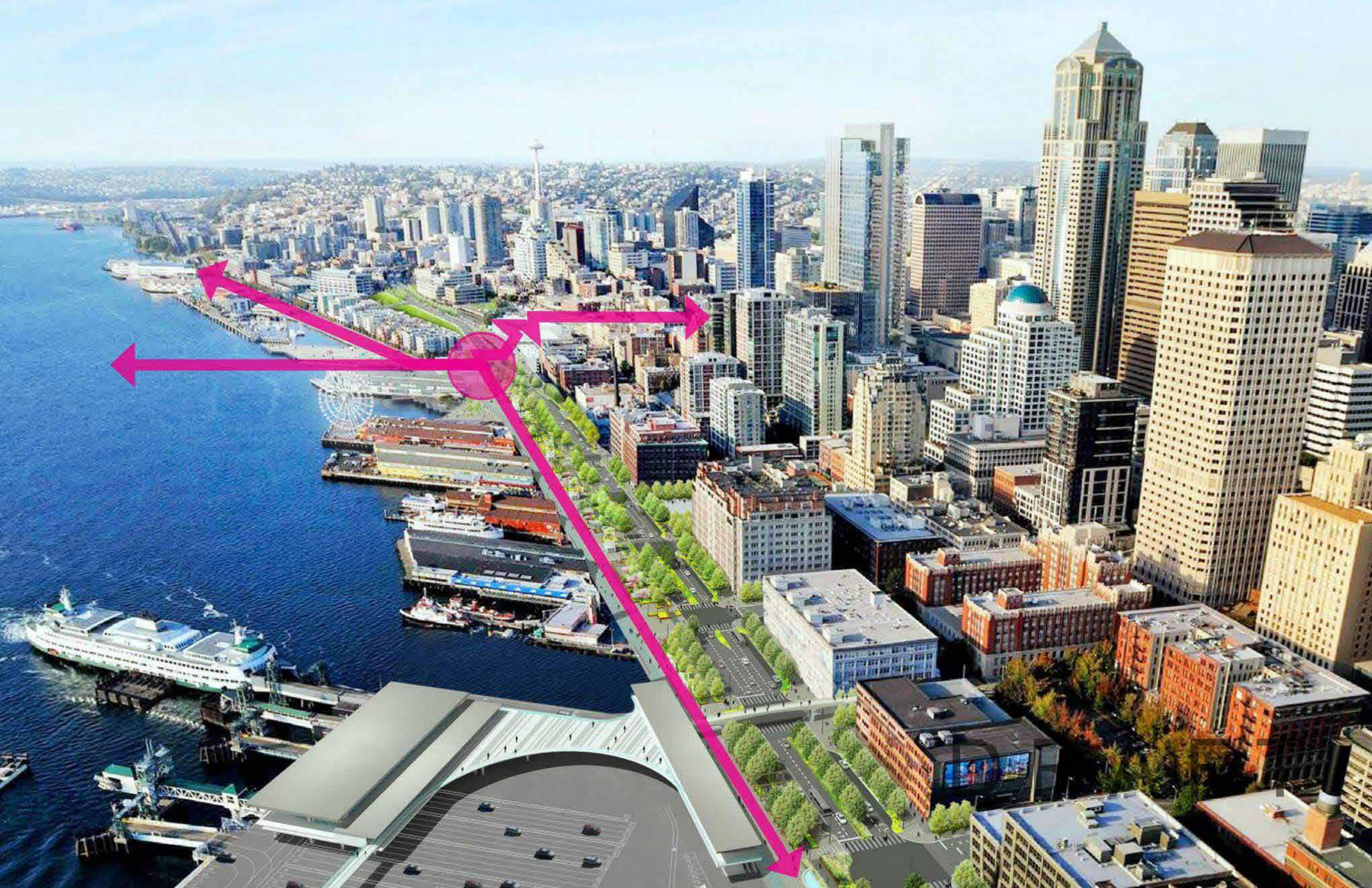
NATURAL HISTORY OF  
LAND AND WATER

SEATTLE  
AQUARIUM  
CONSERVATION  
MISSION

WATERFRONT  
SEATTLE  
PUBLIC OPEN  
SPACE

DRAFT







## HONORING PLACE PROCESS

Welcome people from all over the world  
to **participate** - not merely observe

Acknowledge the Aquarium's location  
on **Coast Salish land**

Speak to the necessity of Indigenous  
knowledge for the future of our shared **One  
Ocean**

Storytelling as a **shared experience** that  
helps us imagine the world we want to live in

### **Mitakuye-Oyasin**

All my relations, is a worldview of  
interconnectedness and oneness. All living  
things are connected. I cannot exist without  
you and you cannot exist without me.  
Everything we do has an effect on others and  
on our world.



Susan Point, Point of Origin, 2000





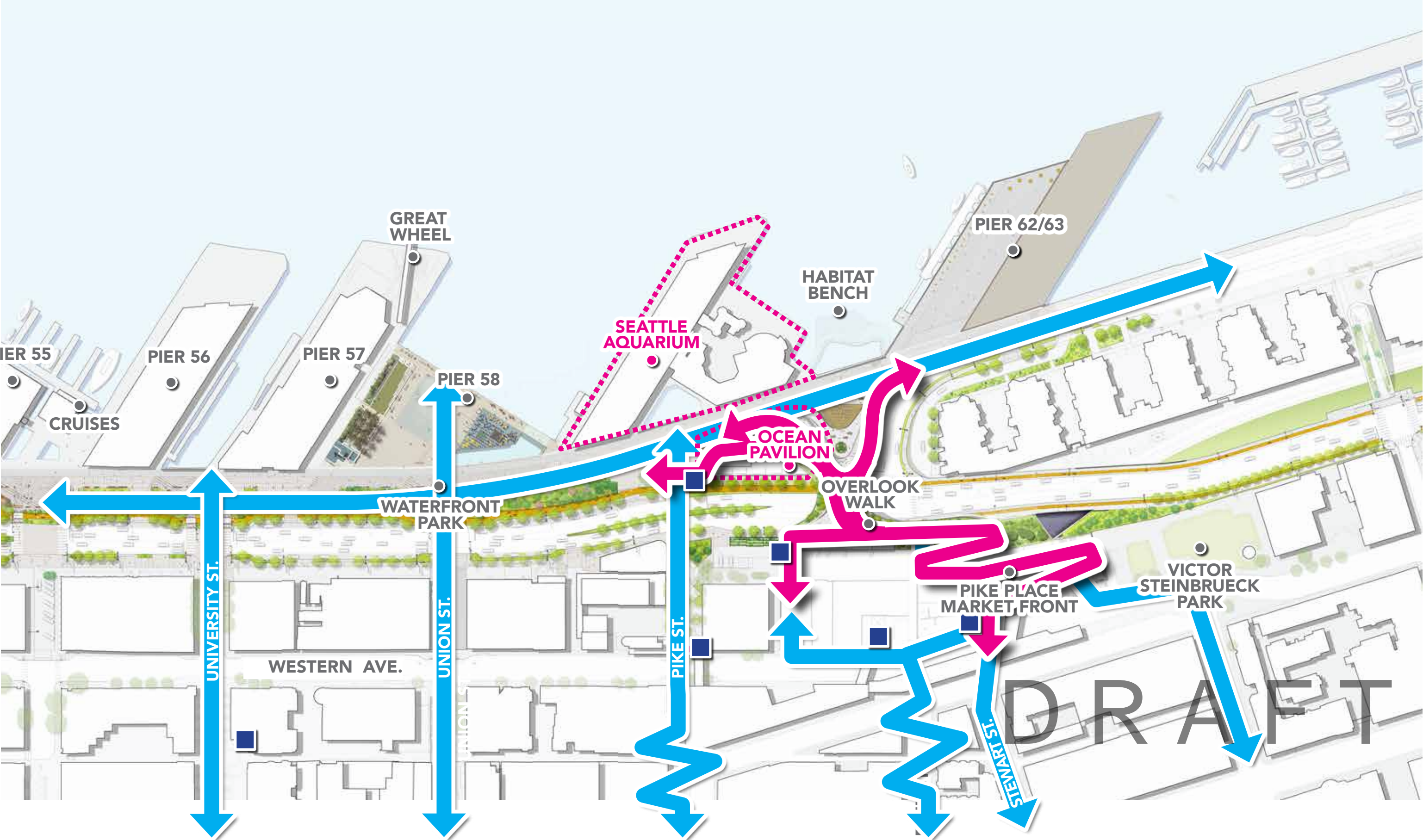


# BACKGROUND

- Summary of 60% SDC approval and feedback
- Integration of Waterfront Seattle/  
Overlook Walk/ Seattle Aquarium
  - Major Circulation Paths
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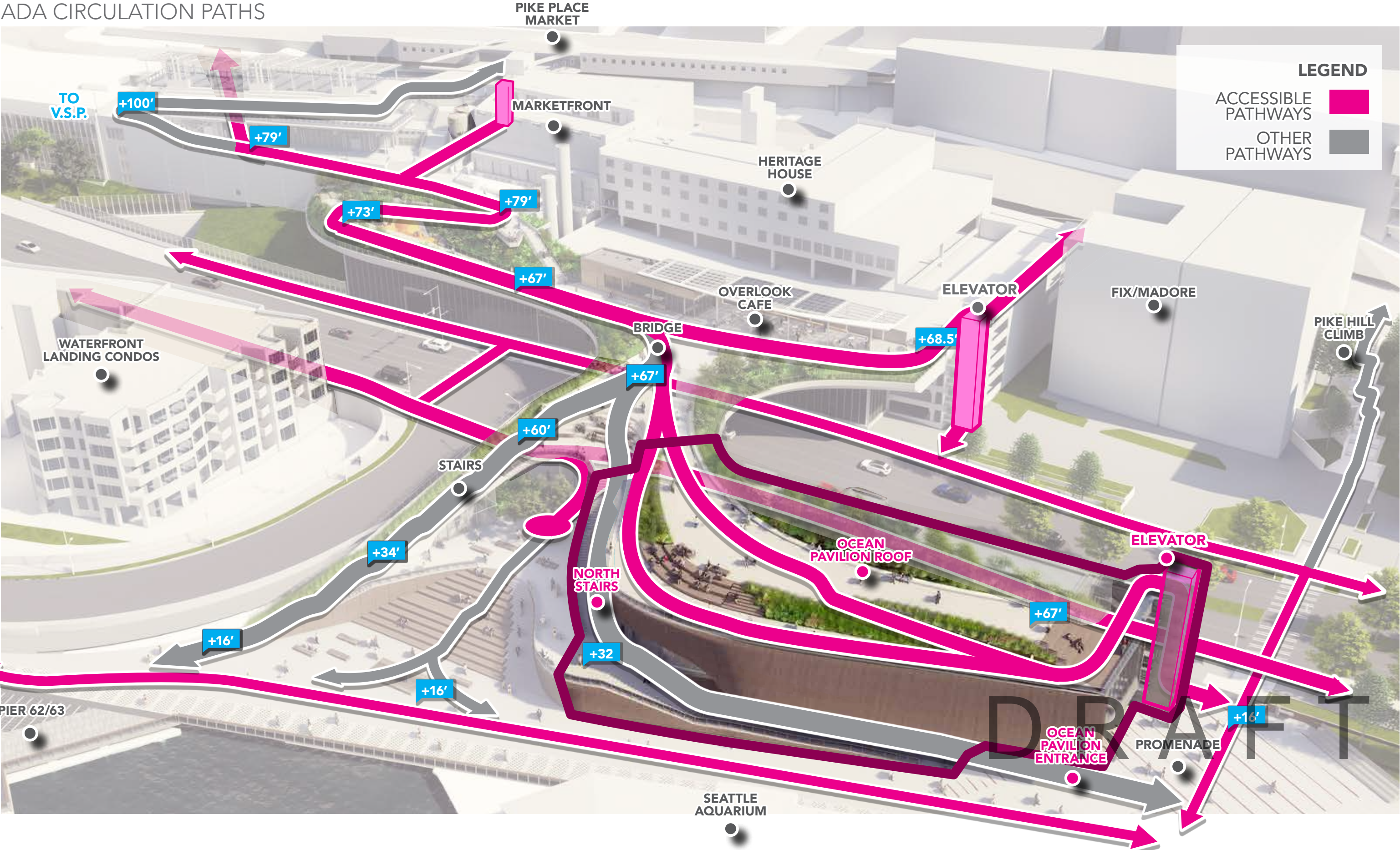
CONTEXT  
OPEN SPACE CIRCULATION





# OCEAN PAVILION

## ADA CIRCULATION PATHS





An aerial architectural rendering of a waterfront development. The image shows a dense urban area with various buildings, including a large brick building with 'Pike Place Market' signage. A green-shaded area, outlined in green, represents a park or walkway, labeled 'OVERLOOK WALK'. A blue-shaded area, outlined in blue, represents a pavilion or plaza, labeled 'OCEAN PAVILION'. The foreground features a waterfront promenade with a bridge and people walking. The water is visible at the bottom of the frame.

OVERLOOK WALK

OCEAN PAVILION

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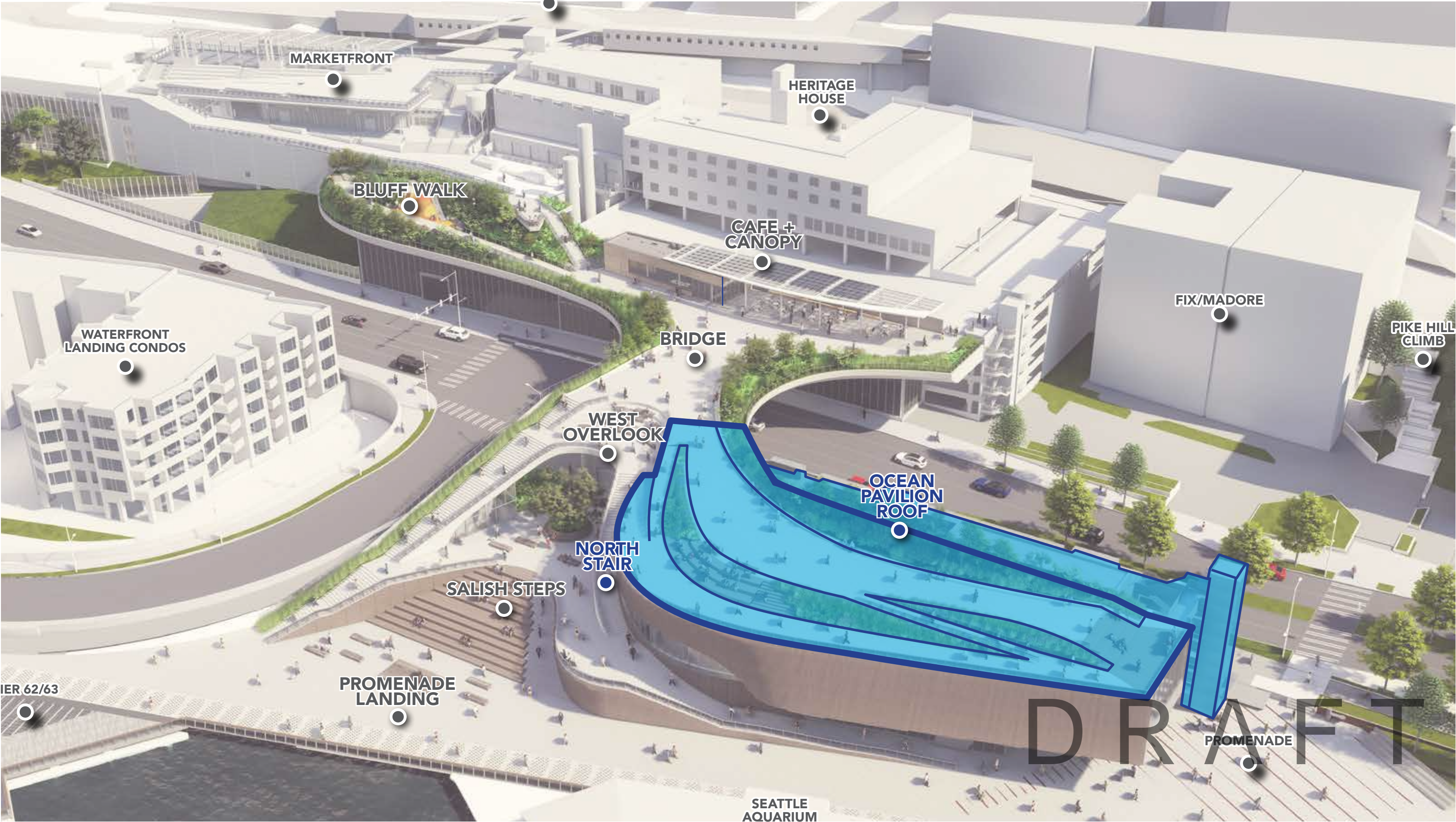
# OCEAN PAVILION ROOF/ OPEN SPACES

- Circulation
- Program
- Planting
- Roof open space and Overlook
- North stairs
- Promenade Below SAOP
- Exterior Lighting

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OCEAN PAVILION ROOF  
PUBLIC OPEN SPACE





An aerial photograph showing the rugged, snow-dusted peaks of Mt. Tahoma on the left and the deep blue, rippling waters of the Salish Sea on the right. The image is split vertically, with the mountain on the left and the sea on the right. The text 'MT TAHOMA TO THE SALISH SEA' is overlaid in white, bold, sans-serif capital letters across the center. The word 'DRAFT' is in the bottom right corner in a smaller, dark, sans-serif font.

# MT TAHOMA TO THE SALISH SEA

DRAFT



# OCEAN PAVILION ROOF

## UPLAND TO LOWLAND



COMMON CAMAS



YARROW



HUCKLEBERRY



INDIAN PLUM



EVERGREEN TREE TIPS



GARRY OAK



SPOTTED SKUNK



THIMBLEBERRY



HAWTHORN



WHITE FAWN LILLY



FLYING SQUIRREL



COYOTE



HORSETAIL



WILD MINT



TIGER LILY



SALAMANDER



COMMON LOON



BLACK BEAR



RED TAILED HAWK



BLACK TAIL DEER



PYGMY WHITEFISH



PICKLEWEED



CASCADES FROG



RAINBOW TROUT

**SOILS/SUBSTRATE**  
sand, mud, detritus

**VEGETATION**  
phytoplankton

**WILDLIFE**  
aquatic invertebrates, fish, birds,  
marine mammals

**SOILS/SUBSTRATE**  
gravel, sand, silt, mud, rock, vegetation,  
mineral nutrients

**VEGETATION**  
wetland flora, halophytes, algae,  
phytoplankton

**WILDLIFE**  
aquatic invertebrates, fish, birds, marine  
mammals, lowland wildlife, bacteria

**SOILS/SUBSTRATE**  
gravel, sand, silt, mud, rock,  
vegetation

**VEGETATION**  
riparian vegetation  
communities

**WILDLIFE**  
birds, lowland wildlife

**SOILS/SUBSTRATE**  
gravel, sand, rock, soils, mineral  
nutrients, humus

**VEGETATION**  
Trees, shrubs, grasses

**WILDLIFE**  
Insects, birds, mammals, reptiles,  
amphibians, bacteria, fungi

TREE NUTS

SLOPES

FORAGERS

TREE  
ROOTS

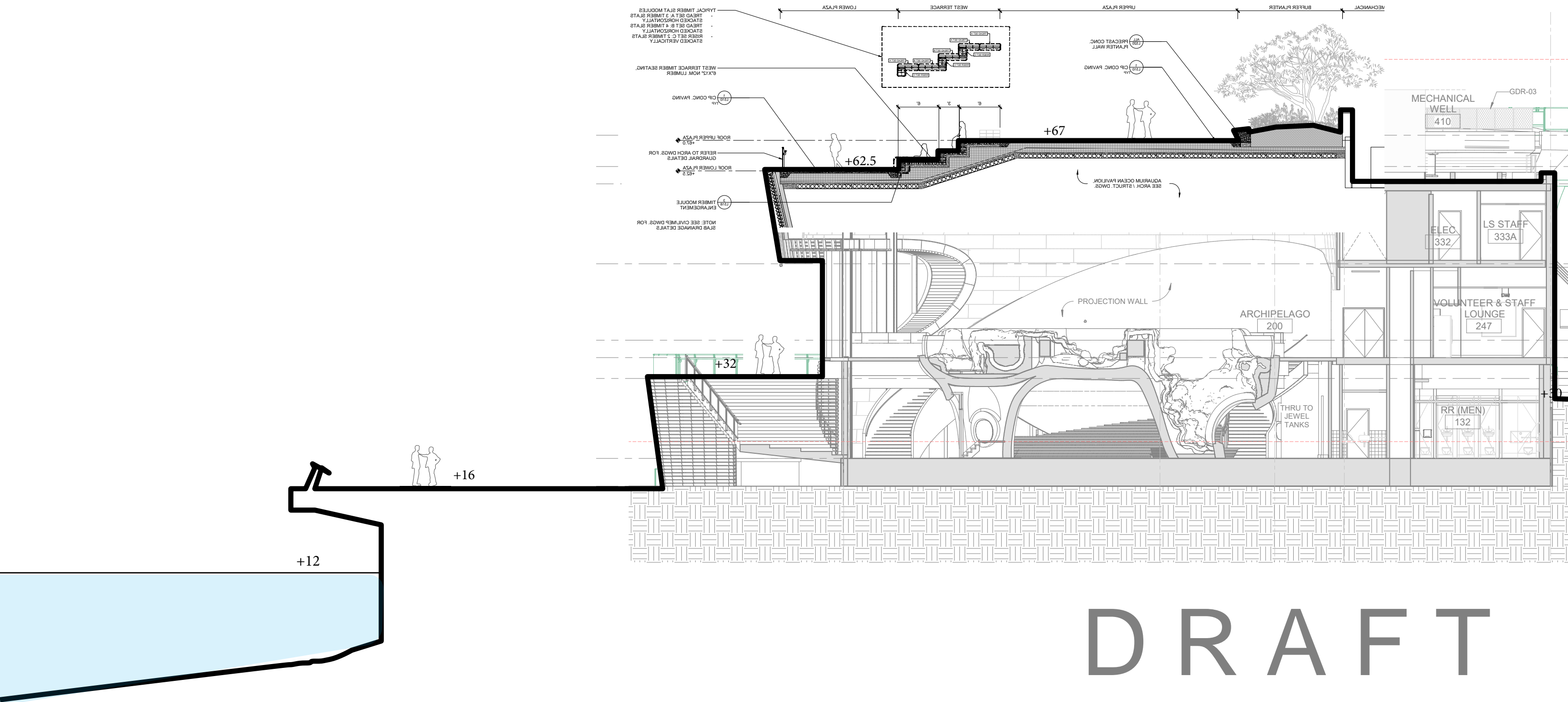
TREES

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# OCEAN PAVILION ROOF

## UPLAND TO LOWLAND

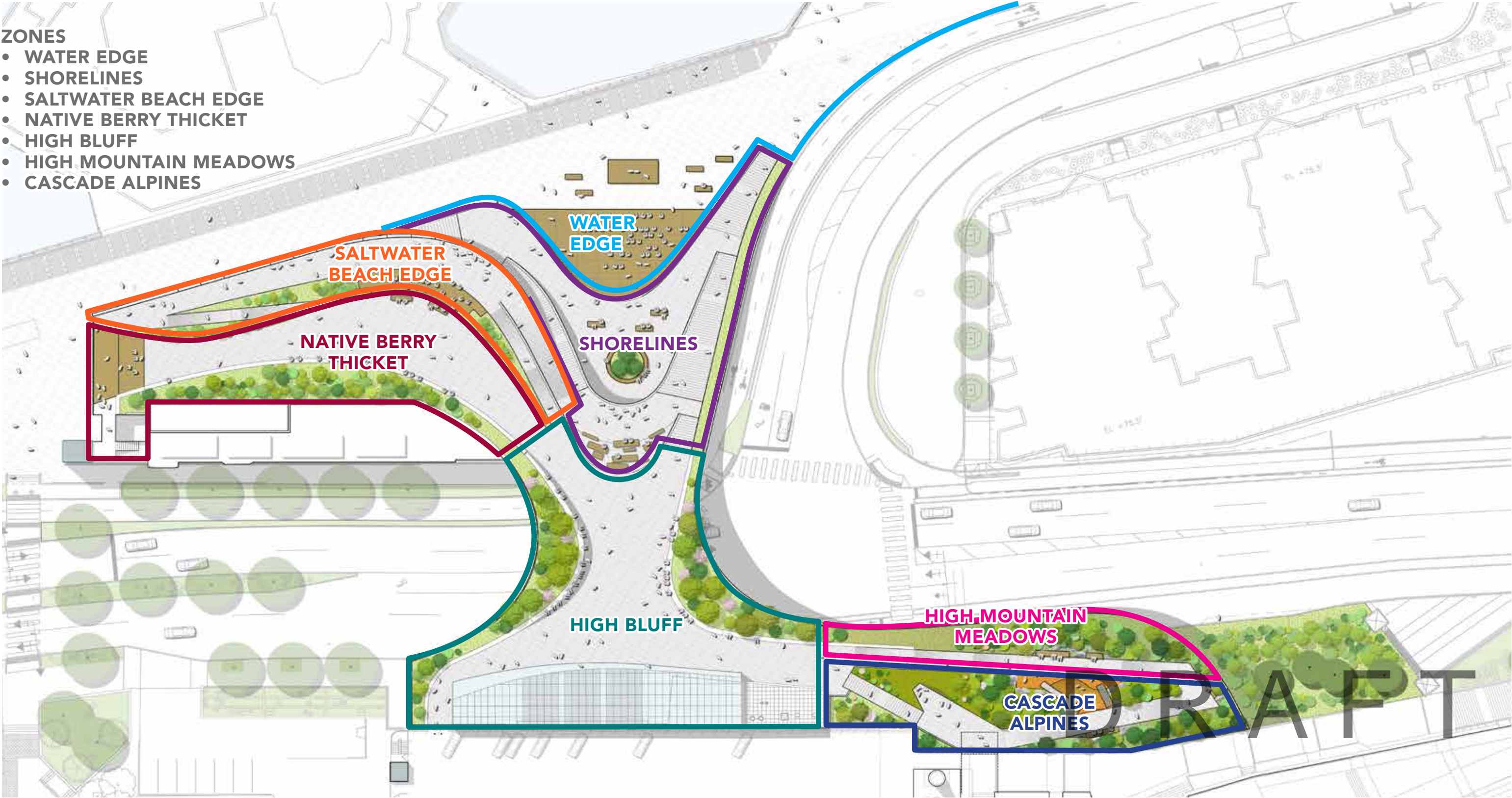


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# OCEAN PAVILION ROOF

EXPANDED CONCEPT

- ZONES**
- WATER EDGE
  - SHORELINES
  - SALTWATER BEACH EDGE
  - NATIVE BERRY THICKET
  - HIGH BLUFF
  - HIGH MOUNTAIN MEADOWS
  - CASCADE ALPINES



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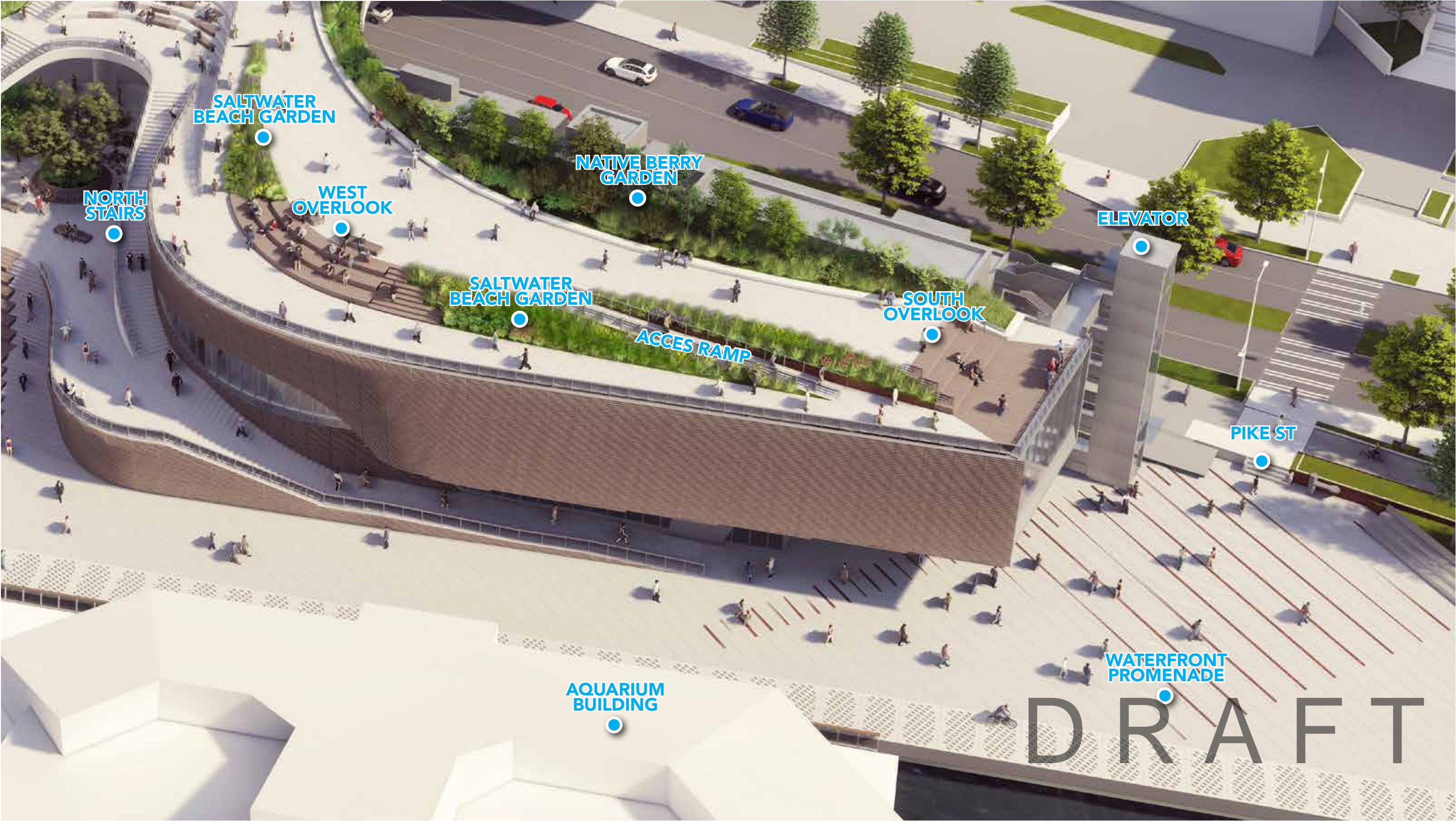
Architectural site plan of the Overlook Walk area, showing the waterfront promenade, lower and upper decks, access ramps, and various elevation markers. The plan includes labels for "WATERFRONT PROMENADE", "LOWER DECK", "UPPER DECK", "ACCESS RAMP", "ELEVATOR + STAIR TO PROMENADE", "OVERLOOK WALK", and "SOUTH STAIR". Elevation markers are provided in pink boxes: +16', +62.5', +67', +30', and +64'. Blue arrows indicate specific features or directions. The plan also shows "AQUARIUM ROOF PLANTER" areas and a "PRECAST CONC. BENCH". A large "DRAFT" watermark is visible at the bottom right.

# DRAFT

**OVERLOOK WALK**



OCEAN PAVILION ROOF  
PUBLIC OPEN SPACE





OCEAN PAVILION ROOF  
WESTERN SEATING STEPS

KEY





# OCEAN PAVILION ROOF

LOOKING SOUTH





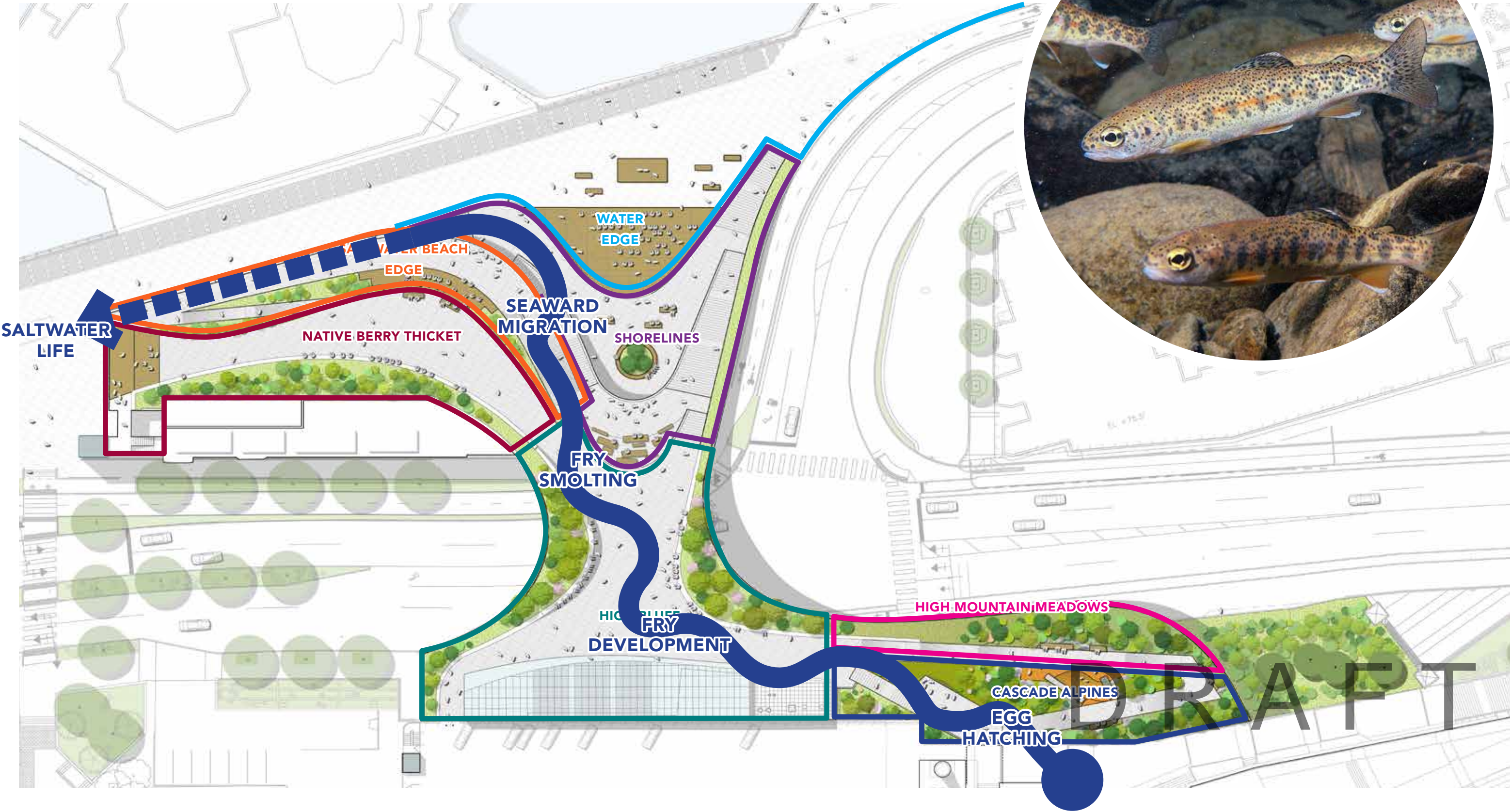
**TELLING  
MEANINGFUL  
STORIES**

**PEOPLE  
PLANTS  
WILDLIFE  
SALMON**

DRAFT



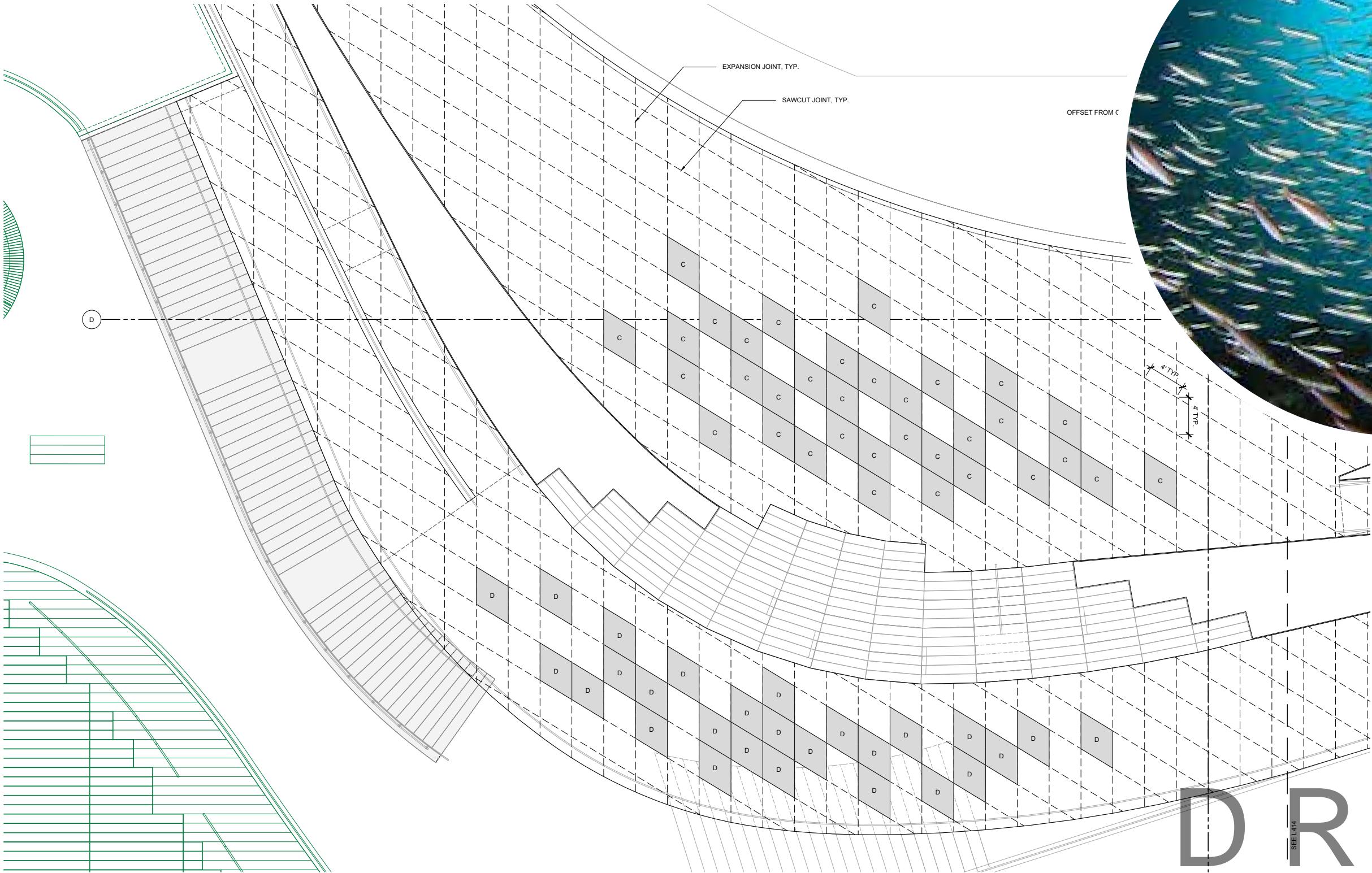
OCEAN PAVILION ROOF  
SALMON MIGRATION STORY





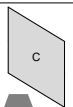

# OCEAN PAVILION ROOF

## MIGRATORY SALMON SHOAL IN PAVEMENT



\*GENERAL NOTE:  
1. GREEN LINES INDICATE SCOPE NOT INCLUDED IN THIS PROJECT SHOWN FOR REFERENCE ONLY.  
2. FINISHES AND PLANTINGS ON THE SALISH STEPS SEATING AND UPPER PLAZA ARE BY THE OFFICE OF THE WATERFRONT OVERLOOK WALK PROJECT.  
3. DIAGRAM ON G011 DEPICTS AREA OF SCOPE.

NOTE:  
1. REFER TO DETAIL 4 SHEET L510 FOR SAW CUT JOINT DETAIL  
2. REFER TO ARCH/CIVIL DWGS FOR EXPANSION JOINTS

STENCIL SCHEDULE AT AQUARIUM ROOF			
SYMBOL	NAME	DETAIL	COMMENTS
	STENCIL TYPE C	-	34 ON THIS SHEET 50 TOTAL, 4'X4'
	STENCIL TYPE D	-	27 ON THIS SHEET 53 TOTAL, 4'X4'

01 JOINTING LAYOUT WITH STENCIL UNIT C, D  
SCALE: 1/4" = 1'-0"



A photograph of a dense forest with large, moss-covered tree trunks. The trees are covered in thick green moss, and the forest floor is also covered in moss and fallen branches. The background shows more trees and a slightly hazy atmosphere.

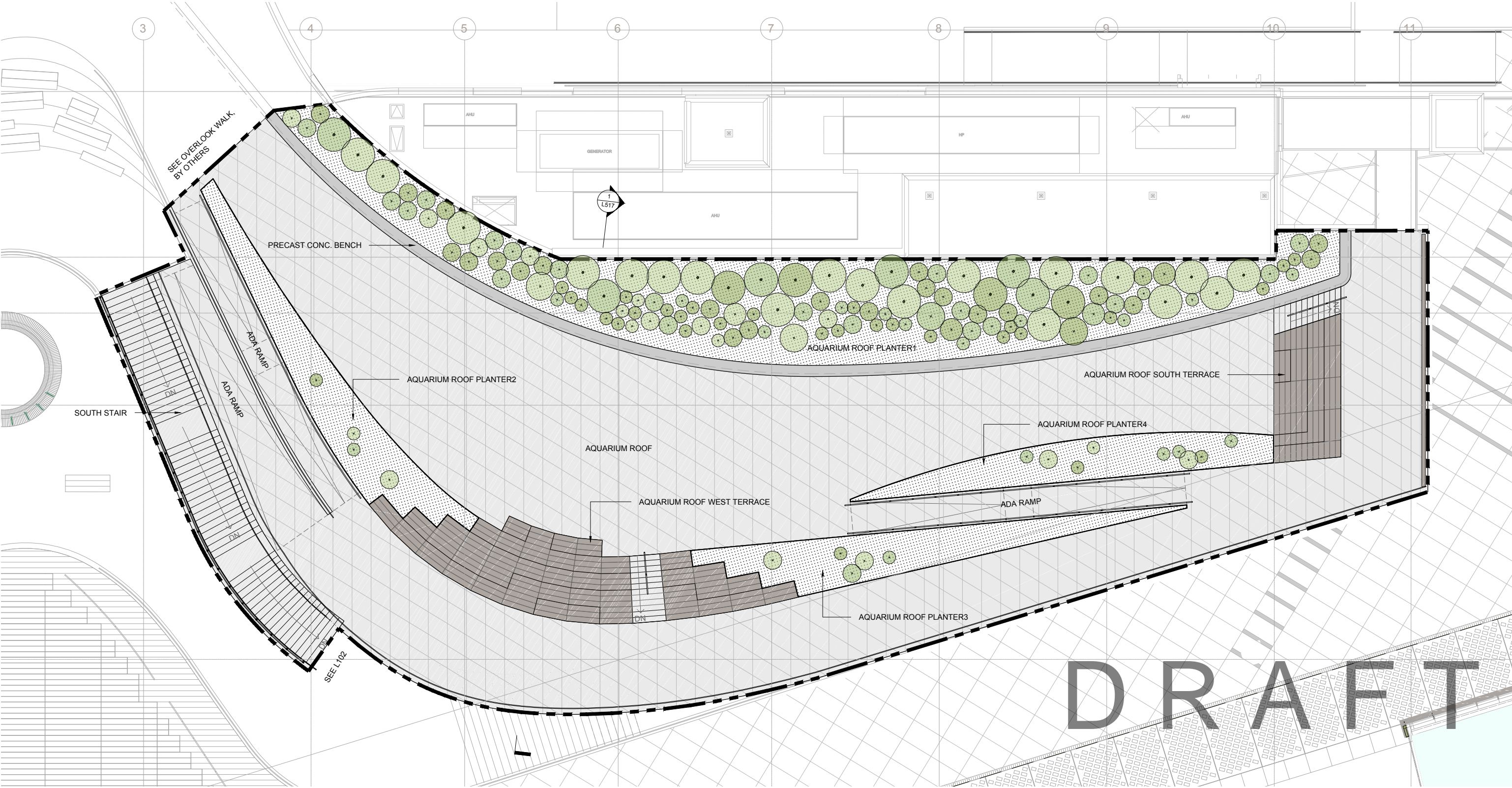
# FURNISHING

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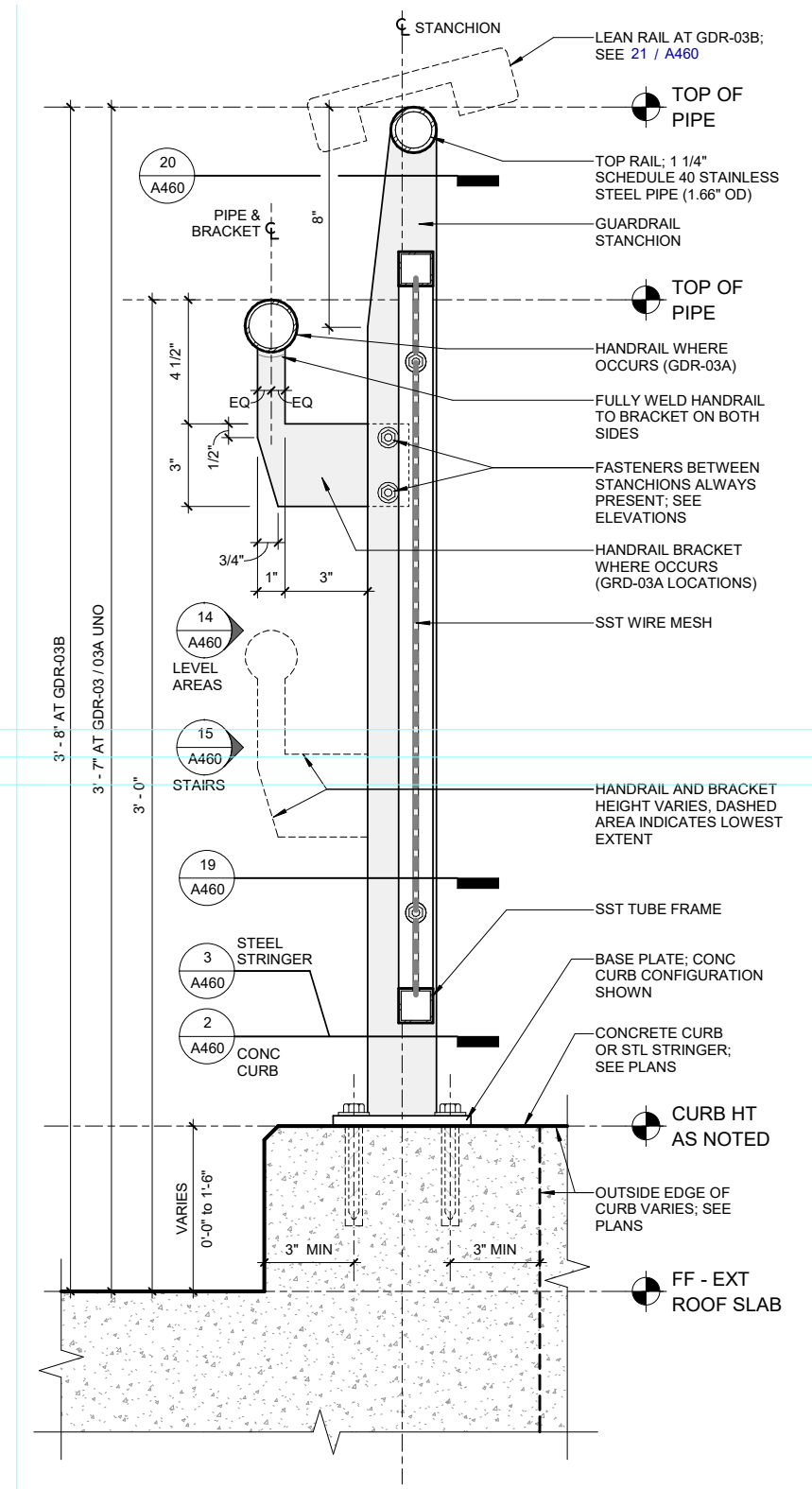
# OCEAN PAVILION ROOF

## RAILING

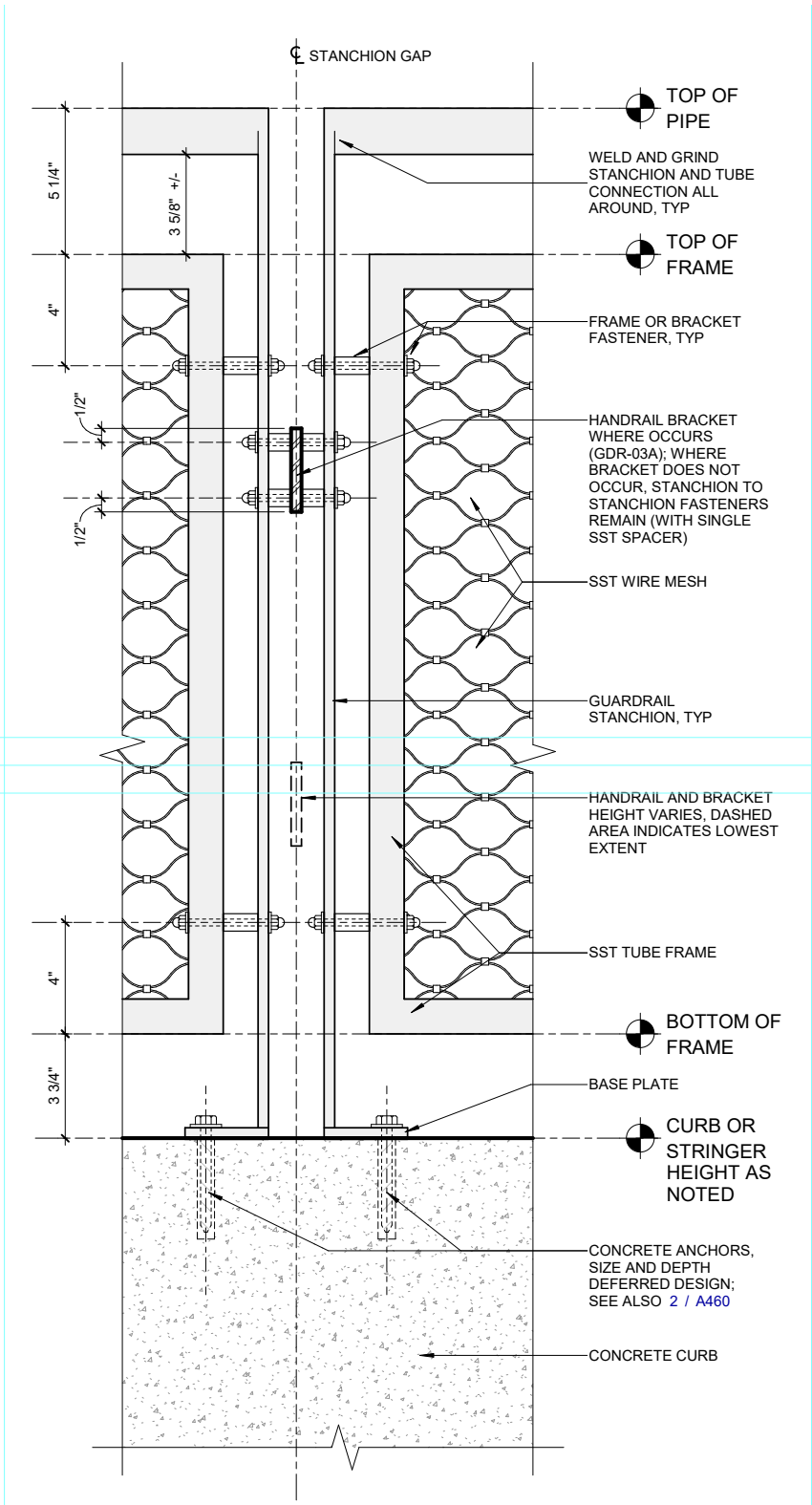


# OCEAN PAVILION ROOF

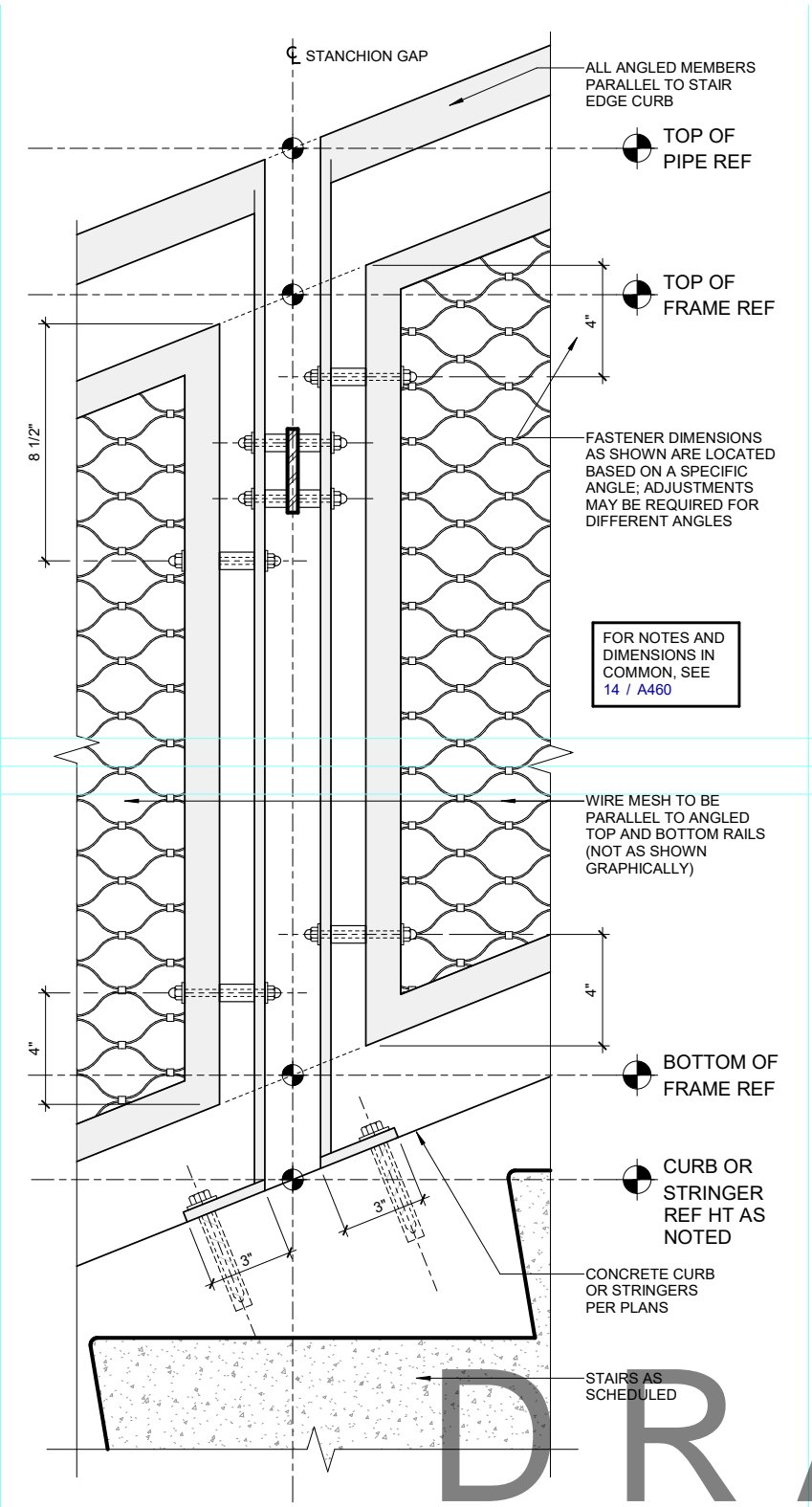
## GUARDRAILS



**13 GDR-03 - SECTION**  
A460 3" = 1'-0"



**14 GDR-03 - LEVEL ELEVATION**  
A460 3" = 1'-0"



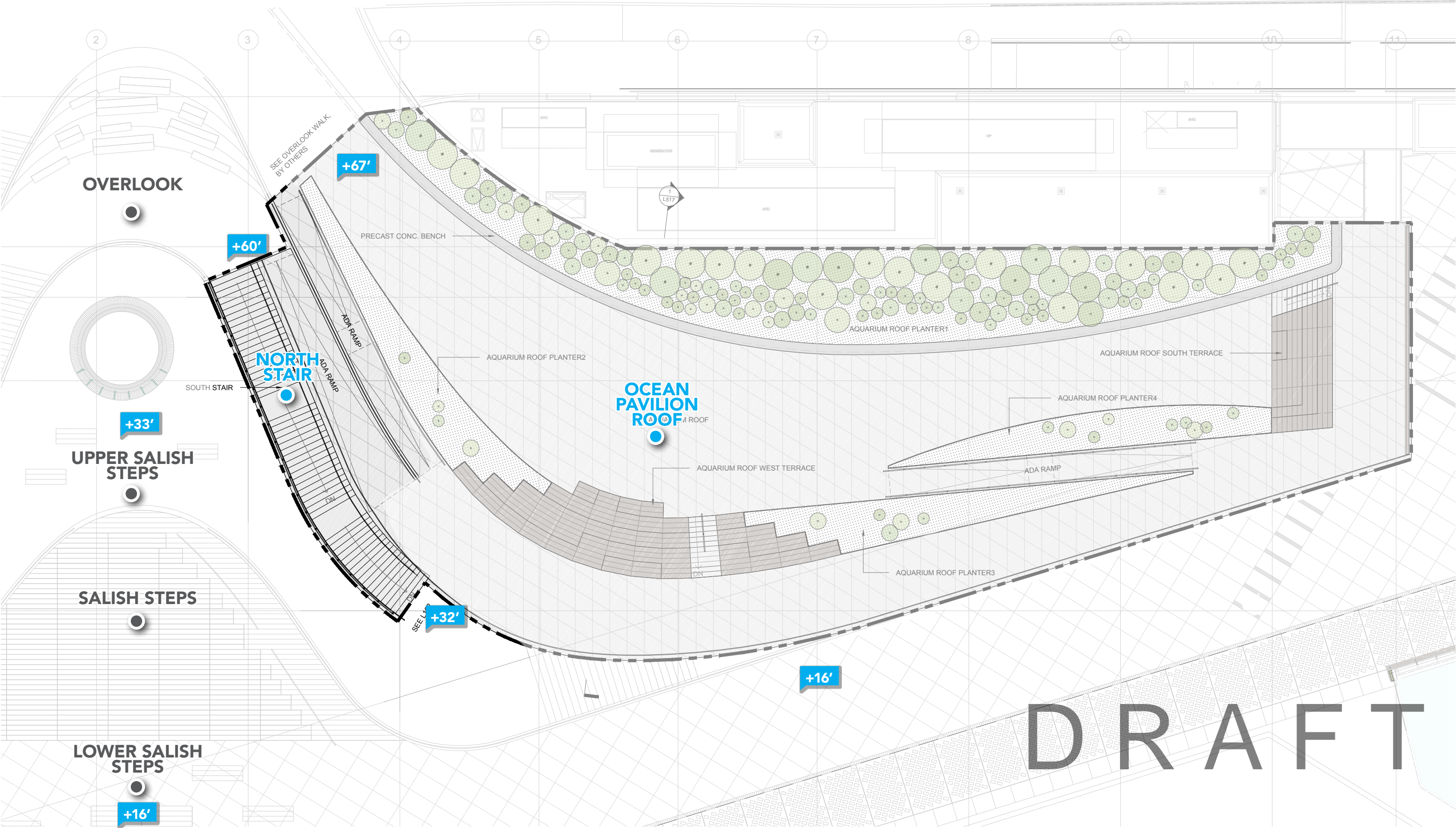
**15 GDR-03 - STAIR ELEVATION**  
A460 3" = 1'-0"

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# OCEAN PAVILION ROOF

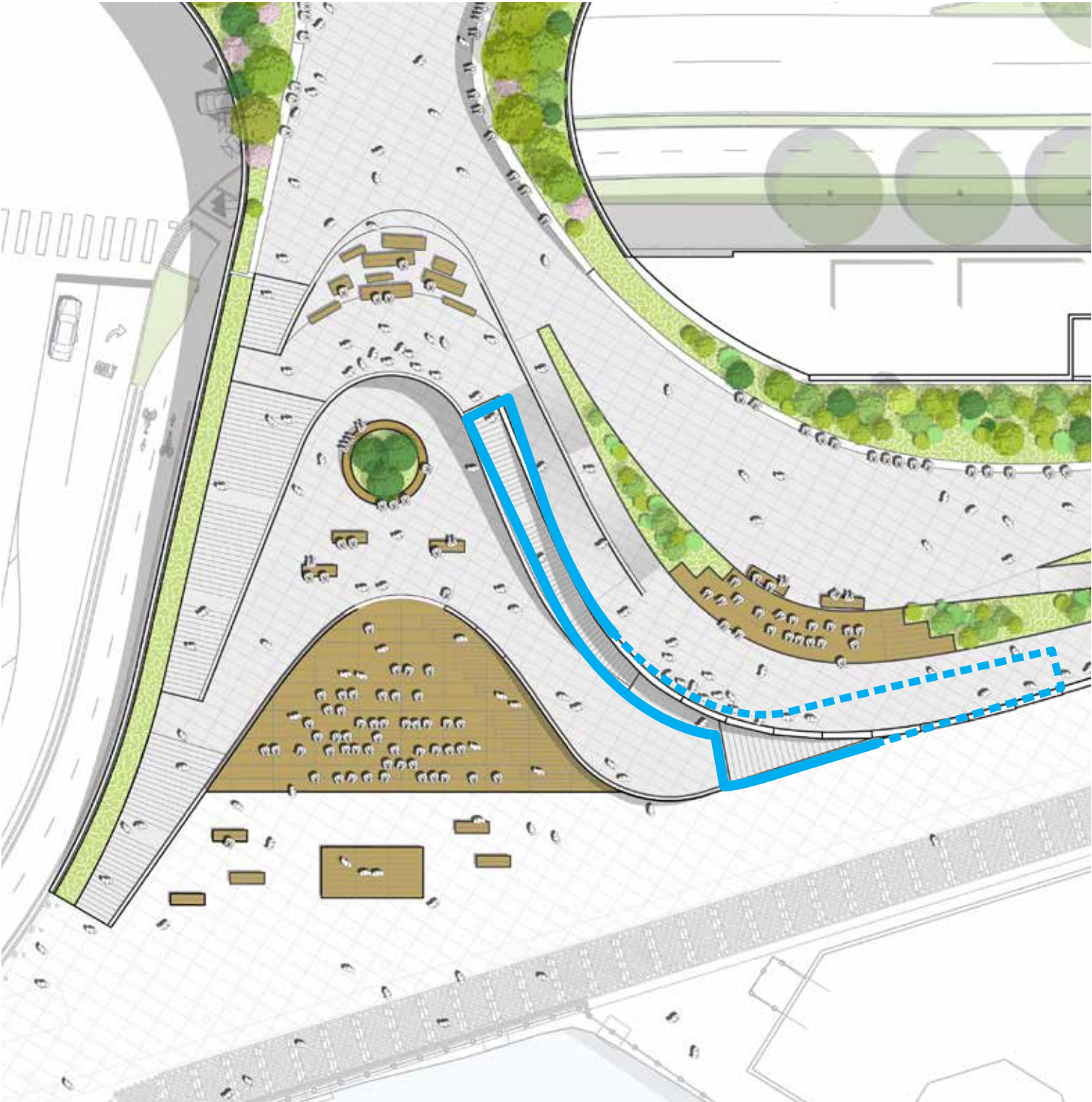
## NORTH STAIRS



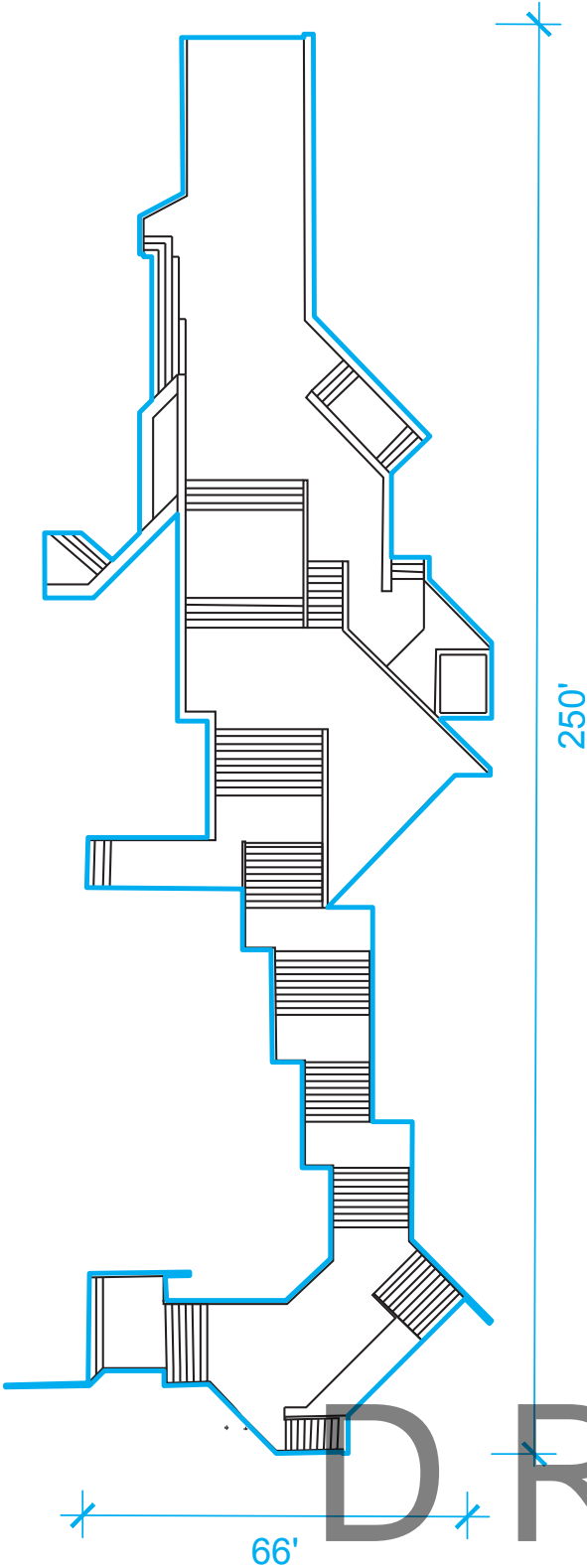
DRAFT



OCEAN PAVILION ROOF  
NORTH STAIRS



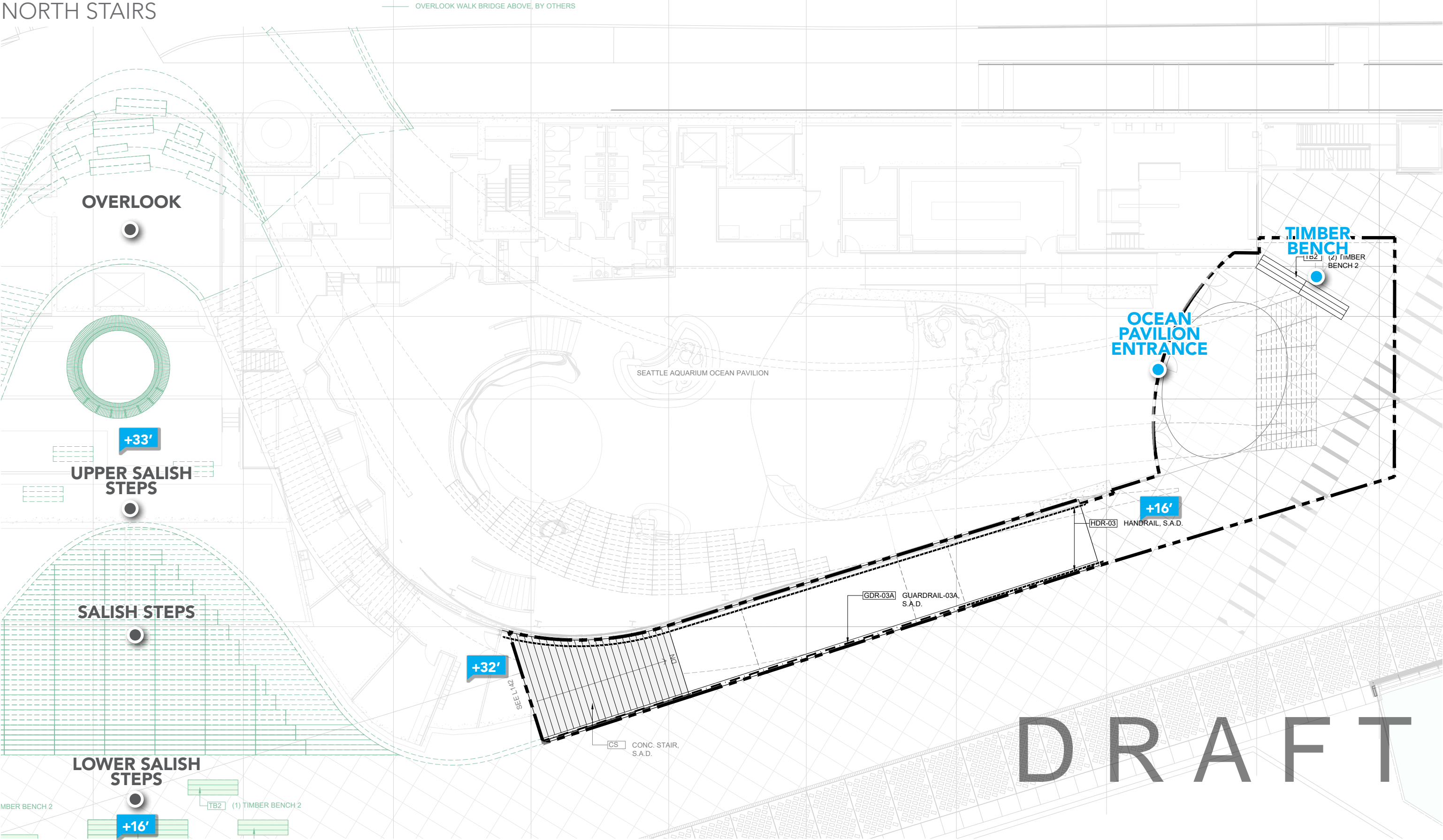
OVERLOOK WALK  
- 44'  
- 88 STEPS



PIKE HILL CLIMB  
- 44'  
- 88 STEPS

# OCEAN PAVILION ROOF

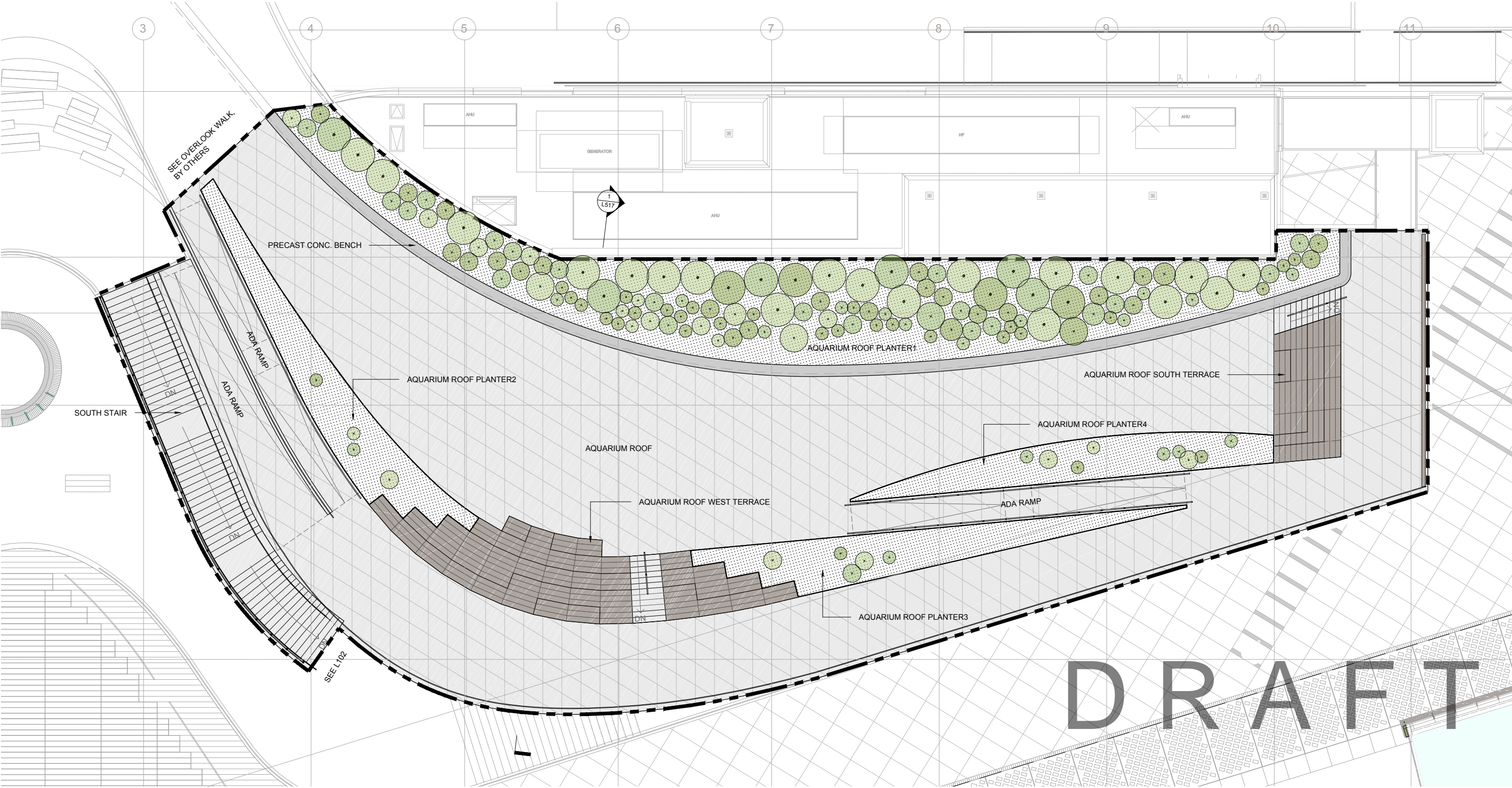
## NORTH STAIRS





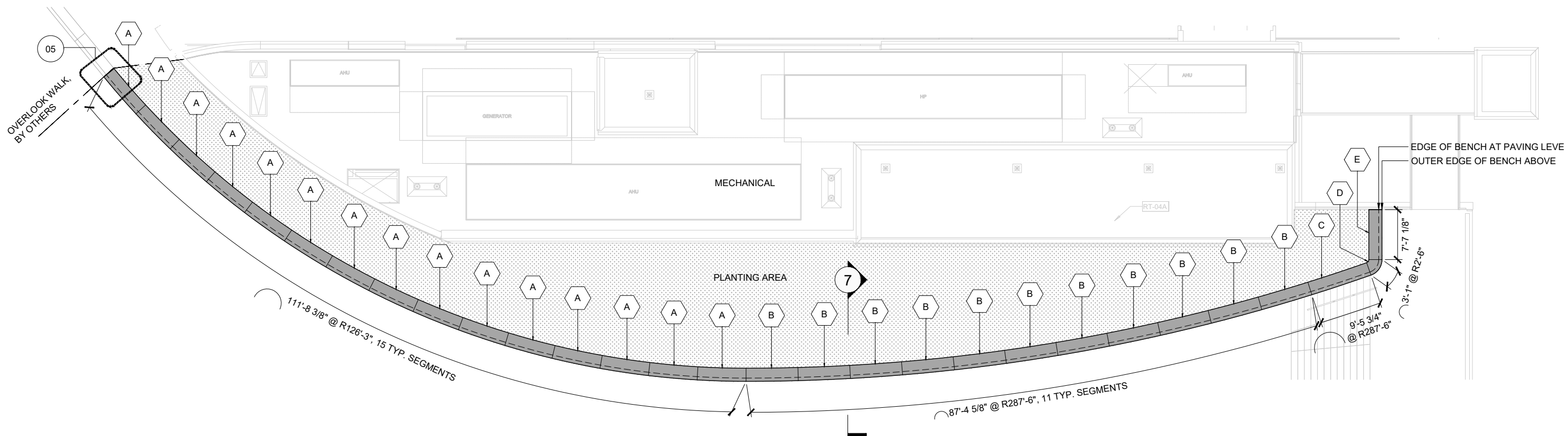
# OCEAN PAVILION ROOF

## SEATING



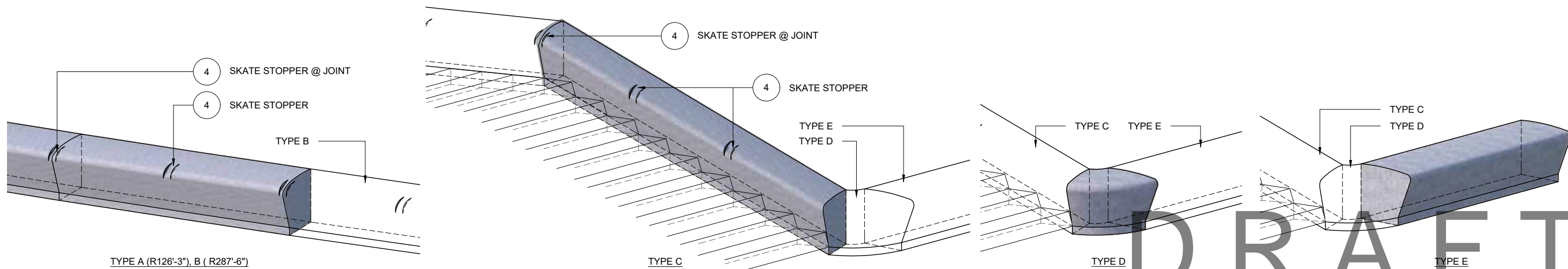


## PRE-CAST CONCRETE BENCH



# 1 PRECAST CONC. BENCH PLAN

SCALE: 1/8" = 1'-0"



3 PRECAST CONC. BENCH MODULE AXON

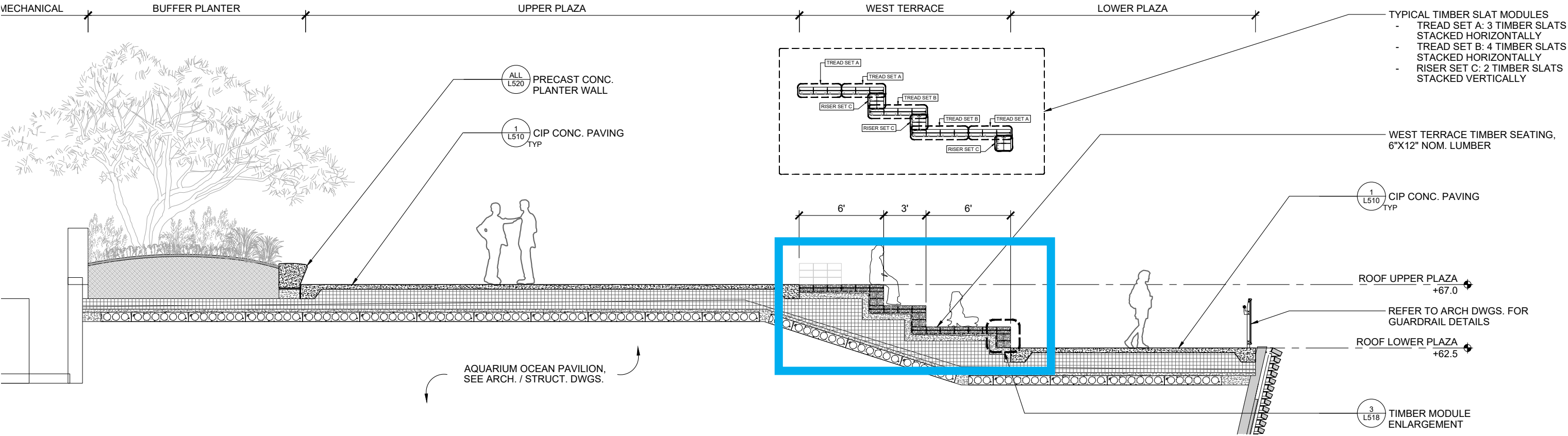
SCALE: NTS

# DRAFT



OCEAN PAVILION ROOF  
WESTERN WOOD SEATING STEPS

KEY

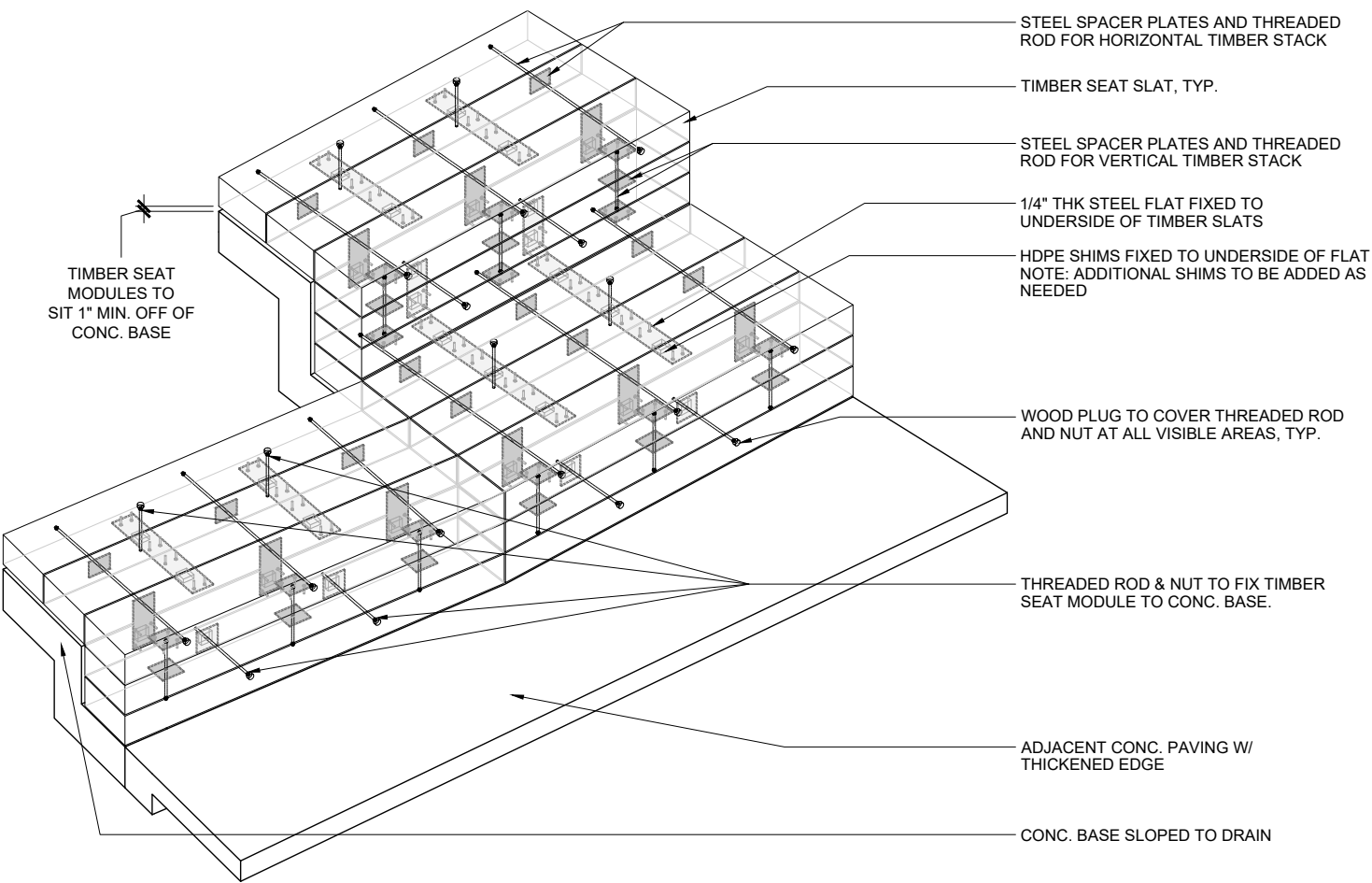
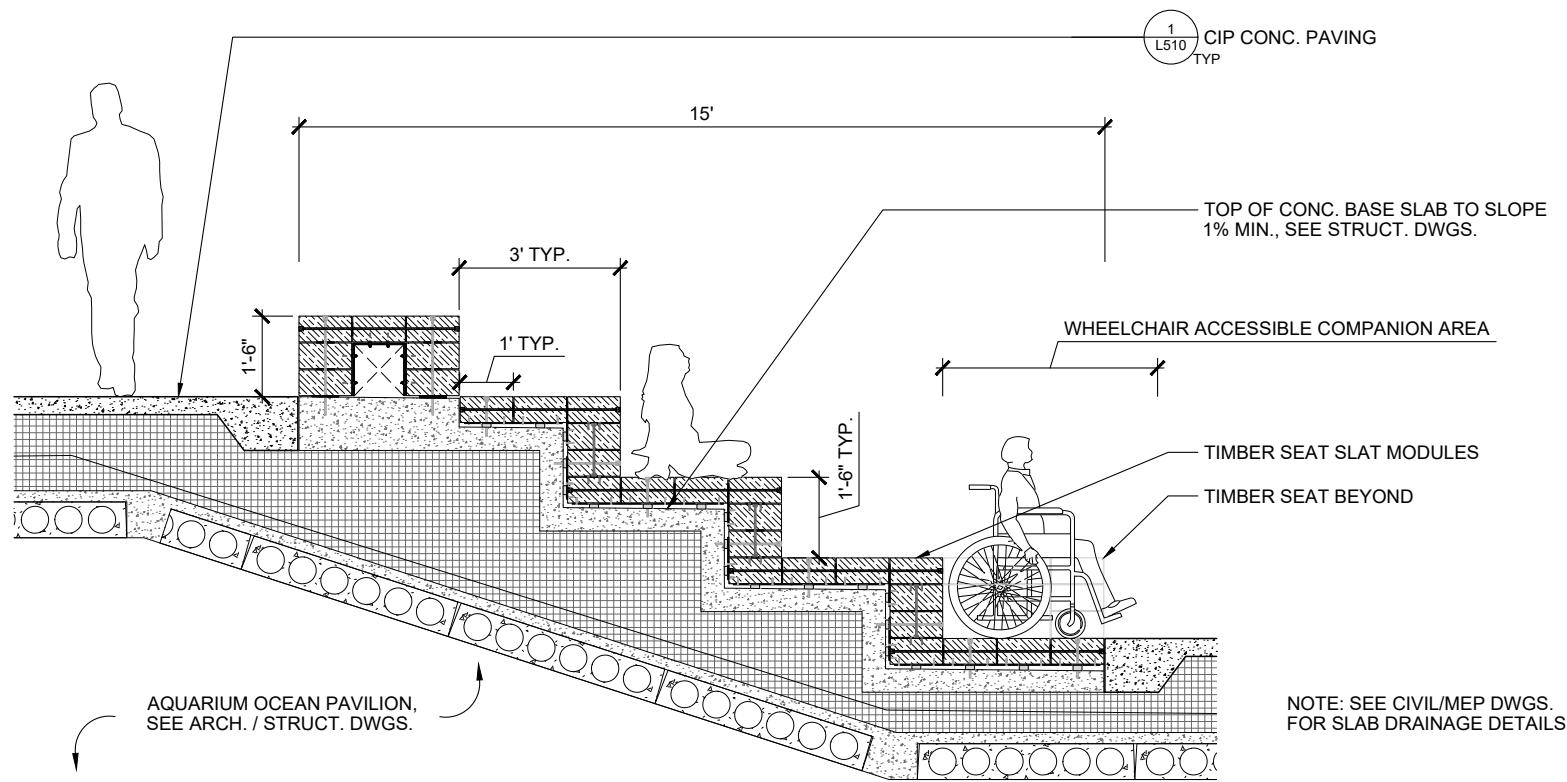


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# OCEAN PAVILION ROOF

## WESTERN WOOD SEATING STEPS



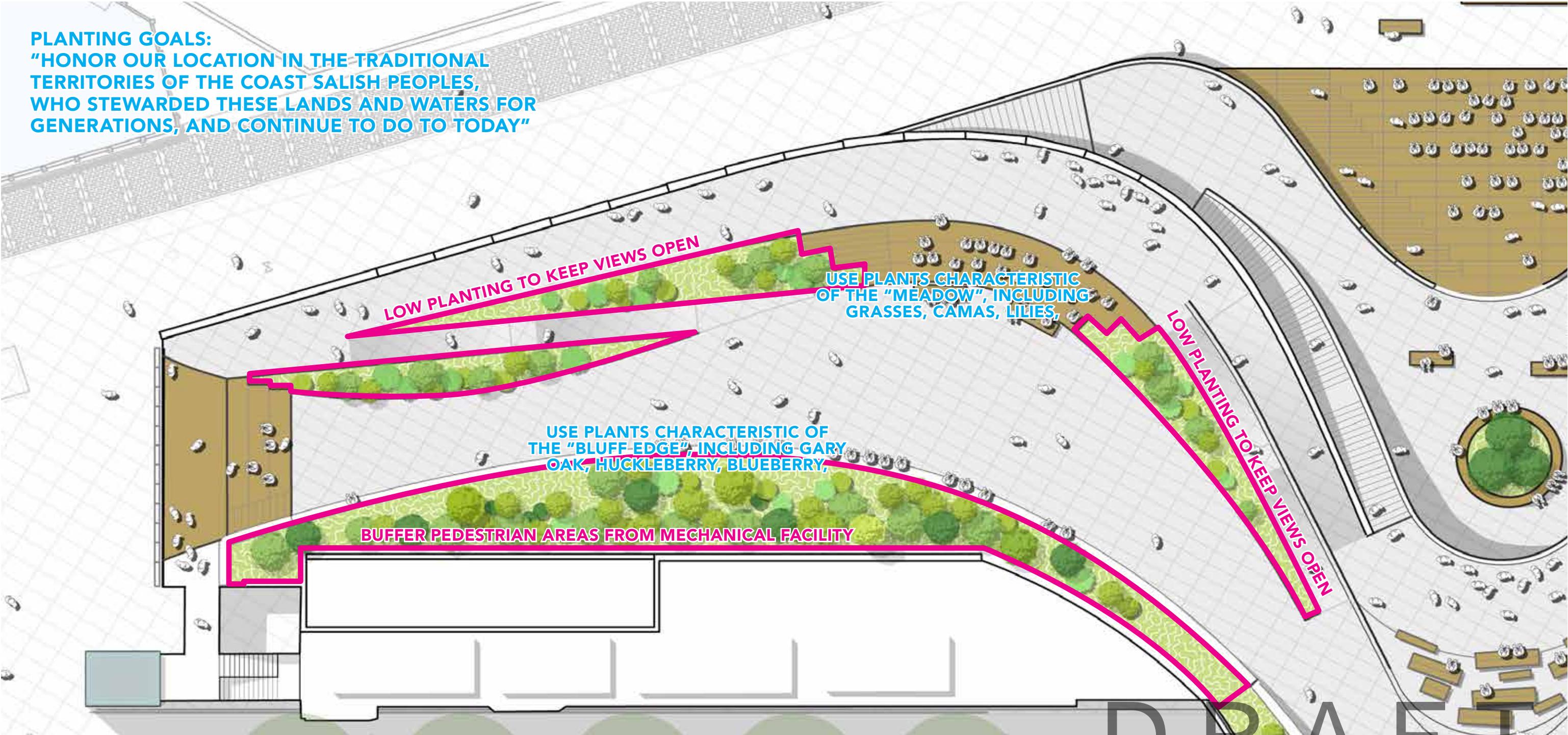
WOOD SOURCING FROM  
TRIBAL FOREST

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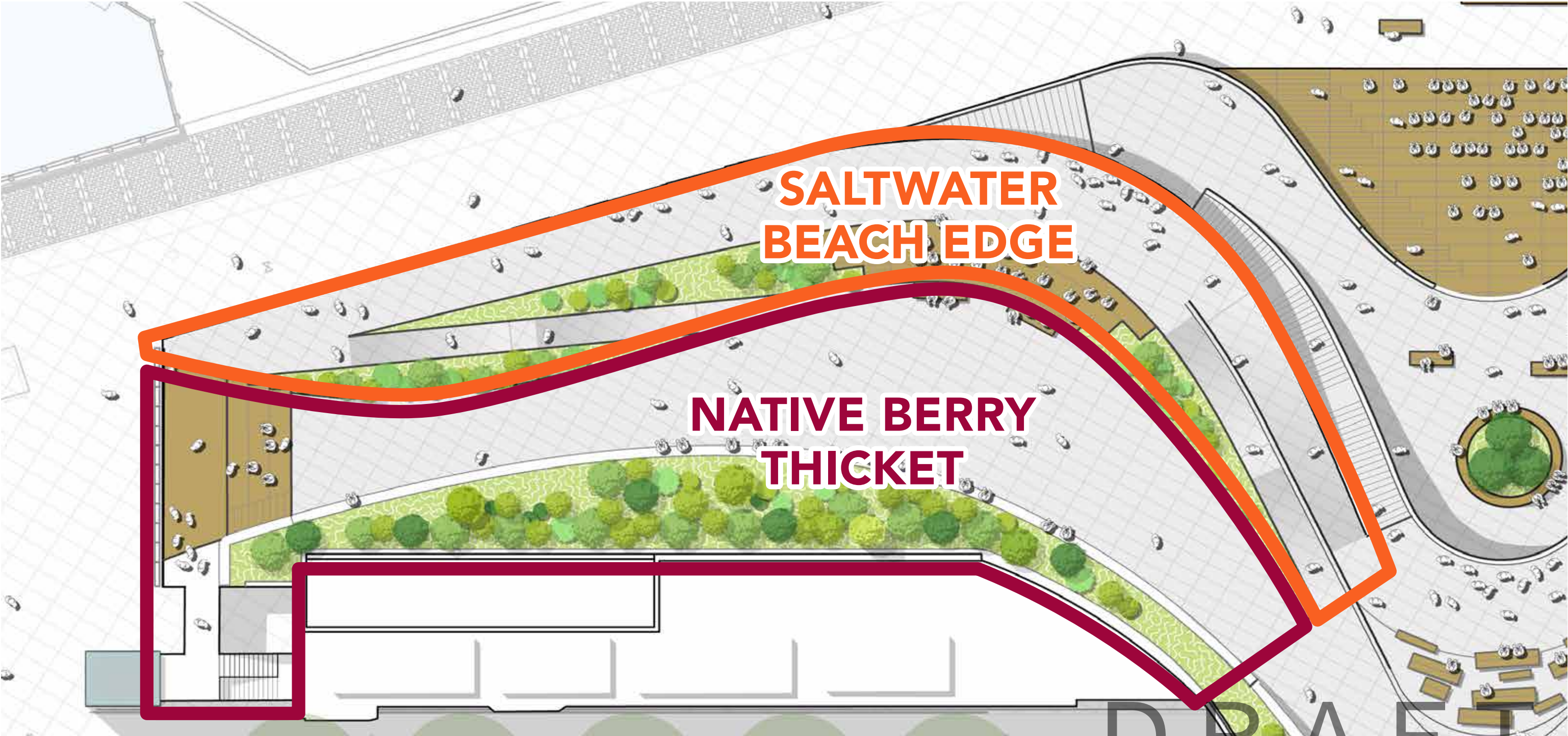
# OCEAN PAVILION ROOF

## PLANTING





OCEAN PAVILION ROOF  
TELLING MEANINGFUL STORIES



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## Native Berry Garden

Salal

Red Huckleberry

Evergreen Huckleberry

Thimbleberry

Salmonberry

Oregon Grape

Gooseberry

High Bush Cranberry

Wild Trailing Blackberry



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## Saltwater Beaches

Nootka Rose

Yarrow

Nodding Onion

Wild Strawberry

Kinnikinick

Hairy Manzanita



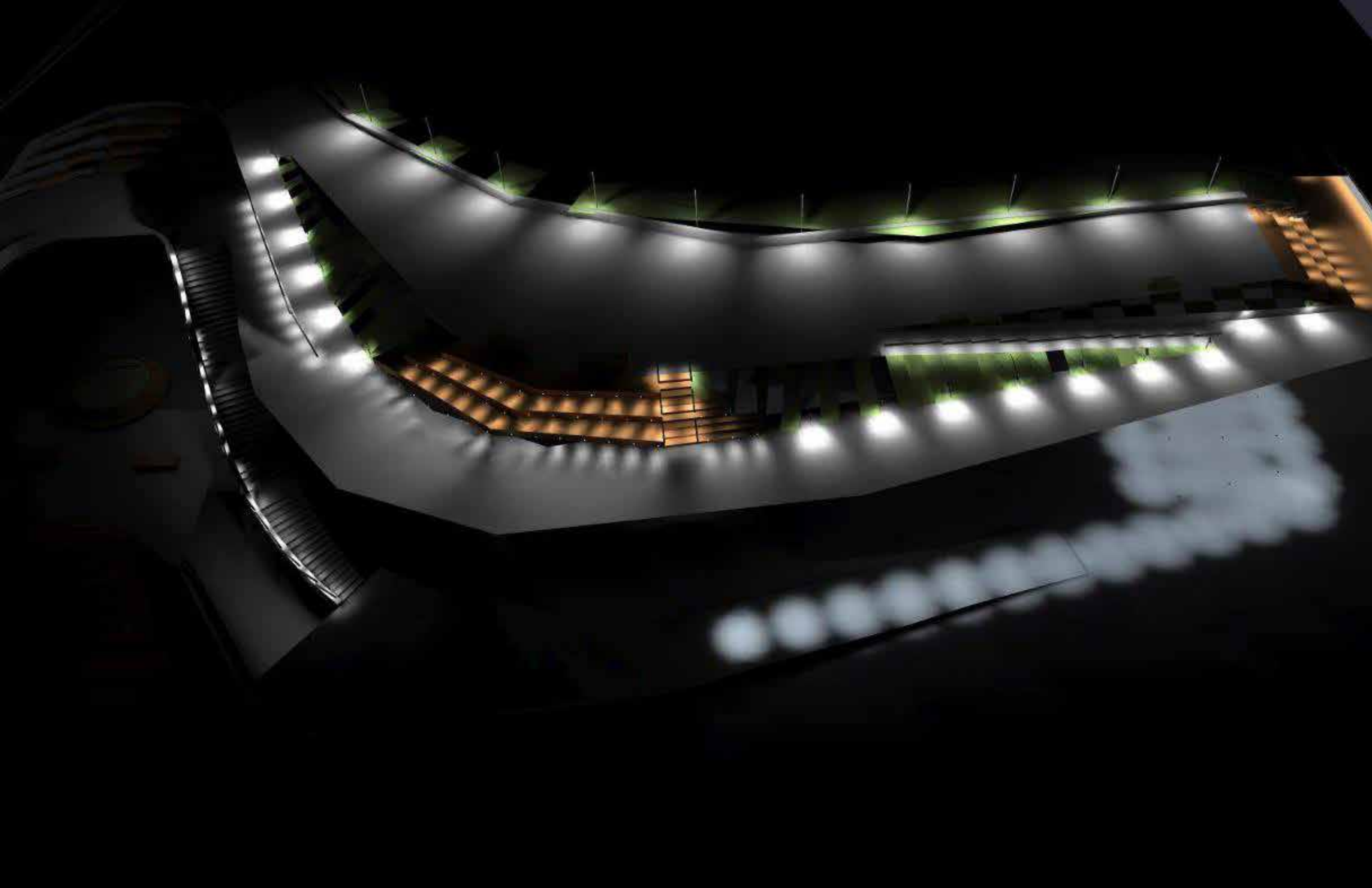


# OCEAN PAVILION ROOF

ILLUSTRATIVE VIEW









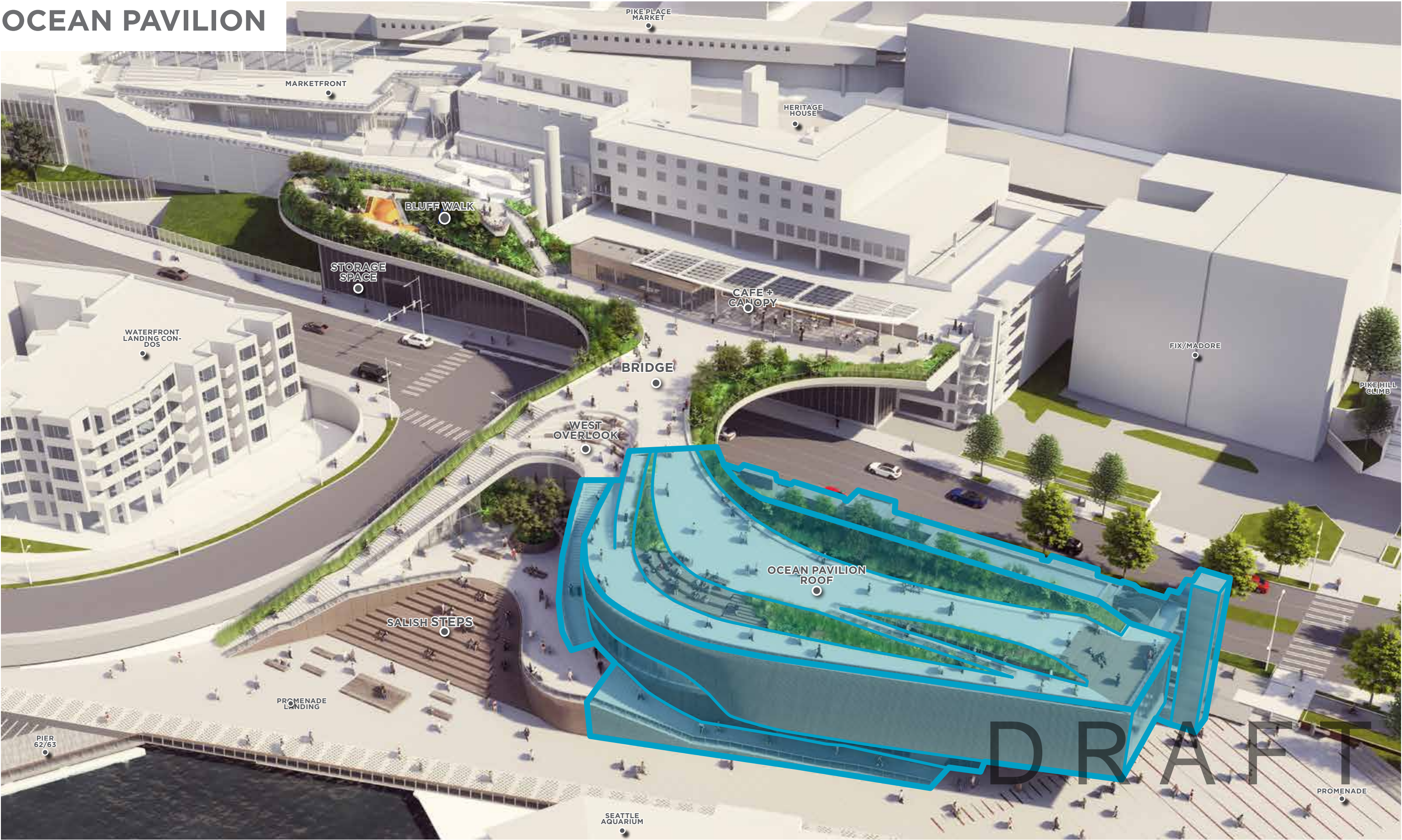
# OCEAN PAVILION

- Conservation mission/Aquarium campus
- Sustainability
- Program organization
- Experience and Materials:
  - Integration with waterfront/ urban context
  - Integration with Salish steps
  - Integration with waterfront context
  - Integration with the promenade
- Public art program

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# OCEAN PAVILION

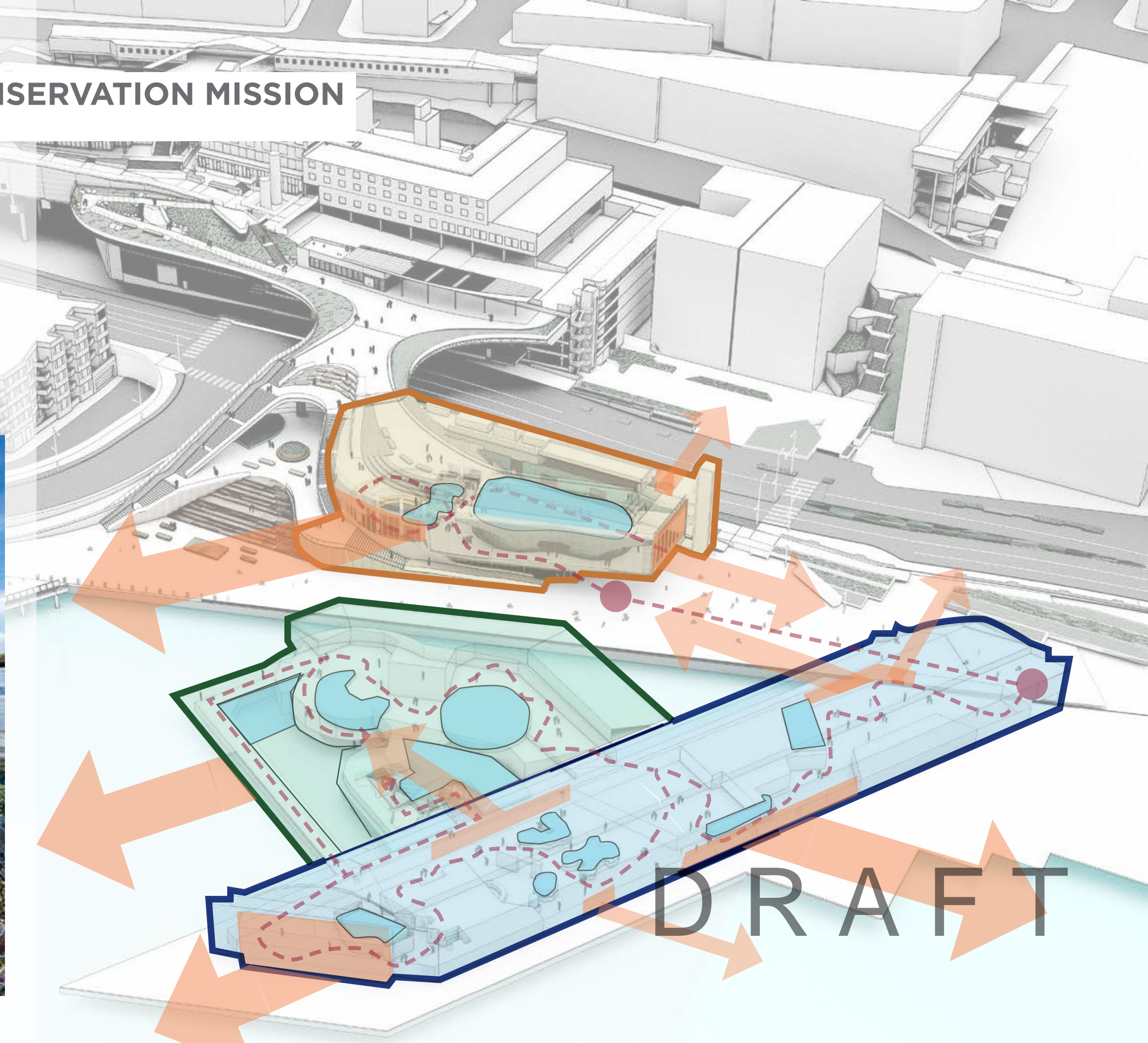




# SEATTLE AQUARIUM CONSERVATION MISSION

## CORAL TRAINGLE

# CORAL TRIANGLE





SEATTLE AQUARIUM CONSERVATION MISSION  
RELATIONSHIP WITH THE OCEAN

# WE ARE IN A RELATIONSHIP WITH THE OCEAN

## The Ocean Pavilion redefines “aquarium” for the 21st century

- A model of a thriving human culture, **a community of care**, that fosters a thriving ecology
- Exhibits that develop **empathy** towards wildlife and **inspire wonder** for life creating the conditions for life on our planet
- A landmark site that acknowledges Coast Salish lands and waters and the **vital role of Indigenous knowledge** in our future ocean
- An **inclusive space** that “meets people where they are” with a **full range of living, immersive, and interactive experiences**
- An **open invitation** for learning, sharing, and caring for our world ocean





**HEALTH OF THE SALISH SEA**

manage sea water discharge and stormwater  
eliminate harmful materials (zinc, copper, mercury, . . .)  
reduce transportation impacts



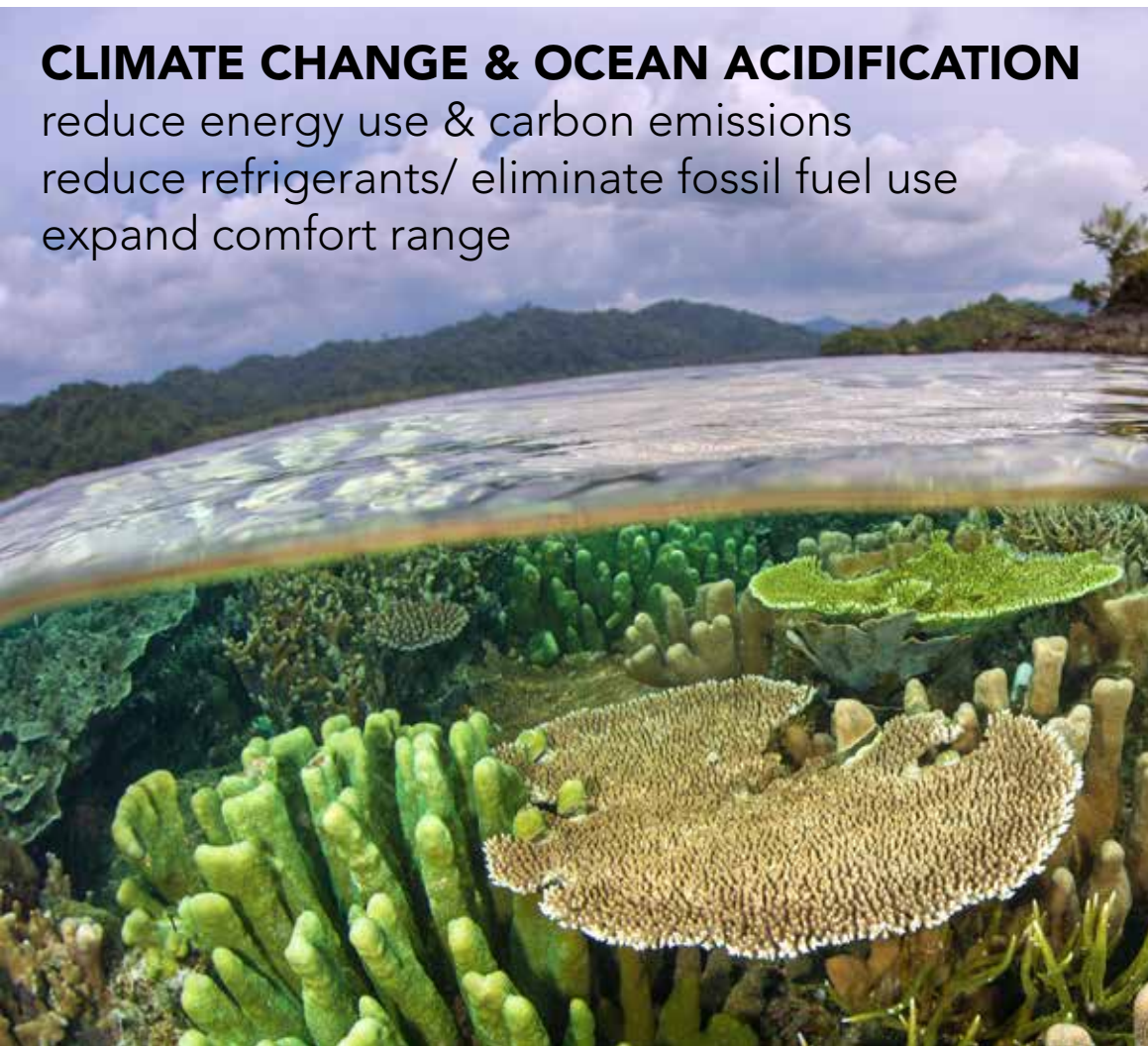
**PLASTICS & MATERIALS**

reduce/ eliminate pvc  
use sustainable materials and coatings  
utilize low carbon concrete



**CLIMATE CHANGE & OCEAN ACIDIFICATION**

reduce energy use & carbon emissions  
reduce refrigerants/ eliminate fossil fuel use  
expand comfort range



**EQUITY**

acknowledgment of land sovereignty  
social justice through environmental stewardship  
inclusive design



**RESILIENCE**

design for higher sea levels  
utilize future weather files  
evaluate redundancy in critical systems





# SUSTAINABILITY STRATEGIES

## DESIGN IMPACTS ON GHG EMISSIONS

Eliminating boilers and relying on electric heat reduces the amount of carbon released into the atmosphere and the causation of ocean acidification

## NO FOSSIL FUELS

Project avoids use of greenhouse gas emitting fossil fuels

## SUSTAINABLE MATERIALS

Reduced PVC piping and eliminated materials harmful to marine environment (vinyls, zinc, copper, mercury, etc.)

## MINIMAL REFRIGERANTS

Heating and cooling are distributed with water throughout the building

## CONSERVATION MESSAGING

Exhibits and interpretive elements focus on marine conservation

## ENHANCED CONNECTIVITY

Public stairs connect the waterfront and the downtown core.

## CONNECTION TO NATURE

Exhibits integrated with habitat in the bay

## SUSTAINABILITY TARGETS

LEED Gold  
70% Energy Use Reduction  
95% Carbon Emissions Reduction  
(based on similar aquariums)

## PUBLIC OPEN SPACE

Green roof with native plantings reduces storm water runoff

## BUILDING ENVELOPE

High performance glazing and building envelope

## BUILDING METERING

Metering of energy categories to track building performance

## EMBODIED CARBON REDUCTION

Low carbon concrete and rebar  
Wood Siding

## LIFE SUPPORT SYSTEMS

Building heating/cooling and animal life support systems share energy and recover heat from each other;  
Semi-closed system conserves water and energy

## DAYLIGHTING

Windows bring natural light into aquarium reducing need for artificial lights

## WATER EFFICIENCY

Low Flow Flush Fixtures

## LIGHTING

Daylight Control;  
Power densities below stringent Seattle Energy Code

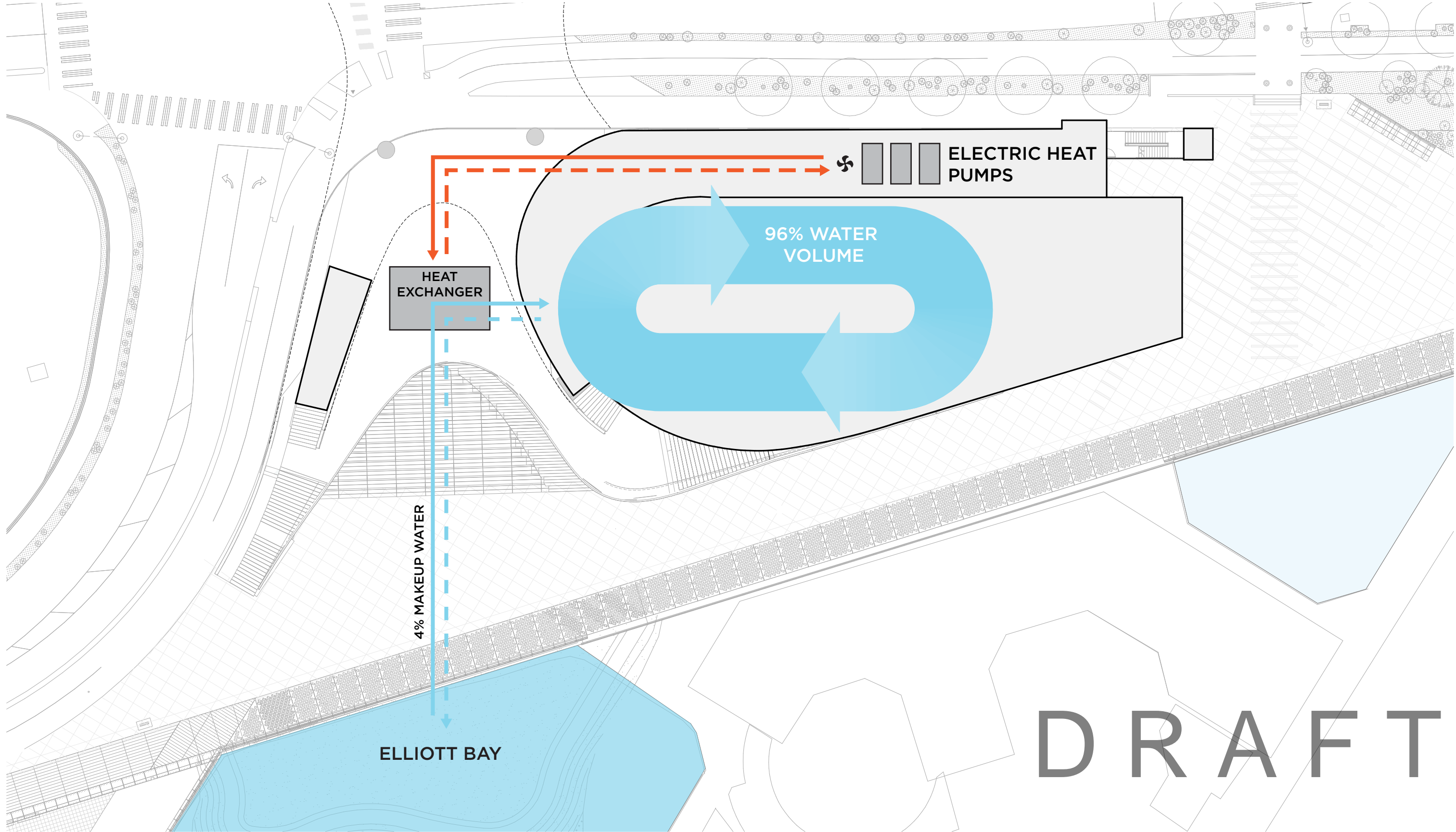
## BIOPHILIA

Exhibit vegetation brings biophilia indoors promoting human health and well-being

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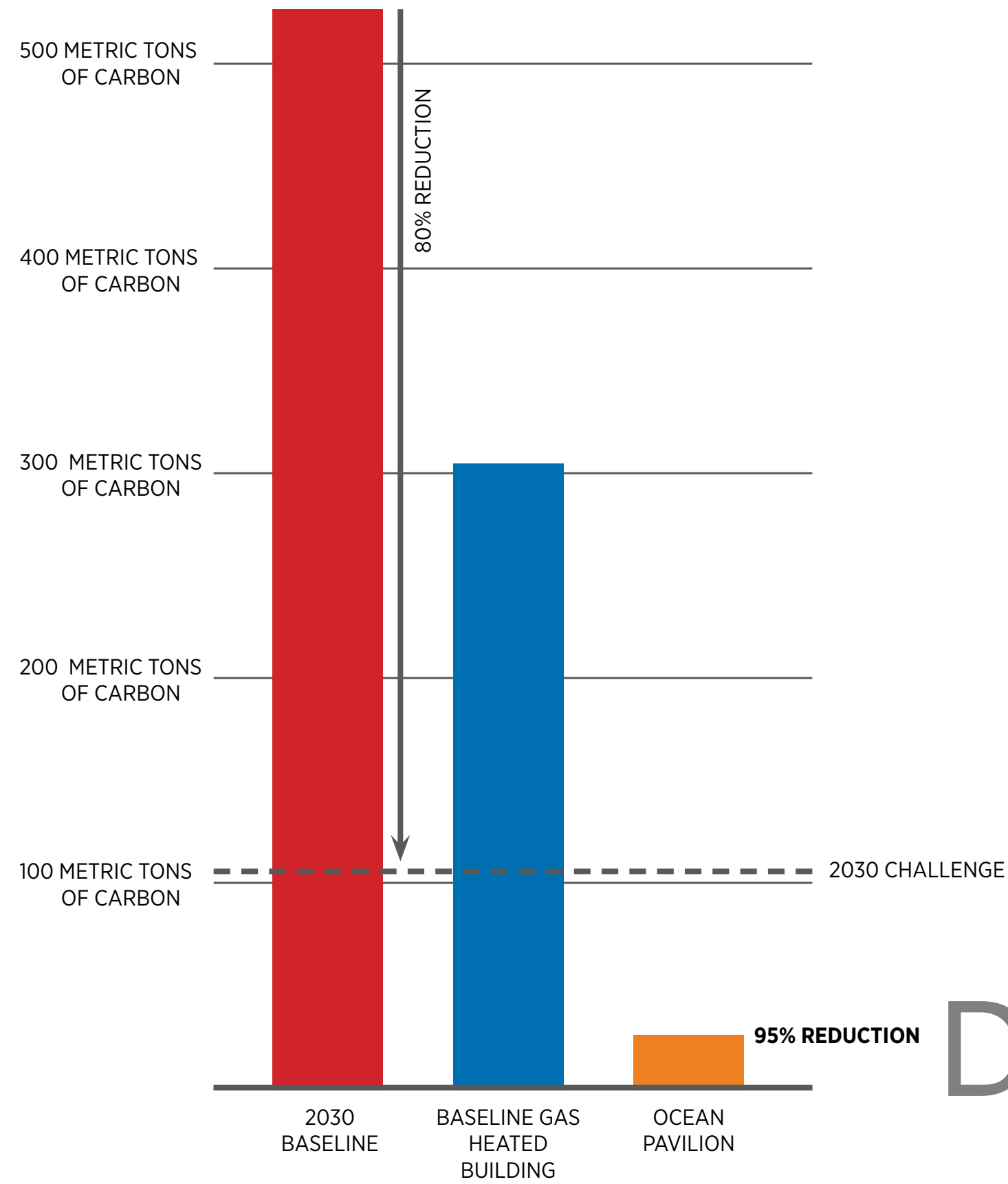
**SUSTAINABILITY**  
LSS WATER + ENERGY SHARING



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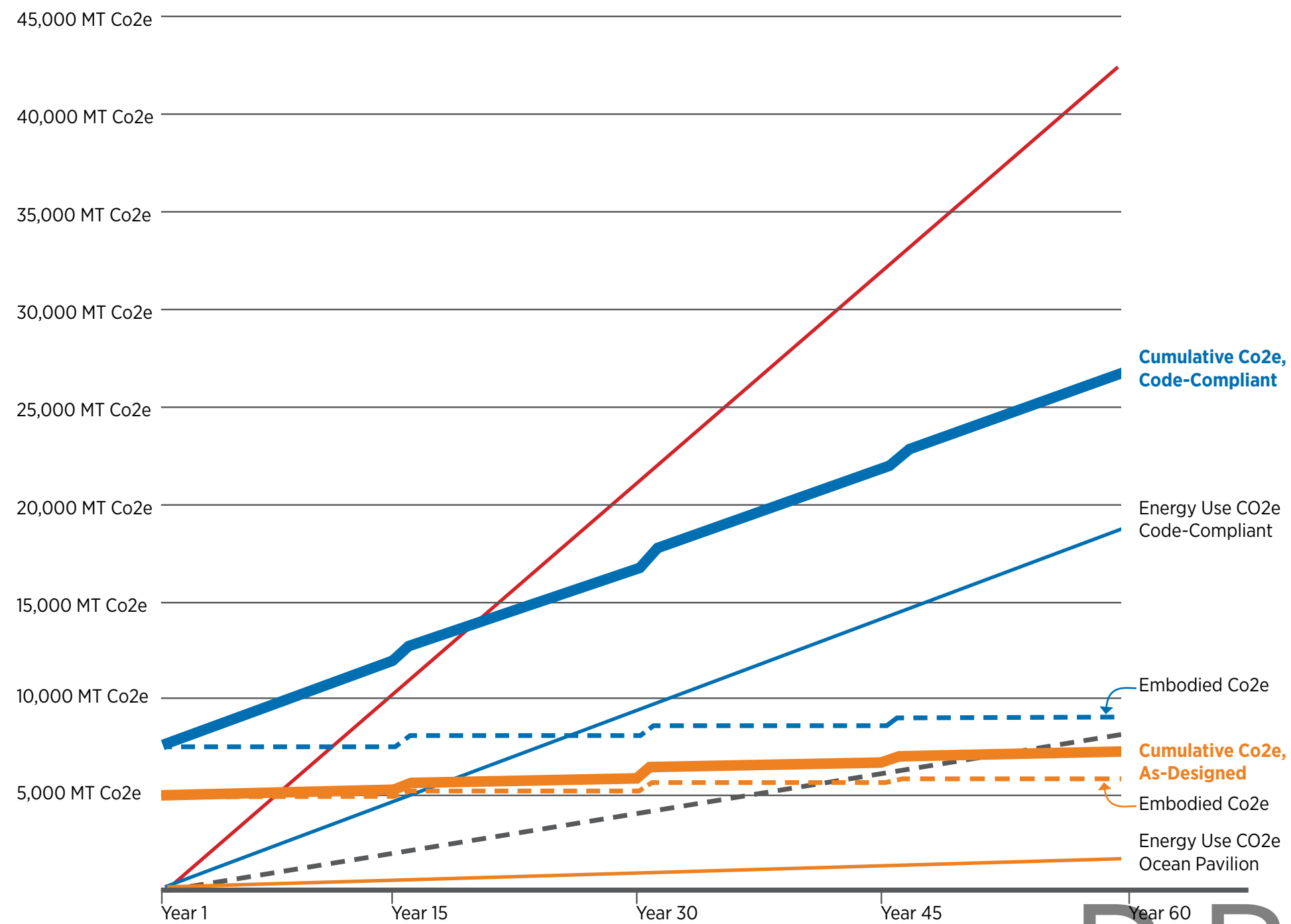
# ANNUAL CARBON EMISSIONS



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SUSTAINABILITY  
CARBON METRICS



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60-year Cumulative Carbon Emissions for Baseline and Proposed Aquarium



OCEAN PAVILION

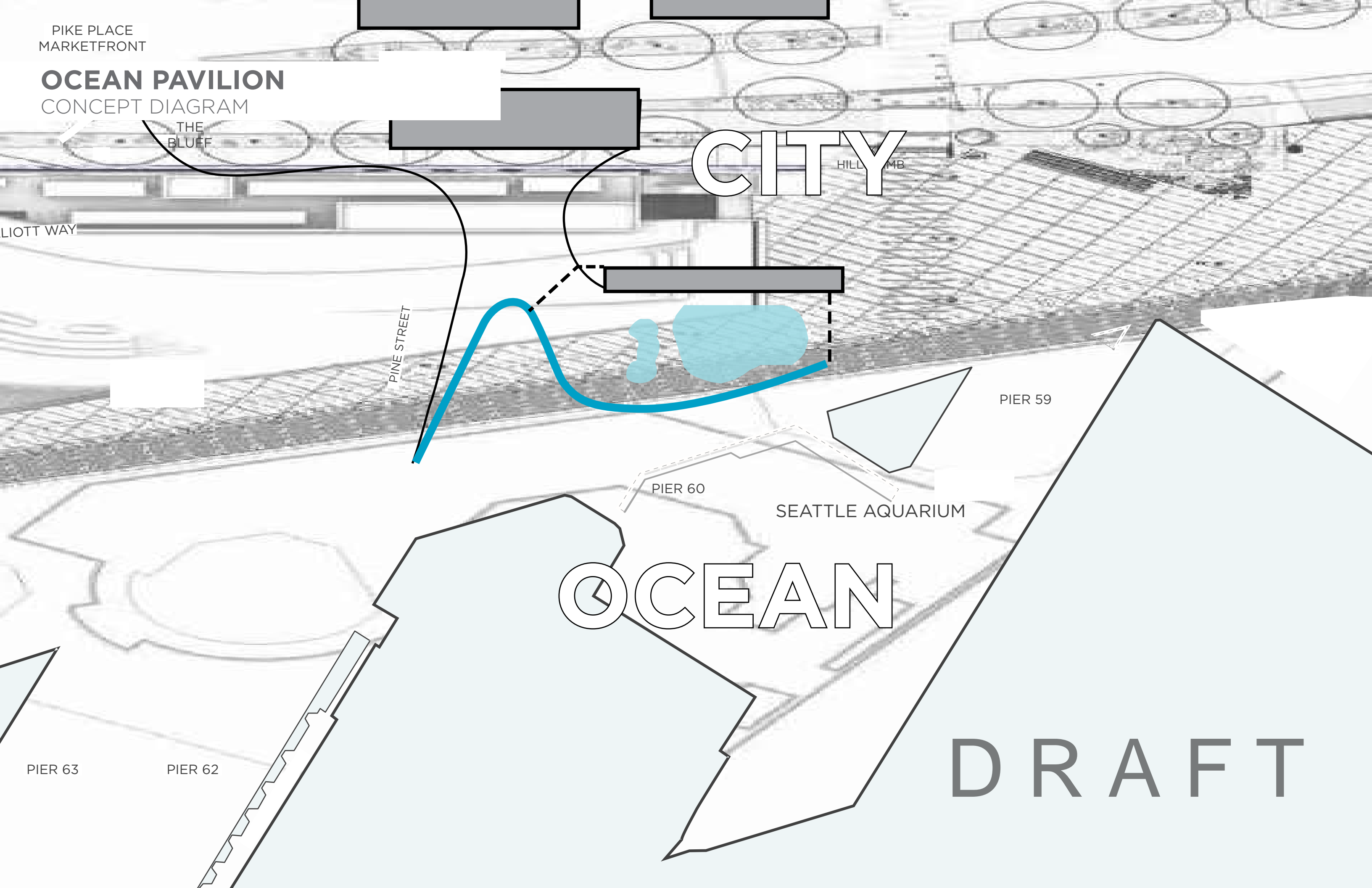


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PIKE PLACE  
MARKETFRONT

OCEAN PAVILION  
CONCEPT DIAGRAM



THE  
BLUFF

CITY

HILL COUNTRY

LIOTT WAY

PINE STREET

PIER 59

PIER 60

SEATTLE AQUARIUM

OCEAN

PIER 63

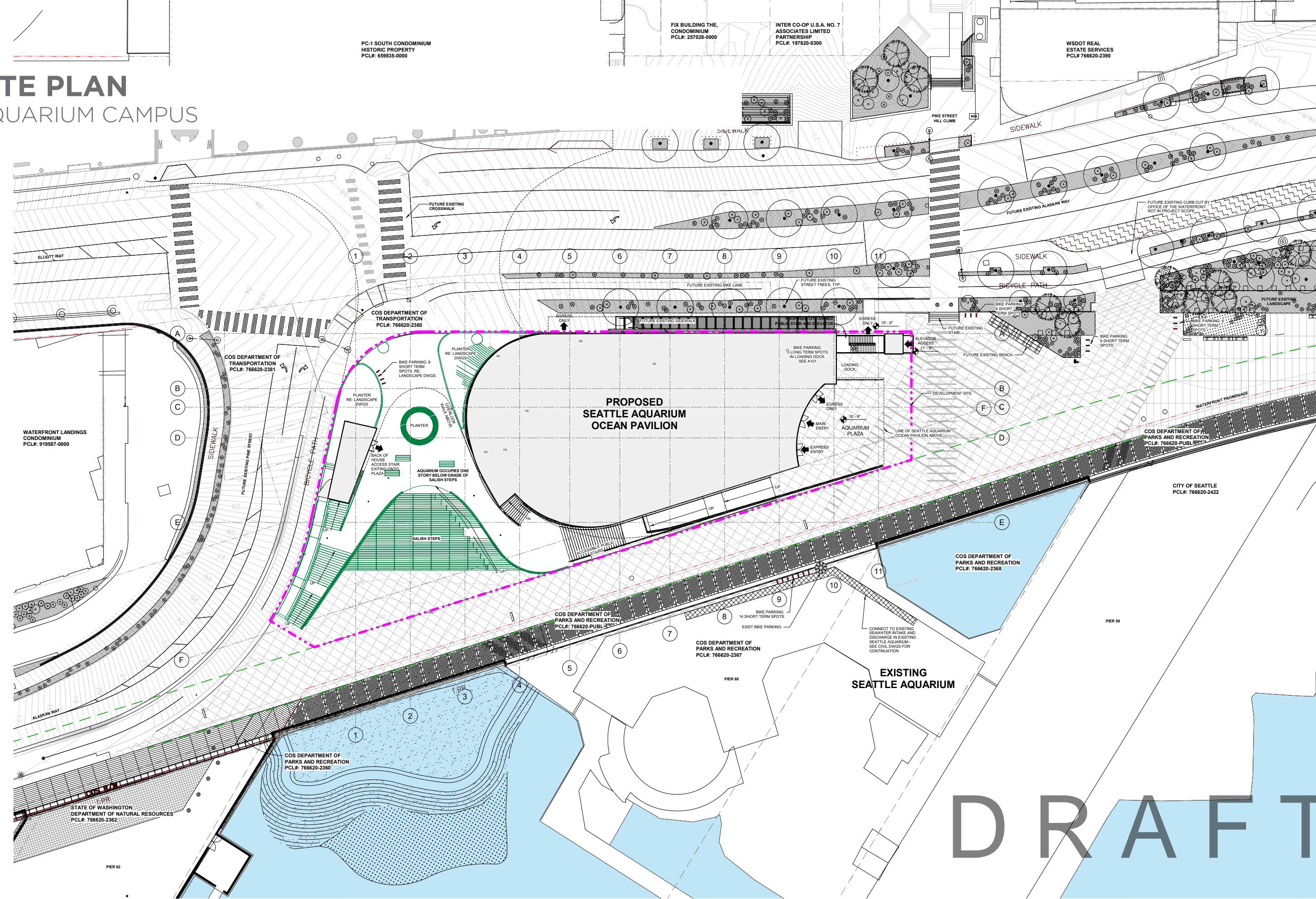
PIER 62

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# SITE PLAN

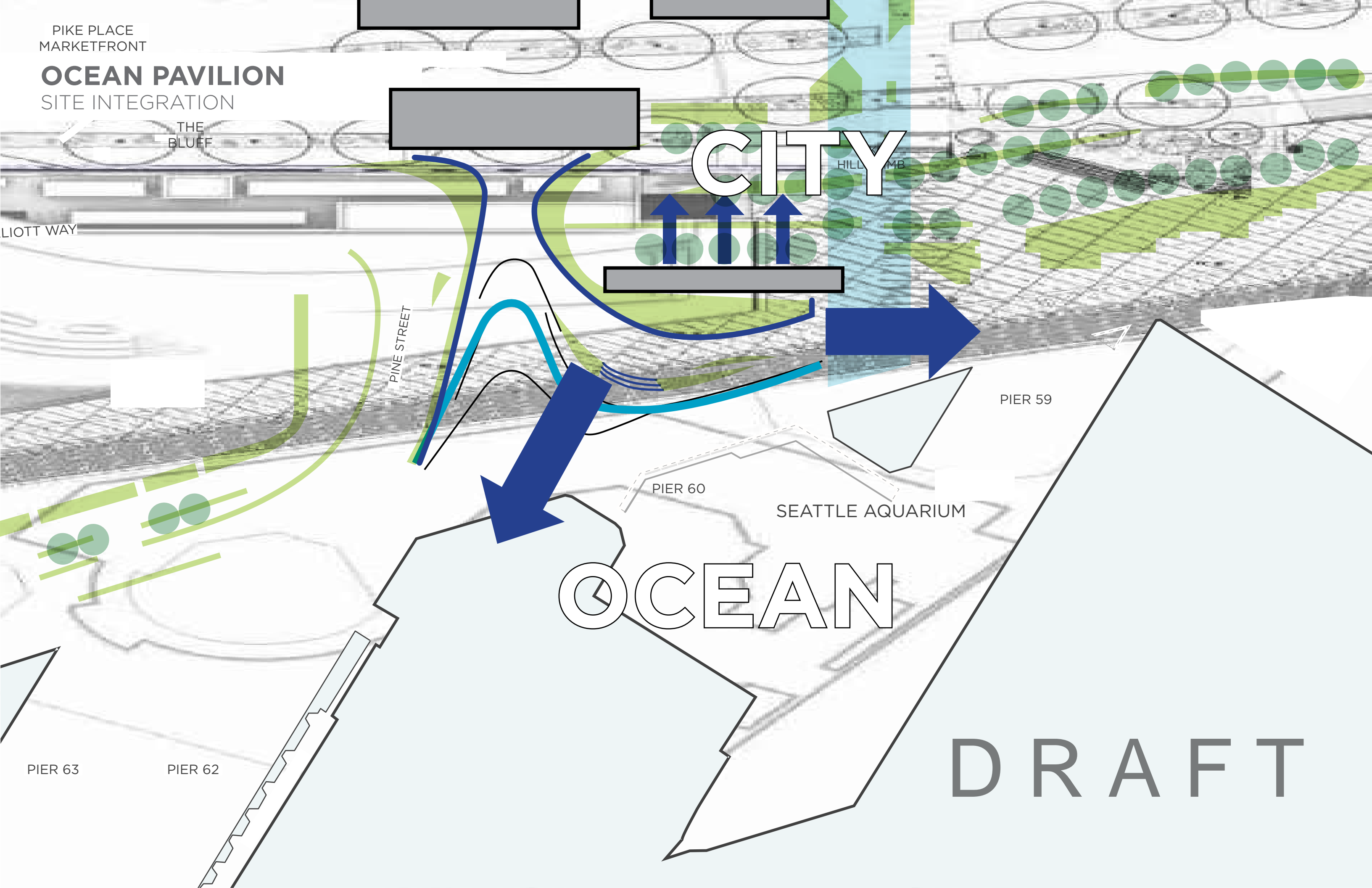
## AQUARIUM CAMPUS





PIKE PLACE  
MARKETFRONT

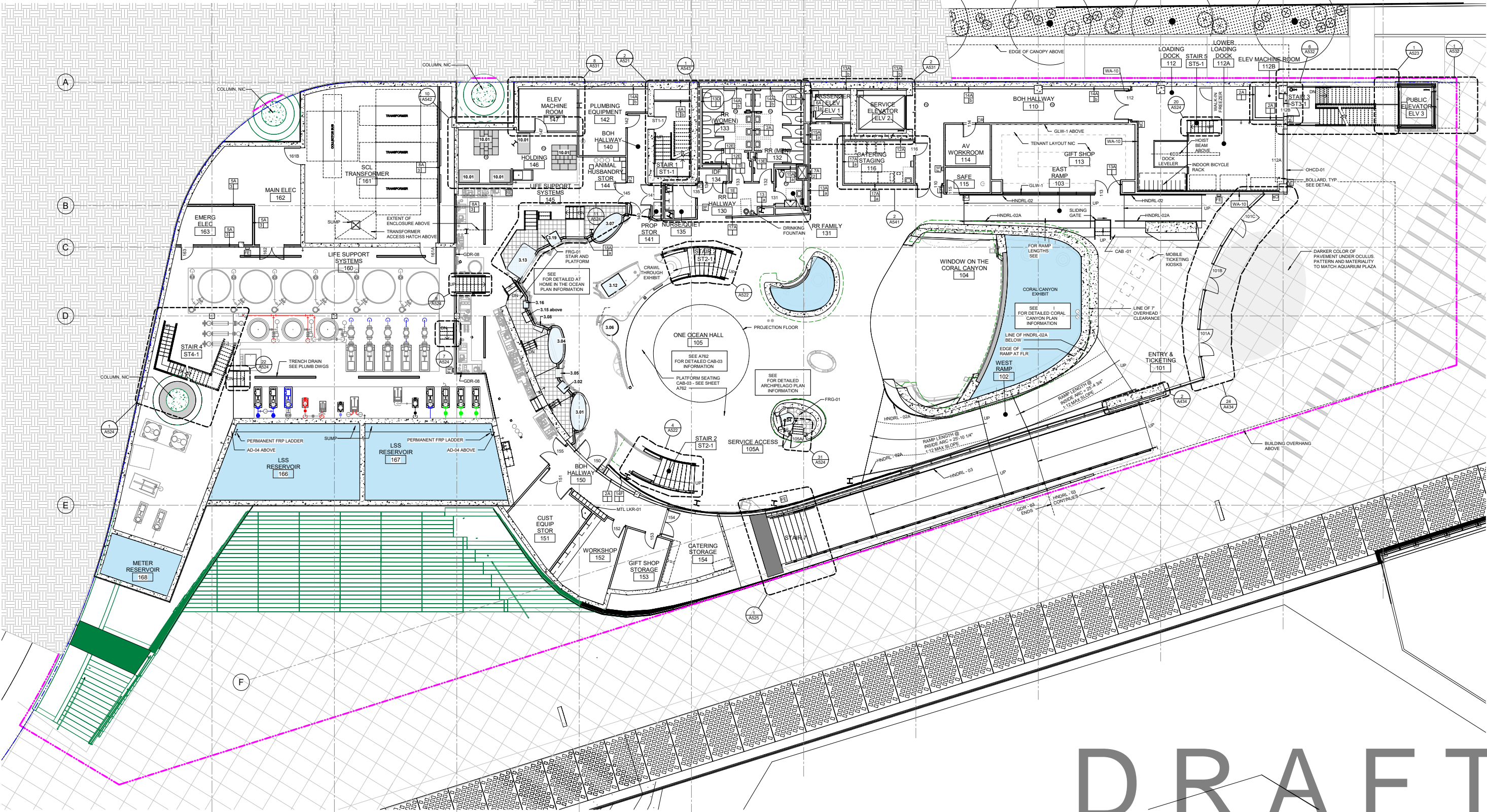
OCEAN PAVILION  
SITE INTEGRATION





# OCEAN PAVILION

## LEVEL 1 PLAN

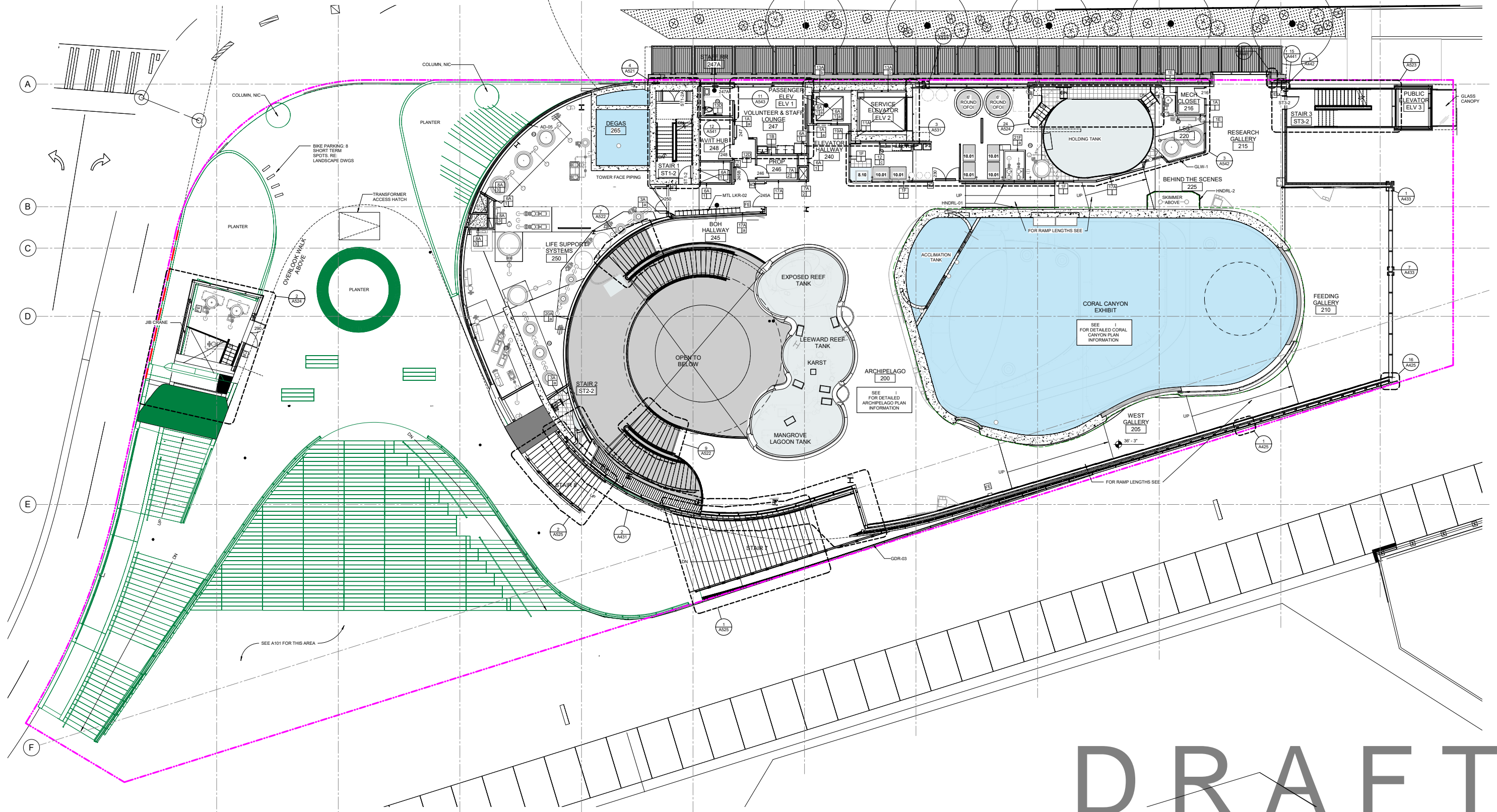


1 LEVEL 1  
A101 1/8" = 1'-0"



# OCEAN PAVILION

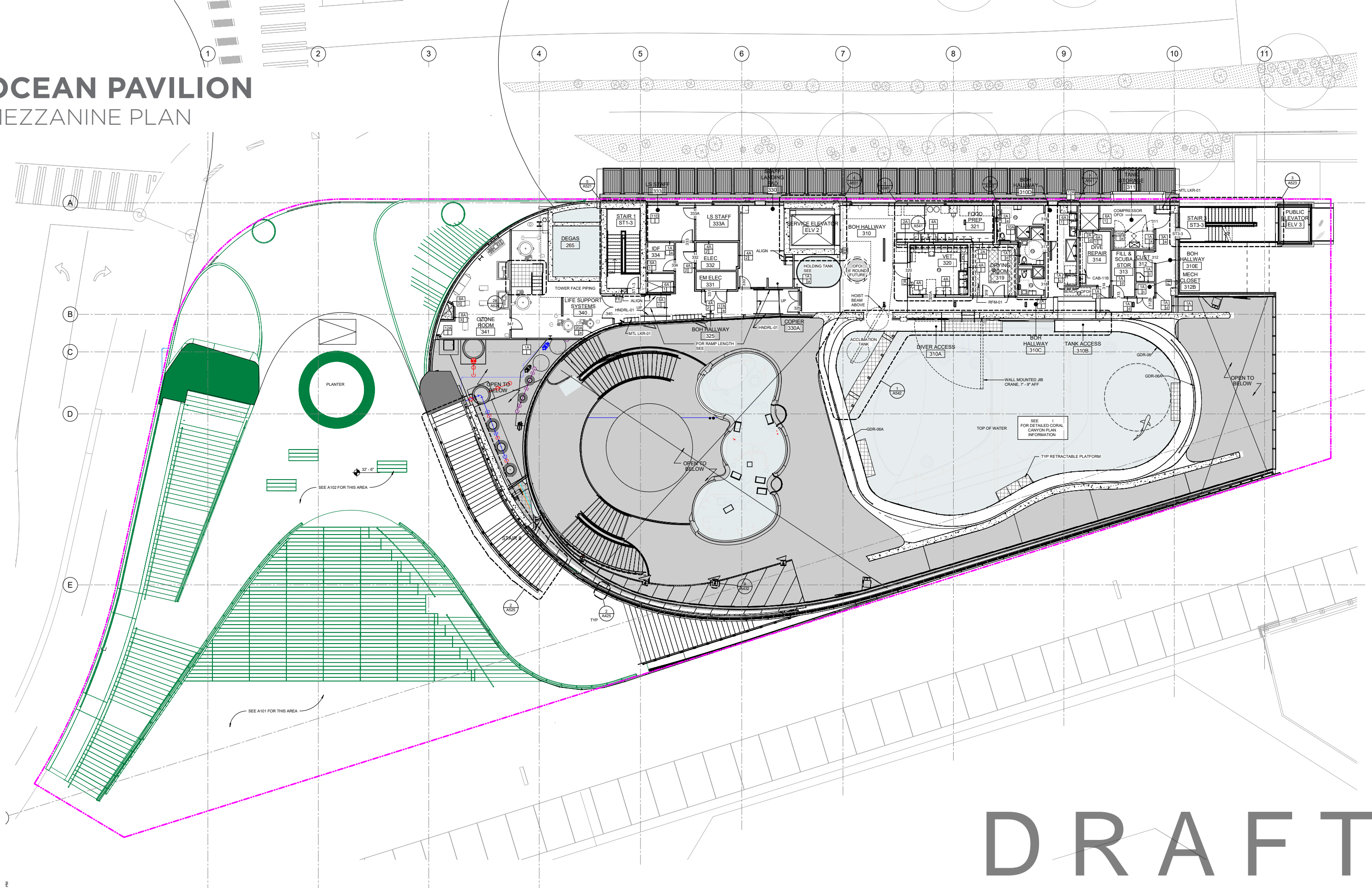
## LEVEL 2 PLAN



DRAFT



OCEAN PAVILION  
MEZZANINE PLAN

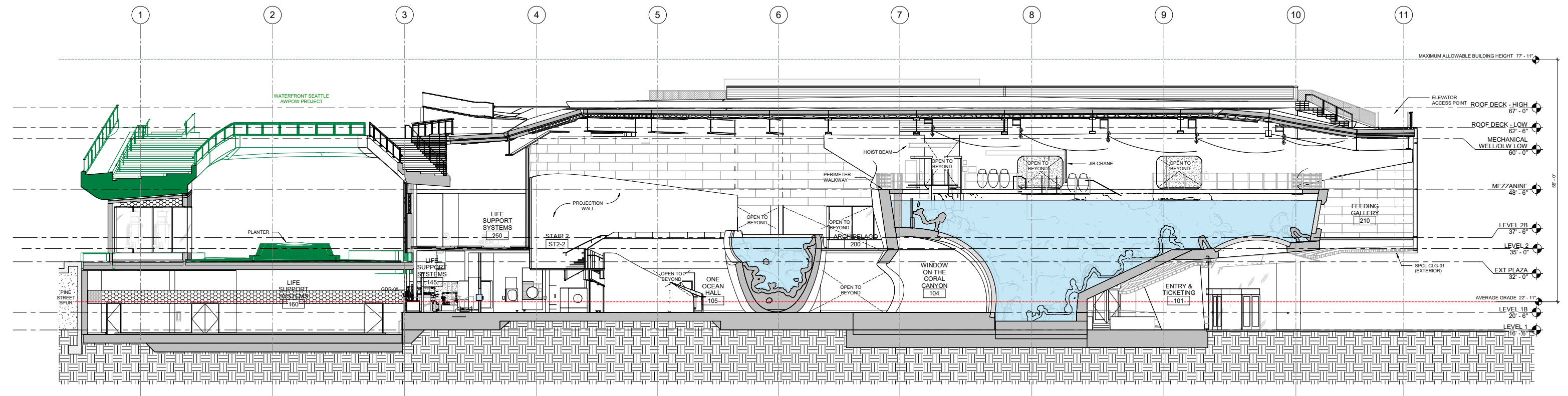


DRAFT



# OCEAN PAVILION

## SECTIONS



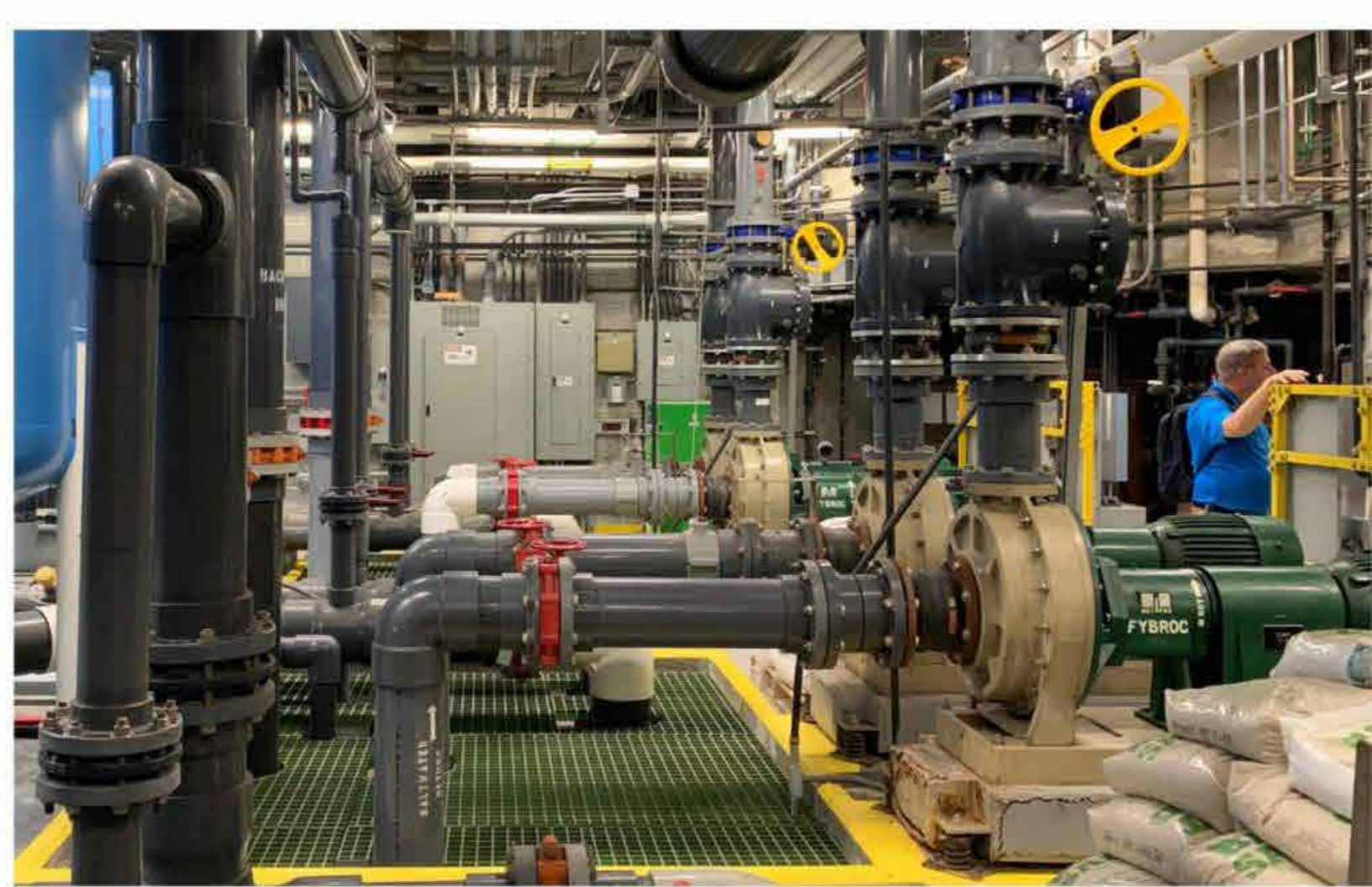
1 N-S SECTION FACING EAST  
A302 1/8" = 1'-0"

DRAFT





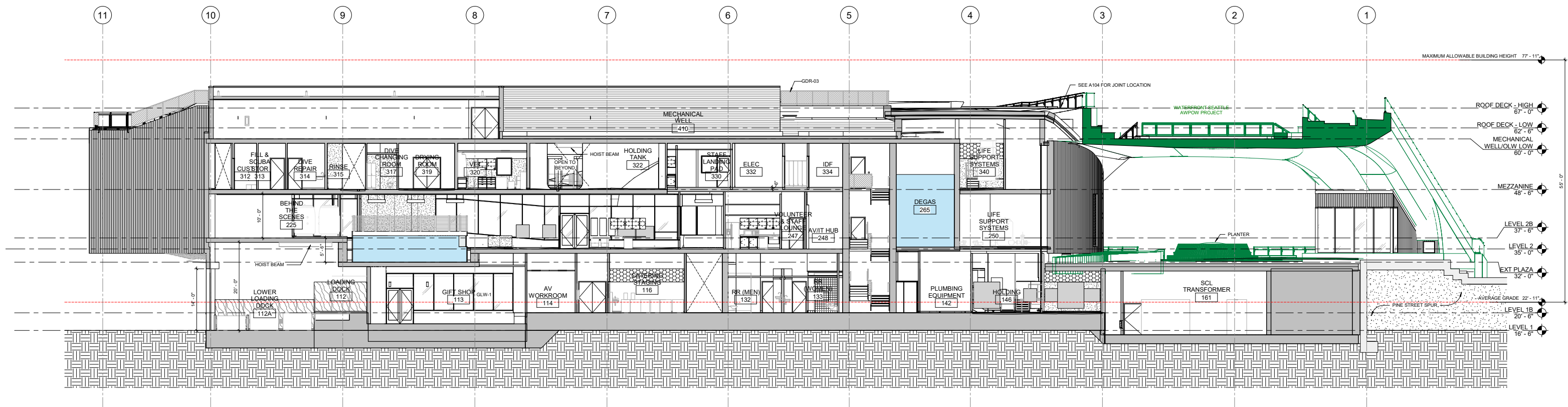




DRAFT



OCEAN PAVILION  
ANIMAL CARE



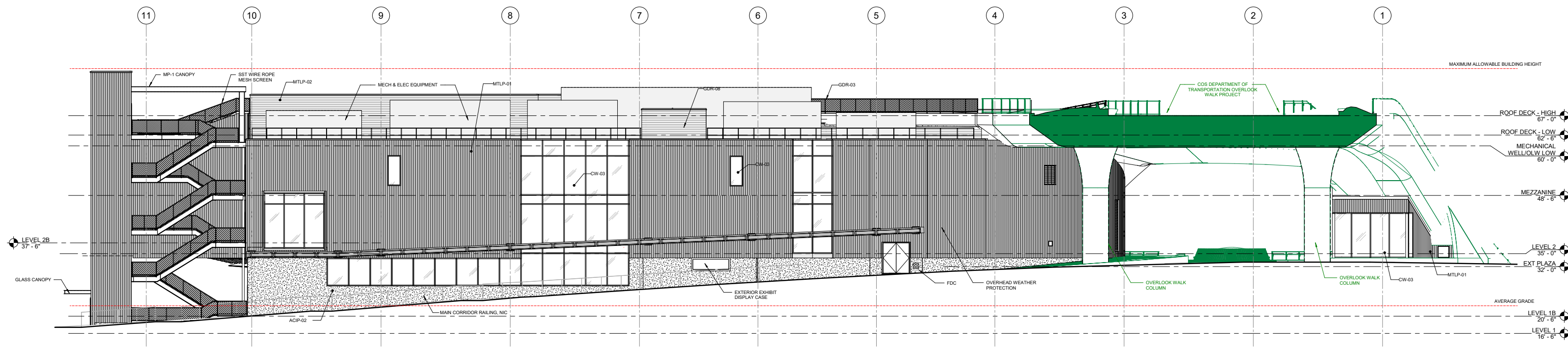
2 N-S SECTION FACING WEST  
A302 1/8" = 1'-0"

DRAFT



# OCEAN PAVILION

## EAST ELEVATION



1 EAST ELEVATION  
A201 1/8" = 1'-0"

DRAFT





DRAFT









59  
SEATTLE A

DRAFT



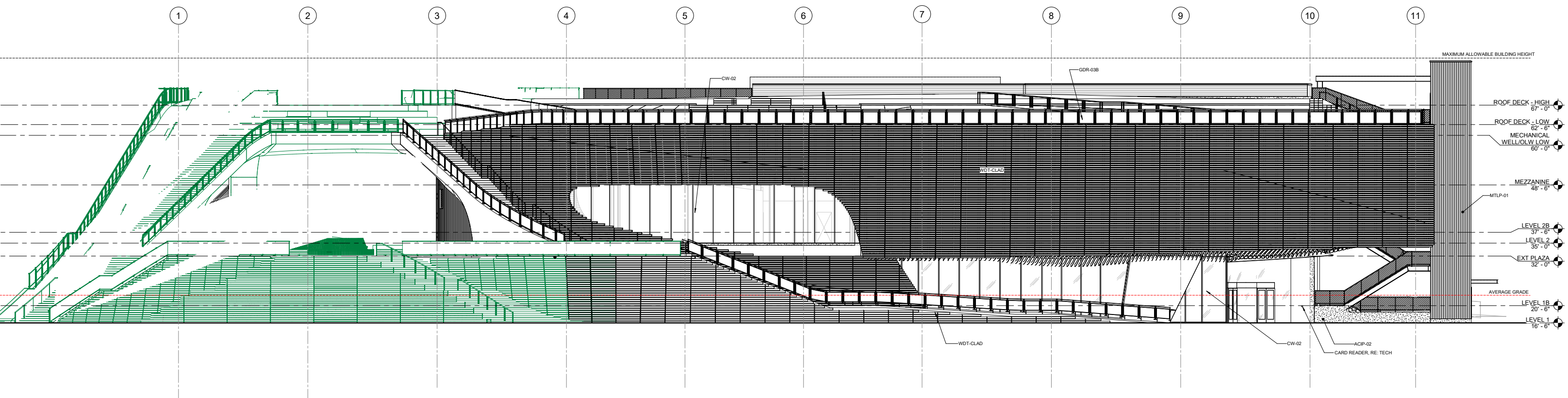








OCEAN PAVILION  
WEST ELEVATION



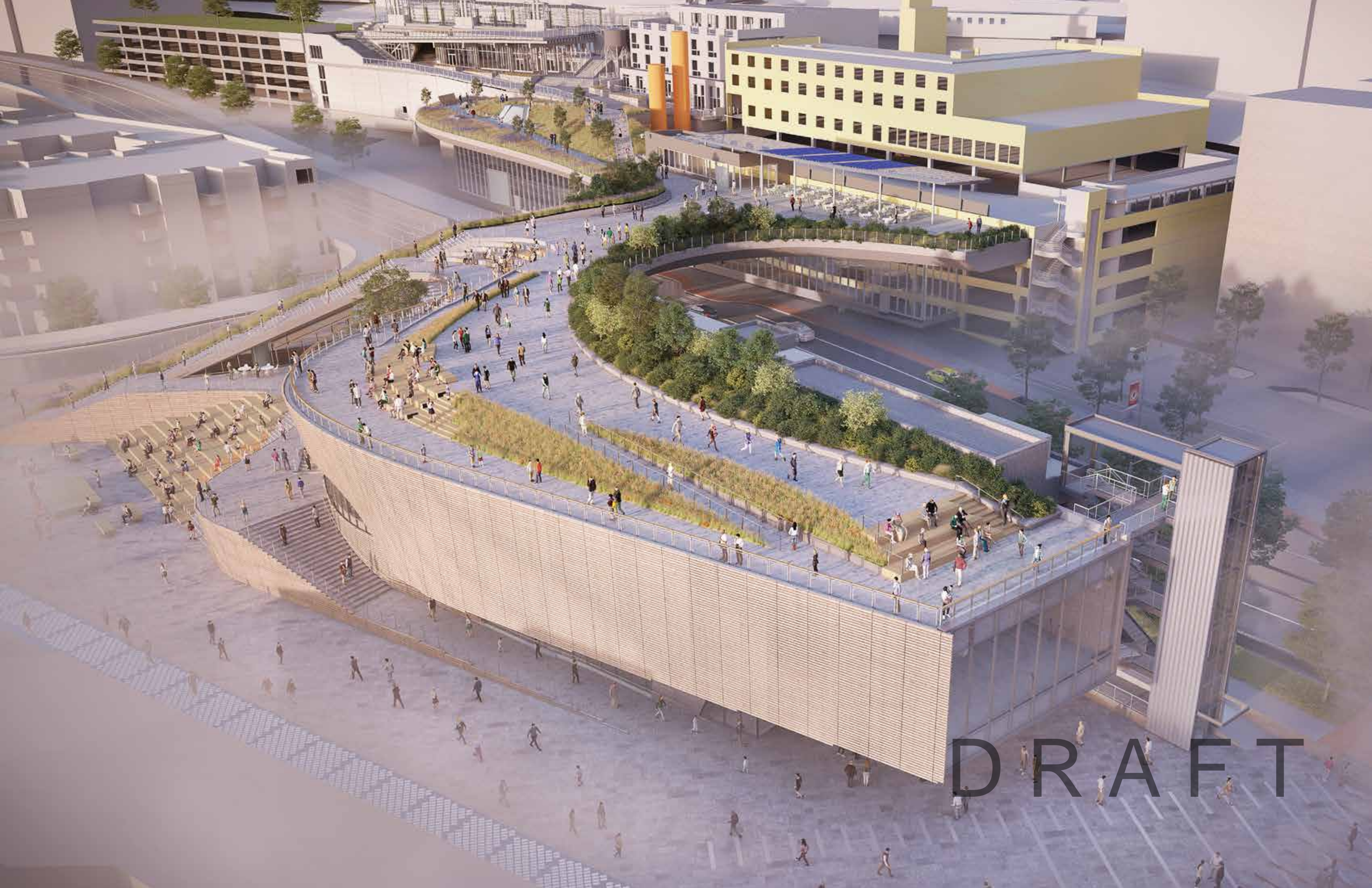
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SEATTLE AQUARIUM

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