

# DESIGN VISIONS

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## FORMER HATCHERY SITE

Site Description + Assessment

Team 1: Homing by Adam Carreau + Weicheng Li

Team 2: Confluence by Sophie Krause + Elijah Vantreese

## UNION BAY NATURAL AREA SITE

Site Description + Assessment

Team 3: Immersion by Nina Mross

Team 4: Motion of Nature by Jingjing Bu + Jiyoung Park

# FORMER HATCHERY SITE: DESCRIPTION AND ASSESMENT



Aerial view of south and east campus looking north. Nearby landmarks and their distance to the existing hatchery site is noted. Small fish icons represent the path of juvenile salmon heading out to the ocean, and large fish icons represent the deep water path of returning adults.



## EXISTING SITE CONDITIONS

The plan illustrates significant buildings, facility and transportation connections. The opaque masses are buildings indicated by the *2018 UW Seattle Campus Master Plan*.





## EXISTING SITE CONDITIONS

The image below indicates the various transportation systems present along the site. Photo locations and square footages of facilities are included.





## SITE PHOTOS

These photos show the current condition of the existing hatchery.



Figure 1. Rearing Channels



Figure 2. Rearing Pools



Figure 3. Raceway



Figure 4. Homing Pond



## SITE PHOTOS

These photos show the adjacent site context.



Figure 5. Fish Ladder Connecting to Portage Bay



Figure 6. Seawall



Figure 7. Fish Ladder



Figure 8. Path from the homing pond



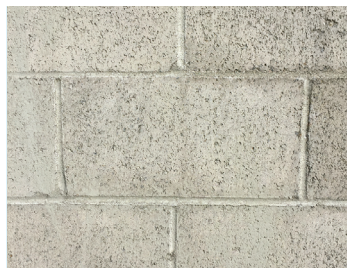
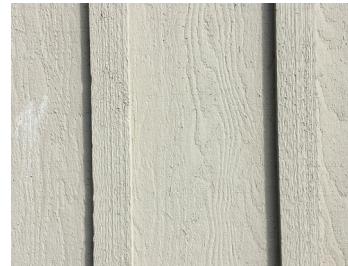
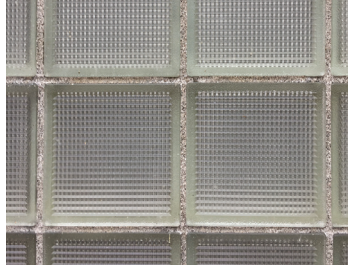
Figure 9. Opening for the fish ladder from Portage Bay



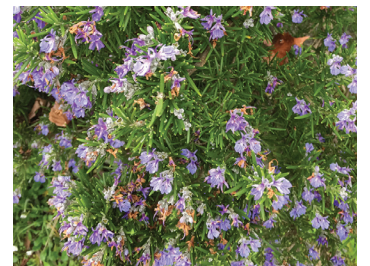
## SITE MATERIALS

The images of the site materials are ordered from hard to soft.

Hard



Soft









# TEAM I: HOMING

BY ADAM CARREAU + WEICHENG LI

## DESCRIPTION

Our design was driven by the idea of natal homing; a characteristic in which adult animals return to their place of birth to reproduce. The Portage Bay site was the birthplace of the Aquatic Research Center in the early 60's so it is fitting that the center should return to that portion of campus. Furthermore, stretching this idea allowed us to envision a center that would preserve the existing building and the site materials, while maximizing the building square footage on its current footprint. The additional square footage gained by extending the building four stories upward, will allow 90% of the SAFs faculty and student spaces to be relocated to this building. We believe incorporating phasing will allow for immediate implementation, while enhancing connections to the facilities and waterfront for all. The introduction of state of the art flexible indoor research rooms, raceways and crowding mechanisms will provide the researchers with the necessary equipment to enhance aquatic species rearing techniques while lending an abundance of space for research and community outreach. The envisioned homing pond structure creates an ideal environment for retuning salmon and smolts soon to depart on their journey to the ocean, while being a flexible space, allowing for community outreach programs and activities, to enhance student and faculty life on campus.

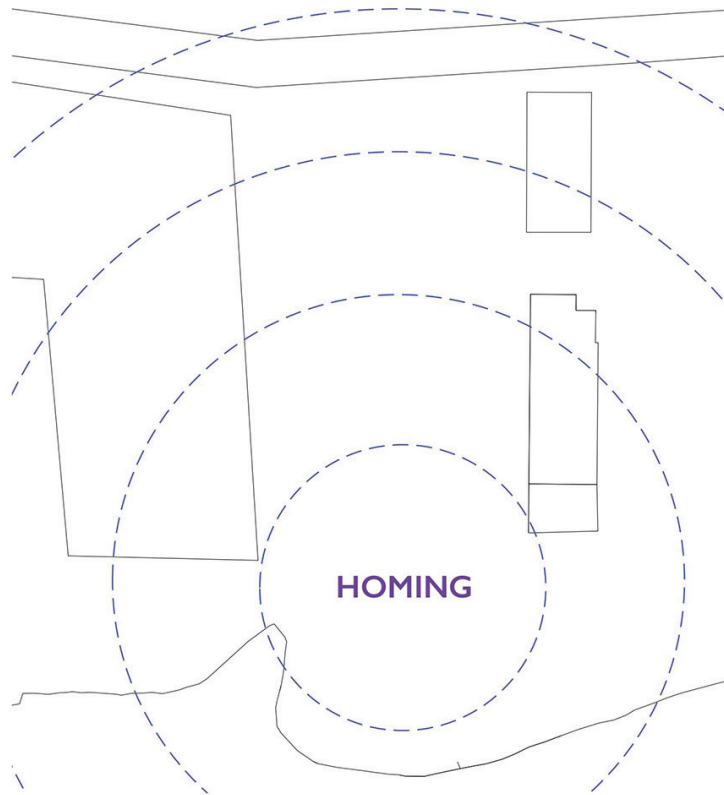
## GOALS

- Project phasing for immediate implementation
- Preserve existing building and site materials
- Maximize building square footage on current footprint
- Enhance connections between the facility and visitors
- Enhance connections to the waterfront
- Increase amenity space for public and UW users



## DESIGN INSPIRATION

Our inspiration was drawn from the salmon's natal homing ability. Much like salmon returning to their stream of origin, we felt the ARC should return home to its original location on campus.

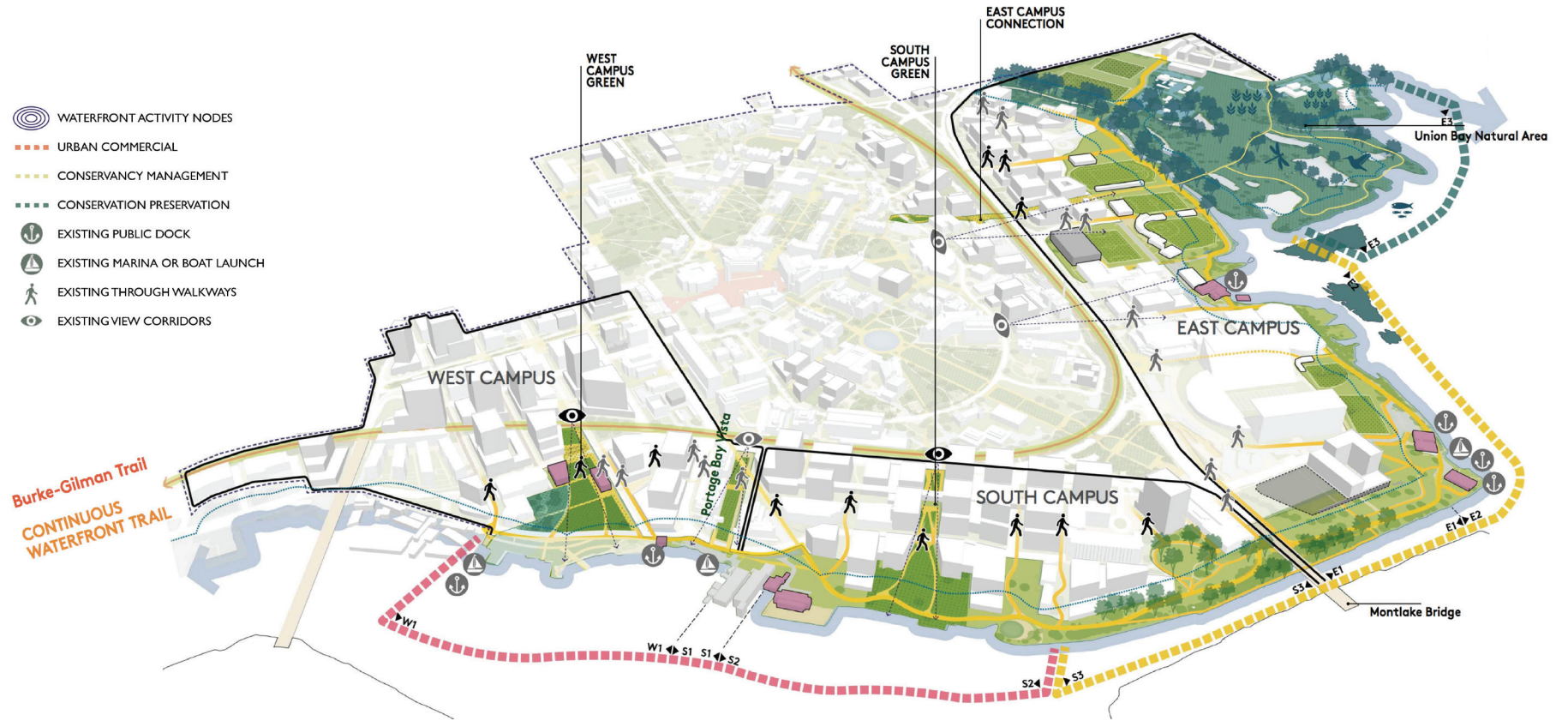


**“People tend to gravitate towards the homing pond which resulted in unintentional outreach.”  
-Jon Wittouck**

**“I always enjoyed going to the homing pond and watching the salmon. It feels like we are missing something from campus now.”  
-Iain Robertson**

# SHORELINE CONNECTIONS

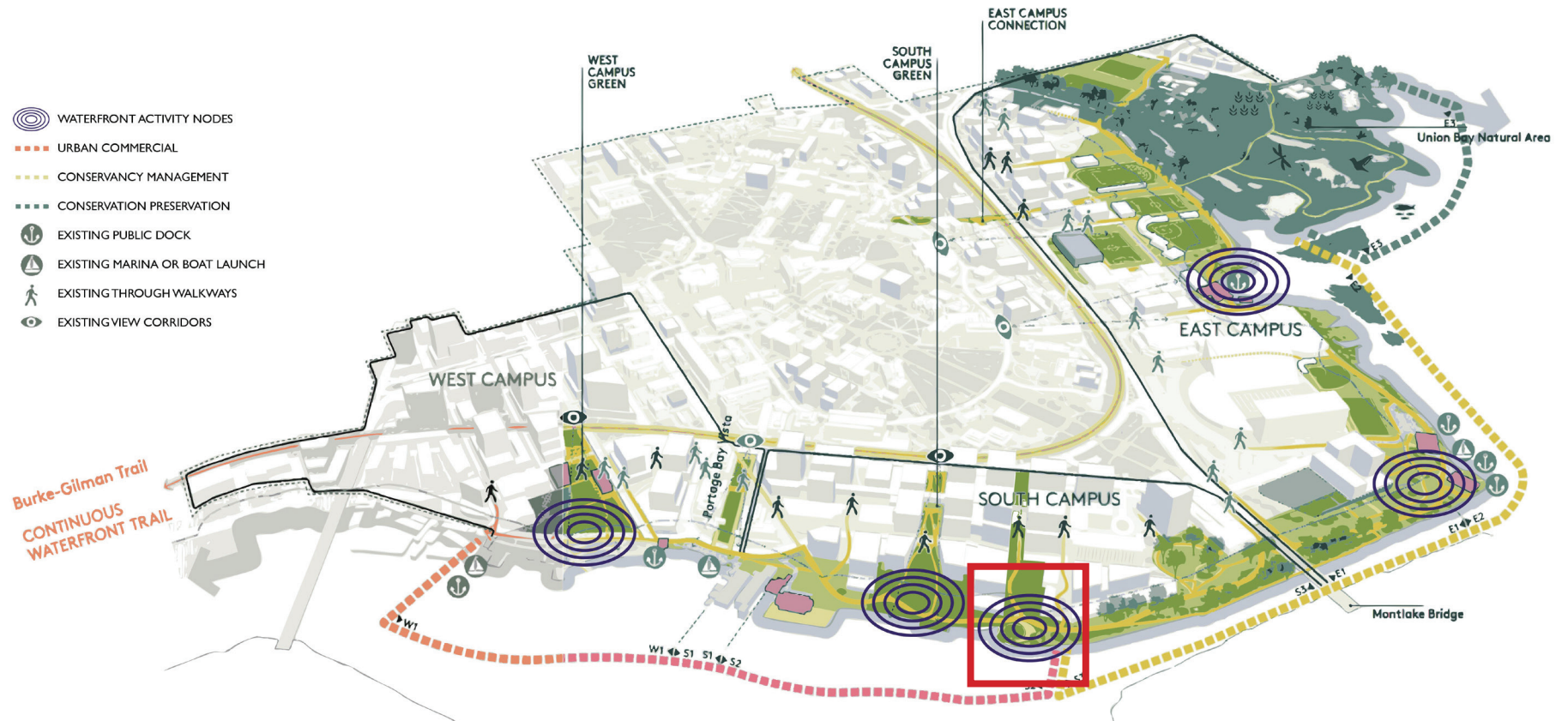
From the 2018 UW Seattle Campus Master Plan





## PROPOSED ACTIVITY NODES

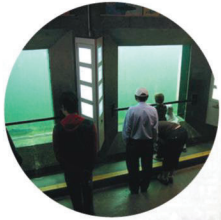
Along the waterfront trail, the 2018 UW Seattle Campus Master Plan proposes a series of activity nodes. The former hatchery site is one of these nodes.



## CITY DESTINATIONS

The ARC could become a destination for students and faculty as well as a tourist destination, much like the Ballard Locks or Pike Place Market.

Ballard Locks



Union Bay  
Natural Area



UW Campus



Portage Bay  
Park



Light Link Rail

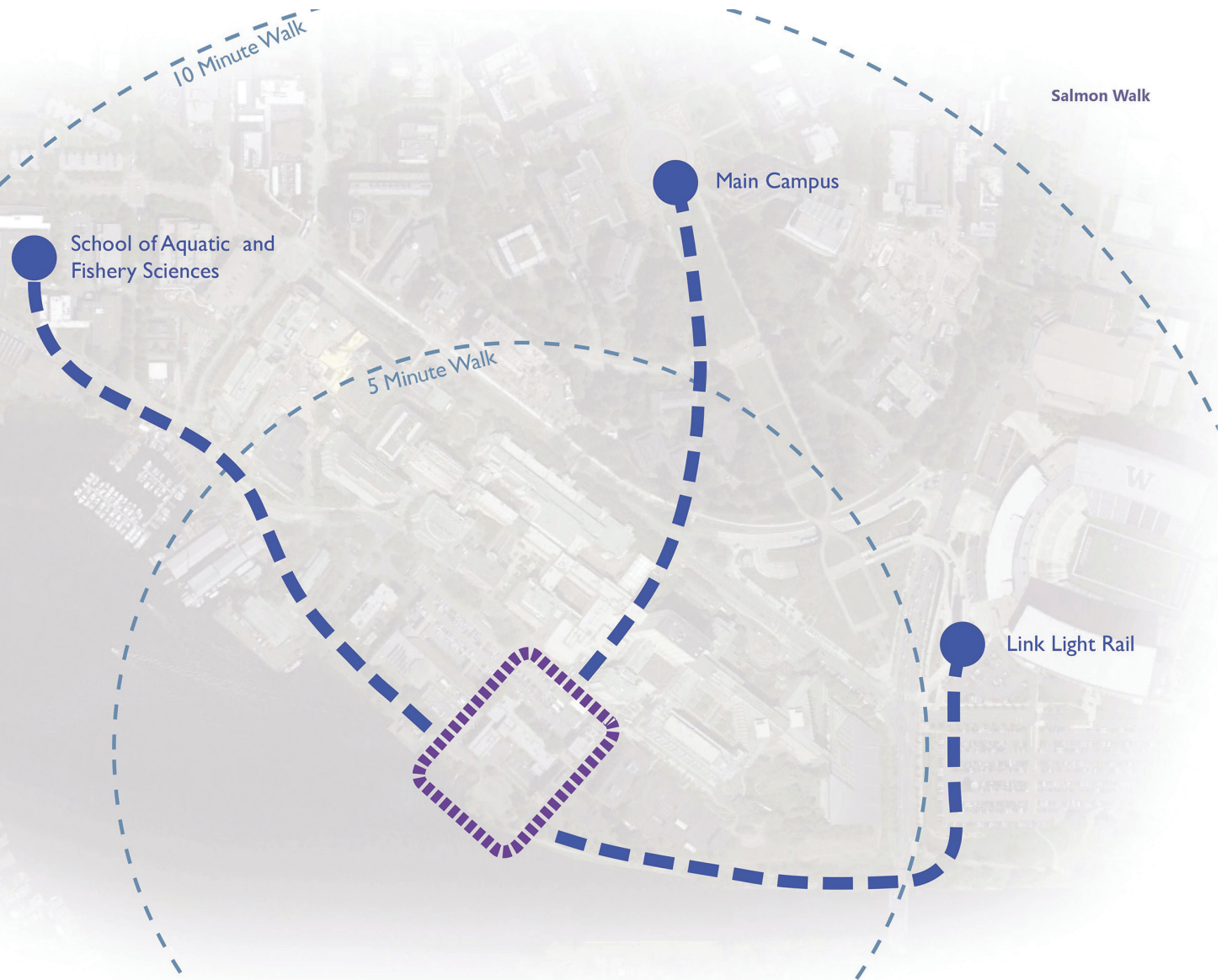
Pike Place Market





## INTERPRETATION TRAILS

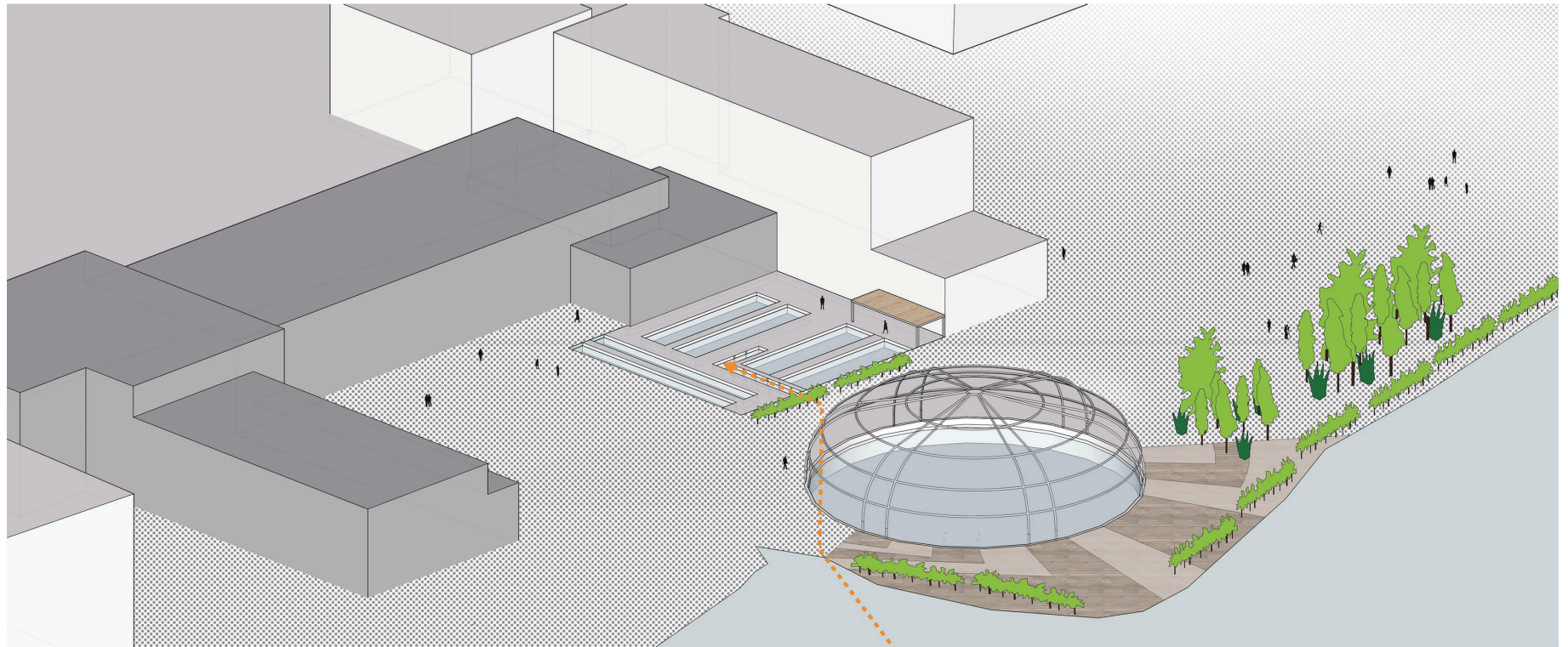
We envisioned interpretive elements along the waterfront trail and into main campus, illustrating SAFS history, the salmon life cycle, the altered hydrology along the shipping canal, and First Nations' histories.





## PHASE I

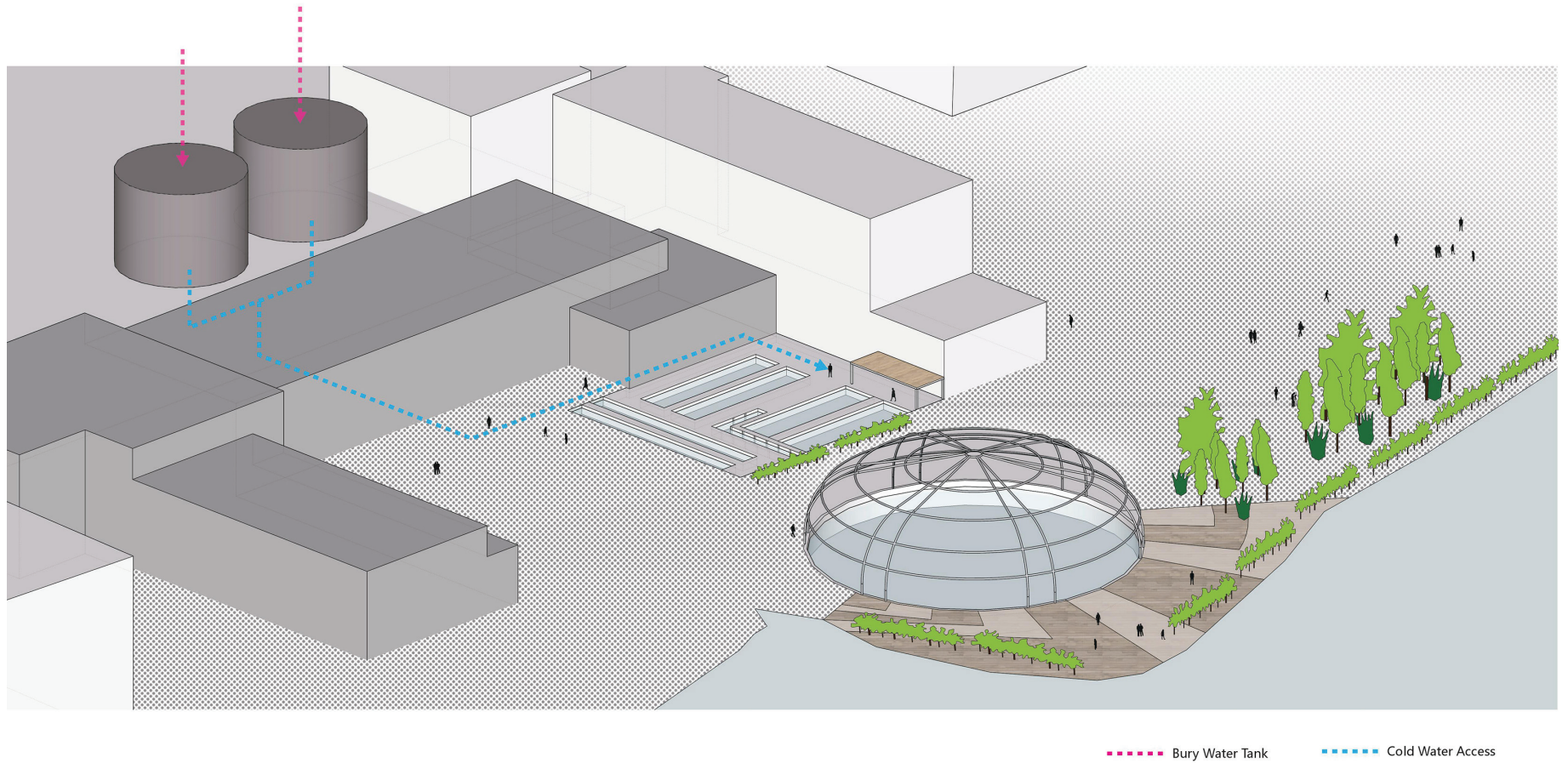
Phase 1 is focused on repairing and reinstalling the facilities so that the salmon run can start again as soon as possible. At the same time, the waterfront deck and homing pond are built up.



Existing (Concrete) Existing (Brick) Fish Come Back

## PHASE 2

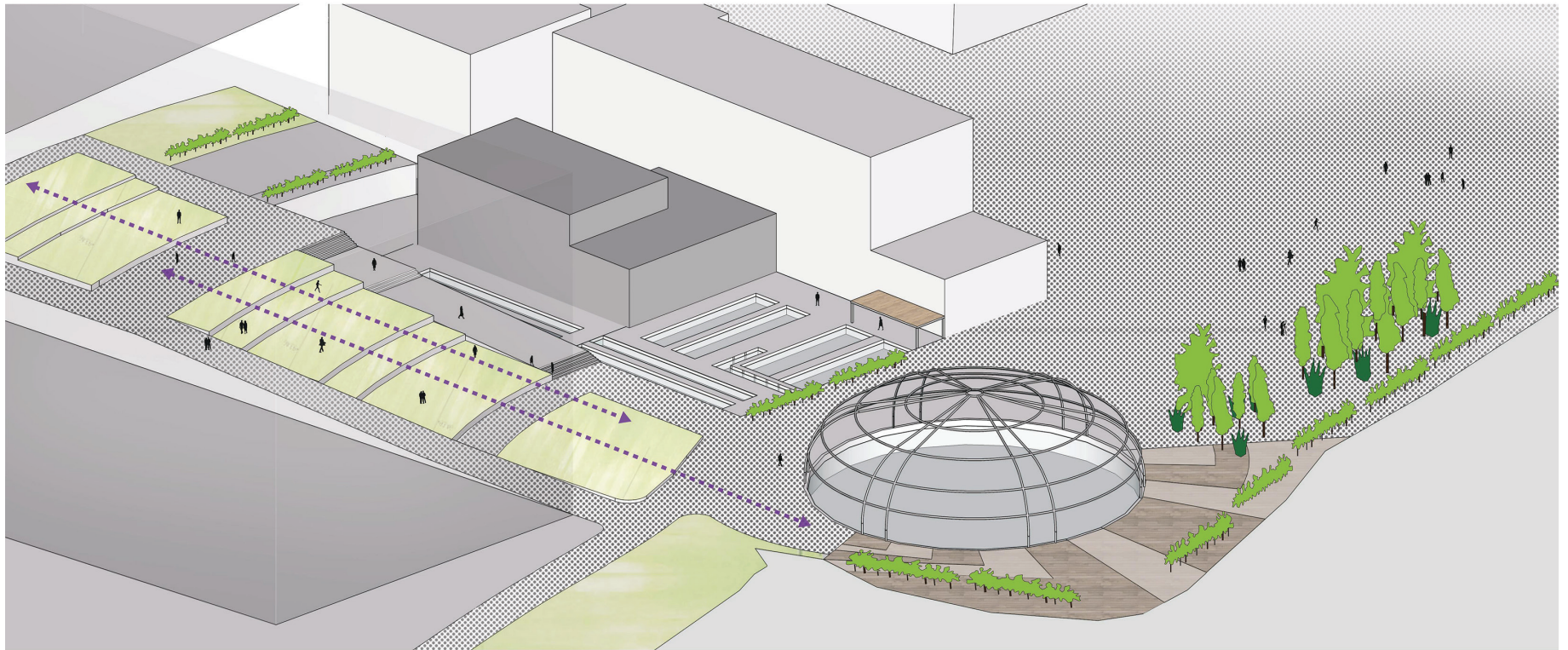
Phase 2 is about installing cold water storage and getting cold water to facilities whenever needed for research and habitat.





### PHASE 3

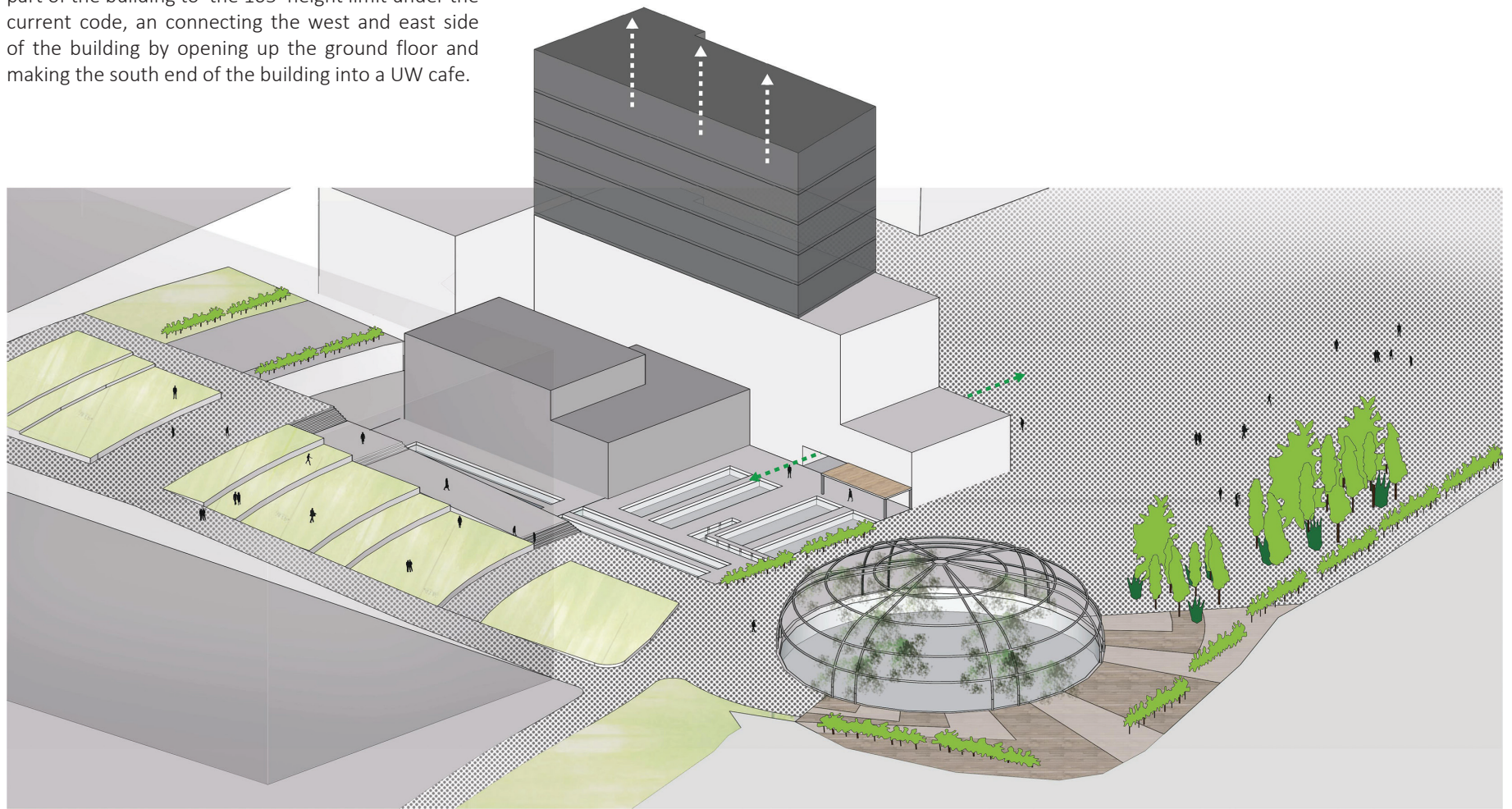
Phase 3 will connect the south campus with the central campus, following the goals of the *2018 UW Seattle Campus Master Plan*. The landscape is shaped as a human ladder, matching the fish ladder theme.



■■■■■ Connect with Center Campus

## PHASE 4

Phase 4 maximizes on-site square footage by raising part of the building to the 105' height limit under the current code, and connecting the west and east side of the building by opening up the ground floor and making the south end of the building into a UW cafe.

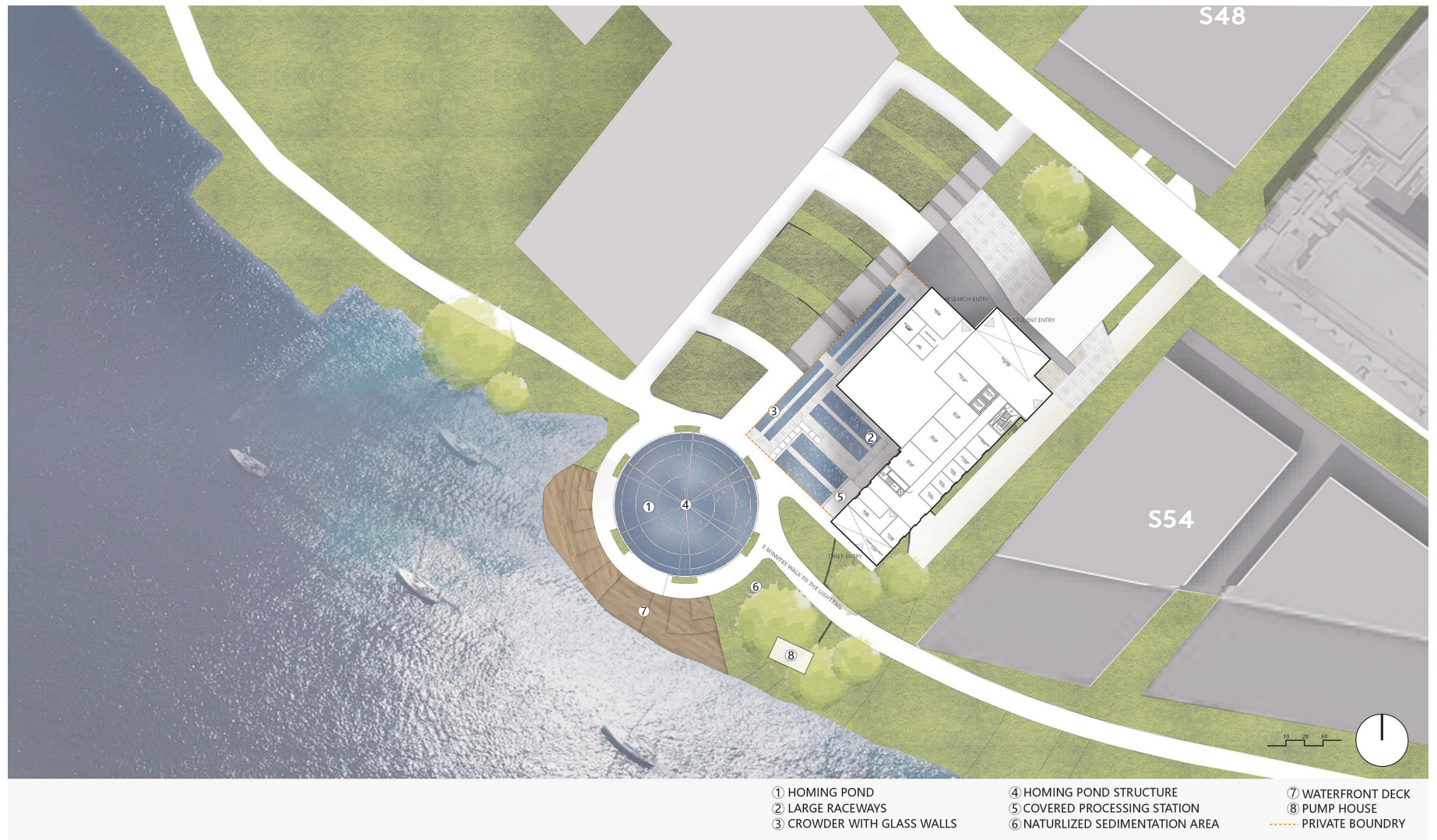


----- Maximize Square Footage      - - - - - Connect West-East



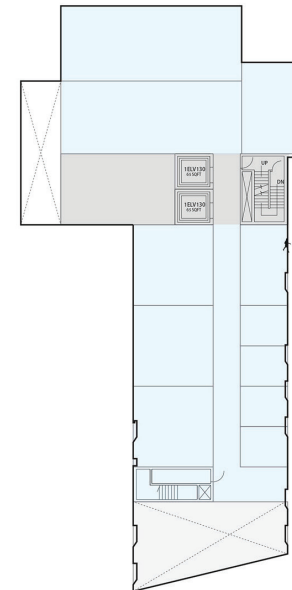
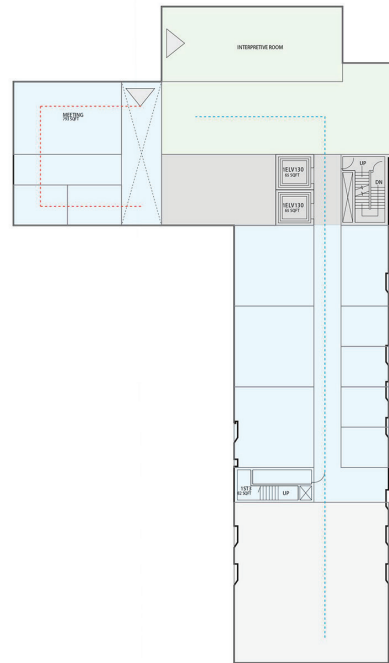
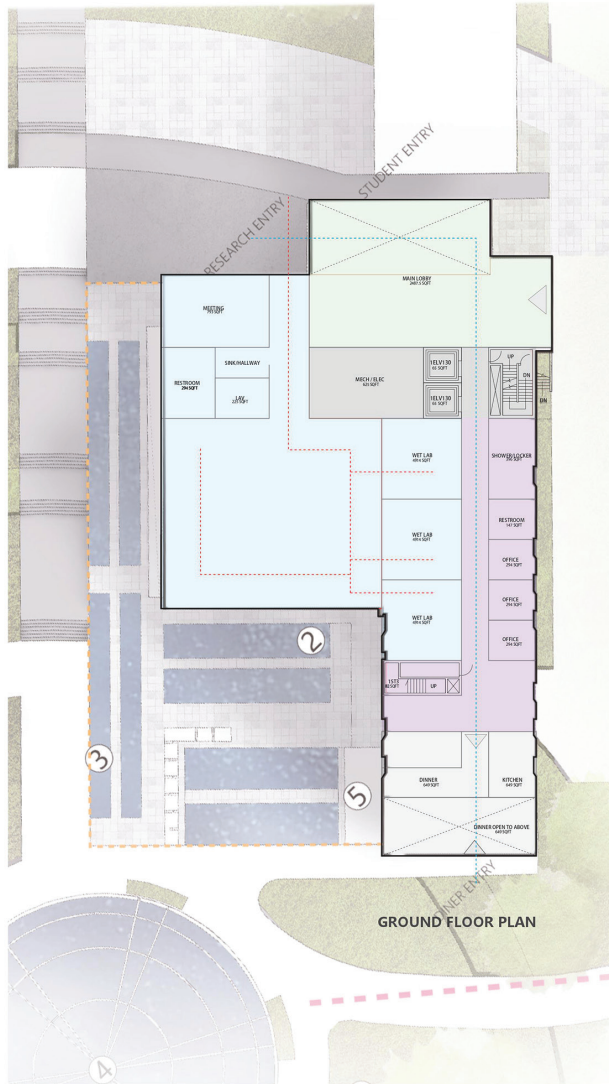
# SITE PLAN

Adapted from the 2018 UW Seattle Campus Master Plan.



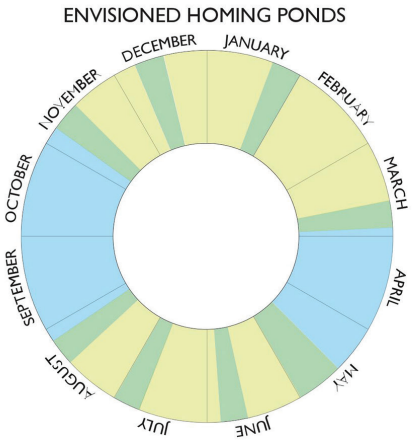
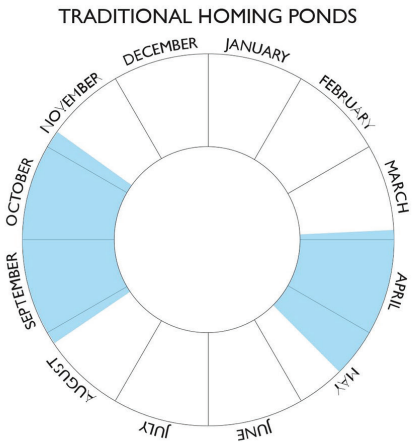
# BUILDING FLOOR PLANS

Ground Floor; Floors 2-4; Floors 5-8

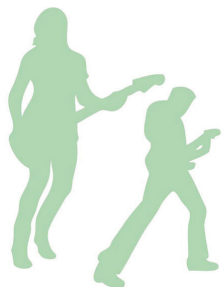
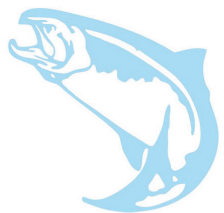




# HOMING POND SEASONAL USAGE



- FISH REARING AND SPAWNING
- EVENING EVENT SPACE
- COMMUNITY AMENITY



# SITE SECTION

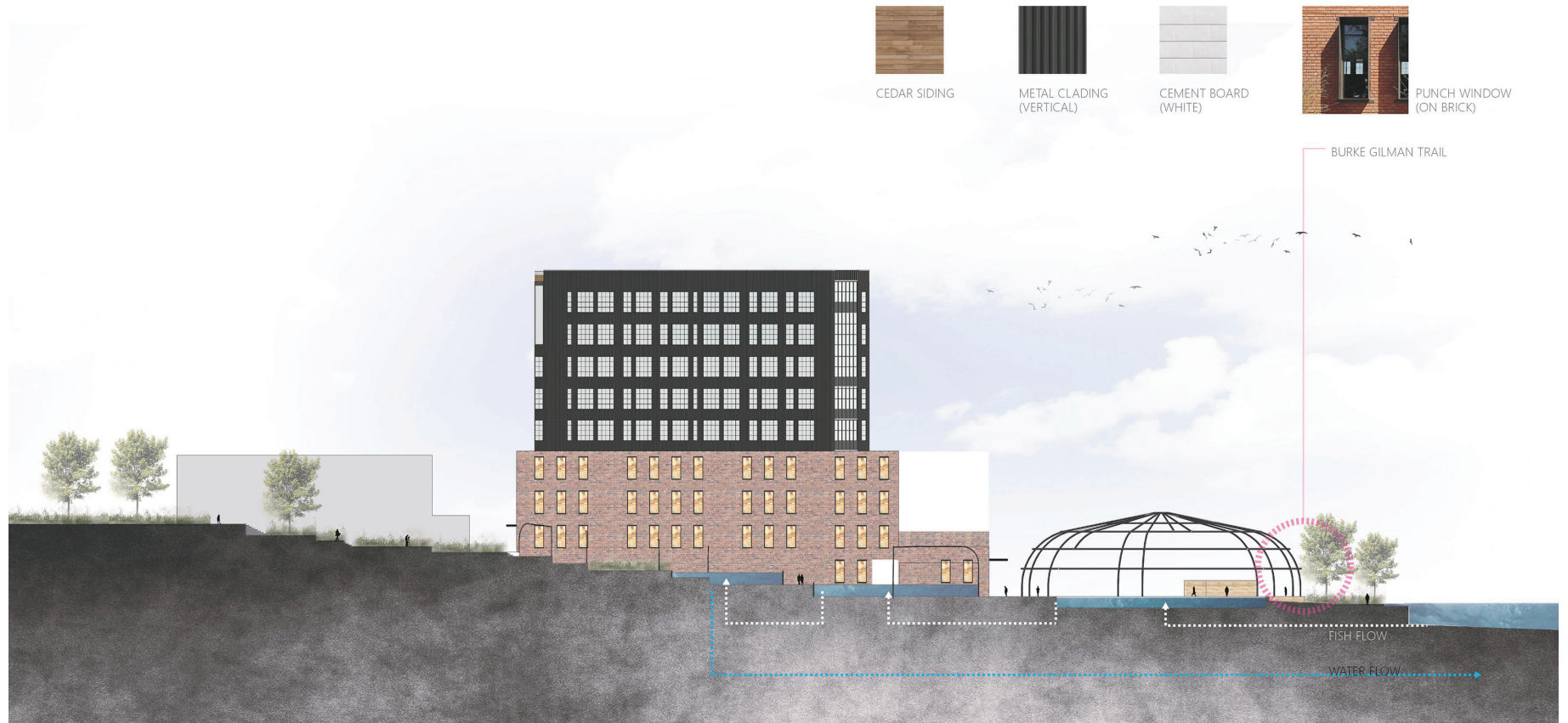
Through building looking east.





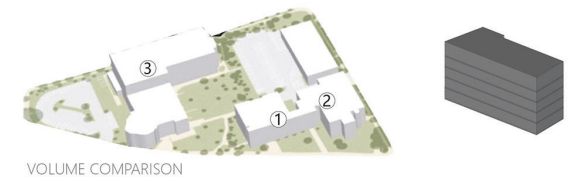
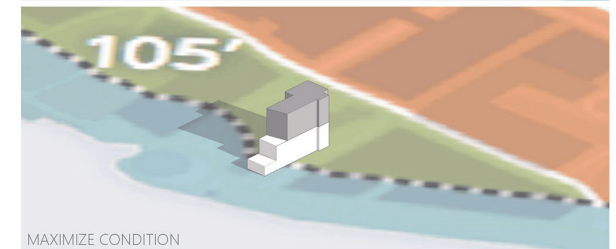
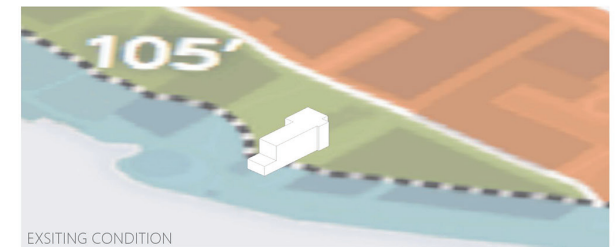
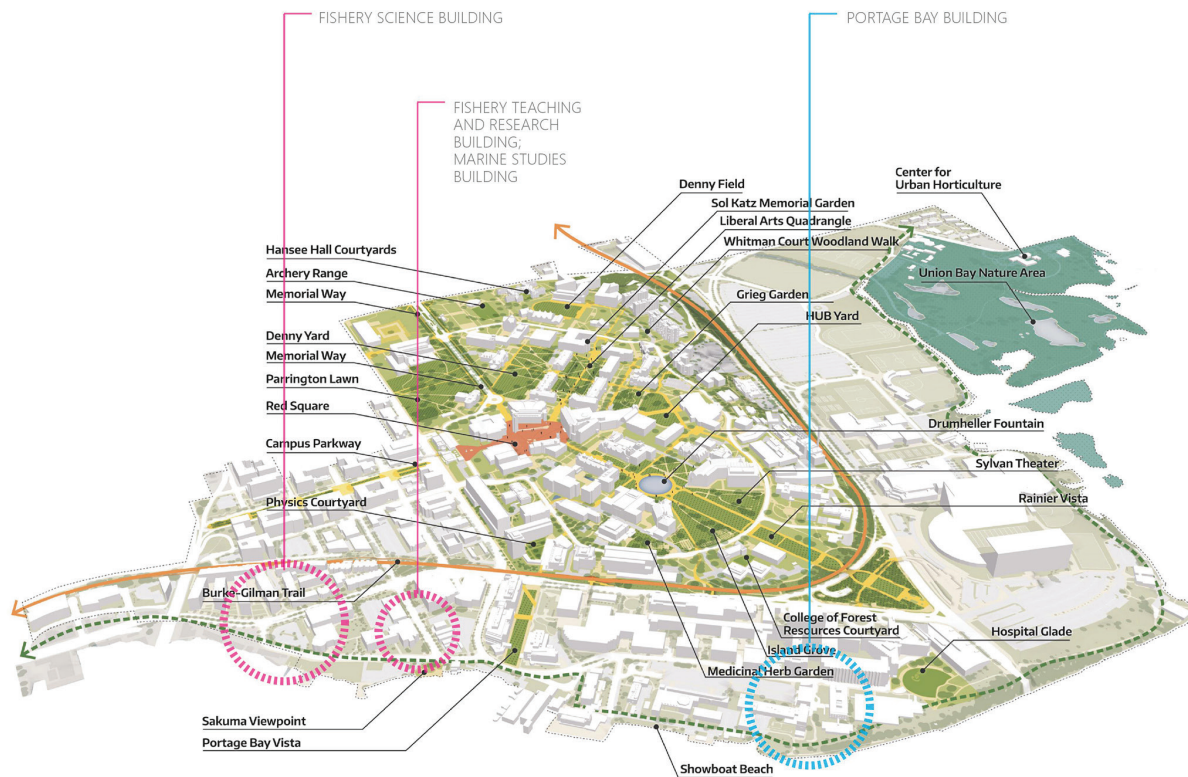
# SITE SECTION

Through South Campus Green looking east.



## BUILDING CODE + VOLUME ANALYSIS

The Fishery Teaching and Research Building and the Marine Studies Building will be demolished when the West Campus Green is built, resulting in the loss of about 35,800 sf for SAFS. By maximizing building square footage (approximately 32,500 sf) with the proposed Portage Bay Building renovation the ARC, could replace up to 91% of the square footage.

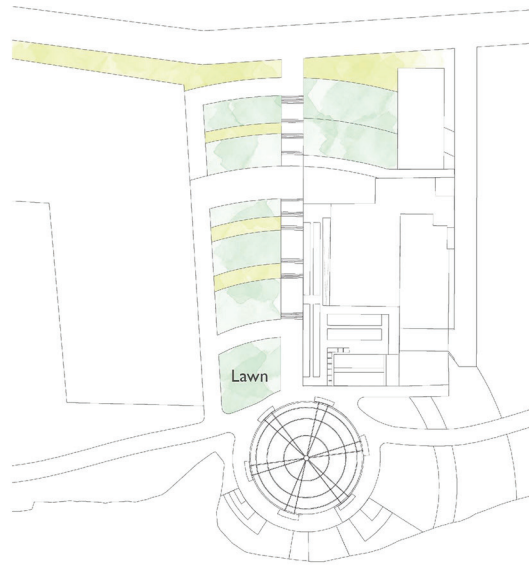


- Lost Square Footage:  
 ① Fisheries Teaching and Research Building: 24,141 Sf  
 ② Marine Studies Building: 11,627 Sf  
 ③ Fishery Science Building: 25,200 Sf  
 Portage Bay Building: 8,330 Sf  
 Total: 69,298 Sf

- Gained Square Footage: 6,500 Sq. Ft. Per Floor  
 - Gained Floor: 5  
 - Gained Total Square Footage: 32,500 Sq.Ft.  
 (46.9% of Lost Square Footage)



# OPEN SPACE PLANTING PLAN



## Trees



*Cercis canadensis*  
Eastern Redbud



*Fraxinus oxycarpa* 'Raywood'  
Raywood Ash

## Shrubs & Perennials



*Lavandula intermedia* 'Grosso'  
Fat Bud French Lavender



*Delphinium menziesii*  
Menzies' Larkspur



*Eriophyllum lanatum*  
Oregon Sunshine



*Lupinus latifolius*  
Broadleaf Lupine

## Biofiltration



*Camassia quamash*  
Common Camas



*Carex abnupta*  
Slough Sedge

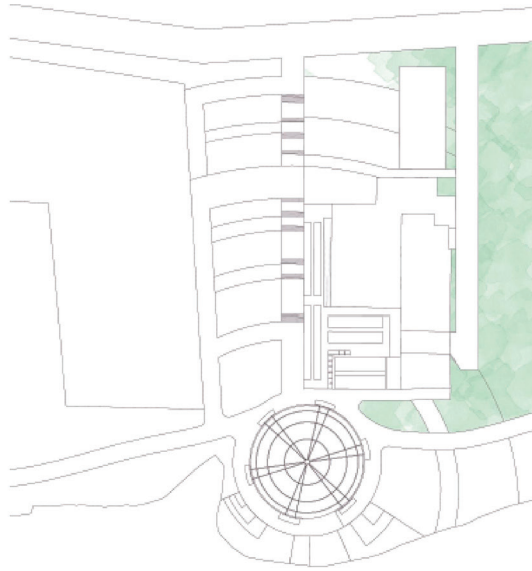


*Carex stipata*  
Awlfruit Sedge

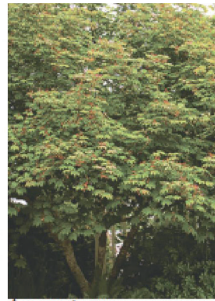


*Rubus spectabilis*  
Salmonberry

# FORESTED PLANTING PLAN



## Trees



*Acer circinatum*  
Vine Maple



*Chamaecyparis nootkatensis*  
Alaska Cedar



*Cornus 'Eddie's White Wonder'*  
Eddie's W.W. Dogwood



*Populus tremuloides*  
Quaking Aspen

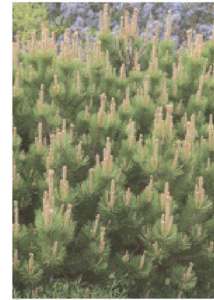
## Shrubs & Perennials



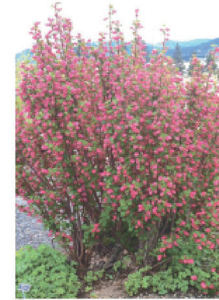
*Cornus stolonifera*  
Redosier Dogwood



*Holodiscus discolor*  
Oceanspray



*Pinus mugo*  
Mugo Pine



*Ribes sanguineum*  
Flowering Currant

## Biofiltration



*Gynocarpium dryopteris*  
Oak Fern



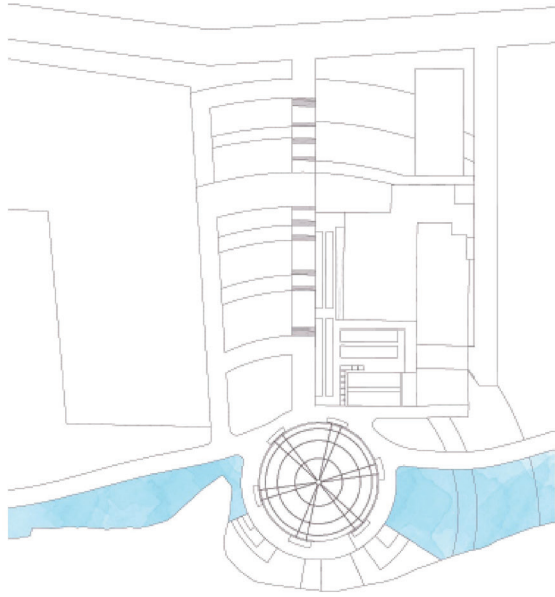
*Lamprocapnos spectabilis*  
Bleeding Heart



*Polemonium foliosissimum*  
Jacob's Ladder



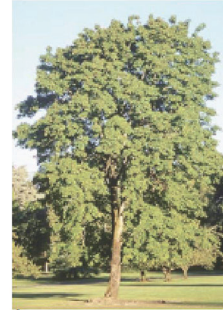
# WATERFRONT PLANTING PLAN



## Trees



*Acer circinatum*  
Vine Maple



*Acer truncatum*  
Bigleaf Maple



*Alnus rubra*  
Red Alder

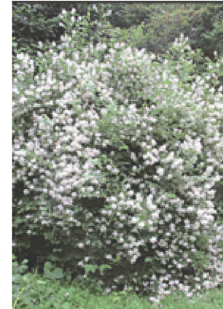


*Salix lucida*  
Pacific Willow

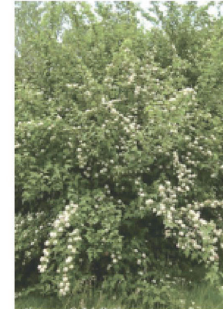
## Shrubs



*Cornus stolonifera*  
Redosier Dogwood



*Philadelphus lewisii*  
Mock Orange

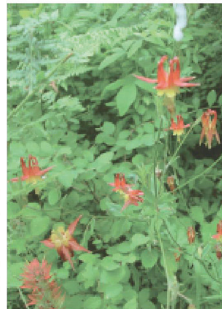


*Physocarpus capitatus*  
Pacific Ninebark

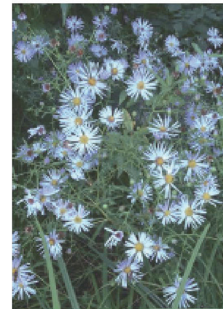


*Rubus spectabilis*  
Salmonberry

## Perennials



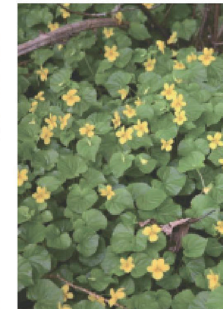
*Aquilegia formosa*  
Western Columbine



*Aster subspicatus*  
Douglas Aster



*Iris tenax*  
Oregon Iris

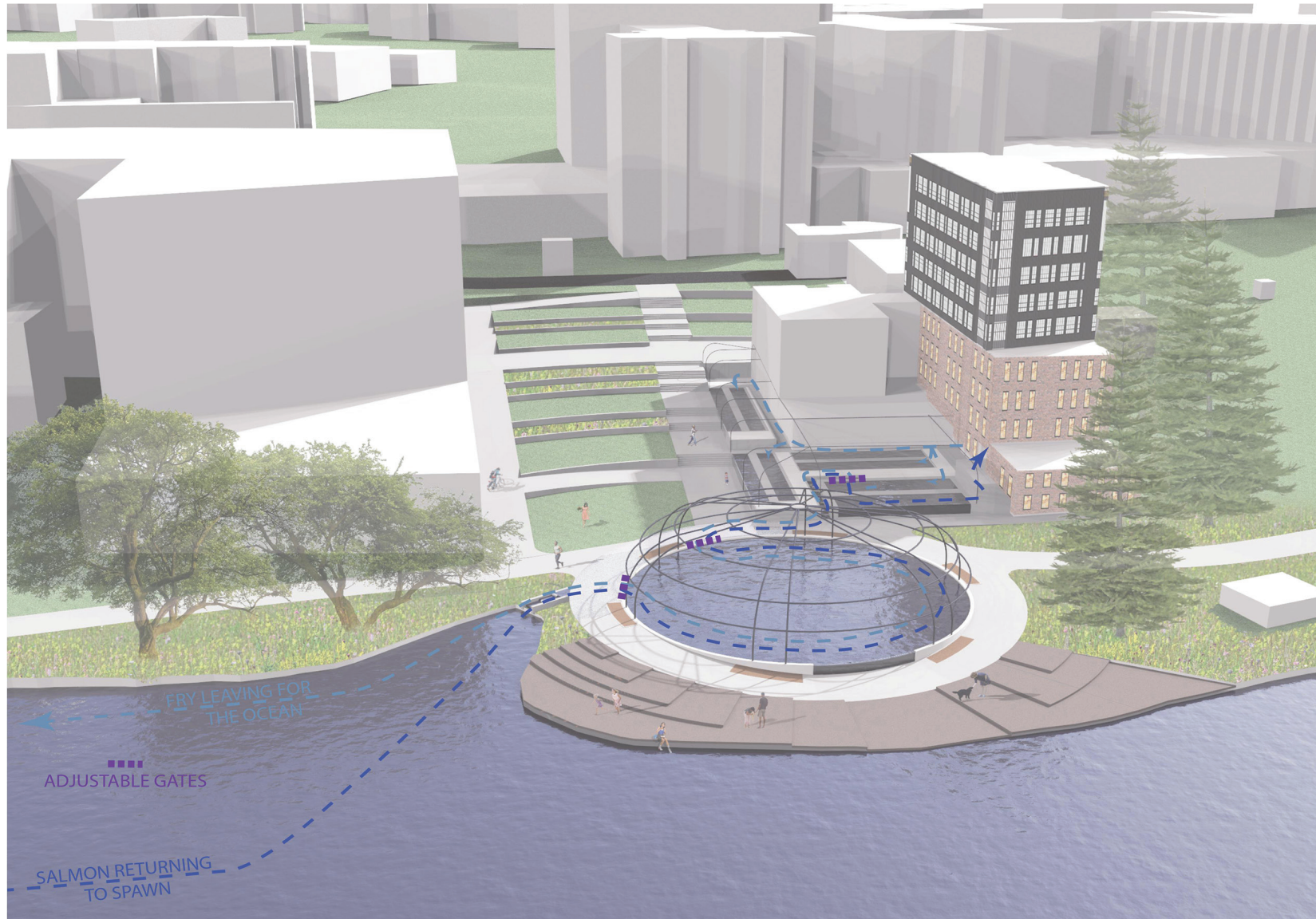


*Viola glabella*  
Stream Violet



## SALMON FLOW DIAGRAM

This image shows the areas that support salmon production, as well as the massing of the new building in conjunction with redevelopment of the area included in the *2018 UW Seattle Campus Master Plan*.





## CHARACTER RENDERING

View looking east at renovated building and café.





## VIEW FROM CENTRAL AXIS

This image depicts the ARC as you descend the central axis. Glass walls on the rearing channels allow visitors an underwater look at the developing aquatic species.





## WATERFRONT DECK VIGNETTE

This image illustrates the black locust deck adjacent to the waterfront trail. The topography has been lowered in order to connect visitors to the waterfront and to create a transparent window into the homing pond.





## VIEW FROM THE 2F BALCONY

This image depicts the ARC and the waterfront trail from the deck above the cafe, looking southwest.

