LA 539 STUDIO FINAL

HUNTER BRITEGAM KEEGAN ONEAL KYLE POLLACK



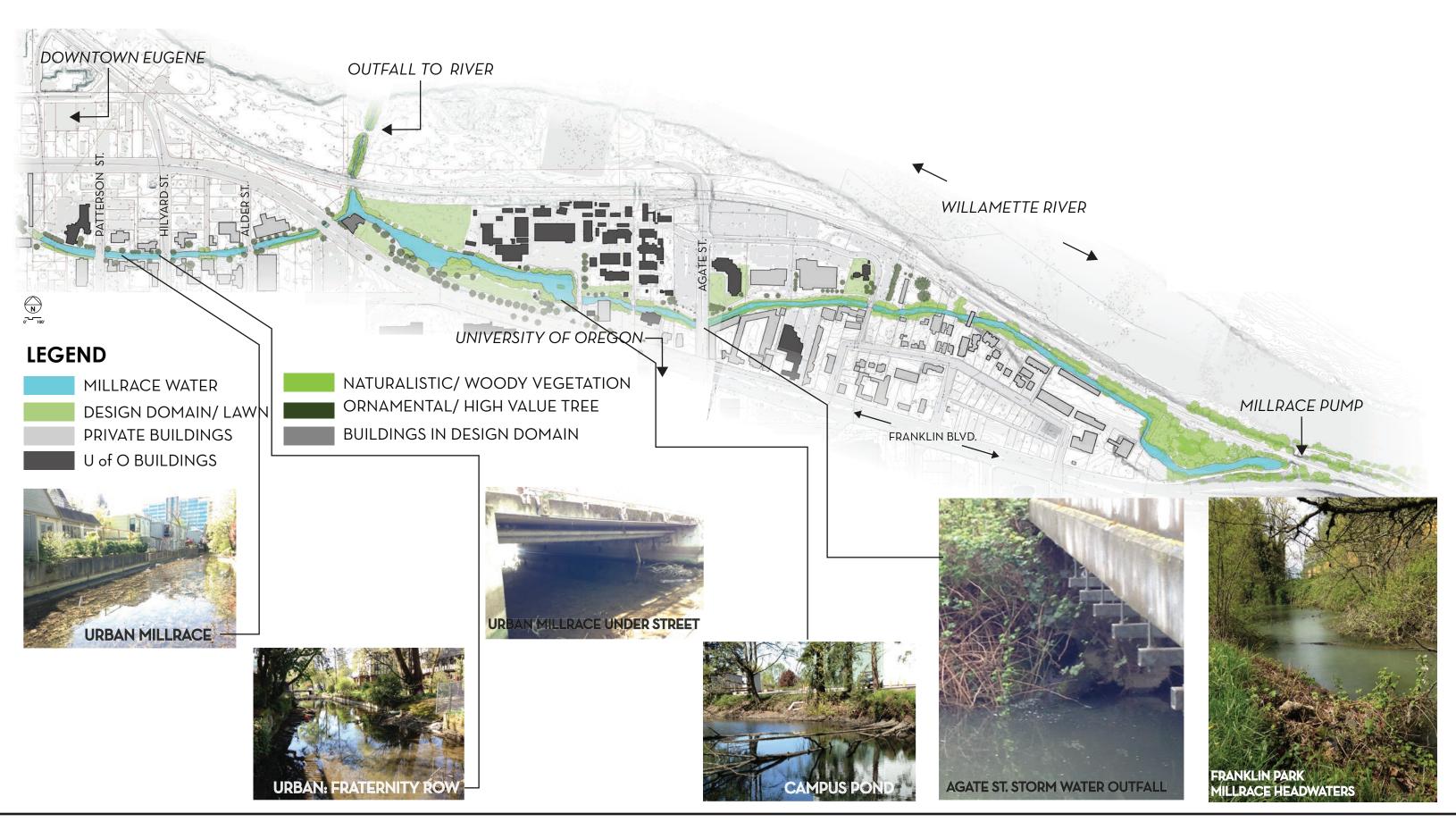
A high capital, low-flow retrofit of the UO Millrace can provide recreation opportunities and thorough storm-water mitigation for both the University and surrounding urban area.

Sustainable Infrastructure Cultural Amenity Urban Resilience

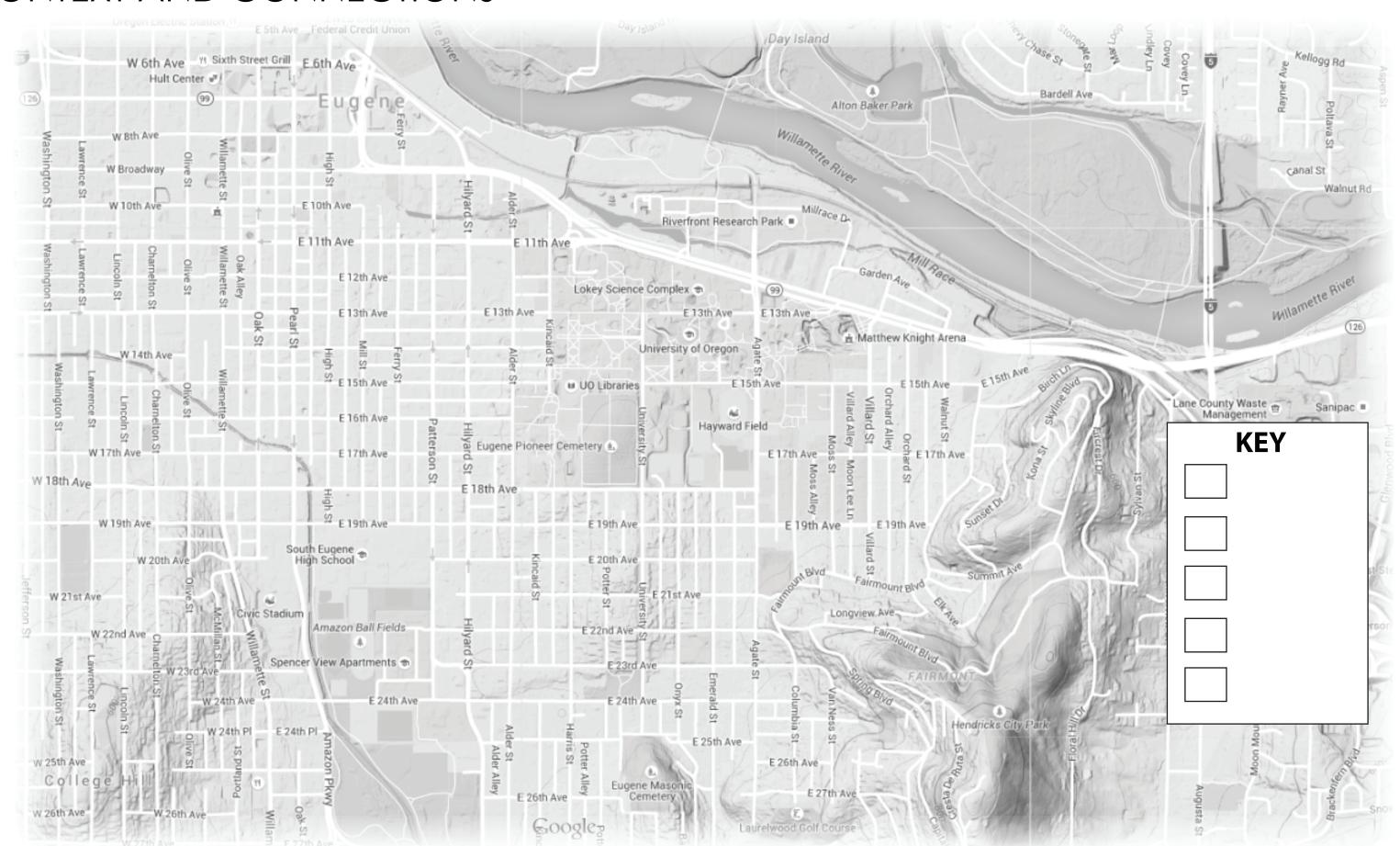
MODERN MILLRACE DESIGN GOALS

- -Treat all site storm-water up to a 10-year storm
- -Provide a bicycle connection along the Millrace from Alder street to the riverfront near Knickerbocker Bridge
- -Create viable public space within the Millrace footprint
 - --New UO Plazas
 - --Pond Overlook
 - --Franklin Park
 - --Wet Prairie Boardwalk from Ferry to Hilyard

MODERN MILLRACE EXISTING CONDITIONS



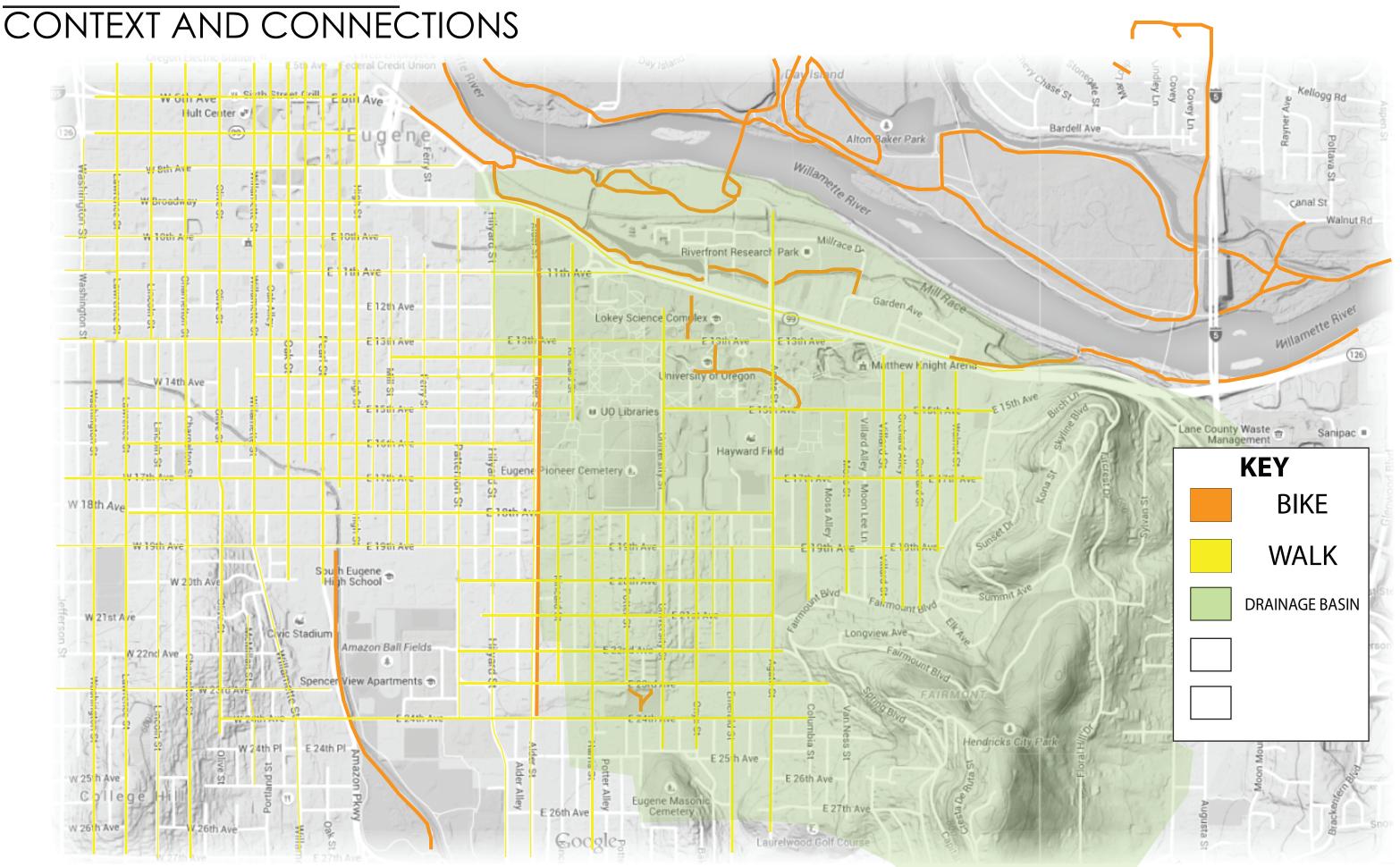
CONTEXT AND CONNECTIONS

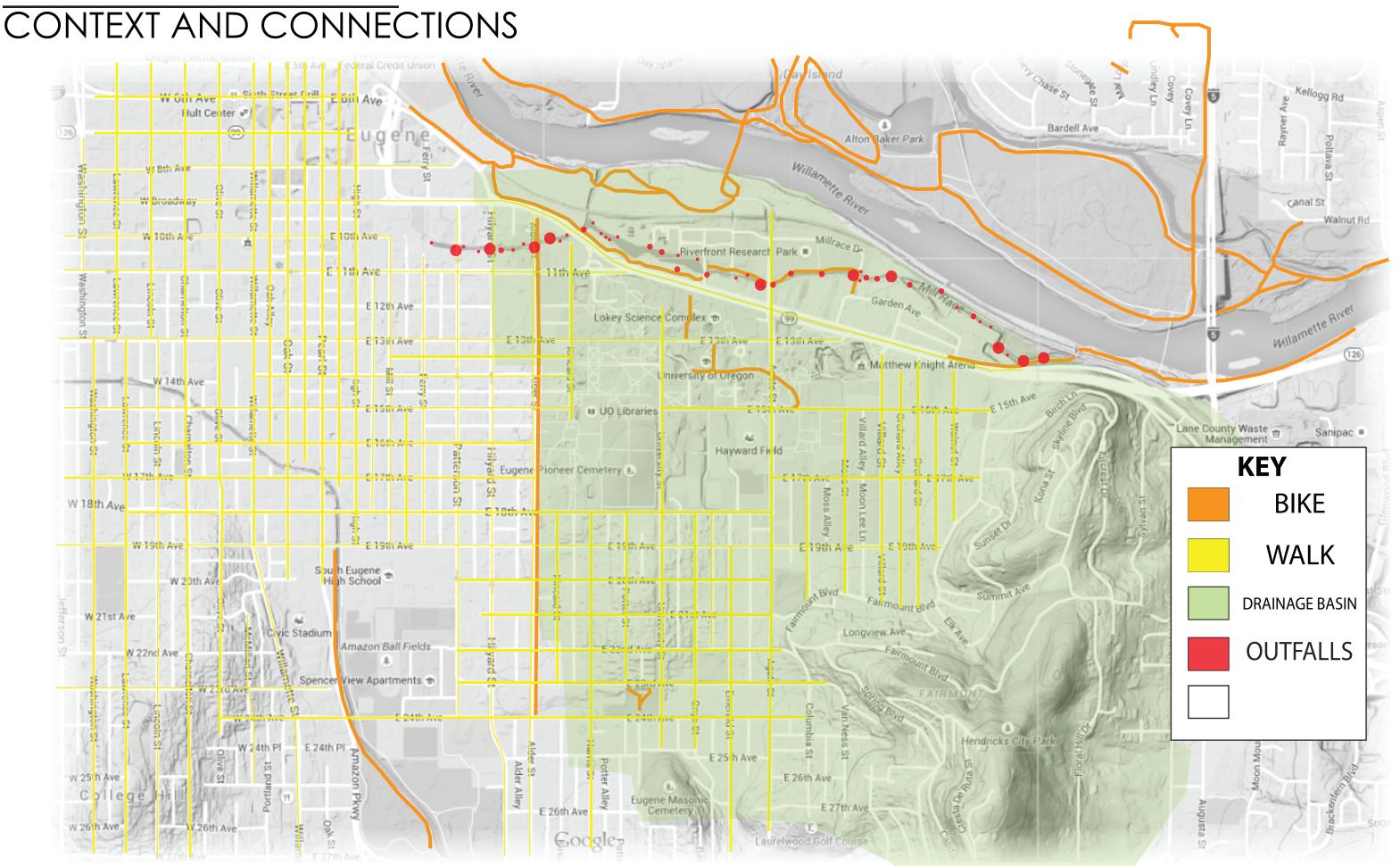


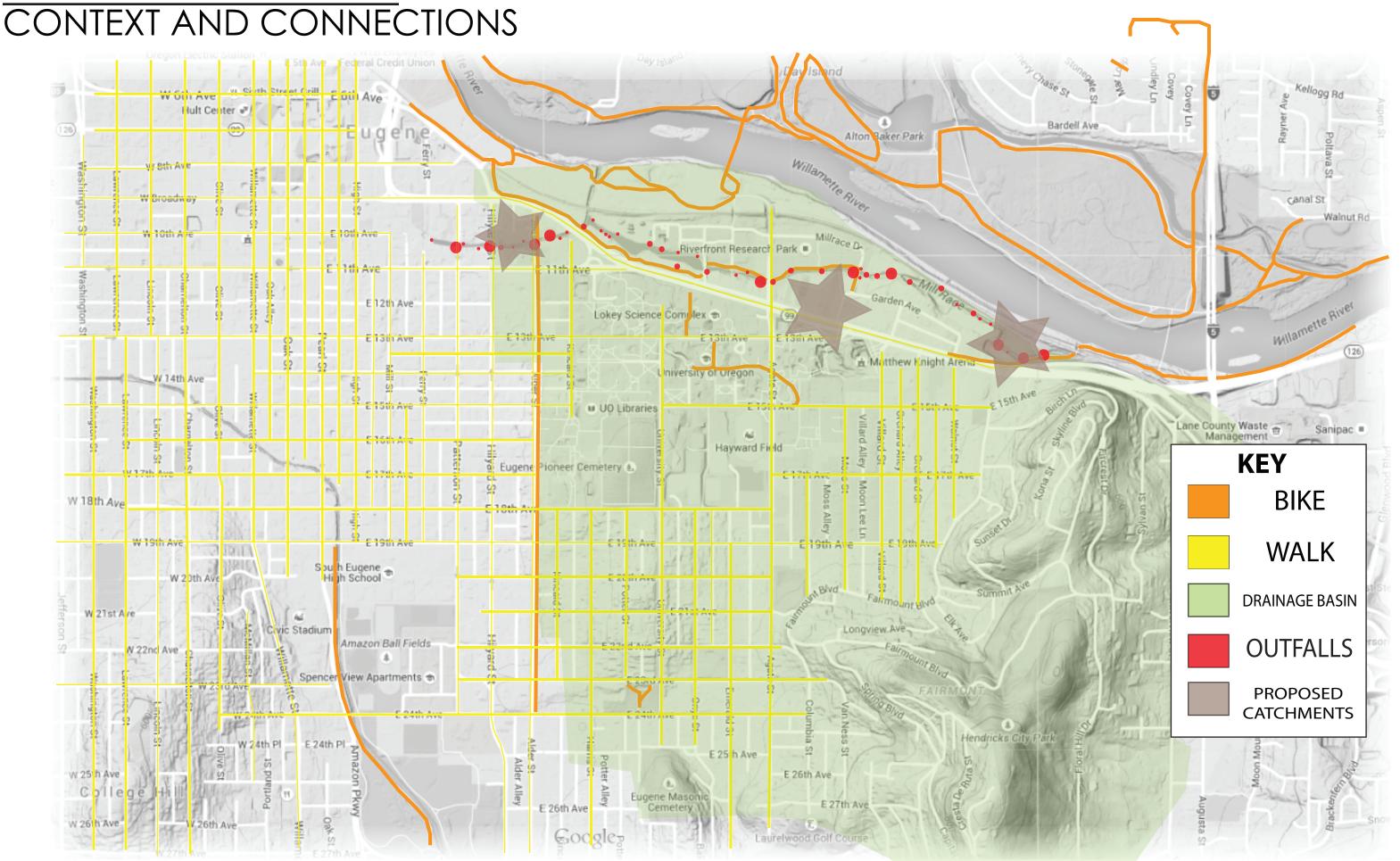
MODERN MILLRACE CONTEXT AND CONNEC



MODERN MILLRACE CONTEXT AND CONNECTIONS Alton Baker Park W 10th A Riverfront Research Park 11th Ave E 12th Ave Lokey Science Complex on **U** UO Libraries Lane County Waste Management Hayward Field **KEY** BIKE W 18th Ave







DRAINAGE BASIN GREEN INFRASTRUCTURE RECOMMENDATIONS



VEGETATED FILTER STRIP- USE WHEN ADJACENT TO IMPERMEABLE SURFACES SUCH AS PARKING LOTS, STREETS, ETC.



INFILTRATION PLANTER- USE WHEN YOU WANT THE WATER TO PERCOLATE INTO THE GROUND.



EXTENDED DRY BASIN- USED IN A PLACE WHERE YOU NEED TO TEMPORARILY DETAIN WATER RUN OFF DURING STORM EVENTS.



FLOW THROUGH PLANTER- USE IN AREAS WITH HARD SURFACES SUCH AS CURBS, ROADS, PARKING LOTS, ETC.



STORMWATER ART- VERY SIMILAR TO FLOW THROUGH PLANTERS, EXCEPT WITH THE PRESENCEOF ART WORK IN THE PLANTER.



GREEN ROOF- USE ON SUITABLE ROOFS, GREAT TO REDUCE ENERGY COST, STORMWATER FEES, AND AESTHETICALLY PLEASING.

MODERN MILLRACE NECESSARY DESIGN CONDITIONS

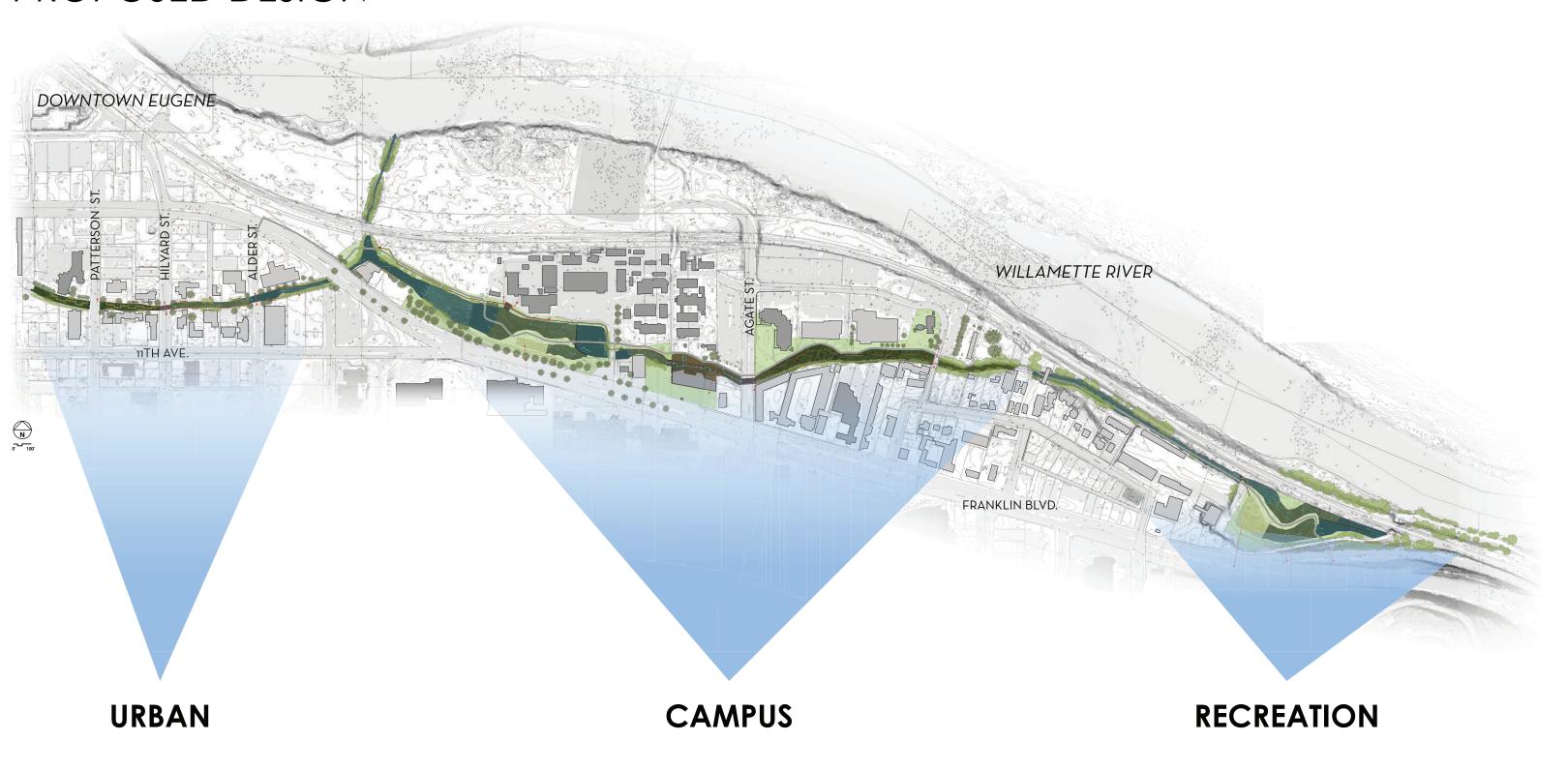
The following are our preconditions for success:

- -Tax lot and easement revisions
- -Secure a new water right to provide dry season landscape irrigation
- -University of Oregon classroom construction North of Franklin
- -A partnership with the city to develop a bicycle connection through UO property to Franklin Park
- -Partnerships with property owners to connect downspouts to L.I.D. green infrastructure

PROPOSED DESIGN



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MODERN MILLRACE PROPOSED DESIGN



URBAN

STORM-WATER MITIGATION
NATIVE SLOUGH BOARDWALK

CAMPUS

PLAZA AND GATHERING SPACES

ACCOMMODATE NEW

UNIVERSITY DEVELOPMENT

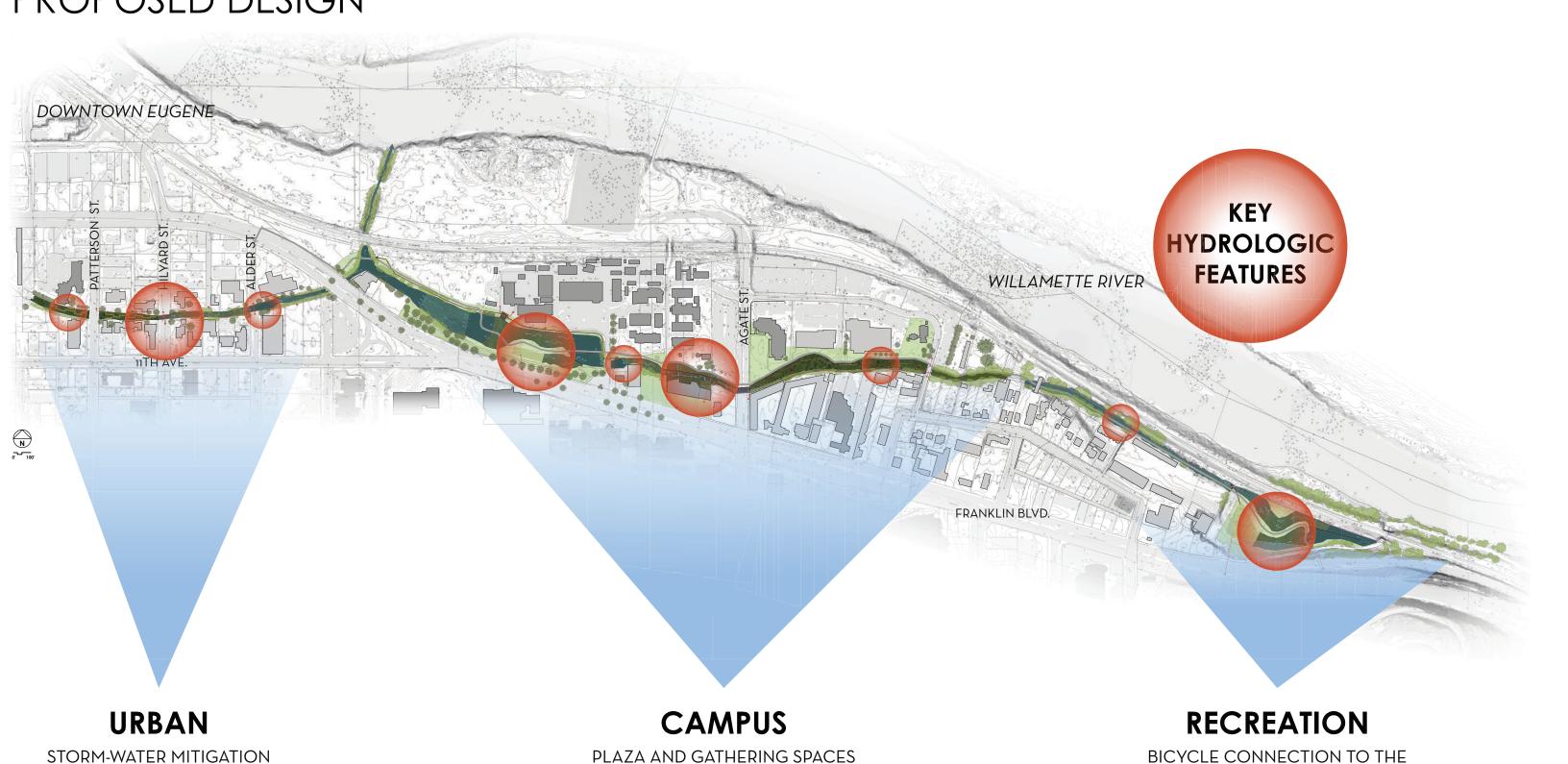
WATER HARVESTING AND REUSE

RECREATION

BICYCLE CONNECTION TO THE RIVERFRONT

AMENITIES FOR FRANKLIN PARK

MODERN MILLRACE PROPOSED DESIGN



ACCOMMODATE NEW

UNIVERSITY DEVELOPMENT

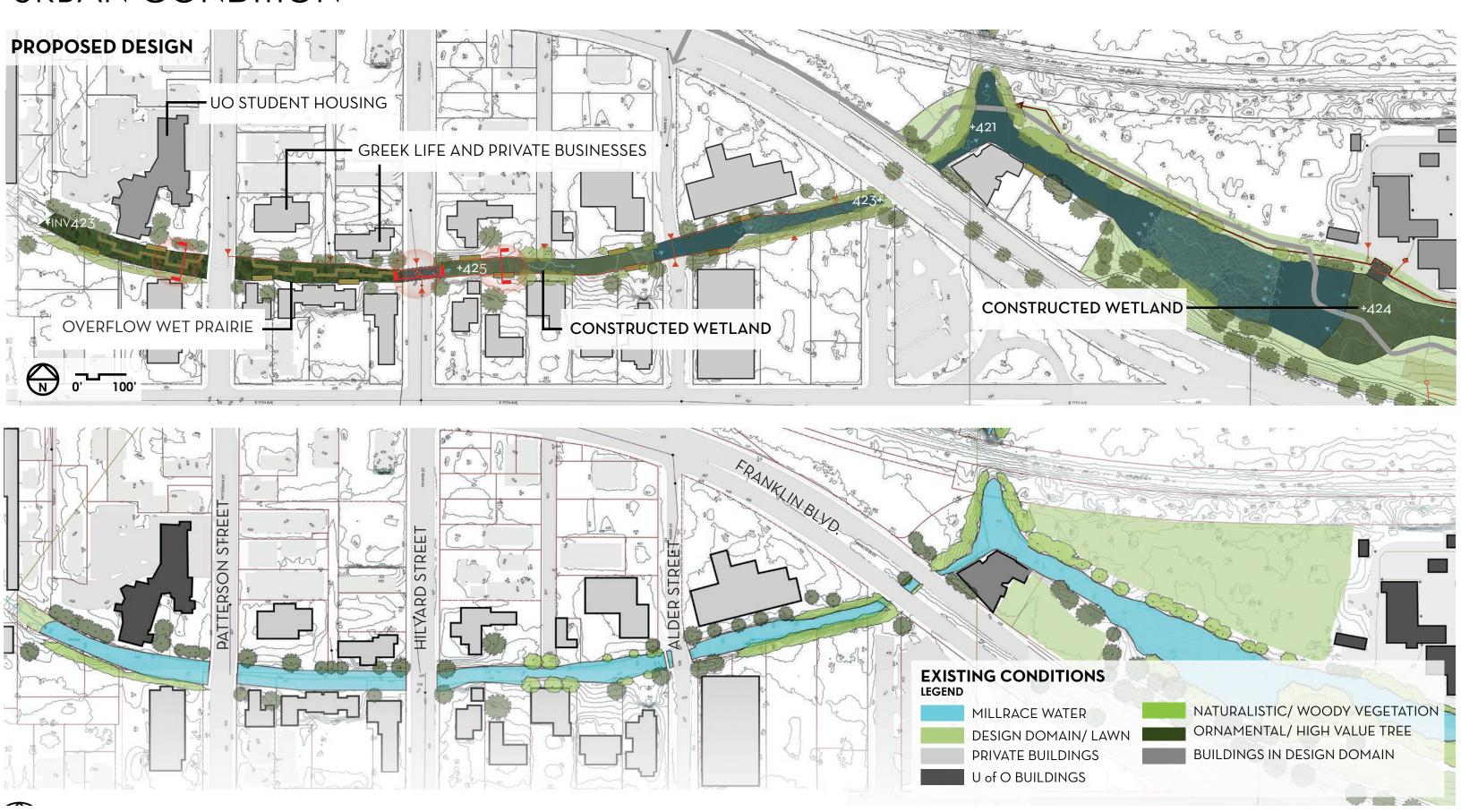
WATER HARVESTING AND REUSE

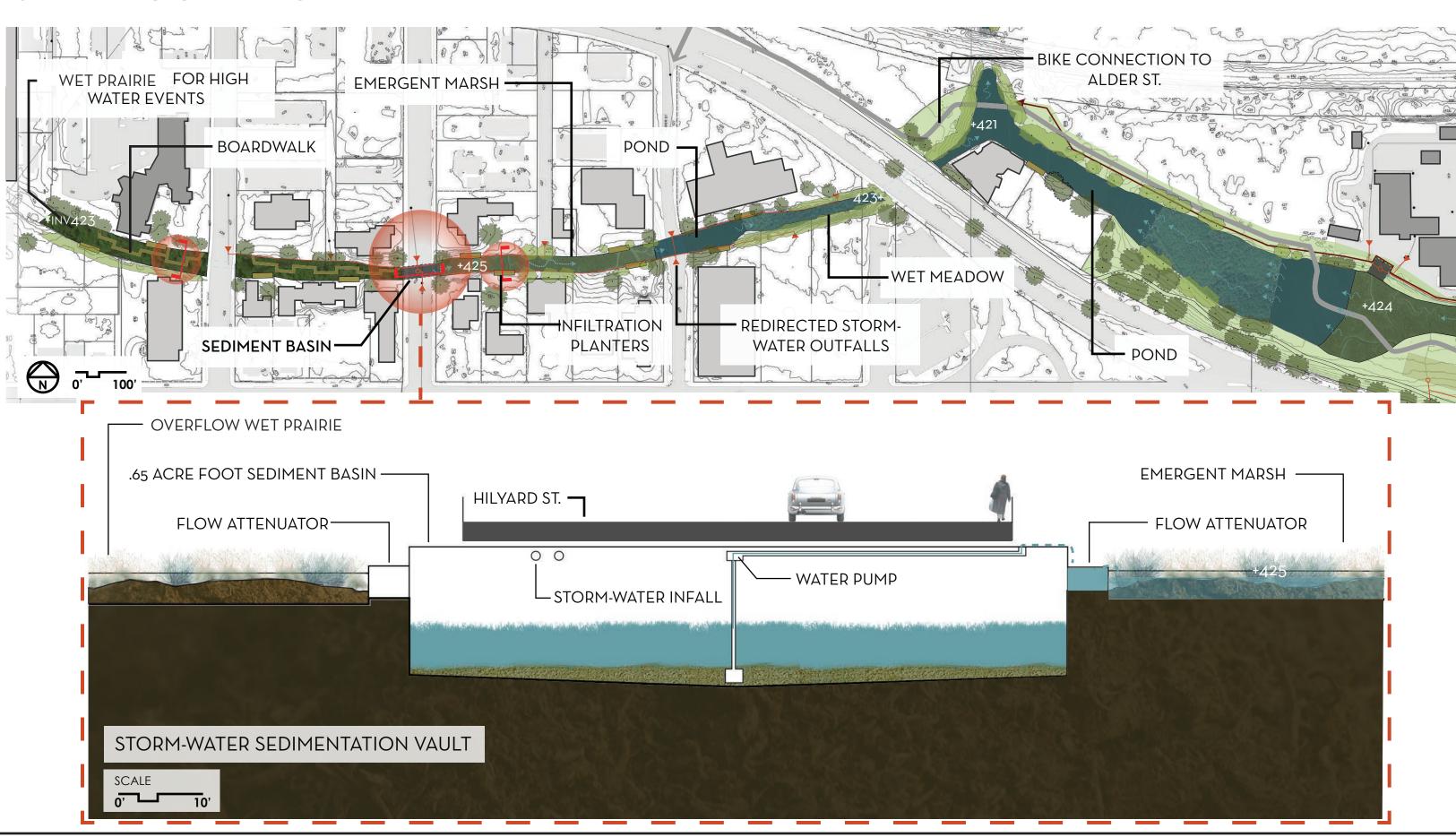
RIVERFRONT

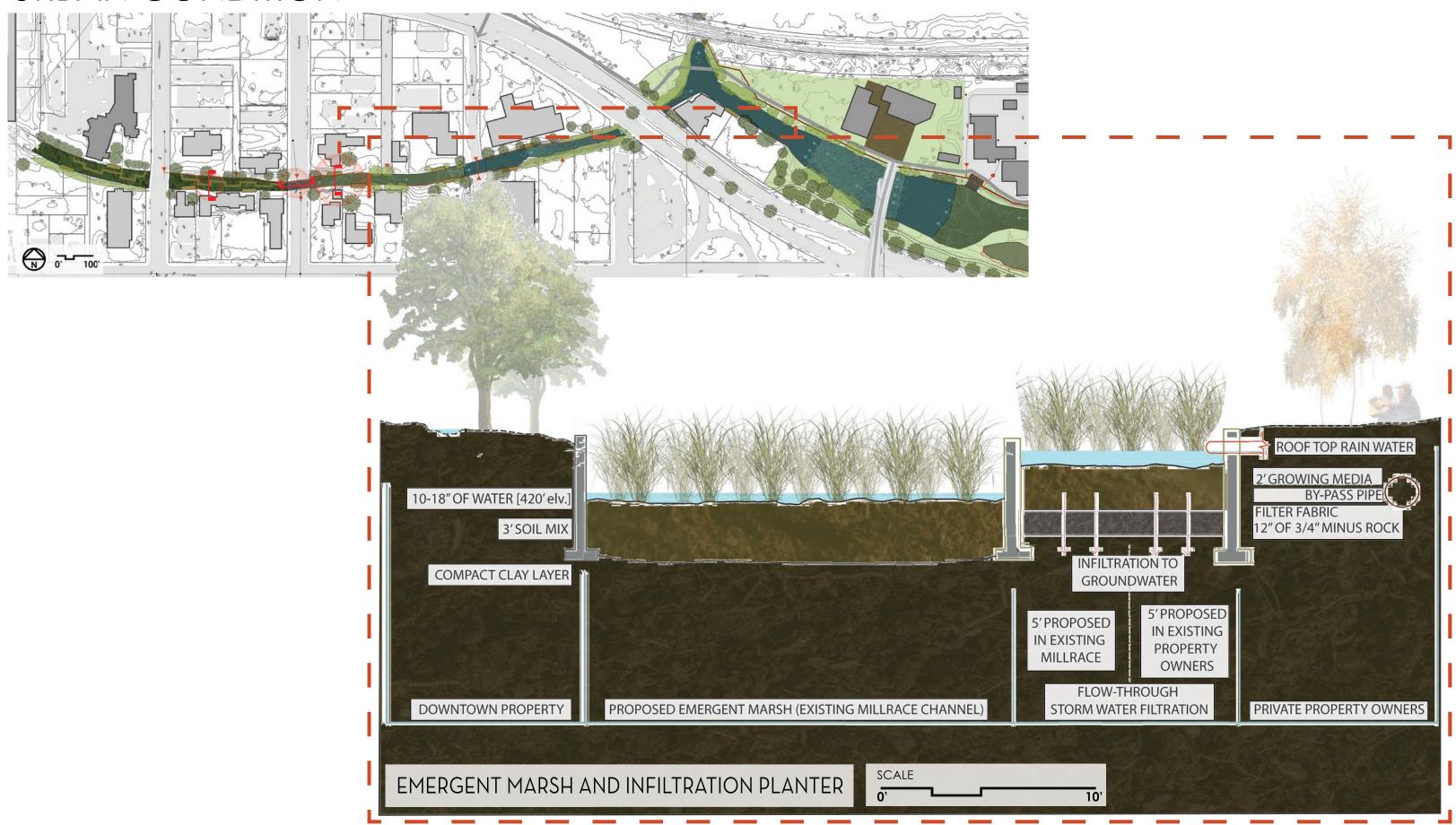
AMENITIES FOR FRANKLIN PARK

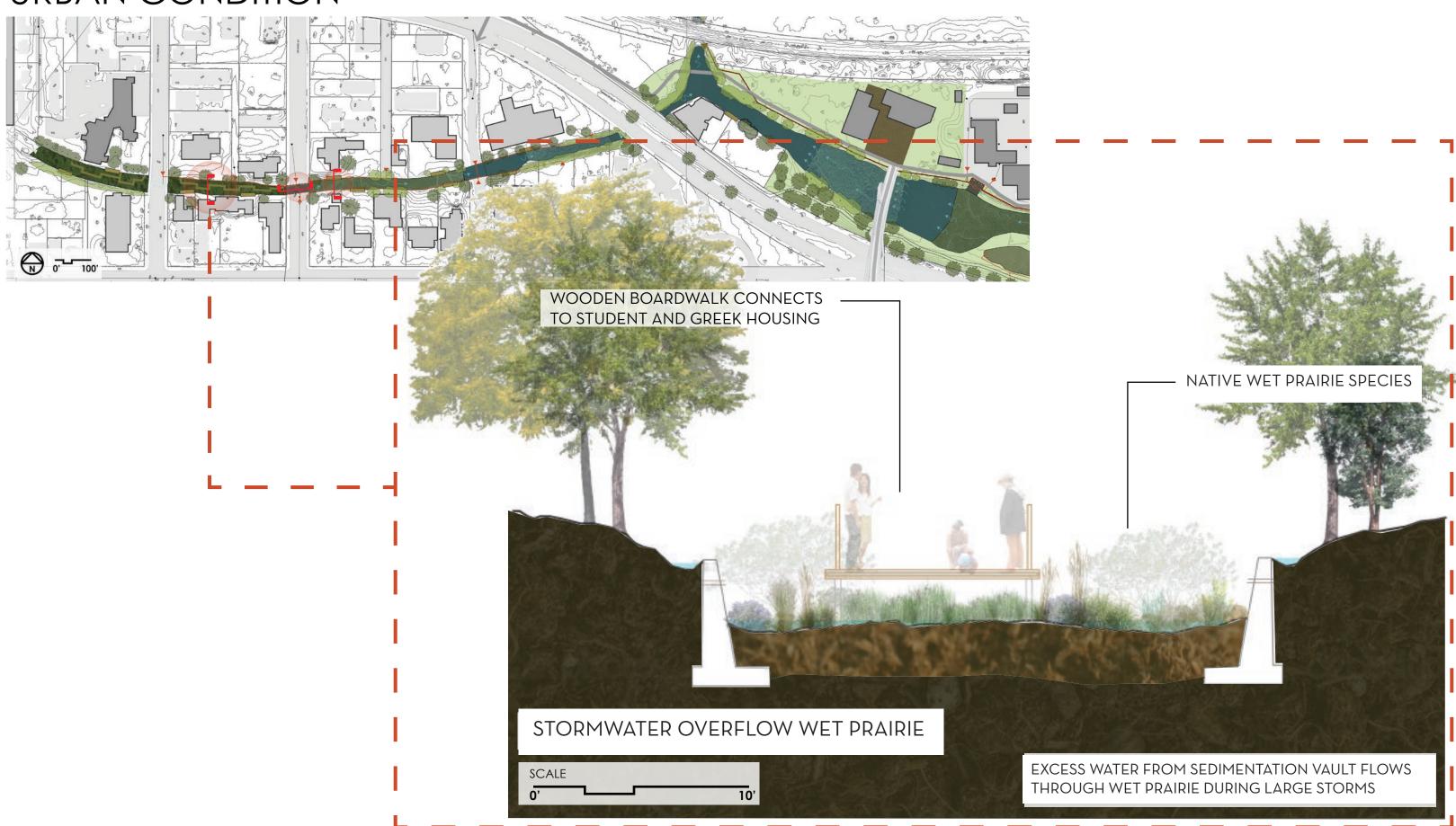
LA 539 - FINAL - HUNTER BRITEGAM, KEEGAN ONEAL, KYLE POLLACK

NATIVE SLOUGH BOARDWALK

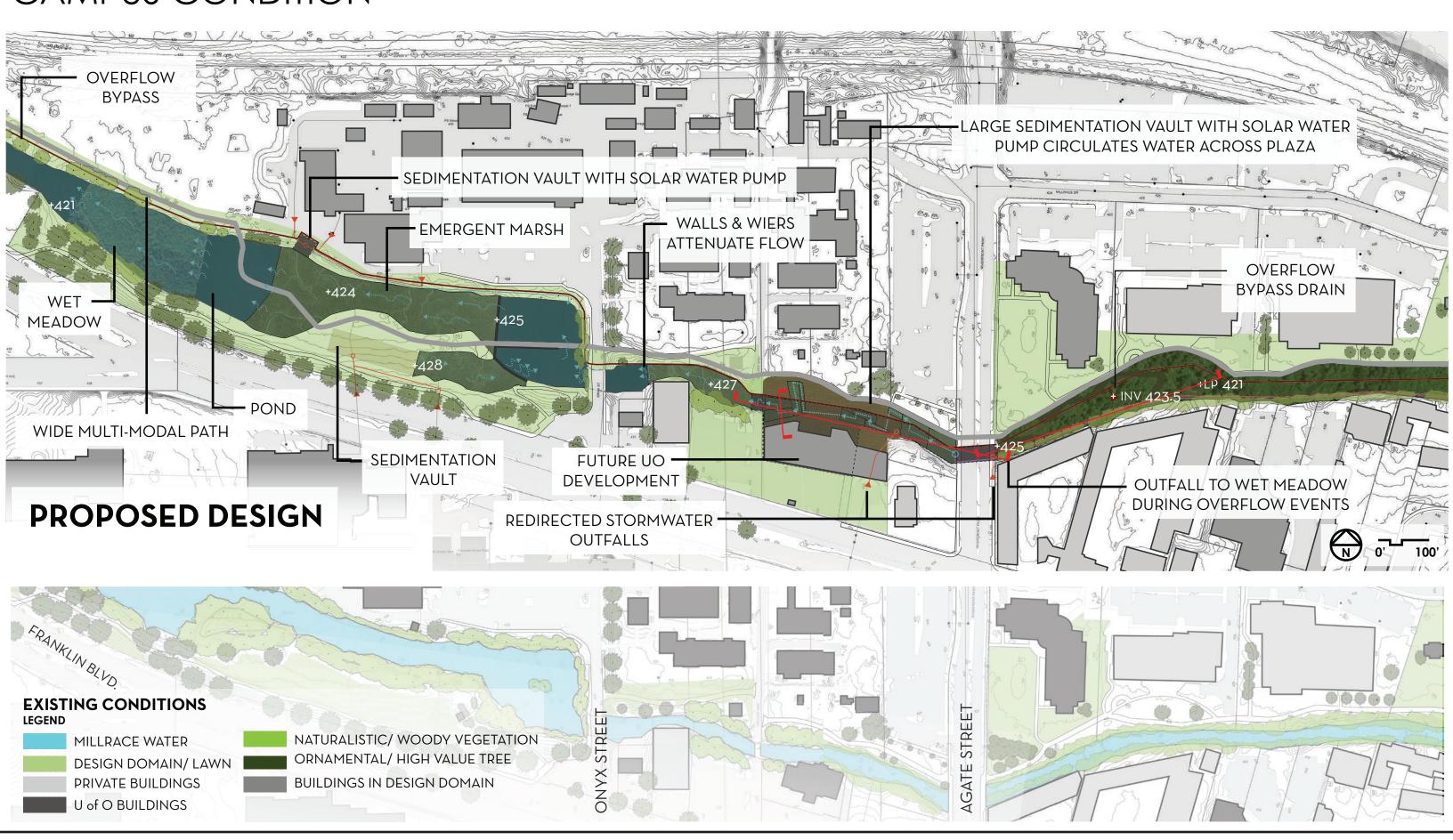








MODERN MILLRACE CAMPUS CONDITION



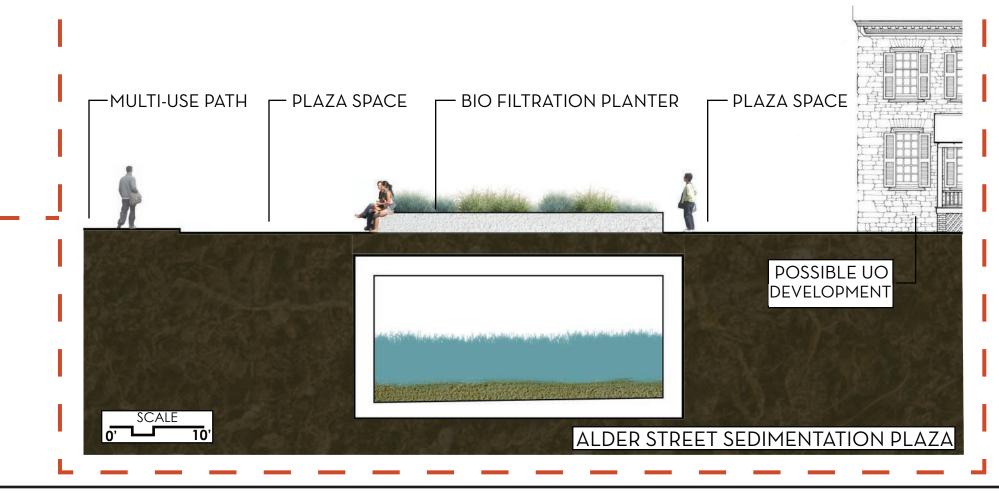
MODERN MILLRACE CAMPUS CONDITION 14.06 ACRE FOOT WATER COLLECTION WEIR FOR OVERFLOW 15.64 ACRE FOOT OUTFALL SCALE **20**' OVERFLOW BYPASS DRAIN: SCALE 30' **BACKFLOW WET PRAIRIE**

- GRADED FOR INFILTRATION

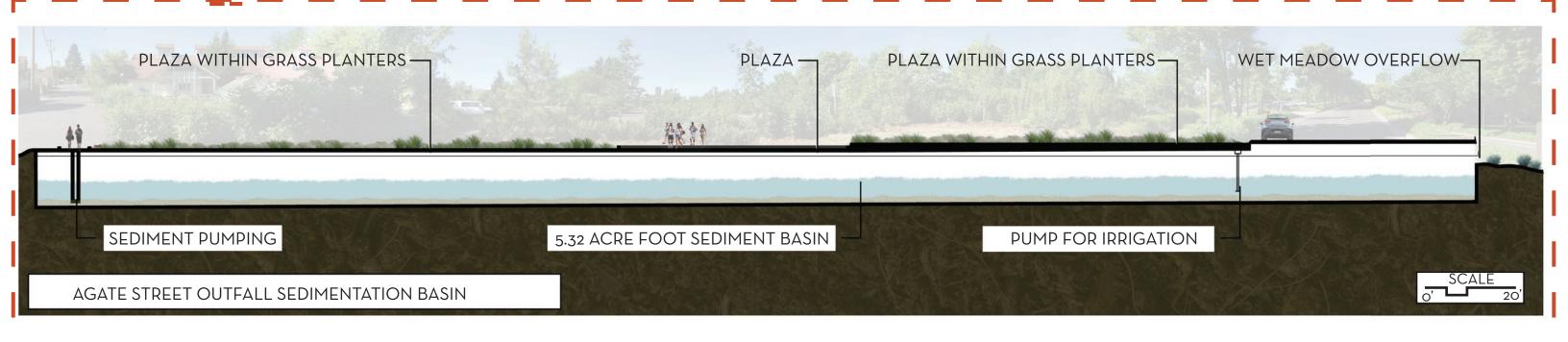
- 4' DEEP WET MEADOW

CAMPUS CONDITION

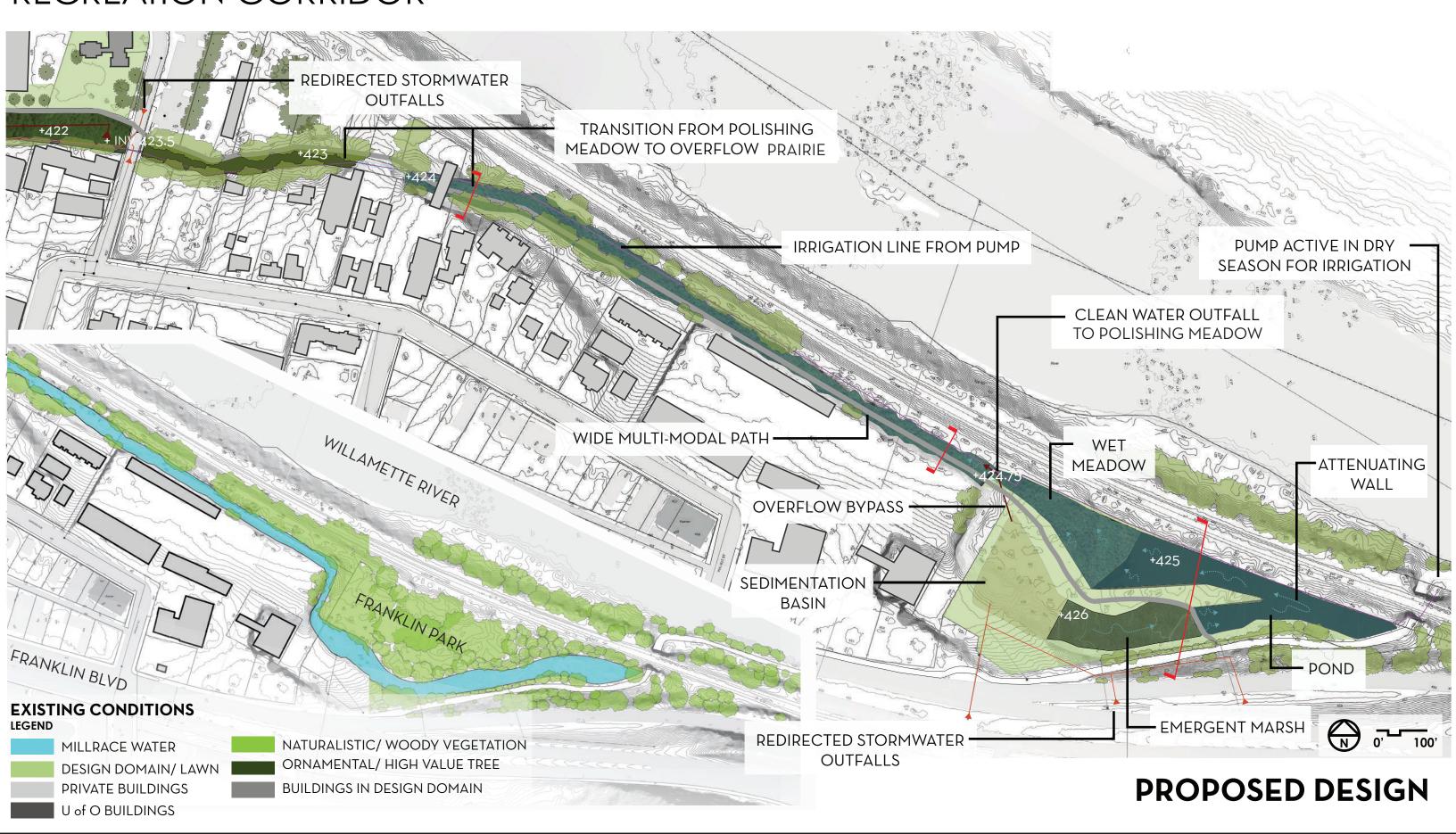






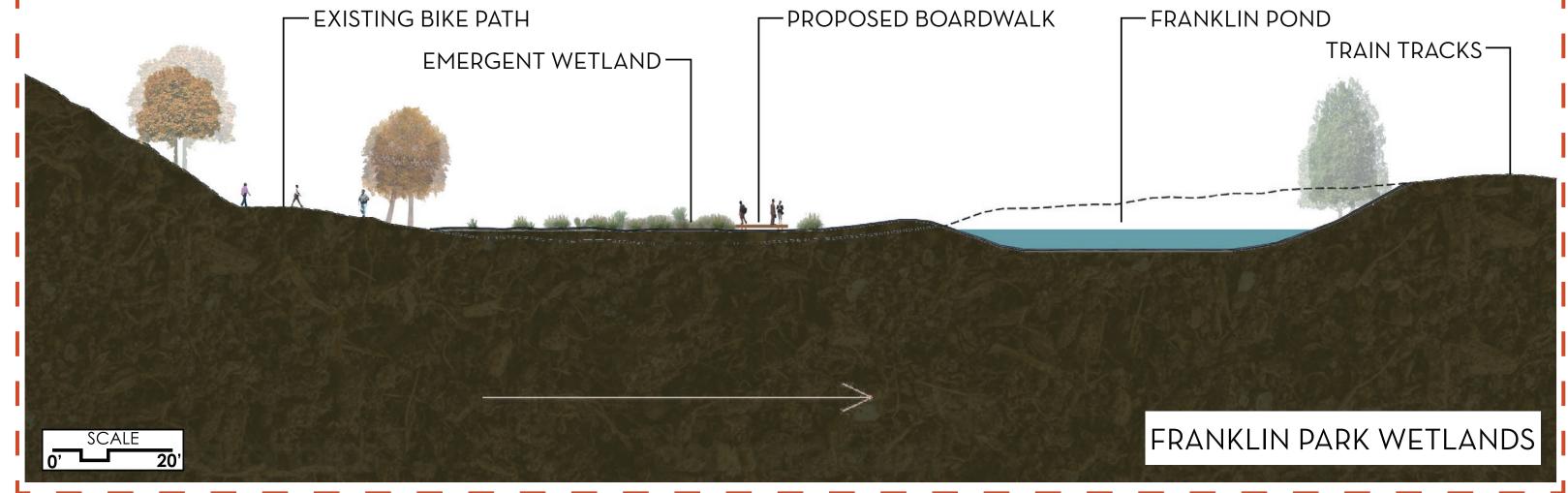


MODERN MILLRACE RECREATION CORRIDOR

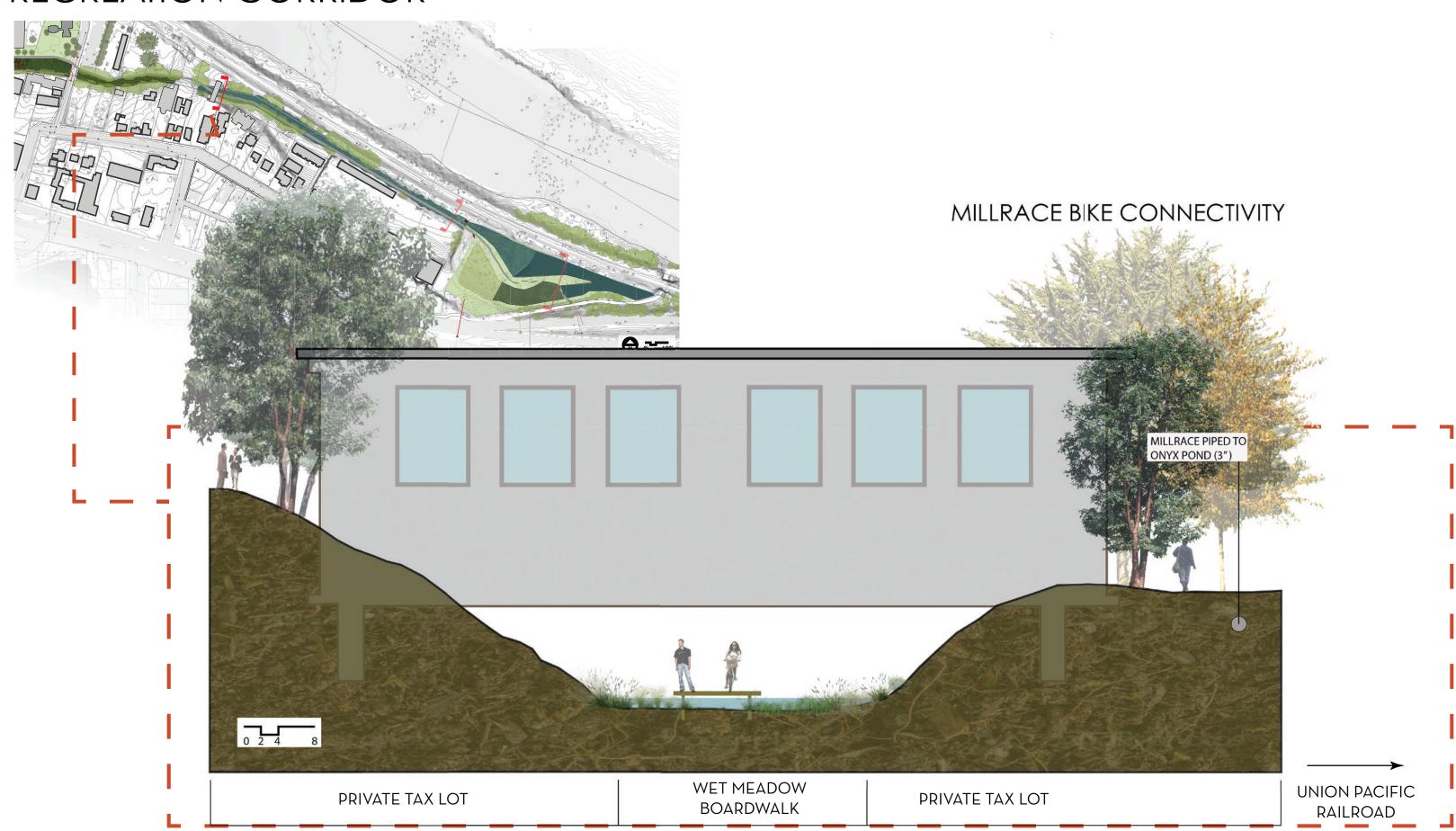


MODERN MILLRACE RECREATION CORRIDOR

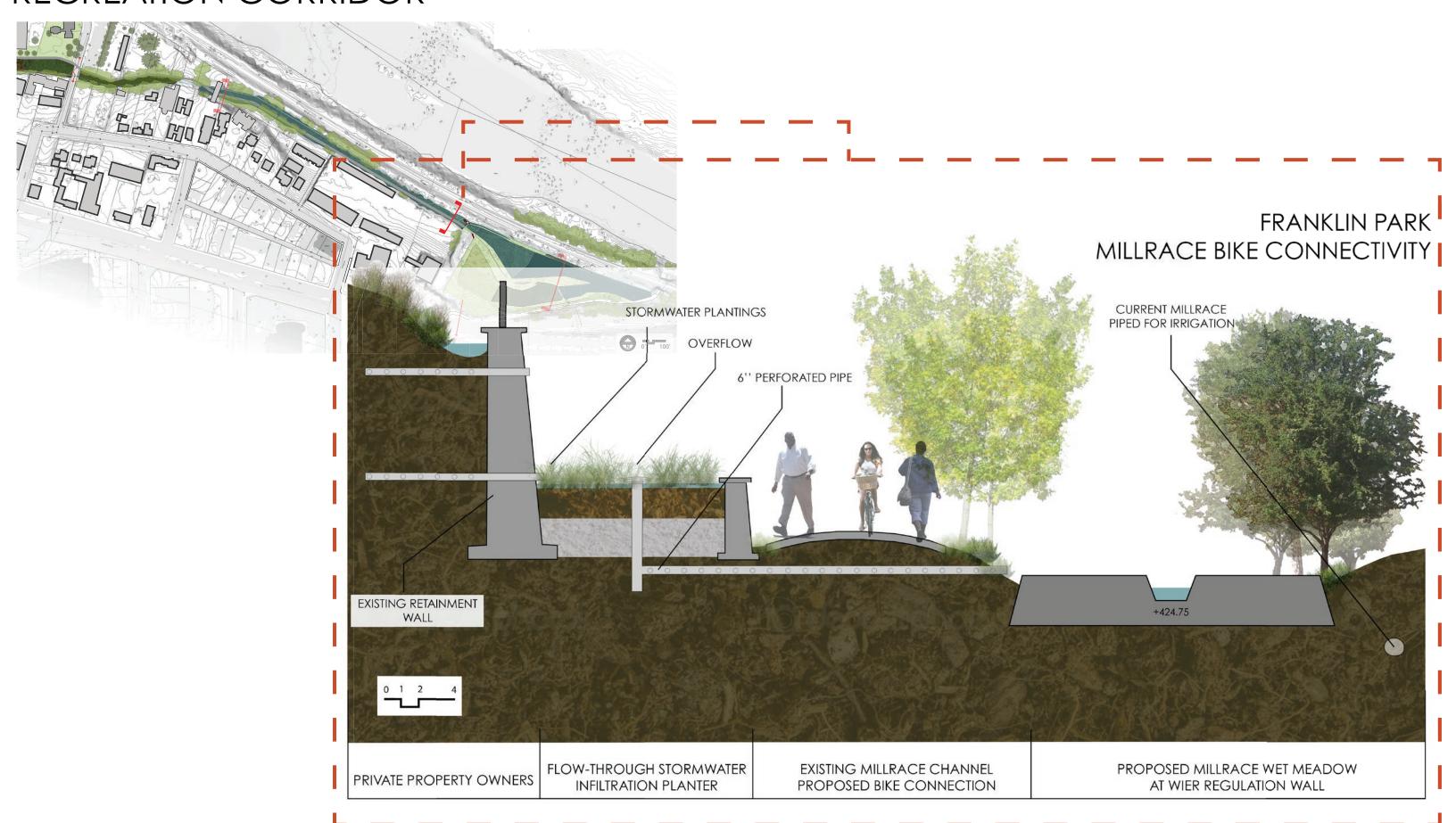




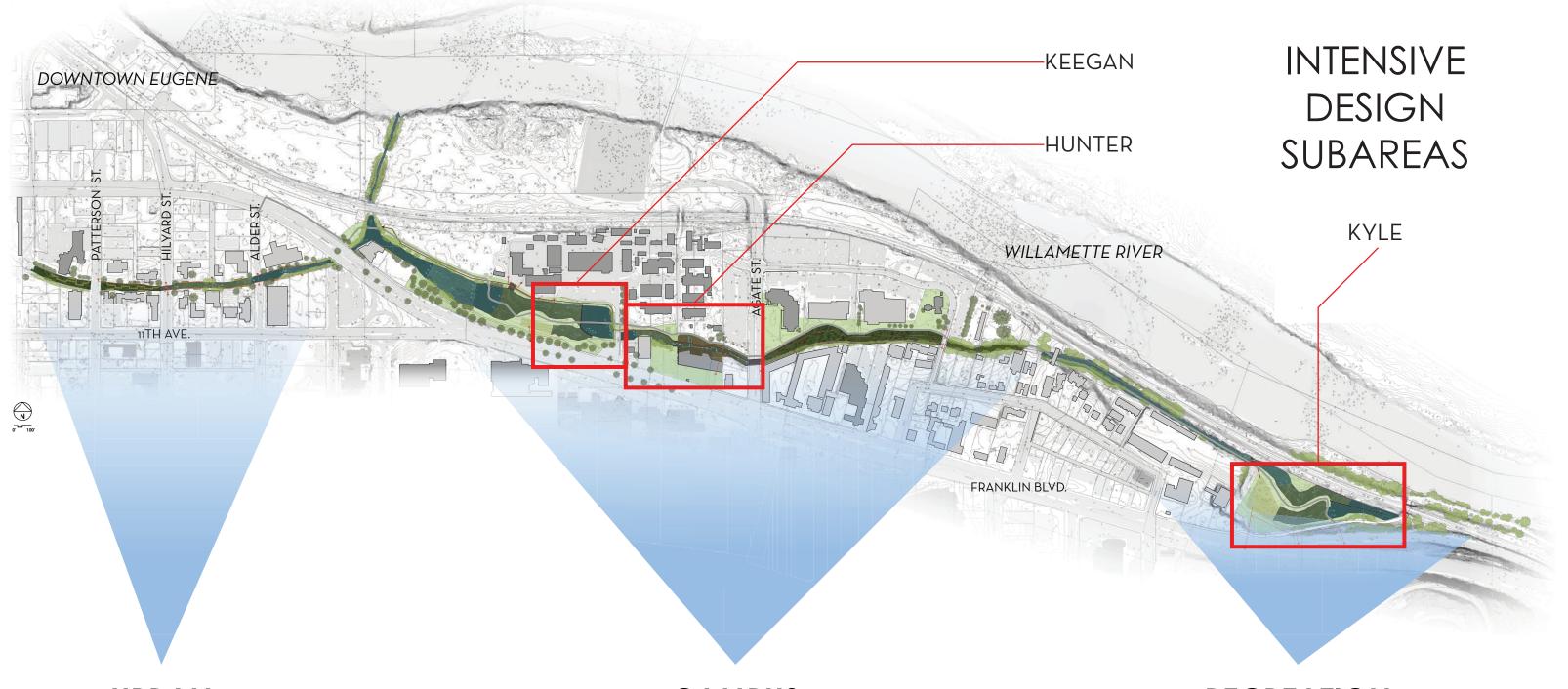
RECREATION CORRIDOR



MODERN MILLRACE RECREATION CORRIDOR



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