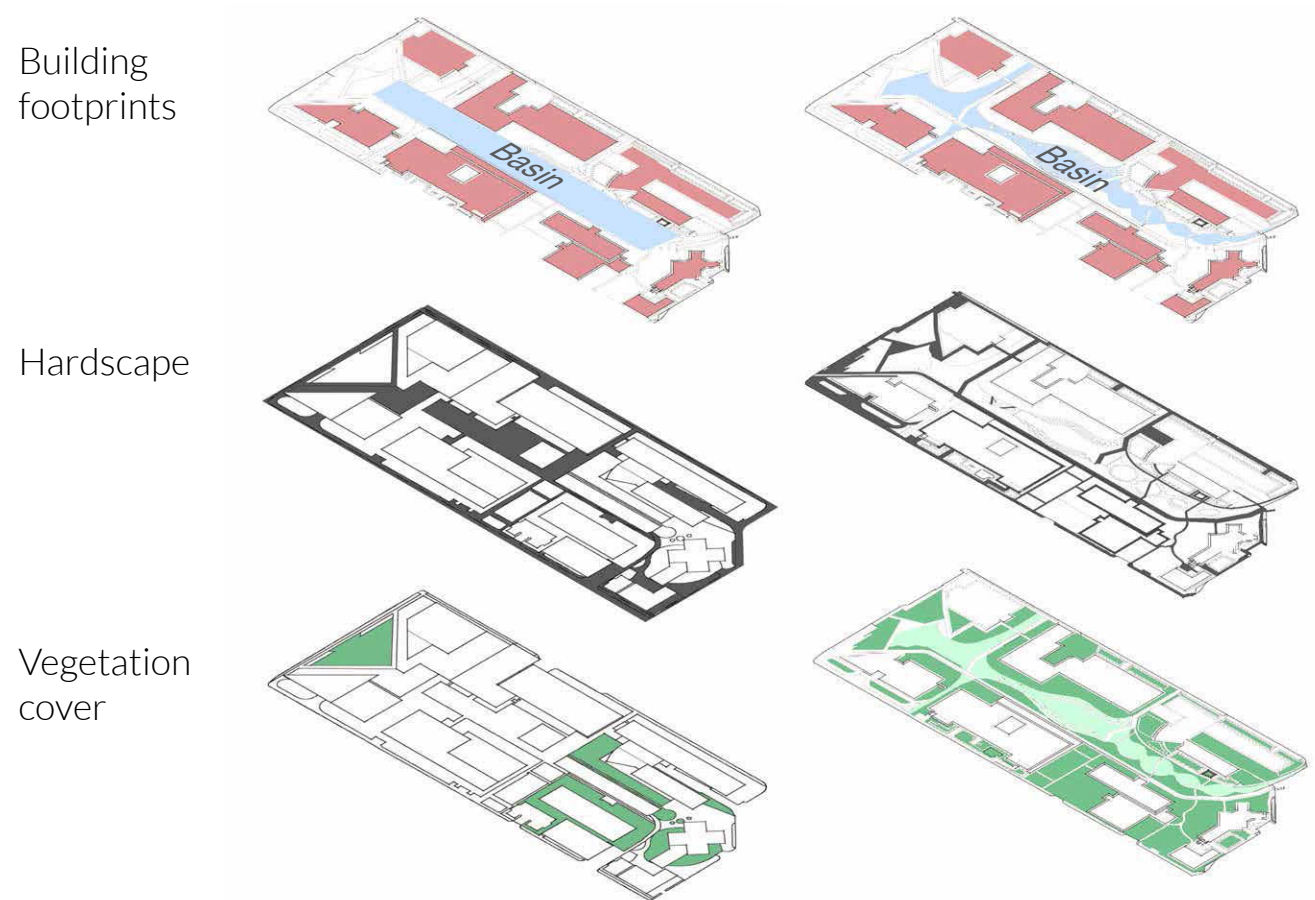


## Problem Addressed

How can a 14 acre underutilized space become an amenity that can serve as a multifunctional active space? This fragmented open space is surrounded by science buildings, dorms, campus health, and a student union. It is a heavily used area of campus, facilitating connections between living spaces, classroom, and important campus services. Our preliminary research has identified at least 5 other sites on campus that have similar characteristics. This demonstration project will serve as a prototype for implementing green infrastructure strategies while activating underused spaces on campus.

## Analysis & Conclusions

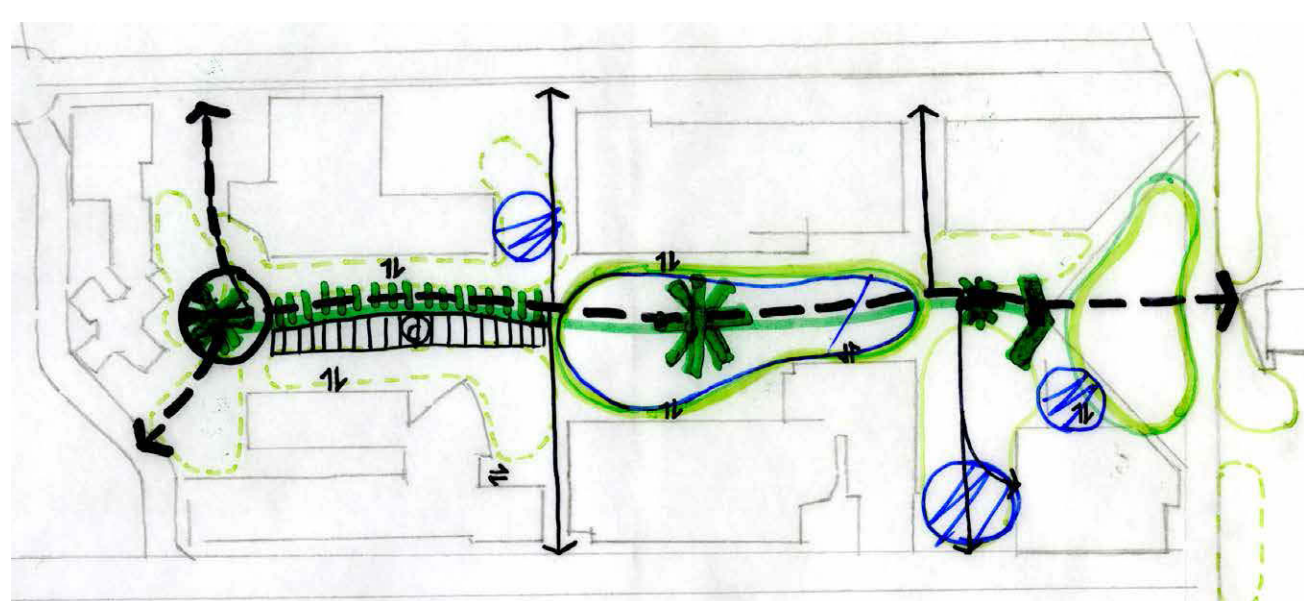
### SWMIP Proposed Design



### Our Proposed Design

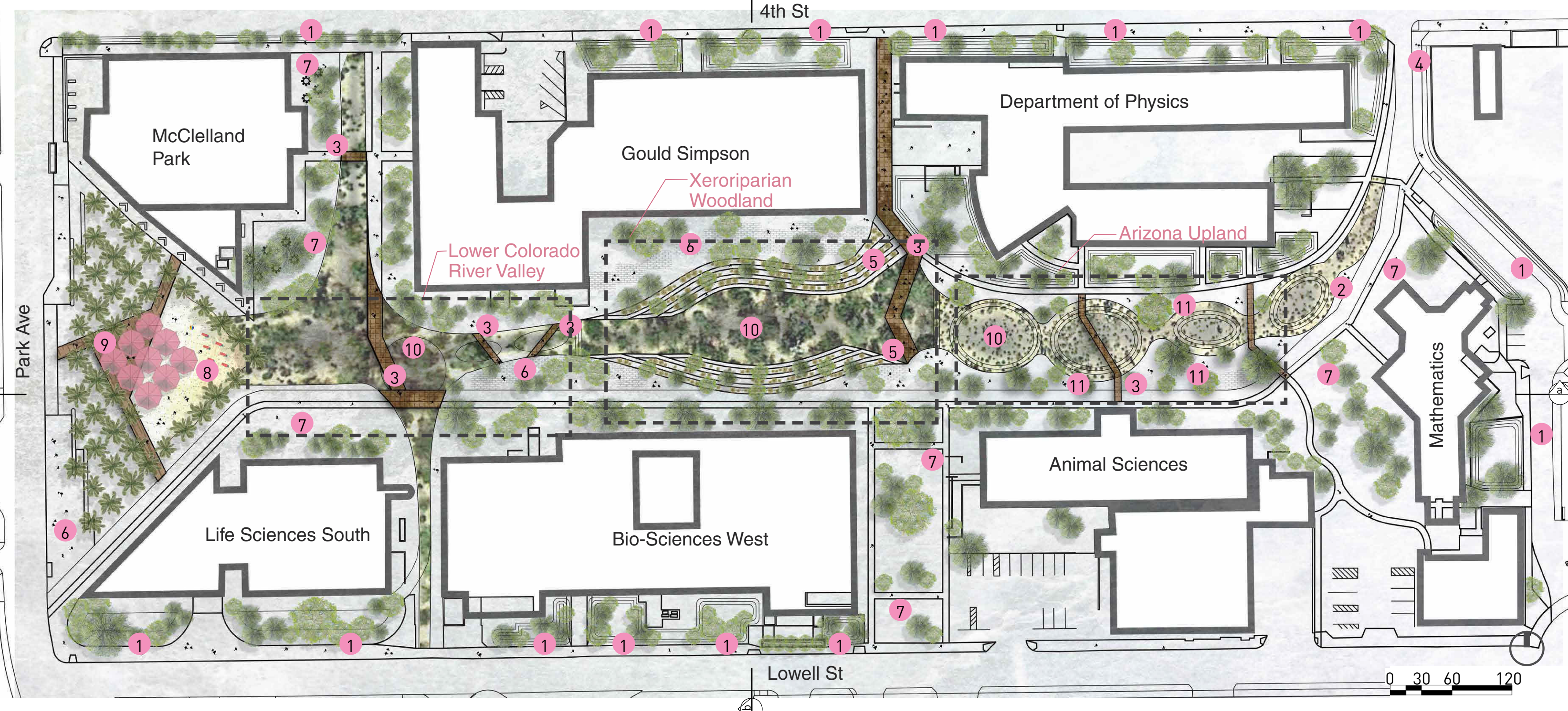
A River Runs Through It will change the status quo of green infrastructure on the University of Arizona Campus. Through the mitigation of storm-water issues this design will positively impact students, faculty, campus users, and the greater Tucson community. As a model for sustainable climate resilient design, this project can serve as a precedent that can be repeated across campus and the southwest.

## Concept



- 1 Water Harvesting Basin
- 2 Desert Arroyo
- 3 Elevated Walks
- 4 Maintenance Access
- 5 Tiered Planters
- 6 Permeable Paving
- 7 Permeable Surface
- 8 Campus Beach
- 9 Umbrella Promenade
- 10 Water Harvesting Cistern
- 11 Ecological Laboratory

## Design Solution



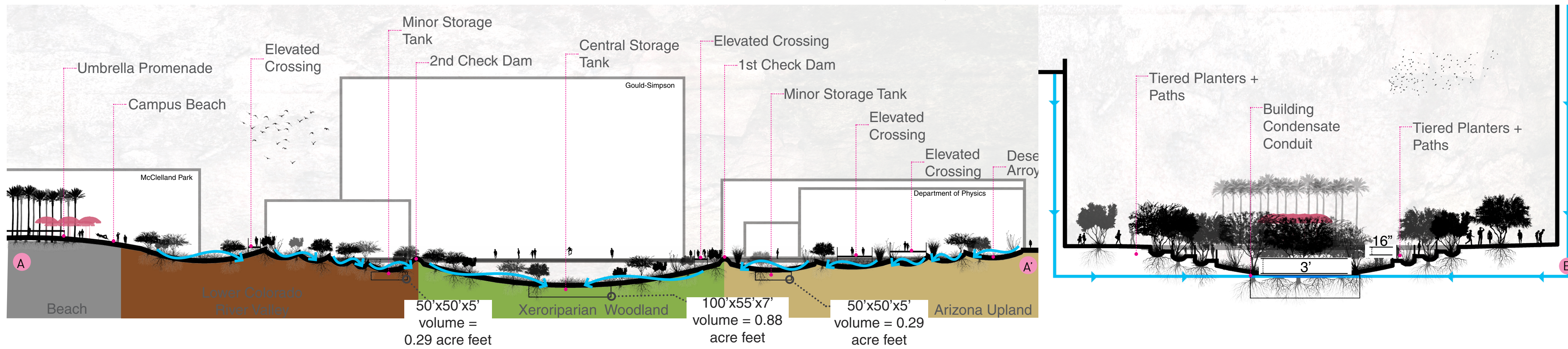
## Goals & Objectives

- Improve Function**
  - Retain 100% of runoff from a 100 year 24 hour storm event on site
  - Meet or exceed U of A SWMIP targets for capacity
  - Improve maintenance vehicle access
  - Improve user safety
- Improve Ecology**
  - Create a variety of spatial types (large gathering, small gathering)
  - Mitigate Urban Heat Island Effect
  - Utilize native and near native vegetation
  - Create outdoor learning laboratory
- Create an Educational Laboratory**
  - Create educational interpretive signage
  - Educate users about storm water management

## Performance

- 8.47 acft Total Design Capacity
- +32.3% Vegetative Cover
- +14 Perimeter retention basins
- +30.3% Irrigation from HVAC condensate

## Sections



## View of the Sonoran Rain Garden



## Global Perspective



## View of Campus Beach

