Nicole Song, Matthew Lutheran, Aaron Johnson,

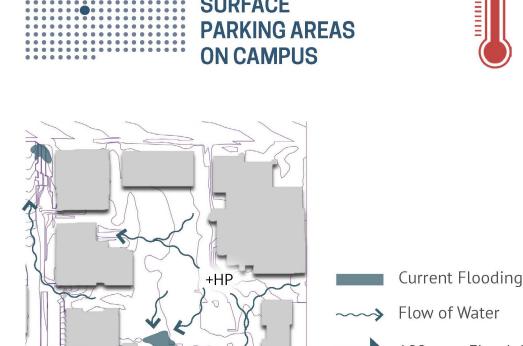
Samantha Swartz, Jack Anderson

(RE)SEARCHING FOR A SPOT

A Parking Lot Laboratory for Desert Stormwater Mitigation, Research, and Education

PROBLEM ADDRESSED

The single function 2.48 acre parking lot, south of the College of Architecture, Planning, and Landscape Architecture, is typical of 269 other surface parking lots on the University of Arizona's campus. It provides minimal shade and no stormwater management. This site's central location is highly used, and is a critical connection on campus serving over 6,000 students. This parking lot will serve as a demonstration site for arid environment research, education and outreach, providing a platform for studying and understanding the role of plants and microbes on remediation of street surface runoff, biogeochemical cycling and permeable pavement performance. (Re) Searching For a Spot will direct future green infrastructure retrofits on campus, and utilize its high visibility on campus to influence sustainable development of the surrounding desert.

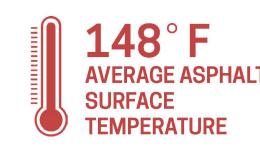


Treat 100% of a 25-year storm event

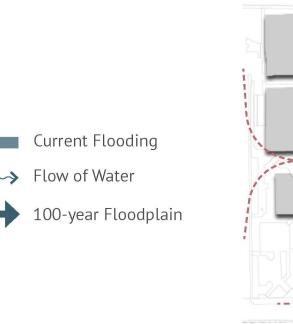
Provide infrastructure for collaborative

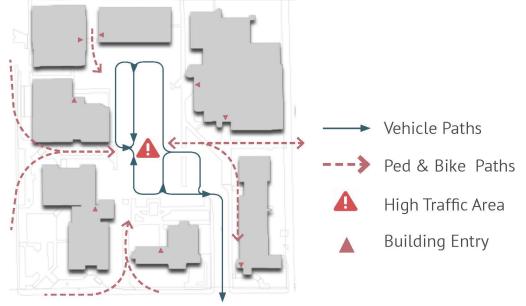
research and education on campus

Enhance multi-modal safety and

















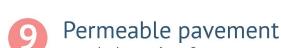


Food truck area









Landmark space

- public art & educational signage

Center for Creative Photography Richard A. Harvill Building Covered swale with tree grates Dept. of Civil Engineering Painted Crosswalk **UofA Speech** & Hearing Clinics asphalt testing & pavers

East Building

JofA Materials Lab

- real-time digital display signage

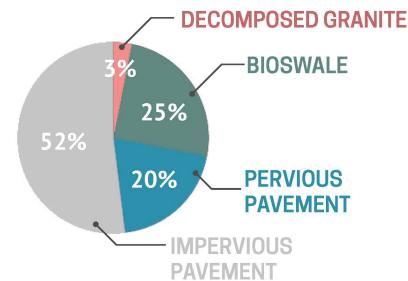
PERFORMANCE - ENVIRONMENTAL RESILIENCE

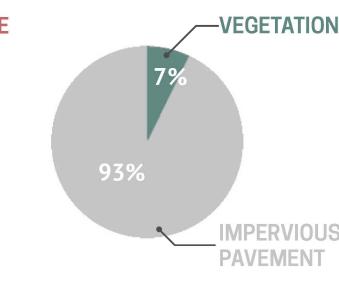
PARKING STALLS

Dept. of Electrical &

Computer Engineering

TIME OF CONCENTRATION











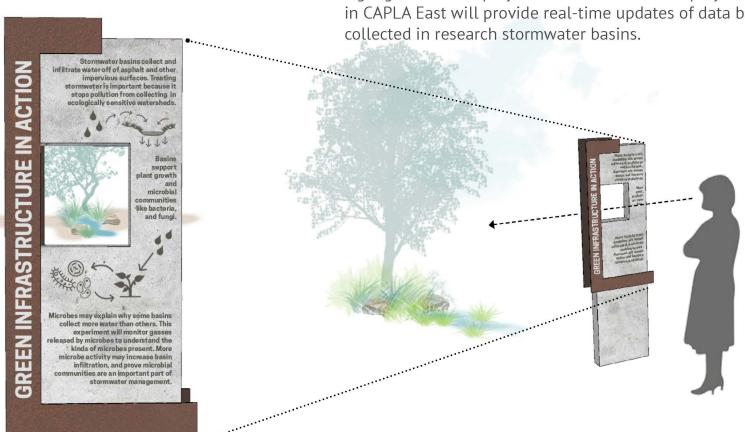
EDUCATIONAL SIGNAGE

Located near research basins, interpretative signage educates students and visitors about research being conducted. Physical signage will be displayed and an electronic display housed in CAPLA East will provide real-time updates of data being

Retrofit existing vegetation

- incorporate plants identified for

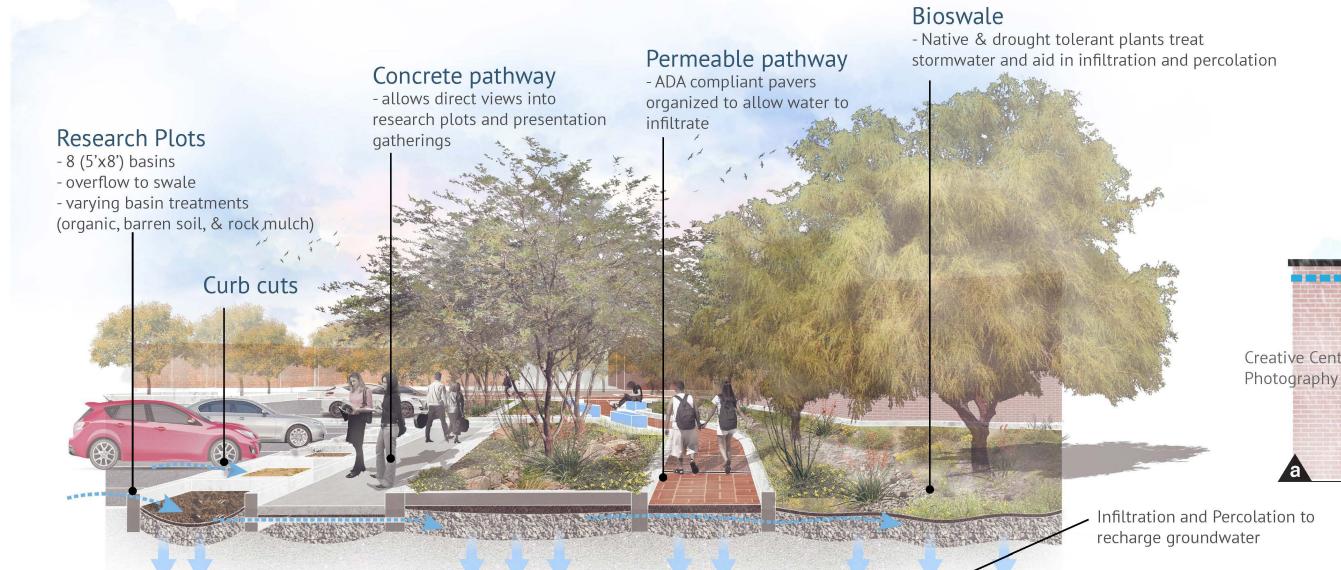
research with existing plants





PROJECT GOALS

Provide a platform for studying the role of plants and microbes on remediation of street surface runoff, biogeochemical cycling and permeable pavement performance.



College of Architecture, Planning, &

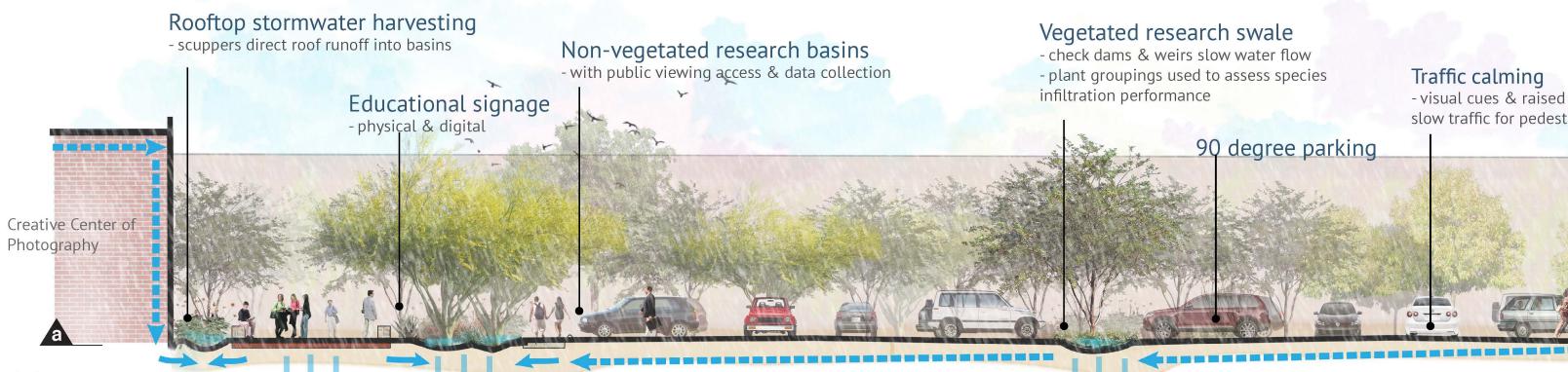
Landscape Architecture (CAPLA)

West Building

concrete swale —

Improved spatial and functional relationships between pedestrian, bike, and vehicle circulation, while addressing surface runoff, research, and educational activities

Water Flow on Site



Traffic calming

90 degree parking

- visual cues & raised crosswalks slow traffic for pedestrian safety