



STORMWATER ACTION CENTER FACT SHEET

Name of Project:

Arizona State University
Orange Mall Green
Infrastructure Project

Location:

Tempe, Arizona

County:

Maricopa County

Watershed:

Salt and Verde
River Watershed

Website:

www.landscapeperformance.org/case-study-briefs/arizona-state-university-orange-mall-green-infrastructure-project

ARIZONA STATE UNIVERSITY ORANGE MALL GREEN INFRASTRUCTURE PROJECT – TEMPE, ARIZONA

OVERVIEW:

Transformed an asphalt roadway into a performance-driven pedestrian mall and multi-use plaza for programmed events and informal social gatherings on campus.






BENEFITS:

- Directs 100% of runoff from a 10-year-storm through a series of bioretention and retention areas and on to an offsite infiltration well that recharges groundwater
- Saves an estimated 1,000 gallons of water annually by using building-generated air conditioner condensate as supplemental irrigation
- Improves water quality with net reduction in total phosphorus of stormwater as it passes through the bioretention basins
- Mitigates flooding by increasing on-site stormwater management capacity, lowering the high water elevation during a 100-year storm event by 1 inch
- Reduces mean radiant temperature by 22-24° F in areas that received added shade and by 4 °F in areas that did not receive added shade, as measured on a sunny afternoon, compared to adjacent areas with conditions similar to the site before the redesign
- Diverted 99.9% of demolition materials from the site and buildings from the landfill through recycling, repurposing, and composting

FUNDING SOURCES:

- Most likely state of Arizona, endowments, return on investments, possible grants, private investors, etc.



-  - Water Storage
-  - Habitat Restoration
-  - Flood Mitigation
-  - Bio-Filtration/Green Infrastructure
-  - New/Improved Drainage Infrastructure

