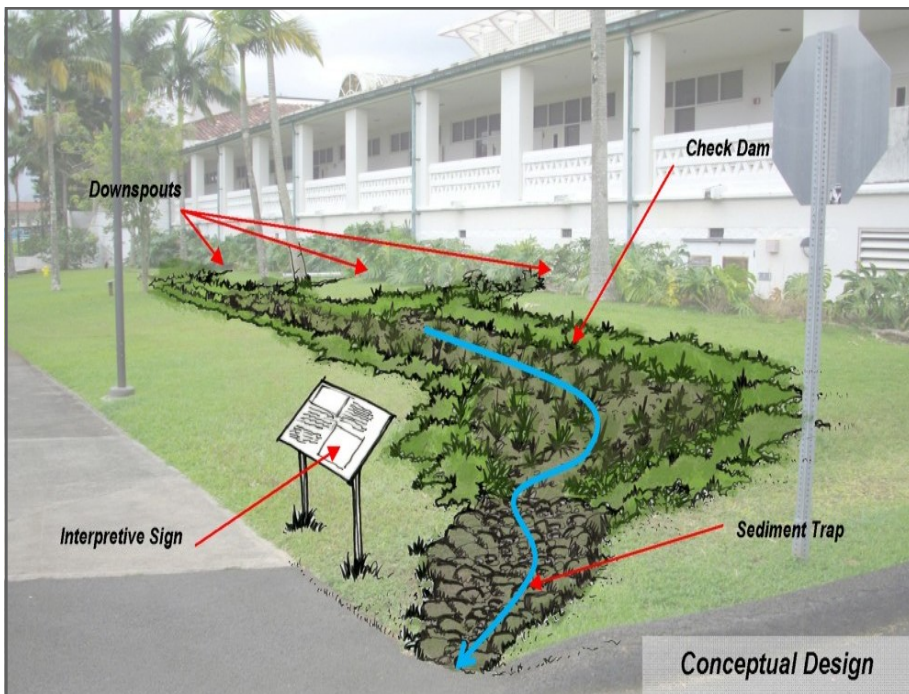


# Stormwater Management

In O'ahu, stormwater is routed directly off the land and into the nearest storm drain, stream and directly into the ocean, carrying with it a multitude of land-based pollutants. Hui o Ko'olaupoko implements projects that utilize rain water as a resource rather than a waste by designing and installing green infrastructure that mimics nature by capturing, storing, and/or directly infiltrating stormwater into the ground before it has the chance to become polluted runoff, which severely degrades our precious water resources.



Prior to implementation, potential sites are identified, prioritized and fully vetted for project feasibility. Next, we work to gain landowner consent, community and stakeholder consultation and conceptual design and engineering. Once funding is secured and the design is finalized, Hui o Ko'olaupoko works with community volunteers to do the project installation as well as ongoing maintenance and monitoring activities.



**Windward Community College Low Impact Retrofit** - Stormwater retrofits aim to re-develop existing infrastructure to capture stormwater before it becomes polluted runoff. This project was designed to capture stormwater runoff from 18,000 square feet of impervious surfaces (roof, road and parking lots) and directed into 3,000 square feet of rain gardens and native vegetation in front of the Hale 'Imiloa Science Building. (left and above)



**Rain Garden** - A deliberately built depression planted with native vegetation that allows stormwater to collect, briefly settle and then infiltrate into the ground. Rain gardens reduce the amount of land-based pollution entering into streams and the ocean by intercepting stormwater. (left)



**Popoi'a Street Stormwater Retrofit** - Installed pervious pavers and native plant filter strip along 12,000 sq. ft. of an existing parking lot owned by the City and County of Honolulu Parks. The project allows stormwater to be absorbed and filtered before entering into Ka'elepulu Stream. (above)

