

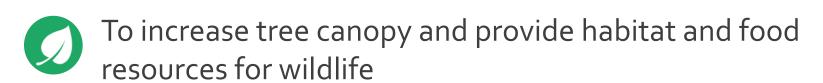






Goals To capture, detain, and infiltrate the 2-year, 24 hour storm event while preserving existing use as a loading dock





To provide opportunities for students, faculty, and staff to learn about stormwater best management practices

Site Context

The southern part of the campus lacks stormwater best management practices. The diner loading dock was chosen because of its impervious surface, lack of vegetation, and the high volume of student traffic.



To Anacostia River + **Chesapeake Bay**

Site Photos





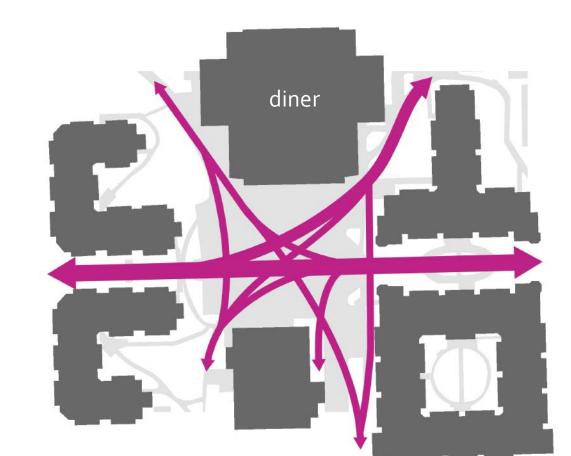
The site is 97% impervious with little tree canopy



Lack of circulation pattern creates conflicts for the different users

Challenges

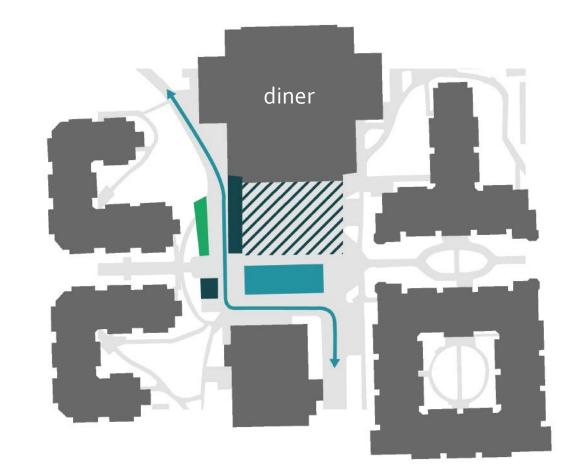
Pedestrian Circulation



A high volume of students cross the loading dock/ parking lot between classes and mealtimes

Pedestrian traffic

Existing Uses

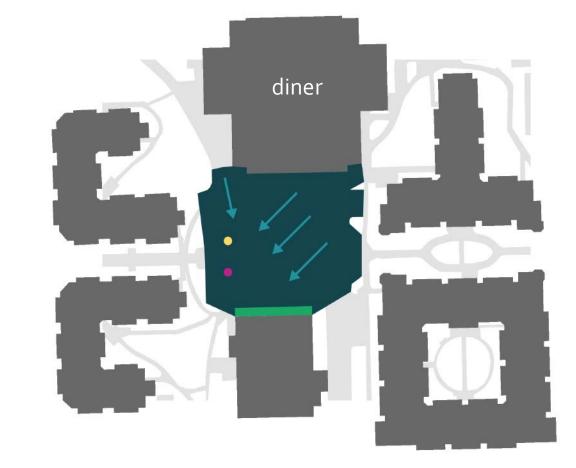


Current use of site as a loading dock and parking lot. The intersection of vehicular and pedestrian traffic creates safety concerns

— Fire Lane /// Loading Dock Service Parking (11) Handicap Parking (7)

Bikeshare

Drainage



The project site is 0.97 acre and 97% impervious. Runoff generally flows from the north and northeast to the drains on the southeast corner of the parking lot

Pervious Surface

Covered Drain (not working)

Impervious Surface Working Drain

After: **77%**

EPA Stormwater Calculator Before 83% 43% (Untreated)

canopy trees planted

D3 EPA Campus Rainworks Challenge

sqft of native planting

out of 28 parking spaces saved

Key



Permeable Paver Crosswalk

Site Plan O 🗘 🕡

Permeable Paver Parking

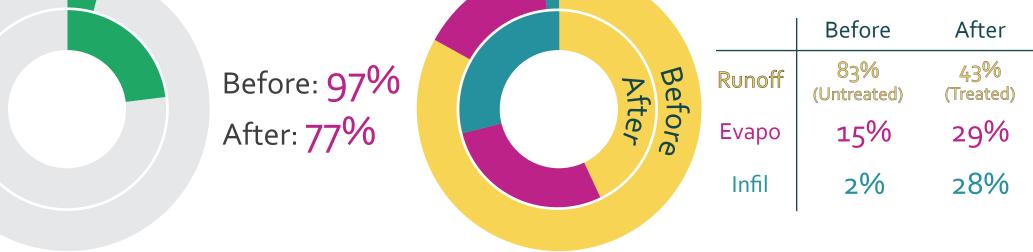
Bioretention Basin

Relocated Handicap Parking + Zagster Bikeshare

Diner

Artful Loading Dock Striping





Impervious Surface

Treatment of Stormwater