THE SITE

Terry Hershey Park provides access to the Library site via its hike and bike trails. Neighborhood access is possible from Langwood Street. Vehicular access is off of Eldridge Parkway.

SITE SIZE: 2.83 acres
A 325,000 gallon underground rain tank was constructed under the parking lot to detain and store rainwater for irrigation. This reduces the need for using treated water and other water sources for irrigation.
SOLUTIONS (RAIN TANK)

Tank Capacity
Total = 325,000 Gallons
Detention = 235,000 Gallons
Retention = 90,000 Gallons
All of the site Storm Run-Off is filtered by landscaping, bioswales, and a skimmer basket before entering the Rain Tank. Detention is achieved by a significant reduction in the rate of run-off, swale capacity, and restrictors that reduce the out-flow rates, mimicking the predeveloped site run-off rates.

83% Total Suspended Solids Removed

17% Reduction of Run-Off for 1 yr event

10% Reduction of Run-Off for 2 yr event
WHAT WENT WELL / WHAT DIDN’T

L.I.D. CASE STUDY

SUCCESSES
• Site Utilization / Maximization
• Rainwater for irrigation
• Landscape design, use of native plants
• Owner’s willingness to embrace change

LEARNING CURVE
• Lack of adequately located overflows
• Clay fines on site and in the bio-swale mix
• Lack of good filtration of surface trash
• Not all design team members on board with L.I.D.
MAINTENANCE

CHALLENGES

- Getting an institutional client to agree to “different” maintenance protocols, even if they don’t cost more
- There are not as many examples of successful maintenance sites to show clients to remove skepticism
- There is not an established industry to secure maintenance services from, which could cause some costs to be less competitive than they will over time