

PROJECT PROFILE

DECATUR PARKING LOT

ATLANTIS RAIN TANK INFILTRATION & WATER HARVESTING SYSTEM

5TH WARD, HOUSTON, TEXAS

PROJECT BACKGROUND

Kathleen English of English + Associates Architects, a past board member for the Greater Houston Chapter of the U.S. Green Building Council, is a proponent of rainwater harvesting and the use of Low Impact Development techniques. Rejecting conventional drainage strategies, she opted to upgrade her office parking lot to clean, capture, and reuse 16,000 gallons of rain water for irrigation.



THE BUSINESS CASE

By implementing Low Impact Development techniques, including infiltration to provide water quality, rain water harvesting, and the use of native plant species, Kathleen was able to virtually eliminate the use of potable water for her irrigation needs, while lessening the impacts the parking lot has on this historical

neighborhood and the local water bodies that are already prone to flooding. This decision has also provided a publicity boost for her firm and won the Urban Land Institute Development of Distinction Honorable Mention Award.

WHY MODULARITY MATTERS

The Decatur Parking Lot project was designed to be a case study that would encourage civil engineers, landscape architects, and architects to use Low Impact Development strategies on traditional, urban retrofit and sustainable design projects. This project was one of the first in this region that showed how Atlantis Raintank and Low Impact Development work together to maximize LEED points, and as a result we are seeing more and more LEED projects incorporate sustainable site design into their project. Below is a list of the LEED points that the Atlantis Products along with Low Impact Development techniques can contribute to on your next project.



“One of our primary goals was to demonstrate to our clients and the local design community that even small urban sites can affordably incorporate green site development strategies”

- Kathleen English, AIA
Principal
English + Associates Architect

Owner: English + Associates
Architect: English + Associates
Engineer: Brewer & Escalante
Contractor: TNT Consultants
Installer: Construction EcoServices
Harvested Volume: 16,000 gallons
Completion: February 2006

About Raintank

The Atlantis Raintank System is a modular storage system that can be used for detention, rainwater harvesting, or ground water recharge. The Raintank’s modular design and compact footprint makes it ideal and cost effective for all types of applications.



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Credits Earned

- SS Credit 5.1: Site Development: Protect or Restore Habitat
- SS Credit 5.2: Site Development: Maximize Open Space
- SS Credit 6.1: Storm Water Design: Quantity Control
- SS Credit 6.2: Storm Water Design: Quality Control
- SS Credit 7.1: Heat Island Effect: Non-Roof
- WE Credit 1.1: Water Efficient Landscaping: 50% Reduction
- WE Credit 1.2: Water Efficient Landscaping: 100% Reduction
- MR Credit 4.1: Recycled Content: 10%
- MR Credit 4.2: Recycled Content: 20%

PROJECT PROFILE

**Raintank Rainwater
Infiltration & Harvesting**
1919 Decatur St.
Houston, Texas 77007

100 % Reduced Potable Water Use

90 % Removal of TSS

100% Green

PROJECT TEAM

Design Team

Architect

English + Associates

Civil Engineer

Brewer & Escalante

Construction Team

General Contractor

TNT Consultants

Installation

Construction EcoServices



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