

PROJECT PROFILE

R-Tank Underground Detention

Thirty Sunset Blvd

Houston, Texas

95% Void Interior

90% Efficiency

50% Smaller Footprint



Design Team

Architect

Röhe & Wright Builders

Civil Engineer

Jacob's Carter Burgess

Construction Team

General Contractor

Röhe & Wright Builders

Installation

Backup Utilities

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R-Tank Underground Detention
30 Sunset Blvd
Houston , Texas



Owner: Houston Sunset Development III
Architect: Röhe & Wright Builders
Engineer: Jacob's Carter Burgess
Contractor: Röhe & Wright Builders
Site Contractor: Backup Utilities
Detention Volume: 13,000 CF
Completion: June 2008

Project Background

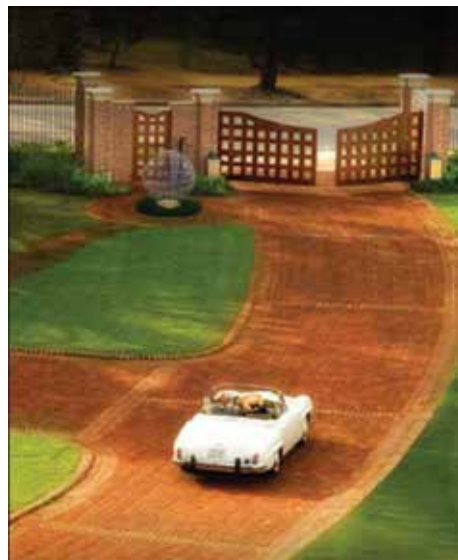
Nestled in Houston's prestigious South Hampton Neighborhood across from Rice University, Thirty Sunset is an urban oasis that boasts five home sites ranging from 6,000 to 7,000 square feet and starting at 2.5 million.

The Business Case

Rohe & Wright Builders envisioned an old world feel to the high tech homes at Thirty Sunset. To achieve that look within the landscaping, a traditional detention pond was not an option. Rohe & Wright Builders sought out the services of Jacob's Carter Burgess Engineers to design an underground detention facility that had both the flexibility to meet the site constraints and the efficiency to store the necessary volume in the limited amount of space that was allotted. Only the R-Tank met each of these needs.

Why Flexibility Matters

The flexibility of an underground detention system often goes unnoticed, but for the Thirty Sunset development flexibility was a necessity. In order to get the density within the development given the awkward shape of the property, the porous paver driveway had to be arched. R-Tanks flexibility allowed the engineer to follow the contour of the driveway in three different sections in order to meet the total detention capacity on the site. When it comes to site design, there is no other system that the R-Tank that is mre flexible and easier to layout. R-Tanks porous membrane also makes it ideal for use as an under drain system for porous pavers allowing developers to virtually eliminate catch basins and storm pipe on a site.



About R-Tank

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