

PROJECT PROFILE

R-Tank Underground Detention

1600 River Oaks Boulevard

Houston, Texas 77019



Design Team

Architect

Kirksey

Civil Engineer

Klotz Associates

Construction Team

General Contractor

Tellepsen

Site Contractor

Raven Mechanical

95% Void Interior

90% Efficiency

50% Smaller Footprint

PROJECT PROFILE

R-Tank Underground Detention
River Oaks Country Club
Houston, Texas



Owner: River Oaks Country Club
Architect: Kirksey
Engineer: Klotz Associates
Contractor: Tellepsen
Site Contractor: Raven Mechanical
Detention Volume: 8,000 CF
Cost PCF: \$10.00
Completion: May 2008

Project Background

From the moment of its creation, the River Oaks Country Club has made a tradition of seeking out the best designers and architects to create a golf course and club environment to exceed members' expectations. 84 years after John E. Staub completed the original Spanish Colonial clubhouse, Kirksey Architects is maintaining the tradition of a world class country club during the remodeling and expansion of the country club facility. In May of 2007 it was announced that by the United States Tennis Association that River Oaks Country club would be the new host of the Men's Clay Court Championships. With that announcement came a plan to renovate and expand their current tennis facility.

The Business Case

Although River Oaks Country Club had been around for over eight decades, they were still not exempt from detention requirements associated with increasing the impervious area. After adding over half a dozen tennis courts, their increase runoff had to be detained and restricted to meet local regulations. Kirksey employed Klotz and Associates, a Houston based civil engineering firm, to help mull through the regulations and offer expertise. The one restriction was that the detention could not be seen. Klotz and Associates recommended the R-Tank Underground Detention system because of its strength, flexibility, and cost.



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About R-Tank

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.