

Detention Tank

Project Location	Avondale House Houston, Texas, U.S.A.	Completion Date	April 2007
Project Details	Detention Tank Application for School		



Atlantis[®] D-Raintank[®]/Matrix[®] tank underground detention must be considered in places where detention is required and children will be playing.

Avondale House is a Houston based non-profit school for children that have been diagnosed with autism. It's no wonder they chose Atlantis[®] D-Raintank[®]/Matrix[®] tank underground detention for the safety and wellbeing of their students.

Storage Volume: 20,000 CF/566m³

Surface ponds in Harris County claim the lives of six children per year on average. For areas with high concentrations of children playing, more and more developers and school districts are looking to underground detention to help alleviate the risks and liabilities associated with surface ponds.

As with all non-profits, money can be tight and revenue is based primarily on donations. As a result, it was imperative that Avondale House selects an underground detention solution that wouldn't break the bank. Because of Atlantis[®] D-Raintank[®]/Matrix[®] tank efficiency it fits in a 50% smaller excavation than other systems. With its vertical baffles, has the strength to support vehicle loading (H-20) without the use of expensive backfill material. This combination of reduced excavation due to structural efficiency and the reduction in the amount and cost of backfill materials, when compared to pipe and arch chamber systems, allowed this project to achieve a US \$50,000 cost savings in site excavation and backfill alone.



Architect: Curry Boudreaux Architects

Civil Engineer: KMS Engineers

Distributor: ECO Construction Services

Note: Atlantis[®] products are manufactured from high quality recycled materials, carefully selected and under strict quality control procedures. The strength could vary slightly due to raw material, country of manufacture, manufacturing process and external conditions.

Safety Factors: Engineers, designers and geotechnical engineers should design and calculate safety factors to a serviceable limited state to suit specific project. In case of doubt, consult your nearest distributor or Atlantis representative.

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