

CASE STUDY

Bruce B. Downs VA Clinic Tampa, Florida

Storage Required:	60,500 CF
Storage Provided:	60,561 CF
Area:	34,244 SF
Models:	Recharger 280 HD
Number of Units:	853
Tons of Stone:	2,900 Required
Installed:	December 2008
Project Engineer:	Otero Engineering, Inc. Tampa, FL
Contractor:	Schaer Development of Central Florida Land O' Lakes, FL



The James A. Haley Veterans' (VA) Hospital in Tampa, Fla., is one of the largest and busiest VA facilities in the U.S. To help ease the patient traffic, several VA clinics are being developed in the vicinity of the Hospital to serve as its outpatient services satellites. Among them is the Bruce B. Downs VA clinic.

When it came to designing stormwater systems for the clinic, owner and developer Knut Horneland was faced with a challenge of space constraints. Drainage ponds, commonly used in Tampa, take up valuable space. Horneland opted for underground stormwater systems, which he had successfully used before. He selected CULTEC Recharger® models for both developments due to their cost-effectiveness.

“As we have so little space available for development in Tampa, we need to use land creatively and efficiently,” said Horneland. “CULTEC underground systems freed up areas that otherwise would have been occupied by stormwater ponds. CULTEC products also proved to be very cost-efficient and allowed the projects to achieve substantial cost-savings.”

According to Horneland, the CULTEC system on the Bruce B. Downs' installation savings were about 20 percent, compared to the costs of precast and corrugated pipe systems.

The Bruce B. Downs VA clinic is located on three acres and includes a 16,244 sq. ft. pharmacy and an 18,000 sq. ft. oncology building with a vault for radiological treatment. To gain additional space, the developer placed the oncology clinic in the area previously occupied by a stormwater pond.

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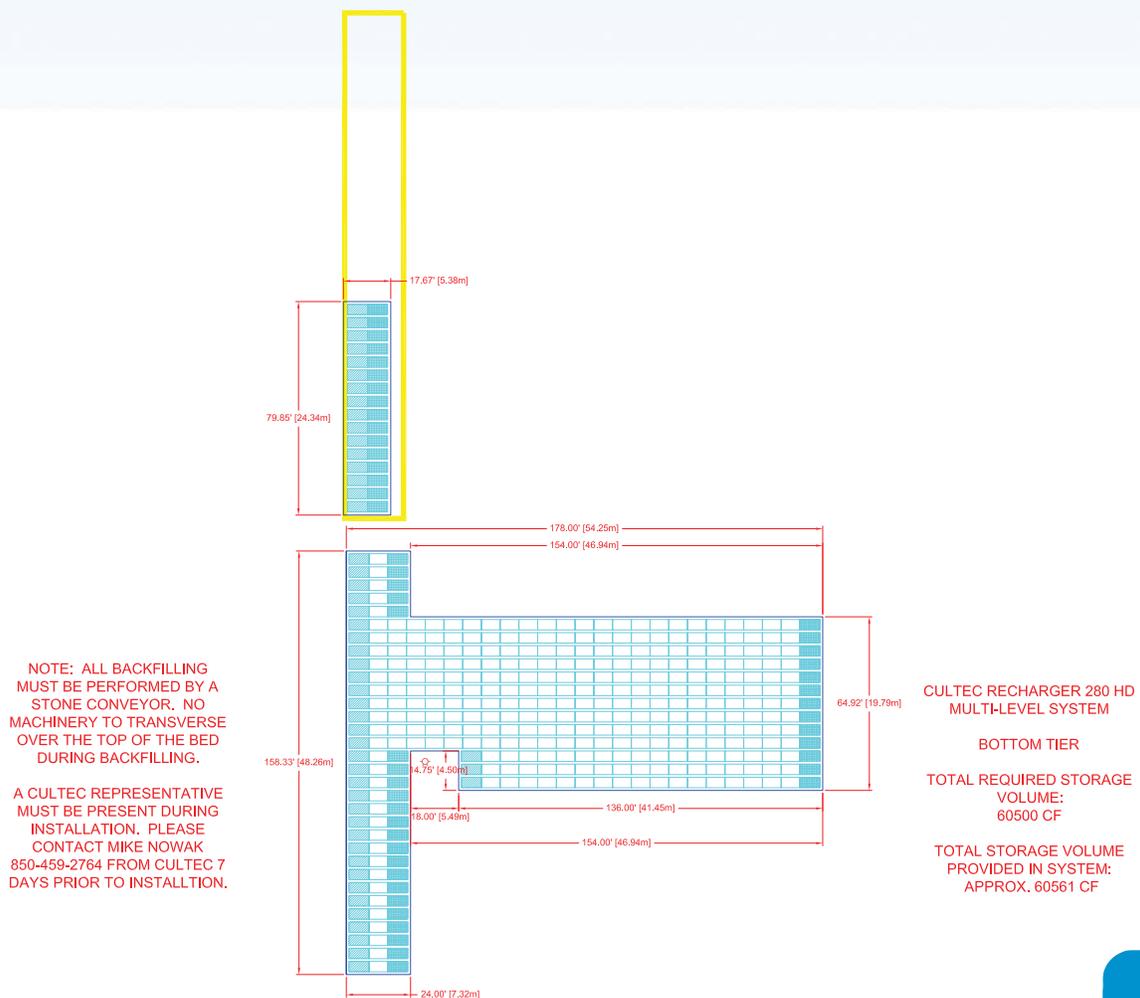
Bruce B. Downs' VA Clinic

Tampa, Florida *(continued)*

The new 1/2 -acre lot designated for the stormwater system had some loose soil areas, so the vibratory compaction process was used to compress the earth, lowering the surface by about a foot.

To meet the project's 60,500 cu. ft. storage requirement, the CULTEC staff designed a two-tier retention system, which required 853 Recharger 280 HD units and 2,900 tons of backfill stone.

CULTEC's Recharger products are high-profile, high-capacity plastic chambers designed for underground stormwater detention and retention. They are specifically designed for use in traffic applications, meet the strictest industry requirements, including IAPMO R&T certification, and are backed by a 10-year warranty. For more information about CULTEC and its products, visit www.cultec.com.



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