Small Footprint, Big Storage  The Triton SWS Double-Stack Solution

The Situation

When the city of St. Cloud, Minnesota, needed a comprehensive underground stormwater management solution to support the expansion of its Civic Center, project engineers looked for a system able to accommodate the large volume of water associated with the new development that could also fit the restrictive footprint dictated by the site – while meeting the state’s stringent B-3 guidelines for stormwater management.

The Solution

It was a tall order – considering that more than 3 acres of impervious surface would drain into a retention area of just 36’ x 140’.

Fortunately, there is one system that can “stack” up against such a task.

With its unique combination of storage volume and strength, Triton Stormwater Solutions gave the development team the tool they needed. Unlike competitive systems, which require large drainage fields to satisfy their design limitations, Triton chambers are strong enough to be stacked in a two-tier configuration – essentially doubling the storage volume without expanding the size of the drain-field!

The Installation

After the initial establishment of the drainage field, the first tier of Triton Chambers was installed. Lightweight, easy to handle, and requiring no special machinery, all the Triton Chambers were installed in less than 6 hours.

*The next step is the one that sets Triton apart.*

A one-foot layer of stone is added to top the under tier of chambers.
Again, the crew quickly places the chambers – including the innovative Main Header Row that allows for a host of pre-treatment options.

Another 9.5” of fill is placed over the stacked chambers, and the site was ready for paving.

In total, 598 chambers were placed in less than a day – with the entire stormwater management project being completed in just one week!

And while the Triton system left a small footprint – it made a big impression:

“\textit{The installation went quite well, despite it being our first experience with the Triton chambers. I would recommend the Triton system to anyone!}”

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\textit{– PAUL MOLITOR, SITE SUPERVISOR}\\
\textit{MOLITOR CONSTRUCTION}
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www.tritonsws.com/video

To view the video of the installation please visit the video page on our website or type the link above into your browser.