

Triton SWS' Strength, Storage Capacity Come Through for Lowe's Project



The Situation:

Lowe's Home Improvement Centers needed strong, state-of-the-art underground stormwater management for its new store in Silverthorne, Colorado. The 11.5-acre site featured sloping terrain and required a small stormwater storage footprint with proven protection of water quality.

The Solution:

The Triton SWS chambers met the project engineers' needs on every level.

The layout of the project site meant that the underground chambers would need to be strong enough to withstand 21 feet of backfill weight. Additionally, the Silverthorne project site was subject to the stringent water-quality standards of the greater-Denver region.



Triton SWS' ease of installation coupled with its unrivaled strength and storage capacity made it a natural for the Lowe's Home Improvement Center project.

Because of these factors – and the demand for storage capacity – the Triton SWS system was the obvious choice. The unrivaled strength of the Triton SWS chambers, coupled with their generous storage capacity meant that the basic needs could easily be met. What's more, the innovative Triton SWS Main Header Row allowed the necessary pre-treatment of the incoming stormwater, satisfying the stringent water quality standards adopted by the city of Silverthorne.

The Main Header Row, which collects water before it is distributed to the storage rows, also allows debris to filter out for easy removal – simplifying maintenance, and preventing the buildup of troublesome sediments in the storage chambers.

The Installation:

After initial site preparation, which included excavation and placement of crushed stone and geo-fabric, the needed Main Header Row and Distribution Row chambers were installed in less than a day. In total, 35,000 cubic feet of storage capacity was created. The Main Header Row also was fitted with an oil-separating pre-treatment device to protect water quality.

The chambers then were covered with the needed stone and fill dirt to accommodate the natural slope of the terrain, with some chambers more than 10 feet below the surface.



The small installation crew placed chambers to create 35,000 cubic feet of storage capacity in less than a day.



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