

NDS Double Stack Water Storage System Solves Drainage Issue for Mattison Estates

Project Name: Mattison Estates

Location: Ambler, PA

Property Size: Commercial >10 Acres

Products: StormChambers

Property Type: Condo/Townhouse Complex

Partners: Alan Myers, Contractor



Challenge: Historical property needed drainage solution where a pond once stood

Historically part of the Archdiocese of Philadelphia, the newly developed Mattison Estates had a modern-day irrigation problem. In 2020, the builders for this new housing community called the NDS team to help troubleshoot and propose a solution for stormwater storage since transforming a once pond into a soil-filled landscaped area. After consulting with the developer and contractor, NDS determined engineering would require an underground volume that reflected the original amount of water storage.

Solution: NDS proposed multi-layer water management system to accommodate space constraints

As the only arched dome manufacturer, NDS provided the contractor with a double-stacked stormchamber. The NDS StormChambers maximize storage volume in limited footprints due to their ability to be installed in up to four layers. Each StormChamber provides 75ft³ (2.12 m³) of internal storage capacity or 115ft³ (3.26 m³) of installed storage capacity with the minimum stone requirement. This is significantly more storage per chamber than similar size chambers, which results in fewer chambers and a smaller footprint. The contractor researched other systems (that proved to be too labor intensive), ultimately deciding that NDS offered the only solution that could withstand the weight of a small track machine. This allowed the contractor to continue to work on the site without worrying about any damage to the system.

Impact: Durable construction saved contractor time and costs

A 6-inch cover of stone for drivability was noted as a differentiator throughout the course of the installation. The contractor loved this feature as it saved them several hours of time when installing the underground basin. In addition, StormChamber systems are cost-effective and require less maintenance than other types of underground stormwater management systems.

"I appreciated the durability and the ease of installation with this multi-layer system."

- Site Supervisor

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