

FOCALPOINT FOR EDUCATION

BALTIMORE, MD

INITIAL CONCERN

In Baltimore, a local elementary school decided it was time to add a new educational opportunity for students, augment their stormwater runoff techniques and become more visually appealing. The school has received a grant that had a stipulation tied to education value of the spending, so they identified stormwater management as a good candidate for the grant. The school is located on a small parcel of land in an urban setting that does not have much permeable surface area for stormwater to penetrate.

Goal

Build a visually appealing, small footprint, educational micro-bioretenention stormwater system.

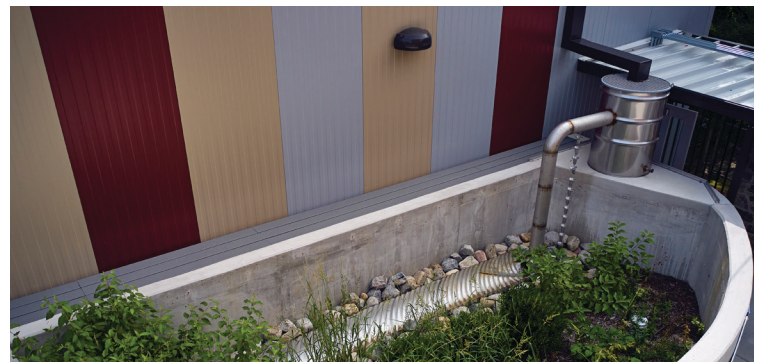
Installation/Solution

After investigating some options, it became clear to the design team that a FocalPoint Biofiltration system tailored to an educational experience would fulfill all of the school's needs and would allow the grant money to be approved for spending. To satisfy the need for educational purpose, the engineers designed a raised micro-bioretenention planter complete with concrete steps and many features that will enhance the educational experience.

The school building features an angled roof that directs stormwater to one central rain spout. Captured stormwater is then filtered into a cistern for treatment, and overflow is discharged down a rain chain, through a pipe, and then into a trough which evenly distributes flow across the planter system. The FocalPoint high flow media works in combination with the plantings in the bed to filter the captured runoff. Below the planter, R-Tank modules were added for additional rainwater storage capacity.



Cramped space and angled roof of the school.



Cistern being fed by chute from corner of the roof.

RESULTS

The small footprint capability of the FocalPoint high flow media allowed water quality treatment for the entire project to be achieved in the raised planter bed. Not only is the micro-bioretenention system serving as an effective means for stormwater management, teachers at the elementary school are also taking advantage of it as an interactive tool for their classrooms to visit.

The school is happy about their improved curb appeal, new educational tool and improved stormwater management practices.

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ADDITIONAL PHOTOS



Finished FocalPoint planter system in courtyard.



Educational placards for outdoor lessons.



Inside view of the planted FocalPoint biofiltration planter box system.

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