FocalPoint Biofiltration Provides Efficient Pre-Treatment for R-Tank\(^{HD}\) Infiltration Bed in Green Infrastructure Application

- Filters stormwater using the physical, chemical, and biological mechanisms of a soil, plant, and microbe complex to remove pollutants typically found in urban runoff.
- FocalPoint gives designers maximum flexibility in meeting both water quality and water volume requirements.
- The R-Tank\(^{HD}\) Stormwater Storage System provides a high efficiency under-drain for FocalPoint and can be expanded to handle larger volumes for projects like the project shown in this pictorial.

FOCALPOINT BIOFILTRATION SYSTEM PROFILE

- 3" Layer of Shredded Hardwood Mulch: Pre-treatment mechanism. Removal and replacement of mulch represents the bulk of system maintenance.
- 6" Bridging Stone & Separation Layer: Clog-proof clean stone & micro-mesh replace traditional geotextile layer. No geotextile = no clogging.
- 18" High Performance Media: Flows at 100" per hour, resistant to clogging.
- Pollutant Removal: TSS = 91%, Nitrogen = 48%, Phosphorus = 66%.
- High Performance Underdrain: 9.45" modular tank, or "flat pipe" w/95% open surface collects water efficiently. Optional 2" low-profile panel addresses shallow applications. Expand into modular tanks for larger storage needs.

Installation area is prepared (excavated with a flat bottom) and then R-Tank\(^{HD}\) "Single" modules are placed.

Bypass structure FocalPoint observation/maintenance port are placed and system is enveloped in geotextile.

Additional R-Tank storage volume is placed adjacent to FocalPoint underdrain (Drone view at right).
Separation mesh is placed directly on top of R-Tank underdrain and then a form is created to facilitate construction of the FocalPoint Biofilter. Bridging stone is placed on mesh and then high performance media placed on top of the bridging stone.

FocalPoint Biofilter is sealed with liner and geotextile to protect it from construction phase sediment control. Wrap is removed and system is activated when the surrounding site is complete and stabilized.

Bayside Anchor Housing Development
Oxford/Boyd St Portland Maine
Engineer: Ransom Environmental  Contractor: Peters Construction

FocalPoint Biofilter provided compliance for water quality standard in a footprint that would not support traditional water quality treatment technology.

ACF’s Engineering team can provide project specific support or you can access the tools below:

- Specifications
- Calculator
- CAD Details
- Flow Rate & Pollutant Removal Documentation
- Media Certification
- Installation & Maintenance Manuals
- Performance Guarantee
- And More!