

**DID YOU KNOW?**

34,000 Gallons of runoff is generated by one inch of rain in just the project area alone! That runoff is now being captured, treated, slowed, and cooled below ground prior to discharging to Chautauqua Lake.

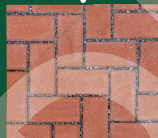
**100% RUNOFF REDUCTION**



**PERMEABLE PAVERS**

**What is Green Infrastructure?**

- Technique used to capture and treat stormwater runoff, and prevent pollutants from entering rivers & lakes.
- "...Incorporates the natural environment and constructed systems that mimic natural processes in an integrated network that benefits nature and people." -National Oceanic and Atmospheric Administration (NOAA)
- Alters drainage patterns and relieves localized ponding which currently leads to pavement quality reduction and erosion.
- Incorporates green, sustainable design elements to assist in beautifying the area, increasing property values, and promoting economic viability of the Village.



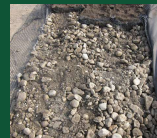
Permeable Concrete Pavers



Street Trees



Permeable Flexi-pave



Structural CU Soil



**Permeable Interlocking Concrete Pavers**

Designed to infiltrate rainfall through the pavement surface, thereby reducing stormwater runoff quantities. Proposed permeable concrete pavers are located at the intersections and crosswalks, and within the tree trench areas along the sidewalks.



**Stormwater Tree Plantings**

New trees are proposed throughout the streetscape to increase biodiversity, intercept precipitation, reduce urban heat island effect, and absorb carbon, nitrogen, and particulate matter.



**Permeable Flexi-pave**

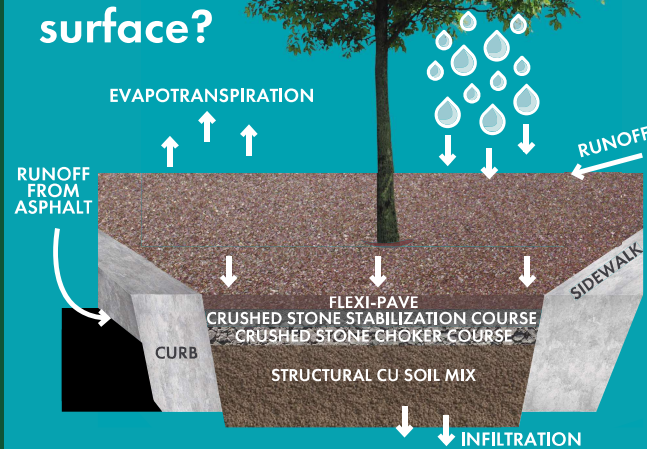
Flexi-pave allows water to soak into the ground instead of running directly into drainages and underground connections to the Lake, some is made from recycled tires and stone and is easily identifiable by its brick red color.



**Structural Cornell University (CU) Soil**

Stone storage below porous clay brick pavers. CU structural soil provides ample rooting area for the street trees and allows for stormwater capture and harvest until it can infiltrate into the ground.

**What is below the surface?**



**NEW YORK STATE** Environmental Facilities Corporation