

VILLAGE OF SHERMAN

Green Infrastructure Retrofit Practices along Main Street

The Village is currently experiencing issues related to stormwater quality/quantity along Main St. The proposed project will implement a new stormwater management system using a series of green infrastructure (GI) elements to address/improve the Village's increased stormwater flow along Main Street and the quality of run-off discharging to French Creek. The lack of mitigation practices, inadequate management and conveyance systems, and large amount of impervious surfaces are the primary contributors to localized flooding and the need for improvements. The GI improvements will include permeable asphalt pavement on-street parking, flexible porous pavement within the pedestrian zone, stormwater infiltration trees, bioretention bump-outs, downspout disconnections, public parking and trailhead improvements, a riparian buffer, and an overall reduction of 5% of impervious surfaces. In addition to providing an inviting gateway with streetscape improvements, the proposed project will provide an excellent example of how GI practices can be retrofitted to improve traditional stormwater management issues within a small village setting and will be a showcase project for neighboring communities.



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.



Flexible Porous Pavement

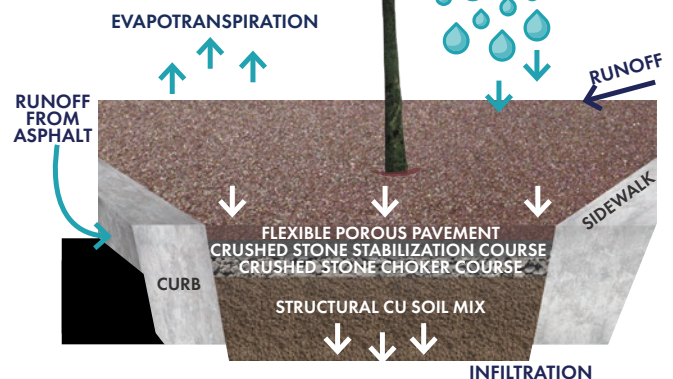
Flexible porous pavement allows water to soak into the ground instead of running directly into drainages and underground connections to the French Creek, some is made from recycled tires and stone and is easily identifiable by its brick red color.



Structural Cornell University (CU) Soil

Stone storage below porous clay flexi-pave. 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?





GI Retrofit Practices

- 1 Bioretention Bumpouts
- 2 Permeable Asphalt On-Street Parking
- 3 Flexible Porous Pavement
- 4 Concrete Sidewalk
- 5 Eastern + Western Gateways
- 6 Downspout Disconnections
- 7 Public Parking Improvements
- 8 Riparian Buffer Area
- 9 Reduced Driveway Widths
- 10 Interpretive Signage
- 11 Pedestrian Crossings
- 12 Shared Lane Markings
- 13 Trailhead Improvements

About the Green Infrastructure Grant Program

The Village of Sherman is applying for this GIGP grant to fund up to 90% of eligible project costs for its marquis betterment project within is downtown business district. This \$2.2 million project represents the first phase of the \$5 million comprehensive stormwater management project recommended in the CDBG funded engineering study. The Village has been awarded \$3.5m from the USDA Rural Development at a 1.25% interest rate to be applied as the base loan financing for the entire project; however, RD does not offer grants for stormwater management projects. The Village is in the process of designing major upgrades to its water and sanitary sewer systems, and has secured NYSEFC and USDA Rural Development loans/grants for these projects. This project represents the highest impact to the Village's economy, safety and quality of life, as well as long-term benefits to water quality.

