



Location Map





Monroe Avenue Greenway Concept



GREEN INFRASTRUCTURE TOOLBOX

- Pervious concrete sidewalks, under-drained as required
- Storm water tree trenches manage run-off and provide water to street trees
- CU Structural Soils to improve infiltration, root growth and street tree survivability
- De-pave and restore green strips between sidewalk and curb
- · New street trees improve air quality, intercept rainwater, enhance micro-climate and provide traffic calming
- Rest spots enhance walkability for residents of all mobility levels
- Bio-retention swales cleanse storm water run-off and enhance urban ecology
- Interpretive displays inform and educate
- Improved visual quality increases property values and economic vibrancy







Concept Project

Allens Creek Area Improvements SK-2



EXISTING ALLENS CREEK CORBETT'S GLEN OVERLOOK





(Not to Scale) 1'-4" h -DOUBLE 2" X 12 BEAM 2" X 6" JOIST -2" X 6" RIM JOIST (TYP.) " X 8' ACIA (TYP) 9'-8"

(Not to Scale)

Brighton, Monroe County, New York

Concept Project Allens Creek Overlook



ALLENS CREEK OVERLOOK CONCEPT

IMPROVEMENTS

1 Creek Overlook

Durable recycled composite decking. Handrail relates to the design vocabulary of the Monroe Avenue Corridor Improvements; creating a visual identity for the corridor. 2

Concept graphic, not to scale, not for construction

2 Helical Pier Foundation

Low-impact foundation system, no placement of fill is required. Surface and sub-surface hydrology are unimpeded by the structure.

3 Informational / Educational Display Provides information about Allens Creek and the associated

watersheds. Learning opportunities are stimulated through interaction with, and observation of the existing ecosystem.

4 Seating

Provides rest areas for visitors. Acts an outdoor dining area for customers of the nearby restaurants.

Slows the flow of run off water into the creek and allows infiltration.



Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project Allens Creek Overlook



ALLENS CREEK WATERSHED

WELCOME TO THE MONROE AVENUE **GREEN CORRIDOR!**

The Monroe Avenue Green Corridor spans about one mile from Elmwood Avenue to Westfall Road. The Town of Brighton is purposefully evolving as a sustainable community. Energy conservation, natural resource protection and waste reduction are vitally important to our community. Reintegrating natural systems into the urbanized environment enhances the valuable services that nature provides the human environment, such as filtering stormwater, reducing the heat island effect, creating wildlife habitat, and inviting people to walk, bike, and enjoy their beautiful neighborhoods.



YOU'RE IN THE ALLENS CREEK WATERSHED

WHAT IS STORMWATER? WHY IS IT IMPORTANT?

Stormwater is water from melting snow or rain that does not seep into the ground, but runs off of surfaces such as rooftops, paved streets, highways, and parking lots and is released untreated into our waterways. Stormwater runoff is important for two main reasons. First, stormwater runoff transports an assortment of pollutants that are harmful to water bodies, drinking water, and habitat. Second, during large storms or snow melt, the volume of stormwater is increased and could cause flooding, property damage, or harm the fish and wildlife habitat.

HOW DOES STORMWATER AFFECT WATER QUALITY?

Some of the current stormwater management practices allow for pollution of our water bodies. As it flows, stormwater runoff collects pollutants such as fertilizers, pesticides, automotive fluids, bacteria, sediments, litter, and pet waste and transports these contaminants from parking lots, roads, and driveways to the nearest waterway. Pollution carried by stormwater degrades the quality of drinking water, and damages the habitat of plants and animals that depend on clean water for survival. In addition, large impervious surfaces in urban areas increase the quantity of peak flows of runoff, which end up causing impacts such as eroded stream banks, alteration of natural systems and wetlands, increased sedimentation, and loss of habitat.



The Monroe Avenue Green Corridor encompasses approximately 17.81 acres 12.96 acres are impervious surfaces (nearly 73% of the total area!) The corridor could produce approximately 7.8 million gallons of runoff per year That's enough runoff to nearly fill **12 Olympic sized swimming pools!**

Monroe Avenue Green Corridor



DID YOU KNOW?

Based on an average annual local rainfall of 30 inches, 1 acre of impervious surface can produce 600,000 gallons of runoff per year That's enough runoff to nearly fill an olympic-sized swimming pool!

LETS DO THE MATH

WHAT IS A WATERSHED?

A watershed is an area of land that drains all the streams and rainfall to a common outlet such as the mouth of a bay or lake, the outflow of a reservoir, or any point along a stream or channel. The watershed consists of surface water – lakes, streams, reservoirs, and wetlands – and all the underlying ground water. Watersheds are important because the and the water quality of all bodies of water are affected by things, human-induce or not, happening to all the land area throughout the watershed.

ALLENS CREEK WATERSHED

The Monroe Avenue Green Corridor lies within two watershed areas; the Buckland Creek watershed to the North and the Allens Creek Watershed to the South. The watershed divide between the two creeks falls at the approximate mid-point of the Green Corridor. Allens Creek is a tributary of Irondequoit Creek, which flows to Irondequoit Bay and Lake Ontario. Any stormwater runoff within this watershed seeps into the ground or drains downslope through a network of channels and streams reaching Allens Creek, and ultimately reaching Irondequoit Creek, Irondequoit Bay and Lake Ontario. The Great Lakes contain more than 20% of Earth's surface freshwater. The NYSDEC lists Allens Creek on its Priority Waterbodies List with a state classification of B(t). The best usages of Class B waters are primary and secondary contact recreation and fishing. Allens Creek is designated (t), indicating the support of trout.

ALLENS CREEK & CORBETT'S GLEN

Allens Creek flows through the historic Corbett's Glen. Carved by glaciers, portions of this valley have been safeguarded from development due to steep slopes that surround and protect it. The secluded valley in Brighton offers an oasis of sight, sound, and remarkable natural features in an otherwise densely developed suburban area. The Glen has walking trails and educational resources to allow for use and enjoyment. The overall intent of Corbett's Glen is to strike a balance between development for passive recreational use and preservation of scenic, natural, and cultural resources.

IMPROVEMENTS

The eco-swale is estimated to cleanse approximately (x.x) gallons of water per year.

ECO-SWALE

Designed to filter and manage runoff while mimicking natural systems through native plantings. The eco-swale is a multi-functional green space that provides benefits including effective breakdown and removal/immobilization of pollutants found in urban runoff, increased stormwater infiltration time, increased wildlife habitat and biodiversity, and decreased reliance on existing stormwater infrastructure and treatment facilities.

PERVIOUS CONCRETE

Designed to infiltrate rainfall through the pavement surface, thereby reducing stormwater runoff quantities.







Concept Project

Buckland Creek Area Improvements





6





IMPROVEMENTS

De-pave and Install Native Grass Buffer Plantings

2

- 2 Improved Concrete Box Culvert
- 3 New Handrail
- 4 Informational / Educational Display
- **5** Pervious Concrete Pavement
- 6 New Bench
- Buckland Creek Restoration Project Concept graphic, not to scale, not for construction



Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project

Buckland Creek Area Improvements





Concept Project

Buckland Creek Area Improvements



TWELVE CORNERS MIDDLE SCHOOL

IMPROVEMENTS

487

SUCH

6

20°

- from the existing parking area.
- 2 Emergent Wetland Plants
- **3** Upland Herbaceous and Woody Plants
- Creek Re-Alignment; provides reduced velocity of the creek, stream bank stabilization, habitat restoration, and water quality enhancement.
- **5** Native Deciduous Trees
- 6 Existing Trees



Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project

Buckland Creek Area Restoration: SK 2

February 2014

Pocket Wetland; captures and treats run-off





Concept Project

Typical Green Strip Enhancement





IMPROVEMENTS

- De-pave and Install Native Grass Buffer Plantings
- 2 New Guiderail: Relates to Proposed Monroe Avenue Design Vocabulary
- 3 New Pervious Concrete Sidewalk Note: Refer to Green Strip Detail Sheet for More Information

Concept graphic, not to scale, not for construction

2

3

Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project

Typical Green Strip Enhancement







Concept Project Brighton Schools Improvements





Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project Buckland Creek Area Plan

February 2014





Concept graphic, not to scale, not for construction

Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project Monroe Avenue Corridor Green Bus Stop Improvements

February 2014

Page 1 of 3



SCAN to find out more about the project or visit www.brightonGIGP.org



MONROE AVENUE

MONROE AVENUE CORRIDOR GREEN BUS STOP IMPROVEMENTS

- Upgrade 5-7 existing bus stops at key corridor locations.
- Utilize sustainable design and construction strategies.
- Improve storm water quality with green infrastructure
- Support and encourage transit use and pedestrian flow.
- Improve streetscape aesthetics and help establish a visual identity for Monroe Avenue.

3

- Remove existing asphalt pavement. Replace existing soils. Install buffer plantings of salttolerant native species
- 2 Boulder accents
- 3 Pervious concrete accent paving
- 4 New 5' wide pervious concrete sidewalks
- **6** Restore and reuse existing bench
- 6 Stormwater planter: Capture run-off from shelter roof. Bio-filtration provided by plant materials and special soil matrix.
- Bus stop shelter: Simple, economical design. Durable material, easy maintenance. Signature streetscape architecture for the Monroe Ave. Corridor.
- 8 Informational / Educational Display



Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project Monroe Avenue Corridor Green Bus Stop Improvements

February 2014

Page 2 of 3



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ALTERNATE OPTION #2: ROUNDED PLANTER

Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project Monroe Avenue Corridor Green Bus Stop Improvements

February 2014

Page 3 of 3



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GREEN TRANSIT IMPROVEMENTS

BUS SHELTER ENHANCEMENTS

The green transit improvements incorporate environmental, aesthetic, and transportation benefits. The improvements meet the goals of the Monroe Avenue GIGP Project as well as the Monroe Avenue Corridor Community Vision Plan. The enhancements improve stormwater quality through green infrastructure, support and encourage transit use and pedestrian flow, improve streetscape aesthetics, and establish a visual identity for Monroe Avenue.

Every trip on public transportation begins and ends with a walk or bicycle ride. The transit stop improvements along the Corridor encourage the use of public transportation and act as a key element in making Monroe Avenue a "complete street." Complete streets enable safe access for people who are walking, bicycling, driving, or riding public transportation.

Note: Numbers were gathered in February 2014



BUS SHELTER

Simple, economical design. Durable material, easy maintenance. Roof top is angled to allow stormwater to runoff into a stormwater planter. Shelter design represents the two streams within the corridor. Provides a signature streetscape architecture for the Monroe Avenue Green Corridor.



VEGETATED BUFFER STRIP

Increases pervious area to capture and filter stormwater runoff. Plants manage and treat small volumes of runoff.



PERVIOUS CONCRETE

Designed to infiltrate rainfall through the pavement surface, thereby reducing stormwater runoff from the site and providing some pollutant uptake in the underlying soils.

Monroe Avenue Green Corridor

DID YOU KNOW?

RGRTA oversees public transportation in Monroe, Genesee, Livingston, Orleans, Wayne, Wyoming and Seneca counties.

Every RTS bus is equipped with a bike rack on the front, encouraging commuters and recreational cyclists.

Annual Ridership = 18,175,000

Number of Buses = 405

Service Area Population = 1,083,877







STORMWATER PLANTER

Small landscape stormwater treatment devices that use soil infiltration and biogeochemical processes to decrease stormwater quantity and improve water quality. The roof runoff is captured and filtered through plant material and a special soil matrix.

EXISTING CONDITIONS



PROPOSED IMPROVEMENTS





Concept Project

Continental Apartments Improvements

January 2014

Decreased Impervious

2240 +/- SF







ONTINENTA APARTMENTS

2040-2052

250-2243

IMPROVEMENTS

3

- **1** Small Native Trees
- 2 De-pave and Install Native Grass Buffer Plantings
- 3 Existing Lawn
- New Pervious Concrete Sidewalk
 on CU Structural Soil

Monroe Avenue GIGP Brighton, Monroe County, New York

Concept Project

Continental Apartments Improvements

January 2014









EXISTING CONDITIONS



Concept Project

Northumberland **Road Improvements:** SK 2

February 2014

Existing Impervious 4,920 +/- SF **Proposed Impervious** 3,115 +/- SF **Decreased Impervious** -1,890 +/- SF

Existing Pervious 1,560 +/- SF **Proposed Pervious** 3,450 +/- SF **Increased Pervious** +1,805 +/- SF





Concept Project

Neighborhood Gateway Improvements January 2014







Concept Project

Neighborhood Gateway Improvements January 2014

