



Why Parking Lots?

Parking lots and buildings do not allow for storm water to infiltrate the ground or recharge groundwater, so it runs off as storm water.

This storm water carries with it motor oil, lawn chemicals, litter, sediments and other harmful substances and deposits them into the nearest water way.

With the City of Binghamton's location on two large rivers, the reduction of storm water runoff is a top priority.



GREEN PARKING at Ellis Bros.,
by Keystone Associates

STORM WATER

STORMWATER IS MANAGED USING STORM SEWER AS WELL AS BEST MANAGEMENT PRACTICES, WHICH INCLUDE GREEN INFRASTRUCTURE AND LOW IMPACT DEVELOPMENT

References and Additional Resources

- https://www.epa.gov/sites/production/files/2015-10/documents/climate_res_fs.pdf
- https://www.epa.gov/sites/production/files/2015-02/documents/gi_brochure_508_compliant.pdf
- <http://www.dec.ny.gov/lands/58930.html#Porous>
- <http://www.dec.ny.gov/lands/70086.html>
- <http://www.dec.ny.gov/chemical/8468.html>
- <http://www.dec.ny.gov/chemical/68199.html>
- <http://www.perviouspavement.org/>
- <http://www.icpi.org/>
- <http://purus-northamerica.com/>
- http://www1.toronto.ca/city_of_toronto/city_planning/urban_design/files/pdf/greening_p-lot_guidelines_jan2013.pdf
- <http://www.binghamton-ny.gov/illegal-discharge-detection-and-elimination>
- <http://www.binghamton-ny.gov/departments/planning-housing-community-development/planning-housing-community-development>
- <http://www.binghamton-ny.gov/stormwater-management>

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City of Binghamton

Informational Brochure



GREEN PARKING

PERVIOUS PAVING



COLUMBUS PARK
ECORASTER DONATED BY
GREEN WAY PAVEMENTS

What is Pervious Paving?

Pervious paving is an environmentally friendly alternative to traditional, impervious paving.

There are several different technologies which are considered pervious paving. These can be as simple as concrete or asphalt lacking sand and fine particles, or as intensive as manufactured grids with open spaces allowing plants to grow and water to infiltrate.

Key Components

- Inflow and Surfacing
- Storage
- Infiltration and outflow

Description and Function

Pervious paving has proven to reduce total suspended solids in storm water, thereby eliminating automobile and other pollution.

Many pervious paving options produce zero net discharge, and thus are extremely effective in managing storm water. The soil below allows increased infiltration into underlying soil, thereby filtering out most pollutants.



PERMEABLE PAVEMENT at Southside Commons

The Many Benefits

Higher Water Quality: by soaking up and storing water in place, green infrastructure reduces stormwater discharges. Lower stormwater volumes mean reduced gray infrastructure sewage overflows and lower pollutant loads. Infiltration and storage of stormwater can also help remove pollutants.

Increased Water supply: Harvested rainwater can be used for outdoor irrigation and certain indoor uses thereby significantly reducing municipal water use. Water infiltration practices also recharge groundwater reservoirs.

Reduced Flooding: a marginal reduction.

Reduced Private and Public Costs: Green Infrastructure can reduce a community's infrastructure costs, promote economic growth, and create construction and maintenance jobs.

Lower costs for site grading, paving, and landscaping, and smaller or eliminated piping and detention facilities provide savings for developers.

In some areas of The City of Binghamton with combined sewer systems, green infrastructure can cost less than conventional controls, and their implementation can reduce storm water infrastructure costs.

Increased Property Values: Green infrastructure increase the market a value of a property.

Health Benefits: More green space and parks encourage outdoor physical activity, reducing obesity and preventing associated chronic diseases, such as heart disease, high blood pressure, stroke, Type II diabetes, arthritis, and certain kinds of cancer.

Recreation Space: Vegetation and trees can increase publicly available recreation areas, allowing urban residents to enjoy greenery without leaving the city. Additionally, vegetation and permeable pavements can reduce noise pollution by damping traffic, train, and plane noise.

Pervious Paving Options

- ⇒ **Porous Asphalt:** similar to it's standard hot-mixed counterpart, simply lacking sand and fine particles to allow water drainage.
- ⇒ **Porous Concrete:** similar to it's standard counterpart, simply lacking sand and fine particles to allow water drainage.
- ⇒ **Grasscrete/Turf pavers:** consisting of a hollow plastic or concrete grid system with soil enhancement at the base.
- ⇒ **Interlocking Concrete Pavers:** manufactured units which interlock, leaving small openings for infiltration.
- ⇒ **EcoRaster®:** A manufactured grid system which allows plants to grow throughout. Specific soil/media are below to allow infiltration of storm water



A Few Reminders...

- *Systems employing turf grass are limited to overflow parking spaces that are not utilized for required parking and are not used daily.
- *Pervious pavement is prohibited in areas used for dispensing gasoline or where hazardous liquids could be absorbed into the soil.
- *Clear parking space markings are required! Except, with grasscrete or turf and then another indication system may be used.