

StormTrap®

MODULAR CONCRETE STORMWATER MANAGEMENT



Project name

Richard Ivey School of Business - University of Western Ontario

Location London, Ontario

Product Used 3,048 mm DoubleTrap

Total Water Stored 500 m³

Number of Pieces 50

Case Study

Stormwater Detention System

Client required over 500 m³ of stormwater detention for the University of Western Ontario project. The DoubleTrap system was installed in an area to accommodate heavy construction traffic for a possible future expansion project near the Richard Ivey School of Business.

StormTrap was selected because there was no pressure drop for water flow into the system.



Richard Ivey School of Business - University of Western Ontario









Project name Haist Street Renovations

Location Pelham, Ontario

Product Used 1,524 mm DoubleTrap

Total Water Stored 1,024 m³

Number of Pieces 184

Case Study

Stormwater Detention System under roadway

The DoubleTrap system was installed as part of the Haist Street project, in the Town of Pelham, to prevent stormwater from overloading downstream pipes. The system is 400 meters long and holds 1,024 m³ of storage volume. StormTrap was installed in the middle of the street with over 3 meters of cover, at a 5% slope.



Haist Street Renovations - Pelham, Ontario









Project name Pan Am Aquatic Centre

Location Toronto, Ontario

Product Used DoubleTrap

Total Water Stored 1,742 m³

Number of Pieces 176

Case Study

Stormwater Detention Wet Pond

StormTrap was chosen to design an underground stormwater wet pond for the Pan Am Aquatic Centre. The Centre was used for Toronto's Pan Am Games held in 2015. The system was designed as a full-scale underground wet pond with stormwater detention, a forebay for grit removal, a baffle wall for oil/floatable trash removal, and a permanent pool of water under the entire detention area for extended fine particle collection.



Pan Am Aquatic Centre – Toronto, Ontario









Project name South Unionville Square

Location Markham, Ontario

Product Used 3,048 mm DoubleTrap

Total Water Stored 3,300 m³

Number of Pieces 294

Case Study

Full-Scale Underground Stormwater Detention Wet Pond

The City of Markham needed to reclaim land being utilized by a stormwater pond for a public park at South Unionville Square, a large mixed use development in Markham, without losing the benefits of the stormwater detention wet pond.

StormTrap designed a full-scale underground stormwater detention wet pond under the park, complete with a forebay and a permanent pool of water under the complete stormwater detention area.



South Unionville Square - Markham, Ontario







Project name Pure Metal Galvanizing

Location Brantford, Ontario

Product Used 3,048 mm DoubleTrap

Total Water Stored 295 m³

Number of Pieces

Case Study

Contaminated stormwater holding tank

A 295m³ StormTrap system was installed to hold stormwater runoff from a contaminated site. The runoff contains over 2,000 ppm of zinc, which exceeds the local stormwater regulations. The runoff is stored in the StormTrap system and then pumped into a treatment station that removes the high concentration of zinc.



Pure Metal Galvanizing – Brantford, Ontario







Project name Liberty at Mill Creek

Location Allentown, PA

Product Used 3,455mm DoubleTrap

Total Water Stored 2,229m³

Number of Pieces 1182

Case Study

Rainwater Harvesting

A rainwater harvesting system was installed at the Liberty at Mill Creek project in Allentown, PA. The project involved the development of two 1.1 million ft² warehouses in Allentown, PA. StormTrap was designed to reduce the stormwater runoff leaving the site by collecting and utilizing it for irrigation in lawn/meadow area of the development.



Liberty at Mill Creek – Allentown, PA







Project name US Bank Stadium West Plaza

Location Minneapolis, MN

Product Used

1,372 mm SingleTrap

Total Water Stored 502 m³

Number of Pieces 39

Case Study

Stormwater Treatment - Sandfilter

StormTrap designed a stormwater sandfilter for the new US Bank Stadium, a multi-purpose stadium and home to the NFL's Minnesota Vikings. The system is located under the Stadium's front plaza and is designed to treat stormwater runoff before it connects to the city's storm system. During a rain event the runoff will collect in the system and filter through 24" of sand removing pollutants. The system meets the City of Minneapolis required removal efficiency of 70% TSS.



US Bank Stadium West Plaza - Minneapolis, Minnesota







Project name

Water Quality & Sedimentation – College of DuPage – Glenn Ellyn, IL

Specifications

Water quality flow: 2.0cfs

Settling surface area: 60.0 ft2

Design particle size: 110 microns

Case Study

Stormwater Treatment - Sedimentation

A water quality structure was installed at the College of DuPage to keep sediment from reaching an infiltration basin. It was designed to have a permanent pool of water to act as a cushion to prevent scour of previously settled particles. The engineer also specified an energydissipation baffle at each inlet with a weir wall in between to further prevent backwash of sediment.





Project name

Greenbrier Medical Office Building – IL

Product Used SingleTrap

Total Water Stored 484 m³

Number of Pieces 95

Case Study

Stormwater Biofiltration

Stormwater runoff flows over the parking lot and down into the low prairie bioswale at the Greenbrier Medical Center, in Illinois. The runoff enters the StormTrap system through catch basins located under the bioswale that are tied into the StormTrap system.







Project name Walgreens – Northbrook, IL

Product Used 3,048mm DoubleTrap

Total Water Stored 731 m³

Number of Pieces 70

Case Study

Stormwater Treatment - Oil & Water Separation

Eliminates oil, grease and other hydrocarbons.





Patented design minimizes each units weight allowing for quick installations.







Can be installed in all types of inclement weather







Concrete Trucks, Excavator and Standard Vehicles







System Sealant

Joint Tape



Joint Wrap





System Sealant

Joint Tape



Joint Wrap





Watertight System









Maintenance

Total accessible void space for easy maintenance

Manual inspection is recommended annually

Sediment removal with vacuum truck





Maintenance

Access openings

Ladder rungs

Inlet and outlet pipe openings



