Edith Street Parking Lot

Georgetown, Ontario

APPLICATION:
Parking Lot

LOCATION:
Georgetown, Ontario

DESIGN:
Town of Halton Hills, Infrastructure Services

INSTALLED:
October, 2010

LANDSCAPE CONTRACTOR:
A1 Asphalt Maintenance

FIELD:
Eco-Priora®- Santa Fe

The Town of Halton Hills has a "Municipal Green Plan" that looks to investigate new technologies to improve the environment. As part of this movement, there was an interest to explore permeable interlocking concrete pavements as a way to reduce storm water run-off. In designing the Edith Street parking lot, the challenge was to control the stormwater run-off. If the Town of Halton Hills did not connect to the existing storm sewer, the run-off required a reduction allowing stormwater to discharge into an existing ditch, but could not be greater than what existed prior to the parking lot. If the parking lot was asphalt, the Town would have had to relocate several existing utilities to install the proper sewer system.

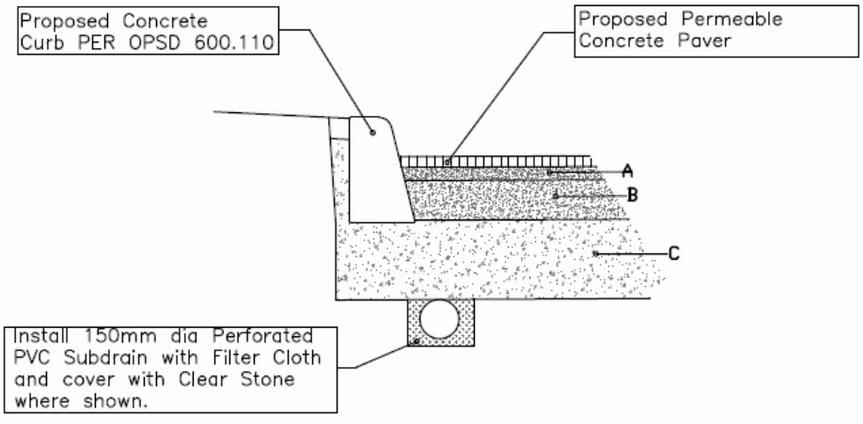
With the introduction of a permeable pavement, it provides a number of positive impacts: Reducing Stormwater run-off, reducing the stormwater infrastructure, reducing construction costs, all while reducing impacts on the environment.

Another unique aspect to this parking lot is the conduit infrastructure design. Following the installation of a proper metering system, having the capability to plug in Hybrid vehicles is the way of the future. By introducing a segmental pavement, maintenance crews can have access to the system by removing and reusing the existing paving material.

Not only did Town of Halton Hills decide that a permeable pavement was the approach for the parking lot from a stormwater perspective, but aesthetics played a big part in choosing the ideal material. The Eco-Priora™, Santa Fe in an Il Campo® finish, provided the durable wearing course protection that they were looking for in a colour and texture that lasts.

Contractors, A1 Asphalt Maintenance, did the construction of this parking lot. This was their first permeable interlocking concrete pavement project, but not their last. A1 predicts there is a growing demand for this type of technology and are planning to construct more of these types of applications.

The total cost of the entire parking lot construction ended up around $500,000, a reduction to the cost if a traditional asphalt parking lot was chosen. With all the rain that we've seen in the Spring of 2011, the parking lot is performing the way it was designed to. The Town of Halton Hills will continue to consider the possibilities of constructing new parking lots using the same technologies after the success of the Edith Street Parking Lot.



Pavement Make Up

Joint Aggregate 80mm	– ASTM NO. 8	: (A)
Setting Bed Aggregate 150mm	– ASTM NO. 57	: (B)
Base Aggregate 300mm	– ASTM NO. 2	: (C)


Edith Street Site- BEFORE


Edith Street Site- IN PROGRESS


Edith Street Site- IN PROGRESS


Edith Street- IN PROGRESS


Edith Street Site- IN PROGRESS