

# 407 ETR, Toronto, Ontario

## Culvert Rehabilitation with Weholite



The 407ETR operates the world's first all-electronic, barrier-free toll highway stretching 108 km across the northern part of Toronto, Ontario. Since 1997 the highway has had many extensions and enhancements to accommodate the use by hundreds-of-thousands of drivers every day. To maintain this fast, safe and reliable highway that people have come to expect, the 407ETR has recently begun rehabilitating the culverts.

In 2009, the 407ETR made the decision to rehabilitate eight distressed corrugated metal culverts using a trenchless construction process called sliplining. The existing culverts (600mm to 2700mm NPS) were cleaned, sliplined with Weholite pipe and then the annular spaces were filled to provide additional structure support as well to replenish any voids created by previous washouts. The construction work was completed with minimal disruption to the motoring public while avoiding future post-installation road problems that are common with traditional "dig & replace" methods. The project was a resounding success as the 407ETR plans to expand the culvert rehabilitation program in the coming years.



90"ID Weholite Liner is inserted into distressed CMP

**Project:**  
Culvert Rehabilitation under Hwy 407

**Owner:**  
Hwy 407 Express  
Toll Route (ETR)

**Application:**  
30" to 90" ID Weholite slipliners

**Distributor:**  
Terrafix Geosynthetics

**General Contractor:** Aecon