

The MTQ region of Louiseville

66" Culvert Reline



The MTQ (Ministry of Transport of Quebec) region of Louiseville invested over \$400,000 in 2003 to reline culverts using Weholite under Autoroute 40, one of the province's principal highways. Corrosion of the CMP culverts and the resulting washout of the pipe embedment and backfill over the pipe was affecting the stability of the autoroute and the safety of traffic. Relining avoided the cost and disruption associated with road rehabilitation following 'direct burial replacement' of the culvert. The settlement that often occurs following open cuts across the highway has been avoided.

Weholite's threaded pipe connection system is simple and fast. The smooth bore of profile wall HDPE Weholite maximizes flow capacity through the culvert. The relined culvert will often have no reduction in hydraulic capacity. The smooth outside wall of the pipe often eliminates the need for support rails under the liner. Often lifting cranes are not needed to insert the liner due to its light weight. Grouting is very efficient since the grout flows easily past and around the liner pipe. Most reline pipe insertions took less than 3 hours and reline project costs were approximately 30% of the cost of complete culvert replacement by direct burial.



Shows the temporary supports used to grout.

Project:

Culvert Reline under autoroute 40

Owner:

Québec MTQ Region

Application:

Louiseville, Culvert Reline

Contractor:

Ministry of Transport, Québec