



Parkade Ventilation

Location

Surrey, B.C.

Owner

Baltic Properties Ltd.

Contractor

VanMar Construction

Site Supervisor

Brad Bundt
Bob Wade

In 2007, a new 118 unit Intermediate Care Facility consisting of two, three storey buildings was built. Due to the site's size and setbacks, the buildings were designed to share a common underground parkade. The parkade, which was completely below grade, required mechanical ventilation to remove exhaust fumes.

Rather than vent into a well directly outside the parkade's foundation wall, the project designer purposely planned the parkade's ventilation to take place away from the buildings to reduce the healthcare units' noise and exhaust exposure. CANADA CULVERT's economical STEELCOR CSP was incorporated as the primary component of the ventilation system's design, providing ease of use, reduced project costs, and significant time savings.

Project Details

Outside ventilation took place through "dog houses" that were constructed outside the parkade on the ground. The project included five separate ventilation ducts that fed into the three strategically located "doghouses" on site. Directing fumes away from the parkade, the contractor placed CSP in 1m lengths into the foundation wall as it was being poured and then used 1000mm CSP in a combination of lengths, along with 45° elbows and couplers to take the ends of the CSP to the "dog houses".

CANADA CULVERT CSP is available in several sizes and profiles. CANADA CULVERT supplied a complete system including:

- 50m of 1000mm x 2.0mm Galvanized STEELCOR CSP
- 45° elbows and couplers

Corrugated Steel Pipe
Clears The Air In
Underground Parking



British Columbia

Dawson Creek

Genelle

Langley

Prince George

Alberta

Edmonton

Grande Prairie

Ponoka

Saskatchewan

Regina

Saskatoon

Manitoba

Winnipeg

Ontario

Orangeville

TF. 1 (800) 565-1152

canadaculvert.com