



# A TYPICAL BEBO APPLICATION

BEBO Precast Arches are Given Preference to Box Culvert.

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## Project Description

The new BEBO representative for Canada, Shaw Pipe of Lantz, Nova Scotia, has installed its first arch structure. The original tender for the new Nova Scotian Highway 104 crossing of Brown Brook called for a cast-in-place box culvert, incorporating a series of fish baffles to protect the fish habitat of the brook. Reviewing the plans for the structure and keeping time constraints in mind, Shaw's engineers, together with

BEBO, proposed a precast arch alternative to the box culvert. Critical to the design was the ability to carry a covering fill depth of 20 meters. The arch has a clear span of 6.10 m, a rise of 2.80 m and is 170 m long.



**A** total of 68 arch sections, 2.44 m wide and weighing 11.4 tons, were needed for this structure.



**A**rch elements are lifted from the truck (left), rotated in the air (above) and lowered onto the cast-in-place foundation (below).



**T**he entire installation process for the precast elements took less than 4 days.

**BEBO Arch International AG**

Culmannstrasse 56  
CH-8006 Zurich, Switzerland

www.beboarch.com  
e-mail: techcenter@beboarch.com

Telephone: +41 1 360 31 85  
Telefax: +41 1 360 31 70