



Atlantic Industries Limited

PROJECT PROFILE



October 20, 2020

Wide-mouthed Bolt-A-Plate Pipe Arch culvert replacement makes a safer connection in West Kelowna

Westbank First Nation (WFN) is a self-governing First Nation in the heart of the Okanagan Territory comprised of five large reserves, two of which are a vital part of urban West Kelowna, with a population of over 9,000 residents and over 400 businesses.



Easy to assemble with local crews and equipment

Project at a glance:

Name: Spland Road Pipe Arch

Location: West Kelowna, British Columbia

Owner: Westbank First Nation

Engineer: Allnorth

Contractor: Jaxsin Excavating

Sector: Transportation

Application: Stream Crossing

Product: Bolt-A-Plate Pipe Arch

Pipe Arch Dimensions: Span 2.44 m, Rise 1.75 m, Length 25 m

Installation Time: Two weeks, including grouting



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Spland Road is the only connection to a growing residential neighbourhood in West Kelowna but was compromised by an older, undersized culvert that was prone to blockages and flooding — cutting off residents' access to the rest of the city and to emergency services.

WFN chose to replace the old culvert with a new, wide-mouthed Bolt-A-Plate Pipe Arch to ensure better hydraulic flow rates with fewer blockages and less flooding. To maintain access, the new culvert was stage-constructed and placed in two sections so that one lane of the road was always open.

AIL worked with the consultant and contractor to offer site support to get the structure approved and stayed in contact with the contractor to ensure the successful installation. The project was completed successfully and we continue to work with WFN.

Bolt-A-Plate: an effective culvert or buried bridge solution

For a strong, effective culvert or buried bridge solution, AIL's Bolt-A-Plate is the product of choice for its light weight, strength and versatility. It is perfect for economical bridge and drainage structure construction or replacement, as well as many other applications.

Bolt-A-Plate is available in spans of up to 12 m in our widest range of shapes and sizes: Standard, Low or High Profile Arches; Rounds; Horizontal or Vertical Ellipses; Pipe Arches and Pear Shaped.

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Backfilling of first half of two-stage installation



Popular Pipe Arch shape is wider at the bottom

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