



BLACKFRIARS BRIDGE

LONDON, ONTARIO, CANADA

OVERVIEW

At 143 years old, Blackfriars Bridge in London, Ontario is a rare example of wrought iron bowstring arch-truss architecture. Blackfriars is Ontario's oldest working crossing and at 221 ft., North America's longest working span of its kind. After four years of closure, extensive restoration work began in November 2017. The truss was lifted from its granite abutments, cut at mid-span and transported for full rehabilitation. The FRP deck was key to regaining structural capability while retaining Blackfriars' beauty and giving it long-lasting performance.

BRIDGE FEATURES

Requirements:

- 75% of CL 3-625-ONT
- L/500 deflection

Superstructure: Iron truss

Beam Spacing: 39 inches

Deck to Beam Connection: Steel clips

BRIDGE DECK DIMENSIONS

Deck Size: 221.5 by 17.5 feet

Deck Area: 4,251.74 square feet

Deck Panel Dimensions: 7.1 feet by 7.5 feet

Deck Depth: 8 inches to 9.5 inches

Deck Weight: 25 psf

Special Requirements:

- Stainless steel curb armor for snow plows
- Drainage scuppers

Overlay: Aluminum oxide

Color: Black

