St. Croix Crossing Bridge

Location: Stillwater, Minnesota, USA
Crosses: St. Croix River
Type: cable-stayed with box-girder bridge for roadway
Opened in: 2017 (replacement)
Materials: Duplex 2304 (about 6,000 tons), North American Stainless Stainless steel products: rebar
Photographs: courtesy of North American Stainless (overall view)
courtesy of Corrosion Resistance Reinforcing, LCC (others)
More information: northamericanstainless.com

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History

The original Stillwater lift bridge was built in 1931. The lift bridge has become a much-loved symbol of the city of Stillwater, nestled on the west bank of the St. Croix River. The St. Croix River Crossing Project called for the construction of a new four-lane bridge. Construction began in 2014 and the bridge was opened to vehicle traffic on August 2, 2017.

Why stainless steel?

The new St. Croix Crossing Bridge is extradosed design, combining cable-stay engineering with box-girder construction (650 precast box girders). Only the second of its type in the U.S. Amount of concrete used: 139,219 cubic yards. Area of bridge where stainless reinforcement bar was used: Deck (approx. 6,000 Tons of Duplex 2304).