



I-90 DRESBACH BRIDGE REPLACEMENT

LA CROSSE, WISCONSIN

SDI Scope

- Supply Post-Tensioning Materials and Lease Post-Tensioning Equipment
- Lease of Form Travelers

Contractor

Ames Construction

Owner

Minnesota Department of Transportation (MNDOT)



PROJECT DESCRIPTION

The I-90 Dresbach Bridge is a twin cast-in-place balanced cantilever bridge located in La Crosse, Wisconsin. Dresbach Bridge spans the Mississippi river at the Minnesota boarder. It replaces the existing 4-lane steel girder bridge and incorporates a newly improved interchange. The new bridge is inspired by the shape of local tress and is over 1,600 ft. long. Construction began in mid-2014 and was completed in 2016.



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SDI's SCOPE OF WORK

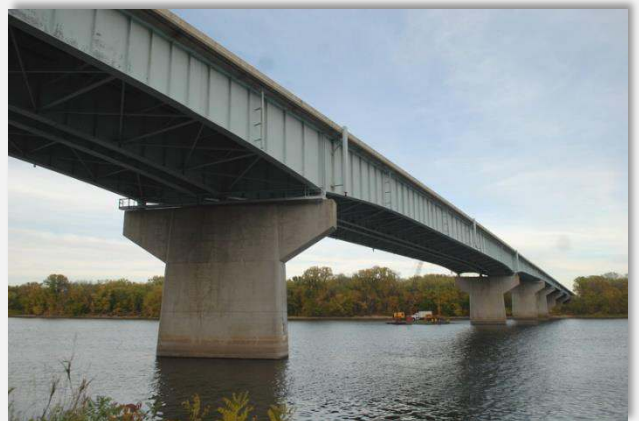
SDI provided all post-tensioning materials and leased post-tensioning equipment and form travelers. The project location required post-tensioning systems to include advanced corrosion protection including galvanized and epoxy coated components in combination with stainless steel and epoxy coated reinforcing. Post-tension installation was performed by the contractor's rebar subcontractor with SDI providing direct on-site technical assistance on several occasions. This ensured proper installation of our systems, executions of the stressing operations, and pre-grout operation pressure testing.

SDI also supplied the contractor with the design and lease of two pairs of bridge building form travelers and formworks. The travelers were modified off-site along with the formwork construction. Modifications included additional details that were specific to the location.



PROJECT HIGHLIGHTS AND FACTS

SDI's challenges included off-site modification of the form traveler system in Pennsylvania under a tight delivery schedule. The new application of the travelers and formwork required design, fabrication, and installation of many auxiliary parts. Additionally, a variety of bridge widths and varying cross-slopes necessitated the design of an adjustable wing form and alternate methods of supporting the wing sections of the bridge.



DRESBACH BRIDGE