

CASE STUDY



PROJECT DETAILS

Project Name:

Highway 82 Point
Bluff Bridge

Location:

Mauston, WI

General Contractor:

Lunda Construction Co.

Product Manufacturer:

County Materials
Corporation

Date:

2019

Key Products:

Prestress Bridge Girders

County Materials' Transportation Team Overcomes Rain Delays, Keeping Bridge Replacement Project on Schedule

Solutions: Efficient delivery minimizes impact on river levels and traffic closures

As part of the Wisconsin Department of Transportation's infrastructure improvements initiative, an aging steel truss bridge along Highway 82 was replaced with prestress girders. The WisDOT deemed it to be more cost effective to replace the failing structure with long-lasting prestress concrete than to continually invest in it.

Project leaders specified County Materials' Prestressed Bridge Girders to reconstruct the large 11-span bridge, south of the original structure. Prestress girders were chosen for their resilient strength and reliable durability. They can resist the elements and freeze/thaw cycles, requiring minimal maintenance throughout their extended service life of 100 years or more. County Materials delivered 66 72-inch-tall prestress girders, each 147 feet-long and 148,000 pounds.

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Project leaders faced several challenges throughout the construction of the bridge. Working over the Wisconsin River, the contractor had limited access to the site. A temporary road was built over the river, allowing a crane to cross during installation. To prevent damming up the river, culverts were installed under the road. Highway 82 stayed open during construction, and workers used flagging operations to direct the nearly 5,000 vehicles that travel the corridor each day.

Girder delivery and installation had to be precisely timed and coordinated to accommodate fluctuating water levels from rain events. Extensive coordination was required between County Materials’ dispatch team and heavy haul truck drivers from our Janesville and Roberts, WI facilities to keep the project on schedule.



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