

## CASE STUDY



### PROJECT DETAILS

**Project Name:**

I-94 County NN Bridge

**Location:**

Osseo, WI

**Project Owner:**

WisDOT

**Product Manufacturer:**

County Materials Corporation

**Date:**

2019

**Key Products:**

Prestressed Concrete Bridge Girders

## County Materials Expedites Time-Sensitive Bridge Replacement Project Utilizing Two Production Facilities

**Solutions:** Enhanced manufacturing capacity expedites construction schedule; skilled drivers maneuver challenging intersections to complete timely deliveries

As two bridges on I-94 approached the end of their service life, the Wisconsin Department of Transportation (WisDOT) planned to replace the aging structures with high-performance prestressed concrete bridge girders. Manufactured to last, prestressed girders were specified for their enhanced structural capabilities that prolong service life and maximize taxpayer value.

Increasing traffic demands prompted WisDOT to coordinate a tight construction schedule that would minimize lane closure and mitigate congestion. To meet these demands, WisDOT relied on County Materials to manufacture and deliver 16 prestressed girders within the accelerated timeline, utilizing two facilities to maximize production. Eight of the girders were manufactured in Roberts, WI and measured 145 feet long at 146,000 pounds each. The remaining girders were slated for production in Janesville, WI and individually measured 129 feet long at 130,000 pounds.

*Continued on page 2.*



County Materials' team of highly skilled drivers delivered the girders to the site. The deliveries from Roberts, WI required further coordination, as the girders' large size made it challenging for the trucks to maneuver the turn back on the highway. The experienced drivers, instead, had to back down the I-94W off-ramp and make a y-turn to proceed to the staging area. Deliveries were made timely and safely through the combined efforts of County Materials' truck drivers and dispatchers and the Wisconsin State Highway Patrol, who briefly closed the exit ramp while the girders were maneuvered to the site.



County Materials' enhanced manufacturing capabilities overcame the challenges of this project and allowed the construction schedule to progress as planned. Both sets of girders were delivered and installed within one month to meet expectations.



//

*WisDOT relied on County Materials to manufacture and deliver 16 prestressed girders within the accelerated timeline, utilizing two facilities to maximize production.*

//

