

HEART RIVER
BRIDGE REPLACEMENT
PROJECT NO. BRC-3020(080)
STARK BRIDGE



PROJECT RESPONSIBILITIES

Lead Agency for Project Development – Morton County

Preliminary Engineering – Sauber Engineering Inc.

Federal Aid Program Administration - NDDOT

PURPOSE AND NEED

Purpose of Project: The purpose of the proposed project is to replace the existing bridge to correct the existing structural deficiencies. Design Criteria is based on a HL-93 structural design load, clearzone of 18 feet for 55 mph, and a 25-year design flood frequency. The project is located on County Road 137, CMC 3020, in Sections 6 and 7, Township 137 North, Range 83 West and Section 12, Township 137 North, Range 84 West in Morton County.

Need for Project: The project is needed to address the current problems that affect the safety of the existing bridge. The structural deficiencies detailed in this paragraph were obtained from the bridge inspection report. The operating rating of the current structure is 15.4 Tons (this requires the bridge to be posted) and is substantially less than the 36 tons that would be required for an “open” bridge. The hanger links on several assemblies do not bear fully on the pins (pin & hanger connections). The existing bridge’s approach guardrails do not meet acceptable standard.



PURPOSE AND NEED - CONTINUED

Other Deficiencies:

The existing clear bridge deck width is 22.6 feet. The existing approach roadway graded width is 28 feet. The AASHTO Policy on Geometric Design “Greenbook”, 6th Addition, Table 5-6, lists the minimum clear deck width as Traveled way + 2 feet (each side) for traffic volumes less than 400 veh/day. A new bridge will have a 32’ wide clear deck width which will meet the recommended geometric design.



REGULATORY FLOODPLAIN

The project is located within a FEMA National Flood Insurance Program (NFIP) Regulatory Floodplain, Flood Insurance Rate Map panel number 38059C0725D.

NFIP Zone A – The project can not increase in 100-year flood elevation.

Local Floodplain Administrator - Morton County

ENVIRONMENTAL & PERMITTING

The project will be required to obtain a 404 Permit from the US Army Corps of Engineers since the Heart River is a jurisdictional body of water.

The project will comply with Section 7 of the Endangered Species Act which requires a review of the project and a determination of the potential effect on threatened and endangered species.

The project will be required to obtain a Sovereign Lands Permit from the North Dakota Department of Water Resources

During the construction phase of the project, the Contractor will be required to obtain a Storm Water Discharge Permit from the ND Department of Environmental Quality and comply with the permit requirements.

RIGHT OF WAY

The project will require permanent right-of-way and temporary easements.

Before right of way is acquired the property owner will receive a written offer of the amount believed to be just compensation.

If the acquisition is uncomplicated and a review of available data suggests a fair market value less than \$10,000.00, a Waiver Valuation will be prepared as the basis for the offer.

An appraisal will be prepared when the acquisition is complex or otherwise does not meet the criteria for a Waiver Valuation.

The owner has the option to donate the property.

RIGHT OF WAY - CONTINUED

Acquisition agents from Sauber Engineering Inc. and Morton County will meet with the owner to provide a firm offer and conduct negotiations.

The anticipated timeframe for right of way acquisition is May of 2023

PROPOSED PROJECT

Replace the existing bridge with a new 3-span concrete bridge at a location 40' north of the existing bridge. New Bridge length will be 336 feet and have a deck width of 32 feet.

The existing bridge will be utilized to carry traffic during construction. The roadway will be reduced to one lane during construction to facilitate construction of the new bridge.

Estimated Construction Cost: \$4,800,000.00

New R/W: 3.65 acres

PROJECT FUNDING

80% Funded through Federal Bridge Funds administered by NDDOT

20% Funded by the Local Lead Agency – Morton County

PROJECT SCHEDULE

Bid Opening – November 17, 2023

Construction - 2024

PUBLIC COMMENTS

Mail comments to:
Sauber Engineering Inc.
PO Box 399
Mandan, ND 58554

or

e-mail comments to:
jsauber@sauberengineering.com

Subject Heading – “Public Input Meeting”

Comments must be received by April 14, 2023

THANK YOU
FOR
ATTENDING