

1994 County, MDT, and FHA Conclusions on the Condition of Maclay Bridge (EA, p. 17):

Rehabilitation of the Existing Maclay Bridge.

The existing bridge is inspected at two-year intervals. The last inspection, completed in 1992, resulted with a sufficiency rating of 49.7. At the time of the inspection in 1989, the remaining life of the bridge was estimated to be 10 years. The following factors contribute to the overall inadequacy of the structure:

- Major Span. The floor beams and stringers are undersized and will only support a 9,072 kg (ten ton) load. In order to upgrade the capacity of these members, the entire superstructure for this span would need to be removed and replaced
- Pony Truss. A portion of the truss has been damaged by overweight loads.
- Foundations. The sandy soil below the existing river piers has been washed away. Rip rap has been placed to protect the piers; however, the foundations may still be susceptible to scour to depths below the footings.
- Approaches. Poor roadway alignments and lack of a guardrail at the bridge approaches create safety hazards for all types of traffic.

The bridge will need to be reconstructed in order to correct these deficiencies. A new bridge will need to meet current floodplain regulations and design standards, neither of which is met by the existing one-lane bridge.