HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Iowa [19]	Tama County [171]	Unknown [00000]	82140406	41-56-22 = 41.939444	092-28-44 = -92.478889

316700	Highway agency district: 0	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		

Route: 0		FM	Toll: On free road [3]	Features intersected: IOWA RIVER	

Design - main: Steel [3]	Design - approach: Steel continuous [4]	Kilometerpoint: 0 km = 0.0 mi			
1	Truss - Thru [10]	3	Stringer/Multi-beam or girder [02]	Year built: 1941	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 153.3 m = 503.0 ft	Length of maximum span: 42.7 m = 140.1 ft	Deck width, out-to-out: 7.1 m = 23.3 ft	Bridge roadway width, curb-to-curb: 6.6 m = 21.7 ft		
Inventory Route, Total Horizontal Clearance: 6.6 m = 21.7 ft	Curb or sidewalk width - left: 0 m = 0.0 ft	Curb or sidewalk width - right: 0 m = 0.0 ft			

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 18.9 metric ton = 20.8 tons			
1.1 km = 0.7 mi	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 25.1 metric ton = 27.6 tons			
	Bridge posting: 00.1 - 09.9 % below [4]	Design Load: M 13.5 / H 15 [2]			

Functional Details

Average Daily Traffic	40	Average daily truck traffi	0 %	Year	2009	Future average daily traffic	60
Year	2030						
Road classification	Minor Collector (Rural) [08]	Lanes on structure	2	Approach roadway width	9.4 m = 30.8 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control			
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	4.37 m = 14.3 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]						
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]				
Appraisal ratings - underclearances	N/A [N]						

Repair and Replacement Plans

Type of work to be performed

Other structural work, including hydraulic replacements. [38]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	25000	Roadway improvement cost	3000
Length of structure improvement	503 m = 1650.3 ft	Total project cost	
Year of improvement cost estimate	2009		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]

Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	
Pier or abutment protection		Sufficiency rating	68.8

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	September 2010 [0910]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	September 2010 [0910]
Other special inspection	Not needed [N]	Other special inspection date	