HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Hamilton County [079]	Unknown [00000]	862532	42-13-30 = 42.225000	093-47-40 = -93.794444

171030	Highway agency district: 1	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 0		LOCAL	Toll: On free road [3]	Features intersected: SQUAW CREEK	

Design - main: Concrete [1]		Design - approach		Kilometerpoint: 0 km = 0.0 mi	
2	Tee beam [04]	0	Other [00]	Year built: 1917	Year reconstructed: N/A [0000]
				Skew angle: 30	Structure Flared:
				Historical significance: Bridge is possibly eligible for the NRHP. [3]	

Total length: 19.8 m = 65.0 ft	Length of maximum span: 9.1 m = 29.9 ft	Deck width, out-to-out: 6.2 m = 20.3 ft	Bridge roadway width, curb-to-curb: 5.6 m = 18.4 ft		
Inventory Route, Total Horizontal Clearance: 5.6 m = 18.4 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: 20.5 metric ton = 22.6 tons		
0.3 km = 0.2 mi	Method to determine operating rating: Allowable Stress(AS) [2]		Operating rating: 35.6 metric ton = 39.2 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load:		

Functional Details

Average Daily Traffic	40	Average daily truck traffi	0 %	Year	2003	Future average daily traffic	64
Year	2028						
Road classification	Local (Rural) [09]	Lanes on structure	2	Approach roadway width	6.7 m = 22.0 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	99.99 m = 328.1 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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	227000	Roadway improvement cost	23000
Length of structure improvement	27.1 m = 88.9 ft	Total project cost	336000
Year of improvement cost estimate	2005		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
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	64.6
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	November 2008 [1108]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [N00]	Underwater inspection date	
Fracture critical inspection	Unknown [N00]	Fracture critical inspection date	
Other special inspection	Unknown [N00]	Other special inspection date	