

HistoricBridges.org - National Bridge Inventory Data Sheet

2010 Inventory

The National Bridge Inventory contains data submitted by state transportation 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]	Wapello County [179]	Unknown [03275]	812316	41-00-50 = 41.013889	092-24-40 = - 92.411111
9386	Highway agency district 5	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route 0		JEFFERSON ST	Toll On free road [3]	Features intersected DES MOINES RIVER & RR	
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	16.6 km = 10.3 mi
9	Truss - Deck [09]	8	Girder and floorbeam system [03]	Year built	1936
				Year reconstructed	1984
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length	646.3 m = 2120.5 ft	Length of maximum span	45.7 m = 149.9 ft	Deck width, out-to-out	13.7 m = 44.9 ft
Inventory Route, Total Horizontal Clearance	10.1 m = 33.1 ft	Curb or sidewalk width - left	1.5 m = 4.9 ft	Curb or sidewalk width - right	1.5 m = 4.9 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	No rating analysis performed [5]	Inventory rating	16.9 metric ton = 18.6 tons
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	23.1 metric ton = 25.4 tons
	Bridge posting	20.0 - 29.9 % below [2]	Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	10600	Average daily truck traffi	0	%	Year	2006	Future average daily traffic	15323	Year	2027
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	13.1 m = 43.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Highway-waterway-railroad [Lanes under structure	4		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	Railroad beneath structure [R]									
Minimum lateral underclearance on right	3 m = 9.8 ft					Minimum lateral underclearance on left	2.9 m = 9.5 ft			
Minimum Vertical Underclearance	4.27 m = 14.0 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of replacement [2]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	900000	Roadway improvement cost	90000
	Length of structure improvement	646.3 m = 2120.5 ft	Total project cost	1550000
	Year of improvement cost estimate	2007		
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Poor [4]	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 protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	36.8
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	June 2007 [0607]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2004 [1004]
Fracture critical inspection	Unknown [Y00]	Fracture critical inspection date	June 2007 [0607]
Other special inspection	Unknown [N00]	Other special inspection date	