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

Illinois [17]	Marshall County [123]	Steuben [72585]	9.55 MI W OF ILL 89	41-01-34 = 41.0	089-25-13 = -89.4

62000314852 | Highway agency district: 4 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 17 | | ILL 17 | Toll: On free road [3] | Features intersected: ILL RIVER

Design - main	Steel continuous [4]	Design - approach	Steel continuous [4]	Kilometerpoint	15568.7 km = 9652.6 mi
3	Truss - Thru [10]	8	Stringer/Multi-beam or girder [02]	Year built: 1939	Year reconstructed: 1990
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length: 479.5 m = 1573.2 ft | Length of maximum span: 115.2 m = 378.0 ft | Deck width, out-to-out: 8.8 m = 28.9 ft | Bridge roadway width, curb-to-curb: 8 m = 26.2 ft

Inventory Route, Total Horizontal Clearance: 7.9 m = 25.9 ft | Curb or sidewalk width - left: 0 m = 0.0 ft | Curb or sidewalk width - right: 1.2 m = 3.9 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]

Deck protection: Epoxy Coated Reinforcing [1]

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 2.3 km = 1.4 mi

Method to determine inventory rating: Allowable Stress(AS) [2] | Inventory rating: 42.3 metric ton = 46.5 tons

Method to determine operating rating: Allowable Stress(AS) [2] | Operating rating: 70.2 metric ton = 77.2 tons

Bridge posting: Equal to or above legal loads [5] | Design Load: MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	6300	Average daily truck traffi	9 %	Year	2011	Future average daily traffic	7018
Year	2032						
Road classification	Minor Arterial (Rural) [06]	Lanes on structure	2	Approach roadway width	9.1 m = 29.9 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 control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	14.3 m = 46.9 ft	Navigation horizontal clearance	106.6 m = 349.8 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.98 m = 16.3 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

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	8944000	Roadway improvement cost	895000
Length of structure improvement	479.5 m = 1573.2 ft	Total project cost	13415000
Year of improvement cost estimate			
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
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	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	53.3

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	

Inspection date	April 2010 [0410]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	July 2010 [0710]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	April 2010 [0410]
Other special inspection	Not needed [N]	Other special inspection date	