HistoricBridges.org - National Bridge Inventory Data Sheet

2015 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

Kansas [20]	Doniphan County [043]	Unknown [00000]	0.5N OF BLAIR	39-47-30.00 = 39.791667	095-00-09.00 = -95.002500

000000000220260 | Highway agency district: 1 | Owner: County Highway Agency [02] | Maintenance responsibility: County Highway Agency [02]

Route: 827 | RS 827 | Toll: On free road [3] | Features intersected: DUNCAN CREEK

Design - main	Steel [3]	Design - approach		Kilometerpoint	344 km = 213.3 mi
1	Truss - Thru [10]	0	Other [00]	Year built: 1935	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length: 27.7 m = 90.9 ft | Length of maximum span: 26.2 m = 86.0 ft | Deck width, out-to-out: 6.1 m = 20.0 ft | Bridge roadway width, curb-to-curb: 5.6 m = 18.4 ft

Inventory Route, Total Horizontal Clearance: 5.5 m = 18.0 ft | Curb or sidewalk width - left: 0.2 m = 0.7 ft | Curb or sidewalk width - right: 0.2 m = 0.7 ft

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

Type of wearing surface: Bituminous [6]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 0.5 km = 0.3 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 10.2 metric ton = 11.2 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 16.7 metric ton = 18.4 tons

Bridge posting: | Design Load:

Functional Details

Average Daily Traffic	196	Average daily truck traffi	11 %	Year	2005	Future average daily traffic	260
Year	2029						
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	4.9 m = 16.1 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		Minimum vertical clearance over bridge roadway	6.07 m = 19.9 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

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	185000	Roadway improvement cost	25000
Length of structure improvement	32 m = 105.0 ft	Total project cost	275000
Year of improvement cost estimate			
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	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructure	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	Fair [5]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	29.7

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	February 2015 [0215]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	April 2014 [0414]
Other special inspection	Not needed [N]	Other special inspection date	