HistoricBridges.org - National Bridge Inventory Data Sheet

2014 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

New Jersey [34]	Bergen County [003]	Lyndhurst [42090]	.5 MI S OF NJ ROUTE 3	40-48-40.11 = 40.811142	074-08-21.48 = -74.139300

020032A	Highway agency district: 1	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		

Route: 28		KINGSLAND AVENUE	Toll: On free road [3]	Features intersected: PASSAIC RIVER

Design - main: Steel [3]	Design - approach: Steel [3]	Kilometerpoint: 0 km = 0.0 mi			
2	Movable - Swing [17]	2	Truss - Thru [10]	Year built: 1905	Year reconstructed: 1986
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length: 110.9 m = 363.9 ft	Length of maximum span: 27.4 m = 89.9 ft	Deck width, out-to-out: 9.3 m = 30.5 ft	Bridge roadway width, curb-to-curb: 8.2 m = 26.9 ft				
Inventory Route, Total Horizontal Clearance: 8.2 m = 26.9 ft	Curb or sidewalk width - left: 1.9 m = 6.2 ft	Curb or sidewalk width - right: 1.9 m = 6.2 ft					
Deck structure type: Open Grating [3]							
Type of wearing surface: Other [9]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length: 0.6 km = 0.4 mi	Method to determine inventory rating: Load Factor(LF) [1]	Inventory rating: 20.9 metric ton = 23.0 tons		
	Method to determine operating rating: Load Factor(LF) [1]	Operating rating: 39.9 metric ton = 43.9 tons		
	Bridge posting: Equal to or above legal loads [5]	Design Load:		

Functional Details

Average Daily Traffic	26680	Average daily truck traffi	4 %	Year	2012	Future average daily traffic	32000
Year	2032						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	8.2 m = 26.9 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	Waterway [5]	Lanes under structure	0	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	2.1 m = 6.9 ft	Navigation horizontal clearance	20.7 m = 67.9 ft				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	4.14 m = 13.6 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			
Bridge improvement cost	5066000	Roadway improvement cost	22000
Length of structure improvement	121 m = 397.0 ft	Total project cost	6776000
Year of improvement cost estimate	2006		
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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		

Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]
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 desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	24.3

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 2012 [0912]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y48]	Underwater inspection date	August 2010 [0810]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	September 2012 [0912]
Other special inspection	Not needed [N]	Other special inspection date	