HistoricBridges.org - National Bridge Inventory Data Sheet

2009 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

Pennsylvania [42]	Philadelphia County [101]	Philadelphia [60000]	FALLS BRIDGE 28A02	40-00-30 = 40.008333	075-11-54 = -75.198333

677301004000040 | Highway agency district: 6 | Owner: City or Municipal Highway Agency [04] | Maintenance responsibility: City or Municipal Highway Agency [04]

Route: 0 | FALLS BRIDGE | Toll: On free road [3] | Features intersected: SCHUYLKILL RIVER

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
3	Truss - Thru [10]	0	Other [00]	Year built: 1895	Year reconstructed: 1986
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is on the NRHP. [1]

Total length: 172.5 m = 566.0 ft | Length of maximum span: 58.5 m = 191.9 ft | Deck width, out-to-out: 12.5 m = 41.0 ft | Bridge roadway width, curb-to-curb: 7.9 m = 25.9 ft

Inventory Route, Total Horizontal Clearance: 7.9 m = 25.9 ft | Curb or sidewalk width - left: 2.1 m = 6.9 ft | Curb or sidewalk width - right: 2.1 m = 6.9 ft

Deck structure type: Closed Grating [4]

Type of wearing surface: Bituminous [6]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 1.1 km = 0.7 mi

Method to determine inventory rating: Allowable Stress(AS) [2] | Inventory rating: 24.5 metric ton = 27.0 tons

Method to determine operating rating: Allowable Stress(AS) [2] | Operating rating: 40.8 metric ton = 44.9 tons

Bridge posting: 10.0 - 19.9 % below [3] | Design Load: MS 22.5 / HS 25 [9]

Functional Details

Average Daily Traffic	13000	Average daily truck traffi		%	Year 1981	Future average daily traffic 18200	Year 2001
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	2		Approach roadway width	7.9 m = 25.9 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 vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	5 m = 16.4 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 deck rehabilitation with only incidental widening. [36]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	181 m = 593.9 ft	Total project cost	1000
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 other load-capacity restriction [R]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Satisfactory [6]	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 being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	53.7
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	July 2007 [0707]	Designated inspection frequency	24 Months
Underwater inspection	Every two years [Y24]	Underwater inspection date	September 2007 [0907]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Unknown [N00]	Other special inspection date	