

HistoricBridges.org - National Bridge Inventory Data Sheet

2007 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

West Virginia [54]	Cabell County [011]	Unknown [00000]	0.03 MI SOUTH OF CR 31/8	38-22-54 = 38.381667	082-17-00 = - 82.283333
00000000006A081	Highway agency district 2	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 3106		CR 31/6	Toll On free road [3]	Features intersected GUYANDOTTE RIVER	
Design - main Steel [3]	Design - approach Steel [3]	Kilometerpoint 77.2 km = 47.9 mi	Year built 1882	Year reconstructed N/A [0000]	
2	Truss - Thru [10]	2	Truss - Thru [10]	Skew angle 0	Structure Flared
			Historical significance	Historical significance is not determinable at this time. [4]	
Total length 143.3 m = 470.2 ft	Length of maximum span 44.5 m = 146.0 ft	Deck width, out-to-out 4.2 m = 13.8 ft	Bridge roadway width, curb-to-curb 4.1 m = 13.5 ft		
Inventory Route, Total Horizontal Clearance 4 m = 13.1 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 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 1.4 km = 0.9 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	18.9 metric ton = 20.8 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	25.2 metric ton = 27.7 tons
Bridge posting	00.1 - 09.9 % below [4]	Design Load		

Functional Details

Average Daily Traffic	1000	Average daily truck traffi	4	%	Year	2003	Future average daily traffic	1127	Year	2023
Road classification	Major Collector (Rural) [07]		Lanes on structure	1		Approach roadway width	3.7 m = 12.1 ft			
Type of service on bridge	Highway [1]		Direction of traffic	One lane bridge for 2 - way traffic [3]		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	0 m = 0.0 ft					Minimum vertical clearance over bridge roadway	3.55 m = 11.6 ft			
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	99.9 = Unlimited					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	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	5200000	Roadway improvement cost	750000
	Length of structure improvement	152.4 m = 500.0 ft	Total project cost	6163000
	Year of improvement cost estimate	2003		
	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	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	27.3
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	May 2005 [0505]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2001 [1001]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2005 [0505]
Other special inspection	Unknown [N00]	Other special inspection date	