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

Michigan [26]	Berrien County [021]	Benton [07400]	2.0 MI E OF BENTON HARBOR	42-06-31 = 42.108611	086-23-51 = -86.397500

11111016000S060	Highway agency district: 5	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 1175		BRITAIN RD	Toll: On free road [3]	Features intersected: I-94	

Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint	556.4 km = 345.0 mi
4	Tee beam [04]	0	Other [00]	Year built: 1960	Year reconstructed: N/A [0000]
				Skew angle: 25	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	76.2 m = 250.0 ft	Length of maximum span	23.7 m = 77.8 ft	Deck width, out-to-out	10.1 m = 33.1 ft	Bridge roadway width, curb-to-curb	8 m = 26.2 ft
Inventory Route, Total Horizontal Clearance	8 m = 26.2 ft	Curb or sidewalk width - left	0.8 m = 2.6 ft	Curb or sidewalk width - right	0.8 m = 2.6 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	27 metric ton = 29.7 tons	
0.5 km = 0.3 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	46 metric ton = 50.6 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	1001	Average daily truck traffi	3 %	Year	1984	Future average daily traffic	600	Year	
Road classification	Collector (Urban) [17]	Lanes on structure	2	Approach roadway width	7 m = 23.0 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	Highway, with or without ped	Lanes under structure	6	Navigation control	Not applicable, no waterway. [N]				
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	99.99 m = 328.1 ft						
Minimum lateral underclearance reference feature	Highway beneath structure [H]								
Minimum lateral underclearance on right	3.1 m = 10.2 ft	Minimum lateral underclearance on left	4.5 m = 14.8 ft						
Minimum Vertical Underclearance	4.55 m = 14.9 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]								

Repair and Replacement Plans

Type of work to be performed

Bridge deck replacement with only incidental widening. [37]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	76.2 m = 250.0 ft	Total project cost	0
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	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Serious [3]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	59.3
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	June 2008 [0608]	Designated inspection frequency	24	Months
Underwater inspection	Not needed [N]	Underwater inspection date		
Fracture critical inspection	Not needed [N]	Fracture critical inspection date		
Other special inspection	Not needed [N]	Other special inspection date		