HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Bay County [017]	Monitor [54980]	IN BAY CITY (LAFAYETTE AV	43-34-48 = 43.580000	083-54-12 = -83.903333

09109032000B020	Highway agency district: 4	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 13		M-13 & M-84	Toll: On free road [3]	Features intersected: W CHANNEL SAGINAW RIVER	

Design - main: Steel continuous [4]		Design - approach		Kilometerpoint: 89.5 km = 55.5 mi	
6	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built: 1938	Year reconstructed: 2005
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 154.8 m = 507.9 ft	Length of maximum span: 29.9 m = 98.1 ft	Deck width, out-to-out: 13.7 m = 44.9 ft	Bridge roadway width, curb-to-curb: 9.1 m = 29.9 ft
Inventory Route, Total Horizontal Clearance: 12.1 m = 39.7 ft	Curb or sidewalk width - left: 1.8 m = 5.9 ft	Curb or sidewalk width - right: 1.8 m = 5.9 ft
Deck structure type: Concrete Cast-in-Place [1]		
Type of wearing surface: Latex Concrete or similar additive [3]		
Deck protection:		
Type of membrane/wearing surface:		

Weight Limits

Bypass, detour length: 0.6 km = 0.4 mi	Method to determine inventory rating: Allowable Stress(AS) [2]		Inventory rating: 32.7 metric ton = 36.0 tons		
	Method to determine operating rating: Allowable Stress(AS) [2]		Operating rating: 70 metric ton = 77.0 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: MS 18 / HS 20 [5]		

Functional Details

Average Daily Traffic	19666	Average daily truck traffi	6 %	Year	2007	Future average daily traffic	25100
Year	2025						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	2	Approach roadway width	9.1 m = 29.9 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	5 m = 16.4 ft	Navigation horizontal clearance	22 m = 72.2 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	99.99 m = 328.1 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

Widening of existing bridge or other major structure without deck rehabilitation or replacement [33]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	1957000	Roadway improvement cost	8000
Length of structure improvement	152.4 m = 500.0 ft	Total project cost	92000
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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	73.9
Culverts	Not applicable. Used if structure is not a culvert. [N]		

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	March 2009 [0309]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2005 [0905]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	