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]	Washtenaw County [161]	Ypsilanti [89140]	IN YPSILANTI (E MICH AVE)	42-14-27 = 42.240833	083-36-41 = -83.611389

81181032000B010 | Highway agency district: 6 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 12 | US-12BR, M-17 | Toll: On free road [3] | Features intersected: HURON RIVER

Design - main	Concrete [1]	Design - approach		Kilometerpoint	305.1 km = 189.2 mi
1	Arch - Deck [11]	0	Other [00]	Year built	1912
				Year reconstructed	N/A [0000]
				Skew angle	20
				Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	32 m = 105.0 ft	Length of maximum span	32 m = 105.0 ft	Deck width, out-to-out	23.9 m = 78.4 ft	Bridge roadway width, curb-to-curb	20.1 m = 65.9 ft
Inventory Route, Total Horizontal Clearance	23.1 m = 75.8 ft	Curb or sidewalk width - left	1.5 m = 4.9 ft	Curb or sidewalk width - right	1.5 m = 4.9 ft		

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Bituminous [6]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi

Method to determine inventory rating: Allowable Stress(AS) [2] | Inventory rating: 20 metric ton = 22.0 tons

Method to determine operating rating: Allowable Stress(AS) [2] | Operating rating: 99.9 metric ton = 109.9 tons

Bridge posting: Equal to or above legal loads [5] | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	21936	Average daily truck traffi	3 %	Year	2007	Future average daily traffic	28118
Year	2018						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	20.1 m = 65.9 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	99.99 m = 328.1 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

Bridge improvement cost

Roadway improvement cost

Length of structure improvement

Total project cost

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 desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Better than present minimum criteria [7]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]
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	Better than present minimum criteria [7]	Status evaluation	
Pier or abutment protection		Sufficiency rating	68.4

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	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	December 2009 [1209]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2005 [0805]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	