

HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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

Michigan [26]	Monroe County [115]	Berlin [07720]	2.8 MI SW OF WAYNE COL	42-02-14 = 42.037222	083-17-13 = - 83.286944
58158152000S060	Highway agency district 6	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 0		SIGLER RD	Toll On free road [3]	Features intersected I-75	
Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint 1101.6 km = 683.0 mi	
4	Tee beam [04]	0	Other [00]	Year built 1954	Year reconstructed N/A [0000]
				Skew angle 32	Structure Flared
				Historical significance Bridge is on the NRHP. [1]	
Total length 79.8 m = 261.8 ft	Length of maximum span 23.7 m = 77.8 ft	Deck width, out-to-out 9.5 m = 31.2 ft	Bridge roadway width, curb-to-curb 7.9 m = 25.9 ft		
Inventory Route, Total Horizontal Clearance 8.8 m = 28.9 ft	Curb or sidewalk width - left 0.4 m = 1.3 ft	Curb or sidewalk width - right 0.4 m = 1.3 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	Allowable Stress(AS) [2]	Inventory rating	46.4 metric ton = 51.0 tons
0.5 km = 0.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	83.6 metric ton = 92.0 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	270	Average daily truck traffi	3	%	Year	1995	Future average daily traffic	270	Year	2015
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	10.9 m = 35.8 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						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	2.7 m = 8.9 ft					Minimum lateral underclearance on left	5 m = 16.4 ft			
Minimum Vertical Underclearance	4.7 m = 15.4 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost	91000	Roadway improvement cost	9000
	Length of structure improvement	79.9 m = 262.2 ft	Total project cost	107000
	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 - superstructure	Good [7]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	83.4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	May 2009 [0509]	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	