

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]	Gratiot County [057]	Pine River [64360]	SEC 32 PINE RIVER TWP	43-22-44 = 43.378889	084-42-20 = - 84.705556
29200021000B020	Highway agency district 4	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 2974	LINCOLN ROAD	Toll On free road [3]	Features intersected	DRAIN #73	
Design - main	Steel [3]	Design - approach	Kilometerpoint	2722.2 km = 1687.8 mi	
1	Stringer/Multi-beam or girder [02]	0	Year built	1930	Year reconstructed N/A [0000]
		Other [00]	Skew angle	45	Structure Flared
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length	11.2 m = 36.7 ft	Length of maximum span	9.7 m = 31.8 ft	Deck width, out-to-out	11.1 m = 36.4 ft
Inventory Route, Total Horizontal Clearance	9.1 m = 29.9 ft	Curb or sidewalk width - left	0.9 m = 3.0 ft	Curb or sidewalk width - right	0.9 m = 3.0 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	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	30.3 metric ton = 33.3 tons
0.5 km = 0.3 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	50.6 metric ton = 55.7 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18+Mod / HS 20+Mod [6]

Functional Details

Average Daily Traffic	4800	Average daily truck traffi	0	%	Year	2003	Future average daily traffic	6480	Year	2023
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	9.1 m = 29.9 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	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	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	128000	Roadway improvement cost	25000
	Length of structure improvement	15.5 m = 50.9 ft	Total project cost	190000
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	49.4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	June 2009 [0609]	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	