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]	Shiawassee County [155]	Caledonia [12520]	3.3 MI SE OF CORUNNA	42-58-07 = 42.968611	084-03-21 = -84.055833

76304H00003B010	Highway agency district: 6	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 0		MARTIN RD	Toll: On free road [3]	Features intersected: SHIAWASSEE RIVER	
Design - main: Steel [3]		Design - approach:		Kilometerpoint: 129.4 km = 80.2 mi	
1	Truss - Thru [10]	0	Other [00]	Year built: 1885	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is on the NRHP. [1]	

Total length: 36.2 m = 118.8 ft	Length of maximum span: 35 m = 114.8 ft	Deck width, out-to-out: 5 m = 16.4 ft	Bridge roadway width, curb-to-curb: 4.6 m = 15.1 ft		
Inventory Route, Total Horizontal Clearance: 4.5 m = 14.8 ft	Curb or sidewalk width - left: 0 m = 0.0 ft	Curb or sidewalk width - right: 0 m = 0.0 ft			
Deck structure type: Wood or Timber [8]					
Type of wearing surface: Wood or Timber [7]					
Deck protection:					
Type of membrane/wearing surface:					

Weight Limits

Bypass, detour length: 0.5 km = 0.3 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 0 metric ton = 0.0 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 0 metric ton = 0.0 tons			
	Bridge posting:	Design Load: MS 18+Mod / HS 20+Mod [6]			

Functional Details

Average Daily Traffic	0	Average daily truck traffi	5 %	Year	1992	Future average daily traffic	0	Year	2000

Road classification	Local (Rural) [09]	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	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	4.57 m = 15.0 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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	485000	Roadway improvement cost	25000
Length of structure improvement	48.8 m = 160.1 ft	Total project cost	530000
Year of improvement cost estimate			
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Bridge closed to all traffic [K]	Appraisal ratings - structural	
Condition ratings - superstructur		Appraisal ratings - roadway alignment	
Condition ratings - substructure		Appraisal ratings - deck geometry	
Condition ratings - deck			
Scour	Scour calculation/evaluation has not been made. [6]		
Channel and channel protection			
Appraisal ratings - water adequacy		Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	19.5
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	April 2008 [0408]	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	