HistoricBridges.org - National Bridge Inventory Data Sheet

2000 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]	St. Joseph County [149]	Fawn River [27540]	3 MI. SE OF STURGIS	00-00-00 = 0.000000	000-00-00 = -0.000000

78304H00014B010	Highway agency district: 5	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 0		BIG HILL ROAD	Toll: On free road [3]	Features intersected: FAWN RIVER	

Design - main	Steel [3]	Design - approach		Kilometerpoint: 0 km = 0.0 mi	
1	Truss - Thru [10]	0	Other [00]	Year built: 1905	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is on the NRHP. [1]	

Total length: 25.6 m = 84.0 ft	Length of maximum span: 25 m = 82.0 ft	Deck width, out-to-out: 4.8 m = 15.7 ft	Bridge roadway width, curb-to-curb: 4.8 m = 15.7 ft		
Inventory Route, Total Horizontal Clearance: 4.8 m = 15.7 ft	Curb or sidewalk width - left: 0 m = 0.0 ft	Curb or sidewalk width - right: 0 m = 0.0 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: 19.9 km = 12.3 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 1.1 metric ton = 1.2 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 1.5 metric ton = 1.7 tons			
	Bridge posting: 10.0 - 19.9 % below [3]	Design Load:			

Functional Details

Average Daily Traffic	11	Average daily truck traffi	2 %	Year	1997	Future average daily traffic	13
Year	2017						
Road classification	Local (Rural) [09]	Lanes on structure	2	Approach roadway width	6.7 m = 22.0 ft		
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	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

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	0	Roadway improvement cost	0
Length of structure improvement	31.6 m = 103.7 ft	Total project cost	
Year of improvement cost estimate	1997		
Border bridge - state		Border bridge - percent responsibility of other state	0
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	N/A [N]
Condition ratings - deck	Poor [4]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
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	Better than present minimum criteria [7]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	24.7

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	November 1997 [1197]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [N24]	Underwater inspection date	
Fracture critical inspection	Unknown [N24]	Fracture critical inspection date	
Other special inspection	Unknown [N24]	Other special inspection date	

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2012 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
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Basic Information

Michigan [26]	St. Joseph County [149]	Fawn River [27540]	3 MI SE OF STURGIS	41-45-49 = 41.763611	085-23-20 = -85.388889

10334	Highway agency district 5	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route 0		BIG HILL ROAD	Toll	On free road [3]	Features intersected FAWN RIVER

Design - main	Prestressed concrete [5]	Design - approach		Kilometerpoint	46.3 km = 28.7 mi
1	Box beam or girders - Multiple [05]	0	Other [00]	Year built 2007	Year reconstructed
				Skew angle 0	Structure Flared
				Historical significance	Bridge is on the NRHP. [1]

Total length	25.6 m = 84.0 ft	Length of maximum span	25 m = 82.0 ft	Deck width, out-to-out	9.5 m = 31.2 ft	Bridge roadway width, curb-to-curb	9.1 m = 29.9 ft
Inventory Route, Total Horizontal Clearance	4.8 m = 15.7 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Concrete Precast Panels [2]
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	40.6 metric ton = 44.7 tons	
20.1 km = 12.5 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	67.7 metric ton = 74.5 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	15	Average daily truck traffi	2 %	Year	2003	Future average daily traffic	15
Year	2023						

Road classification	Local (Rural) [09]	Lanes on structure	2	Approach roadway width	7.9 m = 25.9 ft
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	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

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	269000	Roadway improvement cost	30000
Length of structure improvement	31.6 m = 103.7 ft	Total project cost	299000
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 desirable criteria [8]
Condition ratings - superstructur	Very Good [8]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Very Good [8]	Appraisal ratings - deck geometry	N/A [N]
Condition ratings - deck	Very Good [8]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
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	Better than present minimum criteria [7]	Status evaluation	
Pier or abutment protection		Sufficiency rating	94.9

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	November 2011 [1111]	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	