

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

Michigan [26]    Shiawassee County [155]    Bennington [07280]    4 MILES N.E. OF LAINGSBUR    42-56-05 = 42.934722    084-16-24 = - 84.273333

76200023000B010    Highway agency district 6    Owner County Highway Agency [02]    Maintenance responsibility County Highway Agency [02]

Route 7646    BENNINGTON ROAD    Toll On free road [3]    Features intersected BEAR CREEK

Design - main Steel [3]    Design - approach    Kilometerpoint 751.9 km = 466.2 mi

1    Stringer/Multi-beam or girder [02]    0    Other [00]    Year built 1925    Year reconstructed N/A [0000]

Skew angle 0    Structure Flared    Historical significance Historical significance is not determinable at this time. [4]

Total length 8.2 m = 26.9 ft    Length of maximum span 7.3 m = 24.0 ft    Deck width, out-to-out 8 m = 26.2 ft    Bridge roadway width, curb-to-curb 7 m = 23.0 ft

Inventory Route, Total Horizontal Clearance 7.1 m = 23.3 ft    Curb or sidewalk width - left 0.1 m = 0.3 ft    Curb or sidewalk width - right 0.1 m = 0.3 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 0.5 km = 0.3 mi    Method to determine inventory rating Load and Resistance Factor(LRFR) [3]    Inventory rating 19 metric ton = 20.9 tons

Method to determine operating rating Load and Resistance Factor(LRFR) [3]    Operating rating 26 metric ton = 28.6 tons

Bridge posting 20.0 - 29.9 % below [2]    Design Load M 18 / H 20 [4]

### Functional Details

Average Daily Traffic	240	Average daily truck traffi	5	%	Year	1992	Future average daily traffic	430	Year	2012
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	7.9 m = 25.9 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	136000	Roadway improvement cost	14000						
	Length of structure improvement	10.4 m = 34.1 ft		Total project cost	182000					
	Year of improvement cost estimate									
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

## Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Scour calculation/evaluation has not been made. [6]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	41.4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
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	March 2008 [0308]	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	