

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]	Osceola County [133]	Marion [51660]	0.1 MI E OF M-66	44-06-08 = 44.102222	085-08-46 = - 85.146111
674421267061B02	Highway agency district 2	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route 61	OLD M-61	Toll On free road [3]	Features intersected	MIDDLE BRANCH R	
Design - main Concrete [1]	Design - approach	Kilometerpoint 3346.5 km = 2074.8 mi	Year built 1939	Year reconstructed N/A [0000]	
1	Arch - Deck [11]	0 Other [00]	Skew angle 15	Structure Flared	
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length 8.2 m = 26.9 ft	Length of maximum span 7.6 m = 24.9 ft	Deck width, out-to-out 35.7 m = 117.1 ft	Bridge roadway width, curb-to-curb	26.5 m = 86.9 ft	
Inventory Route, Total Horizontal Clearance 25.7 m = 84.3 ft	Curb or sidewalk width - left 4.6 m = 15.1 ft	Curb or sidewalk width - right	4.6 m = 15.1 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 0.6 km = 0.4 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	18.2 metric ton = 20.0 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	62.7 metric ton = 69.0 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	<input type="text" value="3600"/>	Average daily truck traffi	<input type="text" value="5"/>	%	Year	<input type="text" value="2008"/>	Future average daily traffic	<input type="text" value="6000"/>	Year	<input type="text" value="2028"/>
Road classification	<input type="text" value="Minor Arterial (Rural) [06]"/>		Lanes on structure	<input type="text" value="4"/>		Approach roadway width	<input type="text" value="26.5 m = 86.9 ft"/>			
Type of service on bridge	<input type="text" value="Highway-pedestrian [5]"/>		Direction of traffic	<input type="text" value="2 - way traffic [2]"/>		Bridge median	<input type="text"/>			
Parallel structure designation	<input type="text" value="No parallel structure exists. [N]"/>									
Type of service under bridge	<input type="text" value="Waterway [5]"/>		Lanes under structure	<input type="text" value="0"/>		Navigation control	<input type="text"/>			
Navigation vertical clearanc	<input type="text" value="0 = N/A"/>		Navigation horizontal clearance	<input type="text" value="0 = N/A"/>						
Minimum navigation vertical clearance, vertical lift bridge	<input type="text"/>					Minimum vertical clearance over bridge roadway	<input type="text" value="99.99 m = 328.1 ft"/>			
Minimum lateral underclearance reference feature	<input type="text" value="Feature not a highway or railroad [N]"/>									
Minimum lateral underclearance on right	<input type="text" value="99.9 = Unlimited"/>					Minimum lateral underclearance on left	<input type="text" value="0 = N/A"/>			
Minimum Vertical Underclearance	<input type="text" value="0 = N/A"/>		Minimum vertical underclearance reference feature	<input type="text" value="Feature not a highway or railroad [N]"/>						
Appraisal ratings - underclearances	<input type="text" value="N/A [N]"/>									

Repair and Replacement Plans

Type of work to be performed	Work done by	<input type="text" value="Work to be done by contract [1]"/>								
<input type="text" value="Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]"/>	Bridge improvement cost	<input type="text" value="750000000"/>	Roadway improvement cost	<input type="text" value="100000000"/>						
	Length of structure improvement	<input type="text" value="9.1 m = 29.9 ft"/>		Total project cost	<input type="text" value="850000000"/>					
	Year of improvement cost estimate	<input type="text" value="2005"/>								
	Border bridge - state	<input type="text"/>				Border bridge - percent responsibility of other state	<input type="text"/>			
	Border bridge - structure number	<input type="text"/>								

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 minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Superior to present desirable criteria [9]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
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	50.3
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	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]		
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	