

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]	Calhoun County [025]	Marshall [51940]	MARSHALL MICHIGAN	42-15-41 = 42.261389	084-57-14 = 84.953889				
1417	Highway agency district	5	Owner	City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]			
Route	0	MARSHALL AVENUE	Toll	On free road [3]	Features intersected	KALAMAZOO RIVER			
Design - main	Concrete [1]	Design - approach		Kilometerpoint	30.7 km = 19.0 mi				
1	Arch - Deck [11]	0	Other [00]	Year built	1910	Year reconstructed			
				Skew angle	0	Structure Flared			
				Historical significance	Bridge is not eligible for the NRHP. [5]				
Total length	19.5 m = 64.0 ft		Length of maximum span	18.9 m = 62.0 ft		Deck width, out-to-out	14 m = 45.9 ft	Bridge roadway width, curb-to-curb	10.7 m = 35.1 ft
Inventory Route, Total Horizontal Clearance	10.7 m = 35.1 ft		Curb or sidewalk width - left	1.2 m = 3.9 ft		Curb or sidewalk width - right	0.9 m = 3.0 ft		
Deck structure type	Not applicable [N]								
Type of wearing surface	Bituminous [6]								
Deck protection									
Type of membrane/wearing surface									

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	14.8 metric ton = 16.3 tons
0.3 km = 0.2 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	22.2 metric ton = 24.4 tons
	Bridge posting		Design Load	

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

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	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Not Applicable [N]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	46.7
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	July 2011 [0711]	Designated inspection frequency	12 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	