HistoricBridges.org - National Bridge Inventory Data Sheet

2002 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]	Kent County [081]	Grand Rapids [34000]	GRAND RAPIDS	00-00-00 = 0.000000	000-00-00 = -0.000000

414278400464B01	Highway agency district: 3	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		

Route: 2001		DIVISION AVENUE	Toll: On free road [3]	Features intersected: PLASTER CREEK	

Design - main: 1	Concrete [1]	Arch - Deck [11]	Design - approach: 0	Other [00]	

Kilometerpoint: 0 km = 0.0 mi
Year built: 1914 Year reconstructed: 1936
Skew angle: 0 Structure Flared:
Historical significance: Bridge is on the NRHP. [1]

Total length: 16.7 m = 54.8 ft	Length of maximum span: 15.5 m = 50.9 ft	Deck width, out-to-out: 17.3 m = 56.8 ft	Bridge roadway width, curb-to-curb: 13.1 m = 43.0 ft				
Inventory Route, Total Horizontal Clearance: 13.1 m = 43.0 ft	Curb or sidewalk width - left: 1.6 m = 5.2 ft	Curb or sidewalk width - right: 1.6 m = 5.2 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: 0.2 km = 0.1 mi	Method to determine inventory rating: Load Factor(LF) [1]	Inventory rating: 26 metric ton = 28.6 tons			
	Method to determine operating rating: Load Factor(LF) [1]	Operating rating: 55.3 metric ton = 60.8 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 18+Mod / HS 20+Mod [6]			

Functional Details

Average Daily Traffic	21613	Average daily truck traffi	3 %	Year	1996	Future average daily traffic	35550	Year	2017

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	12.2 m = 40.0 ft
Type of service on bridge	Highway-pedestrian [5]	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	0 m = 0.0 ft	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	91.5 m = 300.2 ft	Total project cost	0
Year of improvement cost estimate	2050		
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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
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	Better than present minimum criteria [7]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	40.1

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	September 2001 [0901]	Designated inspection frequency	24	Months

Underwater inspection		Underwater inspection date	
Fracture critical inspection	Unknown [N00]	Fracture critical inspection date	
Other special inspection	Unknown [N00]	Other special inspection date	