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

414278400558R01	Highway agency district: 3	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		
Route: 2001		COLLEGE AVENUE	Toll: On free road [3]	Features intersected: GRAND TRUNK RR	

Design - main: 4	Concrete [1]	Box beam or girders - Multiple [05]	Design - approach: 0	Other [00]	
Kilometerpoint: 0 km = 0.0 mi					
Year built: 1915	Year reconstructed: 1962				
Skew angle: 28	Structure Flared:				
Historical significance: Bridge is not eligible for the NRHP. [5]					

Total length: 30.1 m = 98.8 ft	Length of maximum span: 7.6 m = 24.9 ft	Deck width, out-to-out: 20.1 m = 65.9 ft	Bridge roadway width, curb-to-curb: 13.4 m = 44.0 ft				
Inventory Route, Total Horizontal Clearance: 13.4 m = 44.0 ft	Curb or sidewalk width - left: 3 m = 9.8 ft	Curb or sidewalk width - right: 3 m = 9.8 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: 44.7 metric ton = 49.2 tons			
	Method to determine operating rating: Load Factor(LF) [1]	Operating rating: 74.5 metric ton = 82.0 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 18+Mod / HS 20+Mod [6]			

Functional Details

Average Daily Traffic	9019	Average daily truck traffi	7 %	Year	1996	Future average daily traffic	14850	Year	2017
Road classification	Collector (Urban) [17]	Lanes on structure	4	Approach roadway width	13.4 m = 44.0 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	Railroad [2]	Lanes under structure	0	Navigation control	Not applicable, no waterway. [N]				
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	6.7 m = 22.0 ft	Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	N/A [N]								

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	1000	Roadway improvement cost	1000
Length of structure improvement	30.2 m = 99.1 ft	Total project cost	
Year of improvement cost estimate	1989		
Border bridge - state		Border bridge - percent responsibility of other state	0
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	32.6
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			
Traffic safety features - approach guardrail ends			

Inspection date	September 1999 [0999]	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		