HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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

Pennsylvania [42]	Allegheny County [003]	Pittsburgh [61000]	301052 ROBERT MCAFEE BRDG	40-28-18 = 40.471667	080-02-12 = -80.036667

027301000030520	Highway agency district: 11	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		
Route: 0		CALIFORNIA AVENUE	Toll: On free road [3]	Features intersected: MCCLURE AVE, ECKERT ST	

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
1	Truss - Deck [09]	7	Mixed types [20]	Year built: 1928	Year reconstructed: 1981
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	195.7 m = 642.1 ft	Length of maximum span	114.3 m = 375.0 ft	Deck width, out-to-out	17 m = 55.8 ft	Bridge roadway width, curb-to-curb	11.6 m = 38.1 ft
Inventory Route, Total Horizontal Clearance	11.6 m = 38.1 ft	Curb or sidewalk width - left	1.8 m = 5.9 ft	Curb or sidewalk width - right	1.8 m = 5.9 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	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	46.3 metric ton = 50.9 tons	
0.3 km = 0.2 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	78 metric ton = 85.8 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	10000	Average daily truck traffi	5 %	Year	2003	Future average daily traffic	10100	Year	2020

Road classification	Local (Urban) [19]	Lanes on structure	2	Approach roadway width	11.6 m = 38.1 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	Highway, with or without ped	Lanes under structure	8	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	10 m = 32.8 ft		
Minimum lateral underclearance reference feature	Highway beneath structure [H]				
Minimum lateral underclearance on right	99.9 = Unlimited	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	15 m = 49.2 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]		
Appraisal ratings - underclearances	Superior to present desirable criteria [9]				

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 owner's forces [2]		
Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	213.1 m = 699.2 ft	Total project cost	1000
Year of improvement cost estimate			
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
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	
Pier or abutment protection		Sufficiency rating	84.3
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]		
Inspection date	September 2009 [0909]	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	