HistoricBridges.org - National Bridge Inventory Data Sheet

2003 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]	Butler County [019]	Butler [10464]	BUTLER CITY	40-51-24 = 40.856667	079-53-30 = -79.891667

100356041000890	Highway agency district: 10	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 356		LR10030,SR0356	Toll: On free road [3]	Features intersected: B&P,B&LE RRS; CONNOQ. CR	

Design - main: Steel continuous [4]	Design - approach: Steel [3]	Kilometerpoint: 0 km = 0.0 mi			
12	Girder and floorbeam system [03]	0	Stringer/Multi-beam or girder [02]	Year built: 1915	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 263.7 m = 865.2 ft	Length of maximum span: 25.6 m = 84.0 ft	Deck width, out-to-out: 14.9 m = 48.9 ft	Bridge roadway width, curb-to-curb: 10.9 m = 35.8 ft				
Inventory Route, Total Horizontal Clearance: 10.9 m = 35.8 ft	Curb or sidewalk width - left: 2 m = 6.6 ft	Curb or sidewalk width - right: 2 m = 6.6 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: 1.8 km = 1.1 mi	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 33.3 metric ton = 36.6 tons		
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 55.8 metric ton = 61.4 tons		
	Bridge posting: 00.1 - 09.9 % below [4]		Design Load: M 18 / H 20 [4]		

Functional Details

Average Daily Traffic	7189	Average daily truck traffi	7 %	Year	2003	Future average daily traffic	24000
Year	2021						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	10.7 m = 35.1 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Railroad-waterway [7]	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	Railroad beneath structure [R]						
Minimum lateral underclearance on right	1.4 m = 4.6 ft	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	6.22 m = 20.4 ft	Minimum vertical underclearance reference feature					
Appraisal ratings - underclearances	Unknown [*]						

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	8453000	Roadway improvement cost	3635000
Length of structure improvement	304.8 m = 1000.0 ft	Total project cost	16661000
Year of improvement cost estimate	2002		
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 - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
Scour	Scour calculation/evaluation has not been made. [6]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	55.3
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	October 2002 [1002]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	October 2002 [1002]
Other special inspection	Every year [Y12]	Other special inspection date	October 2002 [1002]