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]	Beaver County [007]	Marion [47432]	300' WEST OF SR 1019	40-46-48 = 40.780000	080-14-30 = -80.241667

40588019010170	Highway agency district: 11	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 588		CONCORD CHURCH RD	Toll: On free road [3]	Features intersected: BRUSH CREEK	

Design - main: 1	Steel [3] / Truss - Thru [10]	Design - approach: 0	Other [00]	Kilometerpoint: 0 km = 0.0 mi	
Year built: 1871	Year reconstructed: 1929	Skew angle: 0	Structure Flared:	Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 23.8 m = 78.1 ft	Length of maximum span: 22.9 m = 75.1 ft	Deck width, out-to-out: 6.7 m = 22.0 ft	Bridge roadway width, curb-to-curb: 5.5 m = 18.0 ft		
Inventory Route, Total Horizontal Clearance: 5.4 m = 17.7 ft	Curb or sidewalk width - left: 0.2 m = 0.7 ft	Curb or sidewalk width - right: 0.2 m = 0.7 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: 0.8 km = 0.5 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 18 metric ton = 19.8 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 39.6 metric ton = 43.6 tons			
	Bridge posting: 20.0 - 29.9 % below [2]	Design Load:			

Functional Details

Average Daily Traffic	2054	Average daily truck traffi	5 %	Year	2003	Future average daily traffic	2500	Year	2022
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	5.8 m = 19.0 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	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	460000	Roadway improvement cost	198000
Length of structure improvement	39.6 m = 129.9 ft	Total project cost	907000
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 other load-capacity restriction [R]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			

Inspection date	April 2002 [0402]	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		