

# HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportation 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]	Chester County [029]	Downingtown [19752]	DOWNINGTOWN 30F02	40-00-27 = 40.007500	075-42-44 = - 75.712222
10189	Highway agency district 6	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 322	MANOR AVENUE	Toll On free road [3]	Features intersected BEAVER CREEK		
Design - main Concrete [1]	Design - approach	Kilometerpoint 2287.2 km = 1418.1 mi			
2 Tee beam [04]	0 Other [00]	Year built 1934	Year reconstructed	N/A [0000]	
		Skew angle 0	Structure Flared		
		Historical significance Bridge is not eligible for the NRHP. [5]			
Total length 19.5 m = 64.0 ft	Length of maximum span 9.4 m = 30.8 ft	Deck width, out-to-out 15.8 m = 51.8 ft	Bridge roadway width, curb-to-curb 11.1 m = 36.4 ft		
Inventory Route, Total Horizontal Clearance 11.1 m = 36.4 ft	Curb or sidewalk width - left 2.4 m = 7.9 ft	Curb or sidewalk width - right 2.4 m = 7.9 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 1 km = 0.6 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating 31.8 metric ton = 35.0 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating 53.5 metric ton = 58.9 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

### Functional Details

Average Daily Traffic	12659	Average daily truck traffi	7	%	Year	2012	Future average daily traffic	15519	Year	2032
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	2		Approach roadway width	11.3 m = 37.1 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	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						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	0 = N/A					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	Work done by	Work to be done by contract [1]		
Other structural work, including hydraulic replacements. [38]	Bridge improvement cost	0	Roadway improvement cost	0
	Length of structure improvement	26 m = 85.3 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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
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	Better than present minimum criteria [7]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	60.7
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	June 2011 [0611]	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	