

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Pennsylvania [42]		Beaver County [007]		Bridgewater [08632]		BEAVER-ROCHESTER BR		40-41-58 = 40.699444		080-17-03 = - 80.284167	
3487		Highway agency district 11		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 51		North [1]		PENNSYLVANIA AV		Toll On free road [3]		Features intersected SR 65, BEAVER R, N-S RR			
Design - main Steel [3]		Design - approach Steel [3]		Kilometerpoint 1654.9 km = 1026.0 mi		Year built 1963		Year reconstructed 2011			
3		Truss - Deck [09]		5		Girder and floorbeam system [03]		Skew angle 0		Structure Flared	
								Historical significance Bridge is not eligible for the NRHP. [5]			
Total length 302.7 m = 993.2 ft		Length of maximum span 111.3 m = 365.2 ft		Deck width, out-to-out 20.3 m = 66.6 ft		Bridge roadway width, curb-to-curb 18.3 m = 60.0 ft					
Inventory Route, Total Horizontal Clearance 9.1 m = 29.9 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		Monolithic Concrete (concurrently placed with structural deck) [1]									
Deck protection											
Type of membrane/wearing surface											

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi		Method to determine inventory rating Allowable Stress(AS) [2]		Inventory rating 28 metric ton = 30.8 tons	
		Method to determine operating rating Allowable Stress(AS) [2]		Operating rating 47 metric ton = 51.7 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	
Pier or abutment protection		Sufficiency rating	92.5
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			
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	August 2011 [0811]	Designated inspection frequency	24 Months
Underwater inspection	Every two years [Y24]	Underwater inspection date	August 2009 [0809]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2011 [0811]
Other special inspection	Not needed [N]	Other special inspection date	