

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] Lawrence County [073] New Castle [53368] MAHONING AVE. VIADUCT 40-58-54 = 40.981667 080-21-17 = - 80.354722

370018030023630 Highway agency district 11 Owner Railroad [27] Maintenance responsibility Railroad [27]

Route 18 MAHONING AV Toll On free road [3] Features intersected SHENANGO R, CSX RR

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 1713.1 km = 1062.1 mi

3 Truss - Thru [10] 8 Girder and floorbeam system [03] Year built 1923 Year reconstructed 1985

Skew angle 0 Structure Flared

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 364.2 m = 1194.9 ft Length of maximum span 93.6 m = 307.1 ft Deck width, out-to-out 9.8 m = 32.2 ft Bridge roadway width, curb-to-curb 9 m = 29.5 ft

Inventory Route, Total Horizontal Clearance 9 m = 29.5 ft Curb or sidewalk width - left 1.5 m = 4.9 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 Epoxy Coated Reinforcing [1]

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 5.4 metric ton = 5.9 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 35.4 metric ton = 38.9 tons

Bridge posting Equal to or above legal loads [5] Design Load M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	8583	Average daily truck traffi	16	%	Year	2010	Future average daily traffic	8000	Year	2023	
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	8.8 m = 28.9 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	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						Minimum vertical clearance over bridge roadway	5.56 m = 18.2 ft				
Minimum lateral underclearance reference feature	Railroad beneath structure [R]										
Minimum lateral underclearance on right	0 = N/A					Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	7.11 m = 23.3 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]							
Appraisal ratings - underclearances	Basically intolerable requiring high priority of replacement [2]										

Repair and Replacement Plans

Type of work to be performed	Work done by Work to be done by contract [1]									
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	2000	Roadway improvement cost	5000						
	Length of structure improvement	518.2 m = 1700.2 ft		Total project cost	21000					
	Year of improvement cost estimate									
	Border bridge - state					Border bridge - percent responsibility of other state				
	Border bridge - structure number									

Inspection and Sufficiency

Structure status	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - superstructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - substructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Satisfactory [6]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition. [5]"/>		
Channel and channel protection	<input type="text" value="Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="4"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="March 2009 [0309]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>