

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]		Chester County [029]		Warwick [81160]		NR.READING FURNACE 11H01		40-08-51 = 40.147500		075-46-07 = - 75.768611	
154039002000000		Highway agency district 6		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 0		MANSION ROAD		Toll On free road [3]		Features intersected SOUTH BRANCH FRENCH CR.					
Design - main Masonry [8]		Design - approach		Kilometerpoint 108.6 km = 67.3 mi		Year built 1904		Year reconstructed N/A [0000]			
1 Arch - Deck [11]		0 Other [00]		Skew angle 0		Structure Flared		Historical significance Bridge is eligible for the NRHP. [2]			
Total length 8.2 m = 26.9 ft		Length of maximum span 7.6 m = 24.9 ft		Deck width, out-to-out 4.9 m = 16.1 ft		Bridge roadway width, curb-to-curb 4.6 m = 15.1 ft					
Inventory Route, Total Horizontal Clearance 4.6 m = 15.1 ft		Curb or sidewalk width - left 0 m = 0.0 ft		Curb or sidewalk width - right 0 m = 0.0 ft							
Deck structure type		Not applicable [N]									
Type of wearing surface		Not applicable (applies only to structures with no deck) [N]									
Deck protection		Not applicable (applies only to structures with no deck) [N]									
Type of membrane/wearing surface		Not applicable (applies only to structures with no deck) [N]									

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi		Method to determine inventory rating		No rating analysis performed [5]		Inventory rating		32.7 metric ton = 36.0 tons	
		Method to determine operating rating		No rating analysis performed [5]		Operating rating		59 metric ton = 64.9 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load		M 13.5 / H 15 [2]			

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

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - superstructure

Fair [5]

Appraisal ratings -
roadway alignment

Equal to present desirable criteria [8]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Not Applicable [N]

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

Functionally obsolete [2]

Pier or abutment protection

Sufficiency rating

70.6

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

May 2009 [0509]

Designated inspection frequency

24

Months

Underwater inspection

Unknown [Y48]

Underwater inspection date

April 2005 [0405]

Fracture critical inspection

Not needed [N]

Fracture critical inspection date

Other special inspection

Not needed [N]

Other special inspection date