HistoricBridges.org - National Bridge Inventory Data Sheet

2019 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]	Allegheny County [003]	Pittsburgh [61000]	@ INT W/ FRAZIER STREET	40-25-38.70 = 40.427417	079-57-12.10 = -79.953361

1157	Highway agency district:	11	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	376		PARKWAY EAST(I376)	Toll	On free road [3]	Features intersected	CSX RR,SWINEBURN,FRAZIER

Design - main	Steel continuous [4]	Design - approach	Steel [3]	Kilometerpoint	3831.8 km = 2375.7 mi		
4	Truss - Deck [09]	2	Girder and floorbeam system [03]	Year built	1951	Year reconstructed	1981
				Skew angle	99	Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]		

Total length	309.4 m = 1015.1 ft	Length of maximum span	80.5 m = 264.1 ft	Deck width, out-to-out	29.1 m = 95.5 ft	Bridge roadway width, curb-to-curb	28 m = 91.9 ft
Inventory Route, Total Horizontal Clearance	14.3 m = 46.9 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	Latex Concrete or similar additive [3]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	21.8 metric ton = 24.0 tons	
0.8 km = 0.5 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	39 metric ton = 42.9 tons	
	Bridge posting	00.1 - 09.9 % below [4]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	94777	Average daily truck traffi	6 %	Year	2018	Future average daily traffic	68855	Year	2032

Road classification	Principal Arterial - Interstate (Urban) [11]	Lanes on structure	3	Approach roadway width	29.3 m = 96.1 ft
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median with non-mountable barr
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Highway-railroad [4]	Lanes under structure	8	Navigation control	Not applicable, no waterway. [N]
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	Highway beneath structure [H]				
Minimum lateral underclearance on right	0.7 m = 2.3 ft	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	4.21 m = 13.8 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]		
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]				

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by owner's forces [2]		
Bridge improvement cost	247000	Roadway improvement cost	728000
Length of structure improvement	309 m = 1013.8 ft	Total project cost	3336000
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	Superior to present desirable criteria [9]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	52.8
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]		
Inspection date	August 2017 [0817]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2017 [0817]
Other special inspection	Not needed [N]	Other special inspection date	

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2014 Inventory

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Basic Information

Pennsylvania [42]	Allegheny County [003]	Pittsburgh [61000]	FRAZIER STREET	40-25-38.70 = 40.427417	079-57-12.11 = -79.953364

1157	Highway agency district:	11	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	376	East [2]	PARKWAY EAST SH	Toll	On free road [3]	Features intersected	CSX RR,SWINEBURN,FRAZIER

Design - main	Steel continuous [4]	Design - approach	Steel [3]	Kilometerpoint	3833.6 km = 2376.8 mi		
4	Truss - Deck [09]	2	Girder and floorbeam system [03]	Year built	1951	Year reconstructed	1981
				Skew angle	99	Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]		

Total length	309.4 m = 1015.1 ft	Length of maximum span	80.5 m = 264.1 ft	Deck width, out-to-out	29.1 m = 95.5 ft	Bridge roadway width, curb-to-curb	28 m = 91.9 ft
Inventory Route, Total Horizontal Clearance	14.3 m = 46.9 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	Latex Concrete or similar additive [3]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	21.8 metric ton = 24.0 tons	
0.8 km = 0.5 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	47.2 metric ton = 51.9 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	31012	Average daily truck traffi	8 %	Year	2013	Future average daily traffic	38271
Year	2032						
Road classification	Principal Arterial - Interstate (Urban) [11]	Lanes on structure	6	Approach roadway width	29.3 m = 96.1 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median with non-mountable barr		
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Highway-railroad [4]	Lanes under structure	8	Navigation control	Not applicable, no waterway. [N]		
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	10 m = 32.8 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	5 m = 16.4 ft	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4 m = 13.1 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]						

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by owner's forces [2]		
Bridge improvement cost	0	Roadway improvement cost	1000
Length of structure improvement	309 m = 1013.8 ft	Total project cost	3000
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	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Equal to present minimum criteria [6]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	62.8
Culverts	Not applicable. Used if structure is not a culvert. [N]		

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	September 2011 [0911]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	September 2011 [0911]
Other special inspection	Not needed [N]	Other special inspection date	