

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

New York [36]	Wayne County [117]	Palmyra [56187]	JCT OF RTE 21 + BARGE C	43-03-53.55 = 43.064875	077-13-12.87 = -77.220242
4016480	Highway agency district: 47	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 21	RTE 21	Toll On free road [3]	Features intersected	Erie Canal Heritage Trail	
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	391 km = 242.4 mi
1	Truss - Thru [10]	2	Stringer/Multi-beam or girder [02]	Year built	1961
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	Yes, flared [1]
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length	100.6 m = 330.1 ft	Length of maximum span	70.1 m = 230.0 ft	Deck width, out-to-out	9.4 m = 30.8 ft
				Bridge roadway width, curb-to-curb	8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearance	8.5 m = 27.9 ft	Curb or sidewalk width - left	0 m = 0.0 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	Other Coated Reinforcing [3]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	23.6 metric ton = 26.0 tons
0.3 km = 0.2 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	39 metric ton = 42.9 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 18 / H 20 [4]

Functional Details

Average Daily Traffic	4715	Average daily truck traffi	8	%	Year	2018	Future average daily traffic	4762	Year	2038
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	11.9 m = 39.0 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	4.6 m = 15.1 ft			Navigation horizontal clearance	22.8 m = 74.8 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	4.57 m = 15.0 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]								
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost	5852000	Roadway improvement cost	3427000						
	Length of structure improvement	100.5 m = 329.7 ft		Total project cost	9280000					
	Year of improvement cost estimate	2018								
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

Inspection and Sufficiency

Structure status	Posted for other load-capacity restriction [R]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	65.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
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	November 2018 [1118]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2018 [1118]
Other special inspection	Not needed [N]	Other special inspection date	