HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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

Illinois [17]	Cook County [031]	Alsip [01010]	0.2 M E IL 83	41-39-41 = 41.6	087-45-01 = -87.7

000016057004242	Highway agency district: 1	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		

Route: 83		127TH ST	Toll: On free road [3]	Features intersected: CAL SAG CHANNEL	

Design - main: Steel [3]	Design - approach: Steel [3]	Kilometerpoint: 3399.8 km = 2107.9 mi			
1	Truss - Thru [10]	4	Stringer/Multi-beam or girder [02]	Year built: 1968	Year reconstructed: 1991
				Skew angle: 47	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 186 m = 610.3 ft	Length of maximum span: 120.7 m = 396.0 ft	Deck width, out-to-out: 22.6 m = 74.2 ft	Bridge roadway width, curb-to-curb: 16.2 m = 53.2 ft				
Inventory Route, Total Horizontal Clearance: 17.3 m = 56.8 ft	Curb or sidewalk width - left: 2.7 m = 8.9 ft	Curb or sidewalk width - right: 2.7 m = 8.9 ft					
Deck structure type: Concrete Cast-in-Place [1]							
Type of wearing surface: Other [9]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 38.7 metric ton = 42.6 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 58.5 metric ton = 64.4 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 18 / HS 20 [5]			

Functional Details

Average Daily Traffic	17200	Average daily truck traffi	8 %	Year	2009	Future average daily traffic	25000
Year	2030						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	14.3 m = 46.9 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median with non-mountable bar		
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	7 m = 23.0 ft	Navigation horizontal clearance	68.5 m = 224.7 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	5.49 m = 18.0 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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	5413000	Roadway improvement cost	541000
Length of structure improvement	192.9 m = 632.9 ft	Total project cost	8120000
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 - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection		Sufficiency rating	62.4

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	
Traffic safety features - approach guardrail ends	

Inspection date	May 2008 [0508]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2006 [0806]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2008 [0508]
Other special inspection	Not needed [N]	Other special inspection date	