HistoricBridges.org - National Bridge Inventory Data Sheet

2009 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

Michigan [26]	Wayne County [163]	Westland [86000]	WESTLAND S/ANN ARBOR TRL	42-20-36 = 42.343333	083-19-54 = -83.331667

82200161000S010 | Highway agency district: 7 | Owner: County Highway Agency [02] | Maintenance responsibility: County Highway Agency [02]

Route: 2057 | MIDDLE BELT ROAD | Toll: On free road [3] | Features intersected: E N HINES & MID ROUGE RV

Design - main: Concrete continuous [2] | 2 | Frame [07]

Design - approach: 0 | Other [00]

Kilometerpoint: 2518.1 km = 1561.2 mi

Year built: 1953 | Year reconstructed: N/A [0000]

Skew angle: 0 | Structure Flared:

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

Total length: 42.6 m = 139.8 ft | Length of maximum span: 20.4 m = 66.9 ft | Deck width, out-to-out: 18.9 m = 62.0 ft | Bridge roadway width, curb-to-curb: 14.6 m = 47.9 ft

Inventory Route, Total Horizontal Clearance: 18.2 m = 59.7 ft | Curb or sidewalk width - left: 1.8 m = 5.9 ft | Curb or sidewalk width - right: 1.8 m = 5.9 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]

Deck protection: Epoxy Coated Reinforcing [1]

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 0.5 km = 0.3 mi

Method to determine inventory rating: Allowable Stress(AS) [2] | Inventory rating: 39.1 metric ton = 43.0 tons

Method to determine operating rating: Allowable Stress(AS) [2] | Operating rating: 53.6 metric ton = 59.0 tons

Bridge posting: Equal to or above legal loads [5] | Design Load: MS 18+Mod / HS 20+Mod [6]

Functional Details

Average Daily Traffic: 34683
Average daily truck traffi: 5 %
Year: 1996
Future average daily traffic: 37605
Year: 2015

Road classification: Other Principal Arterial (Urban) [14]
Lanes on structure: 4
Approach roadway width: 14.6 m = 47.9 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: Highway-waterway [6]
Lanes under structure: 2
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: 99.99 m = 328.1 ft

Minimum lateral underclearance reference feature: Highway beneath structure [H]

Minimum lateral underclearance on right: 5.7 m = 18.7 ft
Minimum lateral underclearance on left: 0 = N/A

Minimum Vertical Underclearance: 4.26 m = 14.0 ft
Minimum vertical underclearance reference feature: Highway beneath structure [H]

Appraisal ratings - underclearances: Meets minimum tolerable limits to be left in place as is [4]

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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
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	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	68.2

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	April 2008 [0408]	Designated inspection frequency	24	Months
Underwater inspection	Not needed [N]	Underwater inspection date		
Fracture critical inspection	Not needed [N]	Fracture critical inspection date		
Other special inspection	Not needed [N]	Other special inspection date		