HistoricBridges.org - National Bridge Inventory Data Sheet

2011 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 Informa | Basic Information 43-04-06 = 083-19-07 = - | | | | | | | | | | | | | | | |
|--|--|---------------------|---|---------------------|----------------------------|---|---|-------------------------------|-------------------------|---|--------------------------------|--------------|-----------|-------|--------------------------|--|
| Michigan [26] | | Lapeer County [087] | | | Mayfield [52500] | | | 1.0 MI N OF M-21 | | | | .068333 | 83.318611 | | | |
| 5312 | | Highway | Highway agency district 4 | | | Owner State Highway Agency [01] | | | | | Maintenance responsibility Sta | | | State | tate Highway Agency [01] | |
| Route 24 M-24 | | | | Toll Oi | n free roa | ad [3] | | Feature | s intersect | ed CR RR | (AB | N) | | | | |
| Design - mainSteel [3]3Stringer/Multi-beam or girder [0] | | er [02] | Design - approach 0 | 0 | | Kilometerp Year built Skew angl Historical | | | 1948 e 32 | 1948 Year reconstructed 32 Structure Flared | | | | | | |
| Total length 40.5 m = 132.9 ft Length of maximum span 13.4 m = 44.0 ft Deck width, out-to-out 13.2 m = 43.3 ft Bridge roadway width, curb-to-curb 11.6 m = 38.1 ft | | | | | | | | | o-curb 11.6 m = 38.1 ft | | | | | | | |
| Inventory Route, Total Horizontal Clearance 12.5 m = 41.0 ft | | | Curb or sidewalk width - left 0.1 m = 0.3 | | | 0.3 ft | | Curb or si | idewalk wi | dth - right | 0.1 m = 0.3 ft | | | | | |
| Deck structure type Concrete Cast-in-Plac | | | | e [1] | | | | | | | | | | | | |
| Type of wearing surface Bituminous [6] | | | | | | | | | | | | | | | | |
| Deck protection | | | | | | | | | | | | | | | | |
| Type of membrane/wearing surface | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Weight Limits | | | | | | | | | | | | | | | | |
| Bypass, detour length Method to determine inv | | | ne inventory | rating | rating Load Factor(LF) [1] | | | Ir | | Inventory rating 46.8 metric ton = | | on = 51.5 to | ons | | | |
| 0.2 km = 0.1 mi Method to determine operating ra | | | g rating | Load Factor(LF) [1] | | | C |)perating | rating | 77.9 metric to | on = 85.7 to | ons | | | | |
| Bridge posting Equal to or above leg | | | al loads [5] | | | | | Design Load MS 18 / HS 20 [5] | | | | | | | | |

| Functional Details | | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Average Daily Traffic 18452 Average daily tr | ruck traffi 4 % Year 2007 Future average daily traffic 26936 Year 2018 | | | | | | | |
| Road classification Minor Arterial (Rural) [06] | Lanes on structure2Approach roadway width11.9 m = 39.0 ft | | | | | | | |
| Type of service on bridge Highway [1] | Direction of traffic 2 - way traffic [2] Bridge median | | | | | | | |
| Parallel structure designation No parallel structure exists. [N] | | | | | | | | |
| Type of service under bridge Lanes under structure O 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 bri | dge Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft | | | | | | | |
| Minimum lateral underclearance reference feature | eature not a highway or railroad [N] | | | | | | | |
| Minimum lateral underclearance on right 5.2 m = 17. | 1 ft 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] | | | | | | | | |
| Bridge deck replacement with only incidental widening. [37] | Bridge improvement cost146000Roadway improvement cost66000 | | | | | | | |
| | Length of structure improvement40.5 m = 132.9 ftTotal project cost773000 | | | | | | | |
| | 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 res | triction [A] | Appraisal ratings - structural | Meets minimum tolerable limits to be left in place as is [4] Equal to present minimum criteria [6] Somewhat better than minimum adequacy to tolerate being left in place as | | | | | | | | |
| Condition ratings - superstructur | Fair [5] | Appraisal ratings - roadway alignment | | | | | | | | | |
| Condition ratings - substructure | Poor [4] | Appraisal ratings - | | | | | | | | | |
| Condition ratings - deck | Poor [4] | deck geometry | is [5] | | | | | | | | |
| Scour | Bridge not over | Bridge not over waterway. [N] | | | | | | | | | |
| Channel and channel protection | Not applicable. | [N] | | | | | | | | | |
| Appraisal ratings - water adequac | y N/A [N] | | Status evaluation Structurally deficient [1] | | | | | | | | |
| Pier or abutment protection | | | Sufficiency rating 66.3 | | | | | | | | |
| Culverts Not applicable. Used i | if structure is not a culv | ert. [N] | | | | | | | | | |
| Traffic safety features - railings | | Inpected feature meets currently acce | e meets currently acceptable standards. [1] | | | | | | | | |
| Traffic safety features - transition | S | Inpected feature meets currently acce | eature meets currently acceptable standards. [1] | | | | | | | | |
| Traffic safety features - approach | nguardrail | Inpected feature meets currently acce | ted feature meets currently acceptable standards. [1] | | | | | | | | |
| Traffic safety features - approach | n guardrail ends | pected feature meets currently acceptable standards. [1] | | | | | | | | | |
| Inspection date July 2011 [07 | 711] Des | signated inspection frequency 6 | Months | | | | | | | | |
| Underwater inspection | Not needed [N] | Underwater inspec | ction date | | | | | | | | |
| Fracture critical inspection | Not needed [N] | Fracture critical ins | spection date | | | | | | | | |
| Other special inspection | Not needed [N] | Other special insp | ection date | | | | | | | | |