

HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportation 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] | Isabella County [073] | Mount Pleasant [56020] | IN MT PLEASANT | 43-36-16 = 43.604444 | 084-46-56 = - 84.782222 |
| 4378 | Highway agency district 4 | Owner City or Municipal Highway Agency [04] | Maintenance responsibility | City or Municipal Highway Agency [04] | |
| Route 2024 | | BROADWAY ST | Toll On free road [3] | Features intersected CHIPPEWA RIVER | |
| Design - main | Concrete [1] | Design - approach | | Kilometerpoint 124.4 km = 77.1 mi | |
| 1 | Arch - Deck [11] | 0 | Other [00] | Year built 1910 | Year reconstructed 1988 |
| | | | | Skew angle 0 | Structure Flared |
| | | | | Historical significance Historical significance is not determinable at this time. [4] | |
| Total length 28.6 m = 93.8 ft | Length of maximum span 26.8 m = 87.9 ft | Deck width, out-to-out 13.3 m = 43.6 ft | Bridge roadway width, curb-to-curb 10.7 m = 35.1 ft | | |
| Inventory Route, Total Horizontal Clearance 10.7 m = 35.1 ft | Curb or sidewalk width - left 0 m = 0.0 ft | Curb or sidewalk width - right 1.7 m = 5.6 ft | | | |
| Deck structure type | Concrete Cast-in-Place [1] | | | | |
| Type of wearing surface | Bituminous [6] | | | | |
| 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 23.6 metric ton = 26.0 tons |
| | Method to determine operating rating | Allowable Stress(AS) [2] | Operating rating 58.2 metric ton = 64.0 tons |
| Bridge posting | Equal to or above legal loads [5] | Design Load | |

Functional Details

| | | | | | | | | | | |
|-------------------------------------------------------------|---------------------------------------|----------------------------|---------------------------------------------------|---------------------------------------|------|------------------------------------------------|------------------------------|-------|------|------|
| Average Daily Traffic | 7029 | Average daily truck traffi | 2 | % | Year | 1998 | Future average daily traffic | 11246 | Year | 2011 |
| Road classification | Collector (Urban) [17] | | Lanes on structure | 2 | | Approach roadway width | 13.4 m = 44.0 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 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 | Feature not a highway or railroad [N] | | | | | | | | | |
| Minimum lateral underclearance on right | 99.9 = Unlimited | | | | | 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

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 | Somewhat better than minimum adequacy to tolerate being left in place as is [5] |
| Condition ratings - superstructure | Satisfactory [6] | 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 | Not Applicable [N] | | |
| Scour | Bridge foundations determined to be stable for assessed or calculated scour condition. [5] | | |
| Channel and channel protection | Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6] | | |
| Appraisal ratings - water adequacy | Meets minimum tolerable limits to be left in place as is [4] | Status evaluation | |
| Pier or abutment protection | | Sufficiency rating | 68 |
| 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 | | | |
| Inspection date | June 2010 [0610] | 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 | |