

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**

|   |                                |                                  |                            |   |   |
|---|--------------------------------|----------------------------------|----------------------------|---|---|
| Michigan [26]                               | Branch County [023]            | Union [81280]                    | SEC. 10-15 UNION TWP.      | 42-02-35 =<br>42.043056   | 085-06-58 = -<br>85.116111                        |
| 12316H00014B010                             | Highway agency district 5      | Owner County Highway Agency [02] | Maintenance responsibility | County Highway Agency [02]  |   |
| Route 0                                     | GOWER ROAD                     | Toll On free road [3]            | Features intersected       | COLDWATER RIVER   |   |
| Design - main<br>1                          | Steel [3]<br>Truss - Thru [10] | Design - approach<br>0           | Other [00]                 | Kilometerpoint<br>31.4 km = 19.5 mi                                 | Year built #Num!<br>Year reconstructed N/A [0000] |
|   |                                |                                  |                            | Skew angle 0  | Structure Flared                                  |
|   |                                |                                  |                            | Historical significance<br>Bridge is not eligible for the NRHP. [5] |   |
| Total length                                | 24.7 m = 81.0 ft               | Length of maximum span           | 23.7 m = 77.8 ft           | Deck width, out-to-out  | 4.1 m = 13.5 ft                                   |
| Inventory Route, Total Horizontal Clearance | 4.1 m = 13.5 ft                | Curb or sidewalk width - left    | 0 m = 0.0 ft               | Curb or sidewalk width - right                                      | 0 m = 0.0 ft                                      |
| Deck structure type                         | Wood or Timber [8]             |                                  |                            |   |   |
| Type of wearing surface                     | Wood or Timber [7]             |                                  |                            |   |   |
| Deck protection                             |                                |                                  |                            |   |   |
| Type of membrane/wearing surface            |                                |                                  |                            |   |   |

**Weight Limits**

|  |                                      |                     |                  |                             |
|--|--------------------------------------|---------------------|------------------|-----------------------------|
| Bypass, detour length<br>0.5 km = 0.3 mi | Method to determine inventory rating | Load Factor(LF) [1] | Inventory rating | 8.5 metric ton = 9.4 tons   |
|  | Method to determine operating rating | Load Factor(LF) [1] | Operating rating | 13.6 metric ton = 15.0 tons |
|  | Bridge posting                       |                     | Design Load      | M 9 / H 10 [1]              |

### Functional Details

|   |                                       |                            |   |                                       |  |                        |                              |     |      |      |
|---|---------------------------------------|----------------------------|---|---------------------------------------|--|------------------------|------------------------------|-----|------|------|
| Average Daily Traffic                                       | 111                                   | Average daily truck traffi | 4   | %                                     | Year                                   | 2004                   | Future average daily traffic | 166 | Year | 2024 |
| Road classification   | Local (Rural) [09]                    |                            | Lanes on structure                                | 2                                     |  | Approach roadway width | 6.1 m = 20.0 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                                | 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                      | Work to be done by contract [1] |                          |                    |   |  |  |  |  |  |
| Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31] | Bridge improvement cost           | 240000                          | Roadway improvement cost | 40000              |   |  |  |  |  |  |
|   | Length of structure improvement   | 30.5 m = 100.1 ft               |                          | 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

Bridge closed to all traffic [K]

Appraisal ratings -  
structural

Condition ratings - superstructure

Critical [2]

Appraisal ratings -  
roadway alignment

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - substructure

Fair [5]

Appraisal ratings -  
deck geometry

Condition ratings - deck

Critical [2]

Scour

Countermeasures have been installed to mitigate an existing problem with scour. [7]

Channel and channel protection

Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

15.9

Culverts

Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings

Traffic safety features - transitions

Traffic safety features - approach guardrail

Traffic safety features - approach guardrail ends

Inspection date

October 2008 [1008]

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