

# HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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

|                                             |                                |                                 |                               |                                                                     |                                                  |
|---------------------------------------------|--------------------------------|---------------------------------|-------------------------------|---------------------------------------------------------------------|--------------------------------------------------|
| Tennessee [47]                              | Haywood County [075]           | Unknown [00000]                 | 1 MI S JCT SR76               | 35-31-20.60 =<br>35.522389                                          | 089-15-13.40<br>= -89.253722                     |
| 38SR0760027                                 | Highway agency district: 4     | Owner State Highway Agency [01] | Maintenance responsibility    | State Highway Agency [01]                                           |                                                  |
| Route 76                                    | FAP 76                         | Toll On free road [3]           | Features intersected          | HATCHIE RIVER                                                       |                                                  |
| Design - main<br>1                          | Steel [3]<br>Truss - Thru [10] | Design - approach<br>9          | Concrete [1]<br>Tee beam [04] | Kilometerpoint<br>1445.2 km = 896.0 mi                              | Year built 1949<br>Year reconstructed N/A [0000] |
|                                             |                                |                                 |                               | Skew angle 0                                                        | Structure Flared                                 |
|                                             |                                |                                 |                               | Historical significance<br>Bridge is not eligible for the NRHP. [5] |                                                  |
| Total length                                | 126.8 m = 416.0 ft             | Length of maximum span          | 30.8 m = 101.1 ft             | Deck width, out-to-out                                              | 9.3 m = 30.5 ft                                  |
| Inventory Route, Total Horizontal Clearance | 7.3 m = 24.0 ft                | Curb or sidewalk width - left   | 0 m = 0.0 ft                  | Curb or sidewalk width - right                                      | 0 m = 0.0 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<br>7.9 km = 4.9 mi | Method to determine inventory rating | Allowable Stress(AS) [2] | Inventory rating  | 22.5 metric ton = 24.8 tons |
|                                          | Method to determine operating rating | Allowable Stress(AS) [2] | Operating rating  | 41.4 metric ton = 45.5 tons |
| Bridge posting                           | Equal to or above legal loads [5]    | Design Load              | M 13.5 / H 15 [2] |                             |

### Functional Details

|                                                             |                                       |                            |                                                   |                                       |      |                                                |                              |      |      |      |
|-------------------------------------------------------------|---------------------------------------|----------------------------|---------------------------------------------------|---------------------------------------|------|------------------------------------------------|------------------------------|------|------|------|
| Average Daily Traffic                                       | 2740                                  | Average daily truck traffi | 15                                                | %                                     | Year | 2012                                           | Future average daily traffic | 4560 | Year | 2033 |
| Road classification                                         | Minor Arterial (Rural) [06]           |                            | Lanes on structure                                | 2                                     |      | Approach roadway width                         | 8.5 m = 27.9 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 | 4.91 m = 16.1 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                                                                                                        | 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           | 3782000                         | Roadway improvement cost                              | 379000  |
|                                                                                                                                     | Length of structure improvement   | 135.1 m = 443.3 ft              | Total project cost                                    | 5674000 |
|                                                                                                                                     | Year of improvement cost estimate | 2013                            |                                                       |         |
|                                                                                                                                     | 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        | Basically intolerable requiring high priority of corrective action [3] |
| Condition ratings - superstructure                | Serious [3]                                                                                                                                                                                           | Appraisal ratings - roadway alignment | Equal to present desirable criteria [8]                                |
| Condition ratings - substructure                  | Satisfactory [6]                                                                                                                                                                                      | Appraisal ratings - deck geometry     | Basically intolerable requiring high priority of replacement [2]       |
| Condition ratings - deck                          | Satisfactory [6]                                                                                                                                                                                      |                                       |                                                                        |
| Scour                                             | Bridge is scour critical; bridge foundations determined to be unstable. [3]                                                                                                                           |                                       |                                                                        |
| 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                | Equal to present minimum criteria [6]                                                                                                                                                                 | Status evaluation                     | Structurally deficient [1]                                             |
| Pier or abutment protection                       |                                                                                                                                                                                                       | Sufficiency rating                    | 11.9                                                                   |
| 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                                   | February 2012 [0212]                                                                                                                                                                                  | Designated inspection frequency       | 24 Months                                                              |
| Underwater inspection                             | Not needed [N]                                                                                                                                                                                        | Underwater inspection date            |                                                                        |
| Fracture critical inspection                      | Every two years [Y24]                                                                                                                                                                                 | Fracture critical inspection date     | February 2012 [0212]                                                   |
| Other special inspection                          | Not needed [N]                                                                                                                                                                                        | Other special inspection date         |                                                                        |