

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]	Midland County [111]	Ingersoll [40620]	0.3 MI N OF RIVER RD	00-00-00 = 0.000000	000-00-00 = 0.000000
56200072000B020	Highway agency district 4	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 0	SMITH S CROSSING	Toll On free road [3]	Features intersected	TITTABAWASSEE RIVER	
Design - main Steel [3]	Design - approach	Kilometerpoint 0 km = 0.0 mi	Year built 1907	Year reconstructed N/A [0000]	
2 Truss - Thru [10]	0 Other [00]	Skew angle 0	Structure Flared	Historical significance Bridge is on the NRHP. [1]	
Total length 92 m = 301.9 ft	Length of maximum span 45.7 m = 149.9 ft	Deck width, out-to-out 4.8 m = 15.7 ft	Bridge roadway width, curb-to-curb 4.7 m = 15.4 ft	Inventory Route, Total Horizontal Clearance 4.7 m = 15.4 ft	
	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 ft	Deck structure type	Corrugated Steel [6]	
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	0 metric ton = 0.0 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	0 metric ton = 0.0 tons
Bridge posting		Design Load	MS 18+Mod / HS 20+Mod [6]	

### Functional Details

Average Daily Traffic	0	Average daily truck traffi	0	%	Year	1993	Future average daily traffic	0	Year	2013
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	9.1 m = 29.9 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	0 = N/A		Navigation horizontal clearance	4.8 m = 15.7 ft						
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft			Minimum vertical clearance over bridge roadway	3.96 m = 13.0 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	1000	Roadway improvement cost	0						
	Length of structure improvement	101.6 m = 333.3 ft		Total project cost	1000					
	Year of improvement cost estimate	1999								
	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 - superstructur

Appraisal ratings -  
roadway alignment

Basically intolerable requiring high priority of replacement [2]

Condition ratings - substructure

Critical [2]

Appraisal ratings -  
deck geometry

Condition ratings - deck

Scour

Scour calculation/evaluation has not been made. [6]

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

Superior to present desirable criteria [9]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Navigation protection not required [1]

Sufficiency rating

17.5

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 2001 [1001]

Designated inspection frequency

24

Months

Underwater inspection

Underwater inspection date

Fracture critical inspection

Unknown [N00]

Fracture critical inspection date

Other special inspection

Unknown [N00]

Other special inspection date