

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

Tennessee [47]	Knox County [093]	Knoxville [40000]	HENLEY ST. / TENN RIVER	35-57-31.92 = 35.958867	083-55-11.58 = -83.919883
47SR0330011	Highway agency district 1	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 441	FAU 33 730514V	Toll On free road [3]	Features intersected TENNESSEE RIVER & 2 RTS		
Design - main Concrete [1]	Design - approach Concrete [1]	Kilometerpoint 1075 km = 666.5 mi	Year built 1930	Year reconstructed N/A [0000]	
6 Arch - Deck [11]	6 Tee beam [04]	Skew angle 0	Structure Flared		
		Historical significance Bridge is on the NRHP. [1]			
Total length 546.6 m = 1793.4 ft	Length of maximum span 96.6 m = 316.9 ft	Deck width, out-to-out 21.5 m = 70.5 ft	Bridge roadway width, curb-to-curb 16.6 m = 54.5 ft		
Inventory Route, Total Horizontal Clearanc 16.6 m = 54.5 ft	Curb or sidewalk width - left 1.8 m = 5.9 ft	Curb or sidewalk width - right 1.8 m = 5.9 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 1.6 km = 1.0 mi	Method to determine inventory rating No rating analysis or evaluation perfor	Inventory rating 0 metric ton = 0.0 tons
	Method to determine operating rating No rating analysis or evaluation perfor	Operating rating 0 metric ton = 0.0 tons
Bridge posting	Design Load M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	42490	Average daily truck traffi	4	%	Year	2012	Future average daily traffic	67360	Year	2033
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	5		Approach roadway width	16.6 m = 54.5 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designatio	No parallel structure exists. [N]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	4		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	12.1 m = 39.7 ft			Navigation horizontal clearance	73.1 m = 239.8 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	1.6 m = 5.2 ft				Minimum lateral underclearance on left	3.8 m = 12.5 ft				
Minimum Vertical Underclearance	6.25 m = 20.5 ft			Minimum vertical underclearance reference feature	Highway beneath structure [H]					
Appraisal ratings - underclearances										

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	49996000	Roadway improvement cost	5000000						
	Length of structure improvement	546.6 m = 1793.4 ft		Total project cost	74995000					
	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

Bridge closed to all traffic [K]

Appraisal ratings -
structural

Condition ratings - superstructure

Poor [4]

Appraisal ratings -
roadway alignment

Equal to present desirable criteria [8]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Condition ratings - deck

Fair [5]

Scour

Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]

Channel and channel protection

Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]

Appraisal ratings - water adequacy

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

None present but re-evaluation suggested [5]

Sufficiency rating

2

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

January 2012 [0112]

Designated inspection frequency

24

Months

Underwater inspection

Unknown [Y60]

Underwater inspection date

October 2007 [1007]

Fracture critical inspection

Not needed [N]

Fracture critical inspection date

Other special inspection

Not needed [N]

Other special inspection date