

HistoricBridges.org - National Bridge Inventory Data Sheet

2017 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

Oregon [41]	Multnomah County [051]	Unknown [00000]	AT INTERSTATE BRIDGE	45-37-04.94 = 45.618039	122-40-30.99 = -122.675275
01377A001 30838	Highway agency district	#Num!	Owner	State Highway Agency [01]	Maintenance responsibility
State Highway Agency [01]					State Highway Agency [01]
Route	5		I-5 (HWY 001) NB	Toll	On free road [3]
Features intersected	COLUMBIA RIVER				
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	49629 km = 30770.0 mi
1	Movable - Lift [15]	16	Truss - Thru [10]	Year built	1916
				Year reconstructed	1958
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]
Total length	1078.4 m = 3538.2 ft	Length of maximum span	85 m = 278.9 ft	Deck width, out-to-out	13.8 m = 45.3 ft
Bridge roadway width, curb-to-curb	11.6 m = 38.1 ft	Inventory Route, Total Horizontal Clearance	11 m = 36.1 ft	Curb or sidewalk width - left	0 m = 0.0 ft
Curb or sidewalk width - right	1.6 m = 5.2 ft	Deck structure type	Concrete Cast-in-Place [1]		
Type of wearing surface	Latex Concrete or similar additive [3]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating	13.6 metric ton = 15.0 tons
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating	22.7 metric ton = 25.0 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	128400	Average daily truck traffi	10	%	Year	2014	Future average daily traffic	165300	Year	2033
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	3		Approach roadway width	12.8 m = 42.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The left structure of parallel bridges. This structure carries traffic in the opposite direction. [L]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	6		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	4.3 m = 14.1 ft		Navigation horizontal clearance	80.2 m = 263.1 ft						
Minimum navigation vertical clearance, vertical lift bridge	42.7 m = 140.1 ft				Minimum vertical clearance over bridge roadway	4.72 m = 15.5 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.9 m = 3.0 ft				Minimum lateral underclearance on left	2.7 m = 8.9 ft				
Minimum Vertical Underclearance	4.44 m = 14.6 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Widening of existing bridge or other major structure without deck rehabilitation or replacement [33]	Bridge improvement cost	16622000	Roadway improvement cost	1662000
	Length of structure improvement	1078 m = 3536.9 ft	Total project cost	26595000
	Year of improvement cost estimate	2011		
	Border bridge - state	Unknown [530]	Border bridge - percent responsibility of other state	50
	Border bridge - structure number	000000PR0000000		

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	18.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	July 2016 [0716]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	September 2015 [0915]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2016 [0716]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

Washington [53]	Clark County [011]	Vancouver [74060]	OREGON LINE	45-37-04.94 = 45.618039	122-40-30.99 = -122.675275
000000PR0000000	Highway agency district	4	Owner	State Highway Agency [01]	Maintenance responsibility State Highway Agency [01]
Route	5	I-5	Toll	On free road [3]	Features intersected COLUMBIA R INTERSTATE
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0.1 km = 0.1 mi
1	Movable - Lift [15]	11	Truss - Thru [10]	Year built	1916
				Year reconstructed	1958
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]
Total length	1078.4 m = 3538.2 ft	Length of maximum span	85 m = 278.9 ft	Deck width, out-to-out	13.8 m = 45.3 ft
				Bridge roadway width, curb-to-curb	11.6 m = 38.1 ft
Inventory Route, Total Horizontal Clearance	11 m = 36.1 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	1.6 m = 5.2 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Latex Concrete or similar additive [3]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating	13.6 metric ton = 15.0 tons
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating	22.7 metric ton = 25.0 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	64286	Average daily truck traffi	15	%	Year	2010	Future average daily traffic	72976	Year	2030
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	3		Approach roadway width	12.8 m = 42.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The right structure of parallel bridges carrying the roadway in the direction of the inventory. [R]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	6		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	41.5 m = 136.2 ft			Navigation horizontal clearance	80.2 m = 263.1 ft					
Minimum navigation vertical clearance, vertical lift bridge	4.3 m = 14.1 ft			Minimum vertical clearance over bridge roadway	4.72 m = 15.5 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.9 m = 3.0 ft				Minimum lateral underclearance on left	2.7 m = 8.9 ft				
Minimum Vertical Underclearance	4.44 m = 14.6 ft			Minimum vertical underclearance reference feature	Highway beneath structure [H]					
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	31134000	Roadway improvement cost	6227000
	Length of structure improvement	1078.4 m = 3538.2 ft	Total project cost	62269000
	Year of improvement cost estimate	2014		
	Border bridge - state	Unknown [410]	Border bridge - percent responsibility of other state	50
	Border bridge - structure number	01377A001 30838		

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	18.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	May 2013 [0513]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	September 2013 [0913]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2012 [0812]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

Oregon [41]	Multnomah County [051]	Unknown [00000]	AT INTERSTATE BRIDGE	45-37-01.06 = 45.616961	122-40-33.96 = -122.676100
07333 001 30838	Highway agency district	#Num!	Owner	State Highway Agency [01]	Maintenance responsibility
State Highway Agency [01]					State Highway Agency [01]
Route	5		I-5 (HWY 001) SB	Toll	On free road [3]
Features intersected	COLUMBIA RIVER				
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	49629 km = 30770.0 mi
1	Movable - Lift [15]	11	Truss - Thru [10]	Year built	1958
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is possibly eligible for the NRHP. [3]
Total length	1078.4 m = 3538.2 ft	Length of maximum span	161.8 m = 530.9 ft	Deck width, out-to-out	15.4 m = 50.5 ft
Bridge roadway width, curb-to-curb	12.2 m = 40.0 ft	Inventory Route, Total Horizontal Clearance	11.7 m = 38.4 ft	Curb or sidewalk width - left	1.7 m = 5.6 ft
Curb or sidewalk width - right	0 m = 0.0 ft	Deck structure type	Concrete Cast-in-Place [1]		
Type of wearing surface	Latex Concrete or similar additive [3]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating	32.7 metric ton = 36.0 tons
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating	54.4 metric ton = 59.8 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	128400	Average daily truck traffi	10	%	Year	2014	Future average daily traffic	165300	Year	2033
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	3		Approach roadway width	12.8 m = 42.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The right structure of parallel bridges carrying the roadway in the direction of the inventory. [R]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	8		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	4.3 m = 14.1 ft		Navigation horizontal clearance	80.2 m = 263.1 ft						
Minimum navigation vertical clearance, vertical lift bridge	42.7 m = 140.1 ft				Minimum vertical clearance over bridge roadway	4.88 m = 16.0 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.9 m = 3.0 ft				Minimum lateral underclearance on left	3.5 m = 11.5 ft				
Minimum Vertical Underclearance	4.42 m = 14.5 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Widening of existing bridge or other major structure without deck rehabilitation or replacement [33]	Bridge improvement cost	18572000	Roadway improvement cost	1857000
	Length of structure improvement	1078 m = 3536.9 ft	Total project cost	29715000
	Year of improvement cost estimate	2011		
	Border bridge - state	Unknown [530]	Border bridge - percent responsibility of other state	50
	Border bridge - structure number	0005216A0000000		

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	Fair [5]	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 corrective action [3]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
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	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	46
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	July 2016 [0716]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	September 2015 [0915]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2016 [0716]
Other special inspection	Not needed [N]	Other special inspection date	

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0005216A0000000	Highway agency district 4	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 5		I-5	Toll On free road [3]	Features intersected COLUMBIA R INTERSTATE	
Design - main 1	Steel [3]	Design - approach 11	Steel [3]	Kilometerpoint 0.1 km = 0.1 mi	
	Movable - Lift [15]		Truss - Thru [10]	Year built 1958	Year reconstructed N/A [0000]
				Skew angle 0	Structure Flared
				Historical significance Bridge is on the NRHP. [1]	
Total length 1078.4 m = 3538.2 ft	Length of maximum span 161.8 m = 530.9 ft	Deck width, out-to-out 15.4 m = 50.5 ft	Bridge roadway width, curb-to-curb 12.2 m = 40.0 ft		
Inventory Route, Total Horizontal Clearance 11.7 m = 38.4 ft	Curb or sidewalk width - left 1.7 m = 5.6 ft	Curb or sidewalk width - right 0 m = 0.0 ft			
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Latex Concrete or similar additive [3]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating 32.7 metric ton = 36.0 tons
	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating 54.4 metric ton = 59.8 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	64286	Average daily truck traffi	15	%	Year	2010	Future average daily traffic	72976	Year	2030
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	3		Approach roadway width	12.8 m = 42.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The left structure of parallel bridges. This structure carries traffic in the opposite direction. [L]									
Type of service under bridge	Highway-waterway [6]		Lanes under structure	8		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	41.5 m = 136.2 ft		Navigation horizontal clearance	80.2 m = 263.1 ft						
Minimum navigation vertical clearance, vertical lift bridge	4.3 m = 14.1 ft				Minimum vertical clearance over bridge roadway	4.88 m = 16.0 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.9 m = 3.0 ft				Minimum lateral underclearance on left	3.5 m = 11.5 ft				
Minimum Vertical Underclearance	4.42 m = 14.5 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	31134000	Roadway improvement cost	6227000
	Length of structure improvement	1078.4 m = 3538.2 ft	Total project cost	62269000
	Year of improvement cost estimate	2014		
	Border bridge - state	Unknown [410]	Border bridge - percent responsibility of other state	50
	Border bridge - structure number	07333 001 30838		

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	Fair [5]	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 corrective action [3]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
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	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	49
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	May 2013 [0513]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	September 2013 [0913]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2012 [0712]
Other special inspection	Not needed [N]	Other special inspection date	