

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**

Ohio [39]	Ashtabula County [007]	Ashtabula [02638]	0.85 MI W OF SR 11	41-54-00 = 41.900000	080-47-51 = - 80.797500
406635	Highway agency district 4	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 531	SR 531	Toll On free road [3]	Features intersected	ASHTABULA RIVER	
Design - main Steel [3]	Design - approach	Kilometerpoint 1476 km = 915.1 mi	Year built 1925	Year reconstructed 2008	
3	Movable - Bascule [16]	0 Other [00]	Skew angle 0	Structure Flared	
			Historical significance	Bridge is on the NRHP. [1]	
Total length 68 m = 223.1 ft	Length of maximum span 48.8 m = 160.1 ft	Deck width, out-to-out 7.3 m = 24.0 ft	Bridge roadway width, curb-to-curb 6.1 m = 20.0 ft		
Inventory Route, Total Horizontal Clearance 6.1 m = 20.0 ft	Curb or sidewalk width - left 1.5 m = 4.9 ft	Curb or sidewalk width - right 1.5 m = 4.9 ft			
Deck structure type	Closed Grating [4]				
Type of wearing surface	Other [9]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface	Epoxy [3]				

**Weight Limits**

Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	20.7 metric ton = 22.8 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	32.4 metric ton = 35.6 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

### Functional Details

Average Daily Traffic  Average daily truck traffi  % Year  Future average daily traffic  Year

Road classification  Lanes on structure  Approach roadway width

Type of service on bridge  Direction of traffic  Bridge median

Parallel structure designation

Type of service under bridge  Lanes under structure  Navigation control

Navigation vertical clearanc  Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right  Minimum lateral underclearance on left

Minimum Vertical Underclearance  Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost  Roadway improvement cost

Length of structure improvement  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	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Very Good [8]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Very Good [8]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Very Good [8]		
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 minimum criteria [6]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	58.3
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	June 2010 [0610]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	November 2010 [1110]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	April 2008 [0408]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**  
Structure File Number **0406635**  
Sufficiency Rating: **58.3**

**Bridge Inventory Information**  
Inventory Bridge Number: **ATB 00531 0917**  
**ON ASHTABULA RIVER**

Report Date **05/23/2013** BM-191 Page: 1 of 2  
BR. Type **STEEL / TRUSS / MOVABLE - BASC**  
Date of Last Inventory Update: **01/02/2013**

District: **04** County **ASHTABULA** (101) Location: **0.85 MI W OF SR 11** (102) Facility Carried: **SR 531**  
(2) FIPS Code: **ASHTABULA** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **NON-HIGHWAY**  
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**  
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

**Inventory Route Data**  
(3) Route On/Under: **ON** Hwy Sys: **STATE HIGHWAY** (63) Main Spans Number: **3** Type: **STEEL / TRUSS / MOVABLE - BASC**  
Route No.: **00531** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**  
Total Spans: **3** (65) Max Span: **160 Ft** (66) Overall Leng: **223 Ft**

(4) Feature Intersected: **ASHTABULA RIVER** (70) Substructure (71) Foundation and Scour Information  
(5) County: **ATB** Mileage: **0917** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **DRILLED SHAFTS**  
(6) Avg. Daily Traffic(ADT): **7,020** (7) ADT Year: **2009** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
(8) Truck Traf: **270** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **OTHER** Fnd: **ROCK**  
(16) Functional Class: **MINOR ARTERIAL-URBAN** (19) Strahnt: **Not Applicable** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**  
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**

**Intersected Route Data**  
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **02** Other: **NN** Other: **NN**  
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**  
(23) Feature Intersected: (189) Dive: **Y Freq: 60** Probe: **Y Freq: 12** (75) Chan Prot: **NONE**  
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: **11/11/2010** (152) Drainage Area: **UUU Sq Mi**  
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:  
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:  
(30) Functional Class: (36) Strahnt: **Not Applicable**

**Clearance On the Bridge**  
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **20.0 Ft**  
(155) Prac Max Vert On Brg: **13.8 Ft**  
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **13.8 Ft**  
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**  
(81) Vrt Clr Lft: **0.0 Ft**  
(156) Min. Horiz Under Clear: NC: **0.0 Ft** Card: **0.0 Ft**  
(157) Prac Max Vrt Under Clear: **14.2 Ft**  
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **14.2 Ft**  
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**

**Clearance Under the Bridge**  
(156) Min. Horiz Under Clear: NC: **0.0 Ft** Card: **0.0 Ft**  
(157) Prac Max Vrt Under Clear: **14.2 Ft**  
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **14.2 Ft**  
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**

**Load Rating Information (88-89) Appraisal**  
(48) Design Load: **HS/20** (Including calculated Items)  
(83) Operating: **36 Ton**  
Inventory: **23 Ton**  
Ohio Percent of Legal Load **120** (88) Waterway Adequacy **6**  
Year of Rating: **2010** (89) Approach Alignment **6**  
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **5**  
(85) Rate Soft: **IN-HOUSE PROGRAM** Analyzed by: **KAK** Calc Deck Geometry: **2**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

**Structure Information**  
(38) Bypass Length: **02 Miles**  
(39) Latitude: **41 Deg 54.0 Min** Longitude: **80 Deg 47.9 Min**  
(40) Toll: **ON FREE ROAD**  
(41) Date Built: **07/01/1925** (42) Major Rehabilitation: **07/01/2008**  
(43) No. Lanes On: **2** No. Lanes Under: **0**  
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0 Deg**  
(49) App. Rdw Width: **20 Ft** (50) Brg. Rdw Width: **20.0 Ft**  
(51) Deck Width: **24.0 Ft** Deck Area: **5350 Sq. Ft**

**Approach Information**  
(52) Median Type: **NONE / NON BARRIE / NO JOINT**  
(53) Bridge Median: **NO MEDIAN**  
(54) Sidewalks: (left) **5 Ft** (right) **5 Ft**  
(109) Approach Guardrail: **STEEL BEAM**  
(110) Approach Pavement: **CONCRETE** (111) Grade: **GOOD**

**Culvert Information**  
(55) Type Curb or Sidewalks: (Left) Matl: **STEEL** Type: **SIDEWALK(>2')** (121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**  
(Right) Matl: **STEEL** Type: **SIDEWALK(>2')**  
(56) Flared: **N** (57) Composite: **composite**  
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**  
(124) Bearing Devices: **SLIDING (BRONZE)/NONE**

**General Information**  
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)** (126) Navigation: **Control- Y** Vert Clr: **7.0 Ft** Horiz Clear: **125.0 Ft**  
(59) Deck Drainage: **OPENING THRU CURBS OR WHEEL GRDS** (193) Spec Insp: **N** Freq: **0** Date:   
(60) Deck Type: **STEEL GRID - FILLED** (188) Fracture Critical Insp: **Y** Freq: **24** Date: **2012-05-23**  
(61) Deck Protection: External: **EPOXY** (138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**  
Internal: **EPOXY COATED REINFORCING (BOTH** (141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**  
Railing: **UNKNOWN**  
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY** Paint: **PAINT SYSTEM OZEU**  
Thickness: **1.0 in** (119) Date of Wearing Surface: **07/01/2008**  
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Pay Wt: **0 pounds** Prime Loc: **FIELD**  
Bridge Dedicated Name:

Unit of Measure: **English**  
 Structure File Number **0406635**  
 Sufficiency Rating: **58.3**

**Bridge Inventory Information**  
 Inventory Bridge Number: **ATB 00531 0917**  
**ON ASHTABULA RIVER**

Report Date **05/23/2013** BM-191 Page: 2 of 2  
 BR. Type **STEEL/TRUSS/MOVABLE - BASCULE**  
 Date of Last Inventory Update: **01/02/2013**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NATIONAL HISTORIC REGISTER</b>		(69) NBIS: <b>Y</b>		(142) Fabricator:			
(---) Hist Builder: <b>FORT PITT BRIDGE COMPANY</b>		Hist Build Year: <b>1925</b>		(143) Contractor:			
(69) Hist Type: <b>BROWN - HEEL TRUNNION</b>				(144) Ohio Original Construction Project No.:			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: <b>Y</b> Repair: <b>Y</b> Fabr: <b>Y</b>			
(90) Type Work: -		PID Number: <b>2841</b>		Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b>			
(90) Length: Ft		PID Status: <b>PROGRAM</b>		(153) Repair Projects			
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date: <b>07/09/1985</b>		1. <b>850691 / 044</b>		2. / <b>MMM</b>	
(90) Roadway Cost (\$1000s): <b>0</b>				4. <b>920853 / 041</b>		5. /	
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2032</b>		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>7</b>	Railings: <b>1 MEETS CURRENT STANDARDS</b>	(46) Electric: <b>N</b>	(161) Lighting: <b>N</b>				
(I-32) Superstructure: <b>7</b>	Transitions: <b>1 MEETS CURRENT STANDARDS</b>	Gas: <b>N</b>	Fencing: <b>N</b>				
(I-42) Substructure: <b>7</b>	Guardrail: <b>1 MEETS CURRENT STANDARDS</b>	Sanitary Sewer: <b>N</b>	Glare-Screen: <b>N</b>				
(I-50) Culvert:	Rail Ends: <b>1 MEETS CURRENT STANDARDS</b>	Telephone: <b>N</b>	Splash-Guard: <b>N</b>				
(I-54) Channel: <b>8</b>	In Depth: <b>1 MEETS CURRENT STANDARDS</b>	TV Cable: <b>N</b>	Catwalks: <b>N</b>				
(I-60) Approaches: <b>7</b>	Fracture Critical: <b>1 MEETS CURRENT STANDARDS</b>	Water: <b>N</b>	Other-Feat: <b>N</b>				
(I-66) General Appraisal: <b>7</b>	Scour Critical: <b>1 MEETS CURRENT STANDARDS</b>	Other: <b>N</b>	(184) Signs-on: <b>N</b>				
(I-66) Operational Status: <b>A</b>	Critical Findings: <b>1 MEETS CURRENT STANDARDS</b>		Signs-Under: <b>N</b>				
Inspection Date: <b>05/23/2012</b>	Insp. Update Date: <b>01/02/2013</b>		(162) Fence-Ht: <b>0.0 Ft</b>				
(94) Desig Insp Freq: <b>12 Months</b>			(163) Noise Barr: <b>N</b>				
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: <b>ATB-00531-0917 -</b>			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: <b>---</b>			
This bridge was retired and copied to:							
The bridge was copied from:							

**PONTIS CoRe elements and Condition States**

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
29	STEEL DECK - CONCRETE FILLED GRID	1	EA	0	0	0	0	0
215	REINFORCED CONC ABUTMENT	48	LF	0	0	0	0	0
304	OPEN EXPANSION JOINT	48	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
330	METAL BRIDGE RAILING	444	LF	0	0	0	0	0

(\*) Percentages Should add to 100%

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0	4	0	6	6	3	5
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Bridge Number **ATB 00531 0917**  
CO ROUTE UNIT

ASHTABULA

Date Built **07/01/1925 - 2008**

1 Structure File Number 7

District **04** Bridge Type **STEEL/TRUSS/MOVABLE - BASC**

Type Service **1 15 ASHTABULA RIVER**

**ATB**

<b>DECK</b>		Out/Out 24.0	1	THCK = 1.0		2
1. Floor	4-STEEL GRID - FILLED	8	1	2. Wearing Surface	C-MICROSILICA MODIFIED C	41
		2-STEEL	1	W.S. Date = 07/01/2008		
3. Curbs, Sidewalks, Walkways	2-STEEL	9	1	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	1	6. Drainage	2-OPENING THRU CURBS OR	43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	1	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=160	1			
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=223	1			
11. Diaphragms or Crossframes		13	1	12. Joists/Stringers		46
13. Floor Beams		14	1	14. Floor Beam Connections		47
15. Verticals		15	1	16. Diagonals		48
17. End Posts		16	2	18. Top Chord		49
19. Lower Chord		17	1	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18	1	22. Sway Bracing		51
23. Portals		19	1	24. Bearing Devices	3-SLIDING (BRONZE) N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 5-PAINT SYSTEM OZEU DATE = 07/01/2008	54
29. Pins/Hangers/Hinges		22	1	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		2-CONCRETE	2	PIERS=2 SPANS = 3		2
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=NONE/NO / DRILLED	59
39. Fenders and Dolphins		27	1	40. Scour	8-STABLE: EVAL SCOUR ABO	60
41. Slope Protection	N-NONE	28		<b>42. Summary</b>		62
				DIVE DT=11/11/2010		
<b>CULVERTS</b>						
43. General		29		44. Alignment		63
45. Shape		30		46. Seams		64
47. Headwalls or Endwalls		31		48. Scour		65
49.		32		50. Summary		66
<b>CHANNEL</b>				N-NONE		1
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement	1-CONCRETE	35	1	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=20.0	37	2	<b>60. Summary</b>		71
				PCT.LEGAL=120		
<b>GENERAL</b>				ROUTINE.RESP: 4-CITY/LOCAL		1
61. Navigation Lights		38	1	62. Warning Signs	MAINT.RESP: 1-OHIO TRAN DEPT	72
63. Sign Supports	MVC ON=13.8 UND=0000	39	1	64. Utilities		73
65. Vertical Clearance		40	N	<b>66. General Appraisal &amp; Operational Status</b>		74
				COND 7		A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

R	F
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78 INITIALS

SIGNED

	5	8	9	1	4
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81 PE

J	N
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83 INITIALS

DOT 2852

DECK AREA 5,350

Date

0	5	2	3	1	2
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86

91

1	1	1	1	1	1	1	1
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92

69 Survey

99

Date

1	2	2	8	1	2
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100

105

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0	4	0	6	6	3	5
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1 Structure File Number 7

Bridge Number **ATB** **00531** **0917**  
CO ROUTE UNIT

**Date Built 07/01/1925 - 2008**

District **04** Bridge Type **STEEL/TRUSS/MOVABLE - BASC**

Type Service **1 15**

**ASHTABULA RIVER**

General CHECK PICTURE FOLDERS ON H:/ DRIVE FOR MORE INFORMATION.

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