HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion 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]	Columbiana County [029]	Unity [78890]	0.5 MI N C437	40-52-30 = 40.875000	080-31-12 = -80.520000

1537911	Highway agency district 11	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!		STATE LINE RD 945	Toll	On free road [3]

Features intersected: NO NAME

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Truss - Thru [10]	0	Other [00]	Year built	1914
				Year reconstructed	1970
				Skew angle	0
				Structure Flared	

Historical significance: Bridge is not eligible for the NRHP. [5]

Total length	15.2 m = 49.9 ft	Length of maximum span	14.6 m = 47.9 ft	Deck width, out-to-out	4.9 m = 16.1 ft	Bridge roadway width, curb-to-curb	4.1 m = 13.5 ft
Inventory Route, Total Horizontal Clearance	4.1 m = 13.5 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Open Grating [3]
Type of wearing surface	Other [9]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	29.8 metric ton = 32.8 tons	
0.3 km = 0.2 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	40.5 metric ton = 44.6 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load		

Functional Details

Average Daily Traffic	100	Average daily truck traffi	0 %	Year	1951	Future average daily traffic	139	Year	2032

Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	6.1 m = 20.0 ft
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	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	99.99 m = 328.1 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

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 - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Good [7]		

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	Better than present minimum criteria [7]	Status evaluation	
Pier or abutment protection		Sufficiency rating	66.6

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

Inspection date	August 2010 [0810]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2010 [0810]
Other special inspection	Not needed [N]	Other special inspection date	

District: **11** County **COLUMBIANA**
(101) Location: **0.5 MI N C437** (102) Facility Carried: **STATE LINE RD 945**
(2)FIPS Code: **UNITY TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **ONE LANE FOR 2-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **N** (12)Parallel: **N**
(95) Insp: **COUNTY** (96) Maint: **COUNTY** (97) Routine: **COUNTY** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**
Route No.: **T0945** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **NO NAME**
(5) County: **UNI** Mileage: **0052** Special Desig: **12**
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1951**
(8) Truck Traf: **0** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

Intersected Route Data

(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(23) Feature Intersected:
(24) County: Mileage: Special Desig:
(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: **13.6** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **9999.9** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **02** Miles
(39) Latitude: **40 Deg 52.5 Min** Longitude: **80 Deg 31.2 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1914** (42) Major Rehabilitation: **01/01/1970**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **20** Ft (50) Brg. Rdw Width: **13.6** Ft
(51) Deck Width: **16.0** Ft Deck Area: **797** Sq. Ft
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OVER THE SIDE (WITH DRIP STRIP)**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **OTHER**
Thickness: **0.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **1** Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **1** (65) Max Span: **48** Ft (66) Overall Leng: **50** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **SOLID WALL**	Fnd: **OTHER**
Abut-Fwd Matl: **CONCRETE**	Type: **SOLID WALL**	Fnd: **OTHER**
Pier-Pred Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
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)**
No of Piers Predominate: **NN**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(189) Dive: **N Freq: 0** Probe: **Y** Freq: **12** (75) Chan Prot: **NONE**
(189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

Clearance Under the Bridge

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

Load Rating Information

(48) Design Load: **UNKNOWN [DEFAULT]**
(83) Operating: **45** Ton
Inventory: **33** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **2008**
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS**
(85) Rate Soft: **COMBINATION** Analyzed by: **RAH**
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **7**
(89) Approach Alignment **8**
Calc Gen Appraisal: **5**
Calc Deck Geometry: **5**
Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **NONE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

Culvert Information

(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information

(121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **OTHER/NONE**
(126) Navigation: **Control- N** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2012-08-15**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS AND HANGERS**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **OTHER**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **CENTRAL CONSTRUCTION CO** Hist Build Year: **1914**
(69) Hist Type: **PRATT (PINNED)**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2032**

Programming Info

PID Number:
PID Status:
PID Date:

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
Plan Information Available: **2FIELD MEASURED INFORMATION**

(153) Repair Projects

1. **/ MMM**	2. **000000 / 020**	3.
4.	5.	6.
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**7**
(I-32) Superstructure:	**5**
(I-42) Substructure:	**5**
(I-50) Culvert:	
(I-54) Channel:	**8**
(I-60) Approaches:	**6**
(I-66) General Appraisial:	**5**
(I-66) Operational Status:	**A**
Inspection Date:	**08/15/2012**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**N NONE N/A**
Guardrail:	**N NONE N/A**
Rail Ends:	**N NONE N/A**
In Depth:	**1 MEETS CURRENT STANDARDS**
Fracture Critical:	**0 DOES NOT MEET CURRENT STANDARDS**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**11/20/2012**

Utilities

(46) Electric:	**N**
Gas:	**N**
Sanitary Sewer:	**N**
Telephone:	**N**
TV Cable:	**N**
Water:	**N**
Other:	**N**

Special Features

(161) Lighting:	**N**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**N**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **COL-T0945-0052 -12**
INT Field Bridge Marker: **---**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 5 3 7 9 1 1
1 Structure File Number 7

Bridge Number **COL** (CO) **T0945** (ROUTE) **0052** (UNIT) **12** **UNITY TWP**

Date Built 07/01/1914 - 1970

District **11** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1** **15 NO NAME** **COL**

DECK Out/Out 16.0				THCK = 0.0	
1. Floor — 5-STEEL GRID - OPEN 8	1		2. Wearing Surface — 0-OTHER 41		1
N-NONE				W.S. Date =	
3. Curbs, Sidewalks, Walkways — N-NONE 9			4. Median 42		
5. Railing — 7-STL GUARDRL ON STL, CO 10	1		6. Drainage — 6-OVER THE SIDE (WITH DR 43		1
7. Expansion Joints — N-NONE 11			**8. Summary** 44		7
SUPERSTRUCTURE MAX.SPAN=48					
9. Alignment 12	1		10. Beams/Girders/Slab — N-N/A (CULVERTS, TRUSSES 45		
TOT.LGTH=50					
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		2
13. Floor Beams 14	1		14. Floor Beam Connections 47		2
15. Verticals 15	1		16. Diagonals 48		2
17. End Posts 16	2		18. Top Chord 49		1
19. Lower Chord 17	2		20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
			0-OTHER		
23. Portals 19			24. Bearing Devices — N-NONE 52		2
25. Arch 20			26. Arch Columns or Hangers 53		1
			TYPE = 0-OTHER		
27. Spandrel Walls 21			28. Protective Coating System — DATE = 08/10/1980 54		5
29. Pins/Hangers/Hinges 22	2		30. Fatigue Prone Connections 55		
31. Live Load Response 23	S		**32. Summary** 56		5
SUBSTRUCTURE 2-CONCRETE			PIERS=0	SPANS = 1	
33. Abutments — 2-CONCRETE 24	2		34. Abutment Seats 57		2
35. Piers — TYPE = N-NONE 25			36. Pier Seats 58		
			ABUTMENT:=OTHER / OTHER		
37. Backwalls 26	2		38. Wingwalls 59		2
39. Fenders and Dolphins 27			40. Scour — 8-STABLE: EVAL SCOUR ABO 60	1	1
41. Slope Protection — N-NONE 28			**42. Summary** — DIVE DT=N/A 62		5
CULVERTS					
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		
CHANNEL					
51. Alignment 33	1		52. Protection — N-NONE 67		
53. Waterway Adequacy 34	1		**54. Summary** 68		8
APPROACHES					
55. Pavement — 2-BITUMINOUS 35	2		56. Approach Slabs 69		
57. Guardrail — N-NONE 36			58. Relief Joints 70		
59. Embankment — BRDG.WIDTH=13.6 37	1		**60. Summary** — PCT.LEGAL=150 71		6
GENERAL			ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights 38			62. Warning Signs — MAINT.RESP: 3-COUNTY 72		1
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	N		**66. General Appraisal & Operational Status** 74	COND 5	STAT A

67. INSPECTED BY — 68. REVIEWED BY

SIGNED — 76 PE — T A H 78 INITIALS — SIGNED — 6 5 5 7 8 81 PE — T A G 83 INITIALS

DOT 2852

DECK AREA 797

Date 0 8 1 5 1 2 (86–91)

1 N N N 1 0 N N (92 — 69 Survey — 99)

Date 0 9 1 5 1 2 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	5	3	7	9	1	1

1 Structure File Number 7

Bridge Number **COL** (CO) **T0945** (ROUTE) **0052** (UNIT) **12**

Date Built 07/01/1914 - 1970

District **11** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1** **1** **5**

NO NAME

00	NO REMARKS FOUND FOR THIS INSPECTION.