HistoricBridges.org - National Bridge Inventory Data Sheet

2014 Inventor

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]	Franklin [28238]	0.5 MI W T731	40-42-48.00 = 40.713333	080-54-30.00 = -80.908333

1536915	Highway agency district	11	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route	#Num!		WILLARD RD 843	Toll	On free road [3]	Features intersected	PENN RR

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi		
1	Truss - Deck [09]	0	Other [00]	Year built	1930	Year reconstructed	2012
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]		

Total length	45.1 m = 148.0 ft	Length of maximum span	42.7 m = 140.1 ft	Deck width, out-to-out	8.3 m = 27.2 ft	Bridge roadway width, curb-to-curb	7.3 m = 24.0 ft
Inventory Route, Total Horizontal Clearance	7.3 m = 24.0 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Bituminous [6]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length					
0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	26.6 metric ton = 29.3 tons	
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	81 metric ton = 89.1 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load		

Functional Details

Average Daily Traffic	200	Average daily truck traffi	0 %	Year	1951	Future average daily traffic	278
Year	2033						
Road classification	Local (Rural) [09]	Lanes on structure	2	Approach roadway width	9.8 m = 32.2 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designatio	No parallel structure exists. [N]						
Type of service under bridge	Railroad [2]	Lanes under structure	0	Navigation control	Not applicable, no waterway. [N]		
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	Railroad beneath structure [R]						
Minimum lateral underclearance on right	9.1 m = 29.9 ft	Minimum lateral underclearance on left	9.1 m = 29.9 ft				
Minimum Vertical Underclearance	13.41 m = 44.0 ft	Minimum vertical underclearance reference feature	Railroad beneath structure [R]				
Appraisal ratings - underclearances	Superior to present desirable criteria [9]						

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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Good [7]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Excellent [9]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	
Pier or abutment protection		Sufficiency rating	82.9
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	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]		
Inspection date	August 2013 [0813]	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 2013 [0813]
Other special inspection	Not needed [N]	Other special inspection date	

(203) Bridge (Dedicated) Name:

BRIDGE INVENTORY AND APPRAISAL

Report Date: 7/11/2018

Structure File Number: 1536915

Inventory Bridge Number: COL T0843 01270 10

Sufficiency Rating: 078.4 Deficiency Rating:

PENN RR

Bridge Status: Active

(2) District: 11
(3) County: 15-COLUMBIANA
(9) Location: 0.5 Mi W T731
(7) Facility Carried: Willard Rd 843
(4) FIPS Code: COL-T-28238-FRANKLIN TWP
Owner: COUNTY
(208) Route On Bridge: Township
(207) Route Under Bridge: Non Highway Traffic On Bridge (I.E.
(102) Direction of Traffic: 2 - 2-Way Traffic
(103) Temporary Structure:
(110) Designated National Network: Not National Network
(101) Parallel: N
(42A) Type Serv: (On): Highway
(42B) Type Serv (Under): Railroad

INVENTORY ROUTE DATA

(5A) Route On/Under: 1 - Route Carried "On" The Structure
(5B) Hwy Sys: 4 - County Highway (Township Highway)
(5D) Route No: T0843 (5E) Dir: Not Applic (5C) Des: Mainline
(6) Feature Int: Penn Rr
(200) CL: 01270 (201)Spec Des:10 (209) Interstate Mile:
(29) Avg. Daily Traffic(ADT): 324 (30) ADT Year: 2015
(235) Truck Traf: 24 (210) Corridor: N (104) NHS: non-nhs bridge - 0
(26) Functional Class: rural - local (100) Strahnt: Not Strahnet

INTERSECTED ROUTE DATA

(370A) Record Type: (370B) Hwy Sys:
(370D) Route No: (370E) Dir: (370C) Des:
(373) Feature Int:
(382) CL: 0000 (371) Interstate Mile: (387) Special Desig:
(379) Avg. Daily Traffic(ADT): (380) ADT Year:
(381) Truck Traf: (384) Corridor: (378) NHS: Non-Nhs Bridge - 0
(375) Functional Class: (386) Strahnt:

CLEARANCE ON THE BRIDGE

Min. Hriz on Bridge: (335) NC: 0.0 Ft (47) Card: 24.0 Ft
(53) Prac Max Vert On Brg: 9999.9 Ft
Min Vrt Clr On Brg: (336) NC: 0.0 Ft (10) Card: 9999.9 Ft
Min Latl Clr: (338) Right NC: 0.0 Ft (337) Right Card: 0.0 Ft
(340) Left NC: 0.0 Ft (339) Left Card: 0.0 Ft

(45) Main Spans Number: 1 (43) Type: Steel/Truss/Deck
(46) Approach Spans Nbr: 0 (44) Type: None/None/None
(307) Total Spans: 1 (48) Max Span: 140.0 Ft (49) Overall Leng: 148.0 Ft

SUBSTRUCTURE

Abut-Rear (532) Matl: Concrete (531) Type: Solid Wall (533) Fnd: Other
Abut-Fwd (527) Matl: Concrete (526) Type: Solid Wall (528) Fnd: Other
Pier-Pred (535) Matl: None (534) Type: None (536) Fnd: None (Such As Most Culverts)
(663) Stream Velocity: 00000 fps (113) Scour: Bridge Not Over Waterway.
(92B) Underwater Inspection: N Freq: 0 (655) Chan Prot: Not Applicable
(93B) Date of last Underwater Insp: (657) Drainage Area: 000 Sq Mi

CLEARANCE UNDER THE BRIDGE

Min. Horiz Under Clear: (326) NC: 0.0 Ft (325) Card: 0.0 Ft
(328) Prac Max Vrt Under Clear: 44.0 Ft
Min Vert Under Clear: (327) NC: 0.0 Ft (54) Card: 44.0 Ft
Min Lat Under Clear: (329) Right NC: 0.0 Ft (55) Right Card: 30.0 Ft
(330) Left NC: 0.0 Ft (56) Left Card: 30.0 Ft

STRUCTURE INFORMATION

(19) Bypass Length: 2.0 Miles
(16) Latitude: 40 Deg 42 Min 45.06 Sec (17) Longitude: 80 Deg 54 Min 29.39 Sec
(20) Toll: On Free Road, The Structure Is Toll Free
(263) Date Built: 7/1/1890 (264) Major Reconstruction Date: 12/12/2012
(28A) No. Lanes On: 2 (28B)No. Lanes Under: 0
(301) Horiz Curve: (34) Skew: 0 Deg
(32) App. Rdw Width: 32 Ft (51) Brg. Rdw Width: 24.0 Ft
(52) Deck Width: 27.3 Ft (424) Deck Area: 4033 Sq. Ft
(406) Median Type: /Non Barrier/No Joint
(33) Bridge Median: No Median
Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft
Type Curb or Sidewalk:
(427) Left Matl: None (428) Type: None Or N/A (Rr, Pedestrian, Etc.)
(429) Right Matl: None (430) Type: None Or N/A (Rr, Pedestrian, Etc.)
(35) Flared: 0 (408) Composite: N - Non-Composite
(407) Railing: Reinforced Concrete Parapet
(409) Deck Drainage: Other (Natural-Off The Bridge Ends)

LOAD RATING INFORMATION

(31) Design Load: UNKNOWN
(64) Opr Rat Fact/Ton: 2.500
(66) Inv Rat Fact/Ton: 0.820
(734) Ohio Percent of Legal Load: 150
(704) Year of Rating: 2010 (708) Rate Soft: Combination
(63) Opr Rat Method: Load Factor Rating (Lfr) Reported By Rf
(65) Inv Rat Method: Load Factor Rating (Lfr) Reported By Rf
Load Rater: (705) Melinda (706) Chase (707) PE#: 71772

APPRAISAL

(71) Waterway Adequacy: N Not Applicable
(72) Approach Alignment: 4 Meets minimum tolerable limits
(67) Calc Str Appraisal: 6 - Equal to present minimum criteria
(68) Calc Deck Geometry: 5 - Somewhat better than minimum adequ
(69) Calc Underclearance: 9 - Superior to present desirable criteria

APPROACH INFORMATION

(401) Approach Guardrail: Steel Beam
(403) Approach Pavement: Concrete (402) Grade: Good

CULVERT INFORMATION

(575) Culvert Type: Not A Culvert Or Rigid Frame (578) Length: 0.0 Ft
(580) Depth of Fill: 0.0 Ft (582) Headwalls: None Or Not Applicable (Not A Culvert)

GENERAL INFORMATION

(475) Main Member: Riveted Built-Up Steel (477) Moment Plate: No Moment Plates
(414) Expansion Joint: None
(453) Bearing Devices: Other
(38) Navigation: N (39) Nav Vert Clr: 0.0 Ft (40) Nav Horiz Clear: 0.0 Ft

(107) Deck Type: Reinforced Concrete
Deck Protection: (108B) External: Not Applicable (Only For Bridges For No
(108C) Internal: Epoxy Coated Reinforcing
(108A) Wearing Surface: Integral Concrete (Monolithic) - Not An
(423) Thickness: 2.0 in (422) Date of Wearing Surface: 6/6/2016
(547) Slope Protection: None

(92C) Spec Insp: N Freq: 0
(92A) Fracture Critical Insp: Y Freq: 24
(474) Main Structure System: Two Trusses (Riveted)
(487) Structural Steel Memb: Unknown
(482) Paint: Other Paint
(483) PCS Date: 1/1/1951

(93C) Special Inspection Date:
(93A) Fracture Critical Feature Inspection Date: 7/25/2016
(468) Hinges: Not Applicable (Structures With No Hinge
(465) Framing: Straight Beams/Girders
(426) Bridge Railing Steel: U

GENERAL INFORMATION (CONTINUED)

(37) Hist Significance: Eligible For National Register Of Histor
(112) NBIS: Y
(842) Hist/Designer: Pennsylvania Rr
(827) Hist Build Year: 1890
(828) Hist Type: Pratt (Pinned)
(98A) Border Bridge State:
(98B) Border Bridge Resp:
(99) Border Bridge SFN:

PROPOSED IMPROVEMENTS

(114) Future ADT (On Bridge): 450 (115) Year of Future ADT: 2038

ORIGINAL PLANS INFORMATION

(250) Fabricator:
(249) Contractor:
(248) Ohio Original Construction Project No:
(252) Microfilm Reel:
(251) Standard Drawing:
Aperture Cards:
(246) Orig: N
(247) Repair: N
(245) Fabr: N
(709) Rating Source: 2 Field Measured Information For Load Rat

INSPECTION SUMMARY

(58) Deck: 9
(59) Superstructure: 7
(60) Substructure: 6
(62) Culvert: N
(61) Channel: N
(C6) Approaches: 8
General Appraisal: 6
(41) Operational Status: A
(90) Inspection date: 8/25/2017
(91) Desig Insp Freq: 12 Mos

SURVEY ITEMS

(36A) Railings: Meets Acceptable Standards
(36B) Transitions: Meets Acceptable Standards
(36C) Guardrail: Meets Acceptable Standards
(36D) Guardrail Ends: Meets Acceptable Standards
(219) Temporary Barrier: N
(223) Temporary Shoring: N
(224) Temporary Sub Decking: N

(253) SFNs Replacing this retired bridge:
(255) SFNs That were replaced by this bridge:

UTILITIES

(265) Electric Line:	N
(266) Gas Line:	N
(269) Sanitary Sewer:	N
(267) Telephone Line:	N
(268) TV Cable:	N
(270) Water Line:	N
(271) Other Utilities:	N

SPECIAL FEATURES

(283) Lighting:	N
(431) Fence:	N
(433) Glare-Screen:	N
(436) Splash-Guard:	N
(459) Catwalks:	N
(271) Other-Feat:	N
(279) Signs-On:	N
(281) Signs-Under	N
(432) Fence-Ht on Bridge	0.0 FT
(434) Noise Barrier Walls	N

Insp 1st:	3 - County Agency
2nd:	
3rd:	
(21) Major Maint 1st:	3 - County Agency
2nd:	
3rd:	
(225) Routine Maint 1st:	3 - County Agency
2nd:	
3rd:	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 1536915 | **COL** CO | **T0843** Route | **01270** SLM | **COL-T-28238-FRANKLIN TWP** FIPS | **DATE BUILT 07/01/1890 - 2012**

District 11 | **STEEL/TRUSS/DECK** | **Type of Service 1 12 PENN RR** | **10** SD | **COL**

DECK

1. Floor	Out/Out 27.3 1-REINFORCED CONCRETE	**1**	2. Wearing Surface	THCK= 2.0 2-INTEGRAL CONCRETE (MONOLITHIC) -	1
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = 06/06/2016 0-NO MEDIAN	
5. Railing	1-REINFORCED CONCRETE PARAPET	1	6. Drainage	0-OTHER (NATURAL-OFF THE BRIDGE ENDS)	1
7. Expansion Joints	N-NONE		**8. SUMMARY**	Deck Area: 4,033	9

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 140	1	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	
11. Diaphragms or Cross Frames	TOT.LGTH = 148		12. Joist/Stringers		**1**
13. Floorbeams		**1**	14. Floorbeam Connections		
15. Verticals		**1**	16. Diagonals		**1**
17. End posts			18. Upper Chord		**1**
19. Lower Chord		**1**	20. Gusset Plates		
21. Lateral Bracing		1	22. Sway Bracing		1
23. Portals			24. Bearing Devices	0-OTHER N-NONE	1
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: 0OTHER PAINT DATE = 01/01/1951	3
29. Pins/Hangers/Hinges	ADT: 324 TRUCK: 24 YEAR: 2015	**1**	30. Fatigue Prone Detail (E & E')		**1**
31. Live Load Response (E or S)		S	**32. SUMMARY**		7

SUBSTRUCTURE

33. Abutments	2-CONCRETE 2-CONCRETE	**2**	34. Abutment Seats	PIERS= # OF SPANS=1	**1**
35. Piers	TYPE = N-NONE		36. Pier Seats		
37. Backwalls		1	38. Wingwalls	ABUTMENT:=OTHER/OTHER	2
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	N-BRIDGE NOT OVER WATERWAY.	
41. Slope Protection	N-NONE		**42. SUMMARY**	DIVE DT= N/A	6

CULVERTS

43. General		44. Alignment	
45. Shape		46. Seams	
47. Headwalls or Endwalls		48. Scour (Insp Type - 1, 2, 3)	
49. Abutments		**50. SUMMARY**	N

CHANNEL

51. Alignment		52. Protection	X-NOT APPLICABLE	
53. Hydraulic Opening		**54. SUMMARY**		N

APPROACHES

55. Pavement	1-CONCRETE	1	56. Approach Slabs		1
57. Guardrail	1-STEEL BEAM	1	58. Relief Joint		
59. Embankment	BRDG.WIDTH=24.0	1	**60. SUMMARY**	PCT.LEGAL= 150	8

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	1
63. Sign Supports	MVC ON=9999 UND=4400		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	6	A

67. INSPECTED BY

Print First & Last Name | PE Number | **TH** Initial

Inspected Date: 8/25/2017

68. REVIEWED BY

Print First & Last Name | **65,578** PE Number | **TG** Initial

Reviewed Date: 12/20/2017

1	1	1	1					

69. Survey (1, 0, N)