

HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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

Ohio [39]	Lawrence County [087]	Elizabeth [24822]	0.91 MILES NORTH OF SR650	38-39-24 = 38.656667	082-43-56 = - 82.732222
4432436	Highway agency district 9	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!		OLD ST ROUTE 522	Toll On free road [3]	Features intersected PINE CREEK	
Design - main	Steel [3]	Design - approach		Kilometerpoint 0 km = 0.0 mi	
2	Truss - Thru [10]	0	Other [00]	Year built 1934	Year reconstructed 1990
				Skew angle 0	Structure Flared
				Historical significance Bridge is not eligible for the NRHP. [5]	
Total length	28.3 m = 92.9 ft	Length of maximum span	15.2 m = 49.9 ft	Deck width, out-to-out	5.5 m = 18.0 ft
				Bridge roadway width, curb-to-curb	5.4 m = 17.7 ft
Inventory Route, Total Horizontal Clearance	5.4 m = 17.7 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Wood or Timber [8]				
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	16.5 metric ton = 18.2 tons
0.2 km = 0.1 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	26.9 metric ton = 29.6 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	2034
Road classification	Minor Collector (Rural) [08]		Lanes on structure	1		Approach roadway width	4.6 m = 15.1 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	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	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	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	\$53,000	Roadway improvement cost	\$5,000
	Length of structure improvement	89.9 m = 295.0 ft	Total project cost	\$77,000
	Year of improvement cost estimate	2005		
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	44.1
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	March 2013 [0313]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	March 2013 [0313]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: English

Structure File Number: 4432436

Sufficiency Rating: 044.1 SD

Bridge Inventory Information

Inventory Bridge Number: LAW C010A 00910 N

ROUTE CARRIED "ON" THE STRUCTURE PINE CREEK

Report Date: 02-10-2015 BM-191 Page: 1 of 2

BR. Type: STEEL/TRUSS/PONY (TRUSS)

Date of Last Inventory Update:

District: 09

County: LAWRENCE

(101) Location: 0.91 MILES NORTH OF SR650

(102) Facility Carried: OLD ST ROUTE 522

(2) FIPS Code: LAW-T-24822-ELIZABETH TWP

(103) Route On Bridge: COUNTY

(104) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE

(9) Direction of Traffic: ONE LANE BRIDGE FOR 2-WAY

(10) Temporary: N

(11) Truck Network: N

(12) Parallel: N

(100) Type Serv: (On): HIGHWAY

(Under): WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED "ON" THE STR Hwy Sys: COUNTY HIGHWAY (TOWNS

Route No: C010A Dir: NOT APPLICABLE Des: MAINLINE Pref: N

(4) Feature Intersected: PINE CREEK

(5) County: ELI Mileage: 00910 Special Desig: N

(6) Avg. Daily Traffic(ADT): 200 (7) ADT Year: 1951

(8) Truck Traf: 0 (14) NHS: NON-NHS BRG E (15) Corridor: N

(16) Functional Class: RURAL - MINOR COLLECTOR (19) Strahnt: NON-STRAHNET BRIDGES

Intersected Route Data

(22) Route On/Under: Hwy Sys:

Route No: Dir: Des: Pref:

(23) Feature Intersected:

(24) County: Mileage: 0000 Special Desig:

(25) Avg. Daily Traffic(ADT): (26) ADT Year:

(27) Truck Traf: (28) NHS: - (29) Corridor: N

(30) Functional Class: (36) Strahnt:

Clearance On the Bridge

(154) Min. Hriz on Bridge: NC: 0.0 Card: 17.5 Ft

(155) Prac Max Vert On Brq: 9999.9 Ft

(67) Min Vrt Clr On Brq: NC: 0.0 Card: 9999.9 Ft

(80) Min Latl Clr: NC: 0.0/0.0 Ft Card: 4.1/4.0 Ft

(81) Vrt Clr Lft: 0.0 Ft

Structure Information

(38) Bypass Length: 01 Miles

(39) Latitude: 38 Deg 39 Min 24.71 Sec Longitude: 82 Deg 43 Min 56.24 Sec

(40) Toll: ON FREE ROAD, THE STRUCTU

(41) Date Built: 7/1/1900 (42) Major Rehabilitation: 1/1/1990

(43) No. Lanes On: 1 No. Lanes Under: 0

(44) Horiz Curve: (45) Skew: 0 Deg

(49) App. Rdw Width: 15 Ft (50) Brq. Rdw Width: 17.6 Ft

(51) Deck Width: 18.0 Ft Deck Area: 1679 Sq. Ft

(52) Median Type: NONE/NON BARRIER/NO JOINT

(53) Bridge Median: NO MEDIAN

(54) Sidewalks: (left) 0.0 Ft (right) 0.0 Ft

(55) Type Curb or Sidewalks:

(Left) Matl: NONE Type: NONE OR N/A (RR, PEDESTRIAN, ETC.)

(Right) Matl: NONE Type: NONE OR N/A (RR, PEDESTRIAN, ETC.)

(56) Flared: N (57) Composite: N - NON_COMPOSITE

(58) Railing: OTHER

(59) Deck Drainage: OVER THE SIDE (WITHOUT DRIP STRIP)

(60) Deck Type: LAMINATED TIMBER STRIP

(61) Deck Protection: External: NONE OR NOT APPLICABLE

Internal: NONE OR NOT APPLICABLE

(62) Wearing Surface: CHIP & SEAL - OVERLAY

Thickness: 1.0 in (119) Date of Wearing Surface: 1/1/1990

Slope Protection: NONE

(63) Main Spans Number: 2 Type: STEEL/TRUSS/PONY (TRUSS)

Approach Spans Number: 0 Type: NONE/NONE/NONE

Total Spans: 2 (65) Max Span: 50 Ft (66) Overall Leng: 93 Ft

(70) Substructure (71) Foundation and Scour Information

Abut-Rear Matl: CONCRETE Type: GRAVITY Fnd: UNKNOWN

Abut-Fwd Matl: CONCRETE Type: GRAVITY Fnd: UNKNOWN

Pier-Pred Matl: CONCRETE Type: GRAVITY Fnd: UNKNOWN

Pier-Other Matl: NONE Type: NONE Fnd: UNKNOWN

Pier-Other Matl: NONE Type: NONE Fnd: UNKNOWN

No of Piers Predominate: Other: Other:

(86) Stream Velocity: 00000 (74) Scour: SCOUR WITHIN LIMITS OF FOOTING OR PILES.

(189) Dive: N Freq: 0 Probe: Y Freq: 0 (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 (88-89) Appraisal

(48) Design Load: UNKNOWN (Including calculated Items)

Opr Rat Fact: 0.830 LD:

Inv Rat Fact: 0.510 LD:

(83) Ohio Percent of Legal Load: 100 (88) Waterway Adequacy: 8

Year of Rating: 2009 (89) Approach Alignment: 7

(84) Analysis: ALLOWABLE STRESS RATING (ASR) OR WORKING Calc Gen Appraisal: 4

(85) Rate Soft: BARS Calc Deck Geometry: 2

Analysis on Bars: NOT ON BARS [DEFAULT] Calc Underclearance: N

PE#: 0 BTJ

Approach Information

(109) Approach Guardrail: NONE

(110) Approach Pavement: OTHER (111) Grade: GOOD

Culvert Information

(131) Culvert Type: NOT A CULVERT OR RIGID FRAME (127) Length: 0.0 Ft

(129) Depth of Fill: 0.0 Ft (130) Headwalls: NONE OR NOT APPLICABLE (NOT A CU

General Information

(121) Main Member: NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE (122) Moment Plate: NO MOMENT PLATES

(169) Expansion Joint: NONE

(124) Bearing Devices: ROCKERS & BOLSTERS

(126) Navigation: Control-X 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: 3/29/2013

(138) Long Member: TWO TRUSSES (RIVETED) (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO

(141) Structural Steel Memb: UNKNOWN (139) Framing: NONE OR NOT APPLICABLE

Railing: U

Pay Wt: 0 pounds Prime Loc: UNKNOWN Paint: OTHER PAINT

Bridge Dedicated Name:

PONTIS CoRe elements and Conditions States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
(*) Percentages should add to 100%								

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 4432436 LAW C010A 00910 LAW-T-24822-ELIZABETH TWP DATE BUILT 07/01/1900 - 1990

CO

Route

SLM

FILE

N
SD

LAW

District 09 STEEL/TRUSSPONY (TRUSS)

Type of Service 1 15 PINE CREEK

DECK

1. Floor	Out/Out 18.0 2-LAMINATED TIMBER STRIP	<u>3</u>	2. Wearing Surface	THCK= 1.0 B-CHIP & SEAL - OVERLAY	<u>2</u>
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = 01/01/1990 N-NO MEDIAN	
5. Railing	0-OTHER	<u>2</u>	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	<u>3</u>
7. Expansion Joints	N-NONE		8. SUMMARY	Deck Area: 1,679	<u>4</u>

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 50	<u>3</u>	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames	TOT.LGTH = 93		12. Joist/Stringers		<u>2</u>
13. Floorbeams		<u>2</u>	14. Floorbeam Connections		
15. Verticals		<u>3</u>	16. Diagonals		<u>2</u>
17. End posts			18. Upper Chord		<u>3</u>
19. Lower Chord		<u>3</u>	20. Gusset Plates		
21. Lateral Bracing		<u>2</u>	22. Sway Bracing		
23. Portals			24. Bearing Devices	2-ROCKERS & BOLSTERS N-NONE	<u>3</u>
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			28. Protective Coating System (PCS)	TYPE: 0OTHER PAINT DATE = 01/01/1951	<u>3</u>
29. Pins/Hangers/Hinges	ADT: 200 TRUCK: 0 YEAR: 1951	<u>2</u>	30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		<u>S</u>	32. SUMMARY		<u>4</u>

SUBSTRUCTURE

33. Abutments	2-CONCRETE 2-CONCRETE	<u>2</u>	34. Abutment Seats	PIERS= # OF SPANS=2	<u>1</u>
35. Piers	TYPE = 2-CONCRETE	<u>2</u>	36. Pier Seats		<u>2</u>
37. Backwalls		<u>2</u>	38. Wingwalls	ABUTMENT:=UNKNOWN/UNKNOWN	<u>2</u>
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	5-SCOUR WITHIN LIMITS OF FOOTING OR PILES.	<u>1</u>
41. Slope Protection	N-NONE		42. SUMMARY	DIVE DT= N/A	<u>5</u>

CULVERTS

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

CHANNEL

51. Alignment	<u>2</u>	52. Protection	N-NONE	
53. Hydraulic Opening	<u>2</u>	54. SUMMARY		<u>5</u>

APPROACHES

55. Pavement	0-OTHER	<u>2</u>	56. Approach Slabs		
57. Guardrail	N-NONE		58. Relief Joint		
59. Embankment	BRDG.WIDTH=17.6	<u>1</u>	60. SUMMARY	PCT.LEGAL= 100	<u>6</u>

GENERAL

61. Navigation Lights		62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	
63. Sign Supports	MVC ON=9999 UND=0000	64. Utilities	TEL/	<u>2</u>
65. Vertical Clearance (1, 2-change, N)		66. General Appraisal & Operational Status		<u>4</u> <u>A</u>

67. INSPECTED BY

68. REVIEWED BY

Print First & Last Name

PE Number

ER
Initial

Print First & Last Name

63.613
PE Number

DC
Initial

Inspected Date: 3/24/2014

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Reviewed Date: 1/1/0001

69. Survey (1, 0, N)