HistoricBridges.org - National Bridge Inventory Data Sheet

2014 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]	Licking County [089]	Newark [54040]	EAST MAIN OVER NORTH FORK	40-03-36.00 = 40.060000	082-23-30.00 = -82.391667

4560175	Highway agency district 5	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		

Route: #Num!		EAST MAIN ST	Toll: On free road [3]	Features intersected: NORTH FORK	

Design - main: Steel [3]		Design - approach:		Kilometerpoint: 0 km = 0.0 mi	
1	Truss - Thru [10]	0	Other [00]	Year built: #Num!	Year reconstructed: 2001
				Skew angle: 8	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length: 47.9 m = 157.2 ft	Length of maximum span: 46 m = 150.9 ft	Deck width, out-to-out: 11.6 m = 38.1 ft	Bridge roadway width, curb-to-curb: 10.7 m = 35.1 ft		
Inventory Route, Total Horizontal Clearance: 10.7 m = 35.1 ft	Curb or sidewalk width - left: 1.8 m = 5.9 ft	Curb or sidewalk width - right: 1.8 m = 5.9 ft			

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]
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: Load Factor(LF) [1]		Inventory rating: 36.3 metric ton = 39.9 tons		
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 60.6 metric ton = 66.7 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: MS 18+Mod / HS 20+Mod [6]		

Functional Details

Average Daily Traffic	10000	Average daily truck traffi	5 %	Year	1999	Future average daily traffic	13880
Year	2035						
Road classification	Principal Arterial - Other Freeways or Exp	Lanes on structure	2	Approach roadway width	10.7 m = 35.1 ft		
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	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	6.1 m = 20.0 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	Equal to present desirable criteria [8]
Condition ratings - superstructure	Very Good [8]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Very Good [8]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
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	Superior to present desirable criteria [9]	Status evaluation	
Pier or abutment protection		Sufficiency rating	91

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	
Traffic safety features - approach guardrail ends	

Inspection date	December 2013 [1213]	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 2012 [0312]
Other special inspection	Not needed [N]	Other special inspection date	

District: 05 | County: LICKING | (101) Location: EAST MAIN OVER NORTH FORK | (102) Facility Carried: EAST MAIN ST
(2) FIPS Code: LIC-M-54040-NEWARK | (103) Route On Bridge: MUNICIPAL | (104) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE
(9) Direction of Traffic: 2-WAY TRAFFIC | (10) Temporary: | (11) Truck Network: N | (12) Parallel: N
(100) Type Serv: (On): HIGHWAY-PEDESTRIAN | (Under): WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED "ON" THE STR | Hwy Sys: MUNICIPAL STREET (I.E. VILL
Route No: EMAIN | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: NORTH FORK
(5) County: NEW | Mileage: 20020 | Special Desig: N
(6)Avg. Daily Traffic(ADT): 10,000 | (7) ADT Year: 1999
(8) Truck Traf: 500 | (14) NHS: NON-NHS BRIDG | (15) Corridor: N
(16) Functional Class: URBAN - PRINCIPAL ARTERIAL - OTHE | (19) Strahnt: NOT STRAHNET

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: 35.0 Ft
(155) Prac Max Vert On Brg: 20.0 Ft
(67) Min Vrt Clr On Brg: NC: 0.0 | Card: 20.0 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: 01 Miles
(39) Latitude: 40 Deg 03 Min 33.50 Sec | Longitude: 82 Deg 23 Min 48.16 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1898 | (42) Major Rehabilitation: 1/1/2001
(43) No. Lanes On: 2 | No. Lanes Under: 0
(44) Horiz Curve: | (45) Skew: 8 Deg
(49) App. Rdw Width: 35 Ft | (50) Brg. Rdw Width: 35.0 Ft
(51) Deck Width: 38.0 Ft | Deck Area: 5966 Sq. Ft
(52) Median Type: NONE/NON BARRIER/NO JOINT
(53) Bridge Median: NO MEDIAN
(54) Sidewalks: | (left) 6.0 Ft | (right) 6.0 Ft
(55) Type Curb or Sidewalks:
(Left) Matl: STEEL | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(Right) Matl: STEEL | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(56) Flared: 0 | (57) Composite: U - NOT APPLICABLE
(58) Railing: REINFORCED CONCRETE PARAPET
(59) Deck Drainage: OVER THE SIDE (WITHOUT DRIP STRIP)
(60) Deck Type: REINFORCED CONCRETE
(61) Deck Protection: External: NOT APPLICABLE (ONLY FOR BRIDGES FOR NO
Internal: EPOXY COATED REINFORCING (TOP MAT)
(62) Wearing Surface: INTEGRAL CONCRETE (MONOLITHIC) - NOT AN
Thickness: 9.0 in | (119) Date of Wearing Surface:
Slope Protection: RIP RAP (DUMPED ROCK OR ROCK CHANNEL PRO

(63) Main Spans Number: 1 | Type: STEEL/TRUSS/THRU
Approach Spans Number: 0 | Type: NONE/NONE/NONE
Total Spans: 1 | (65) Max Span: 151 Ft | (66) Overall Leng: 157 Ft

(70) Substructure		(71) Foundation and Scour Information	
Abut-Rear	Matl: CONCRETE A	Type: GRAVITY	Fnd: UNKNOWN
Abut-Fwd	Matl: CONCRETE A	Type: GRAVITY	Fnd: UNKNOWN
Pier-Pred	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)
Pier-Other	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)
Pier-Other	Matl: NONE	Type: NONE	Fnd: NONE (SUCH AS MOST CULVERTS)
No of Piers Predominate:		Other:	Other:

(86) Stream Velocity: 00000 | (74) Scour: BRIDGE FOUNDATIONS DETERMINED TO BE STAB
(189) Dive: N Freq: 0 | Probe: Y Freq: 0 | (75) Chan Prot: RIP RAP (DUMPED ROCK OR ROCK CH
(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: HS20-44 & ALTERNATE MILITARY LOADING
Opr Rat Fact: 1.870 LD:
Inv Rat Fact: 1.120 LD:
(83) Ohio Percent of Legal Load: 150
Year of Rating: 2012
(84) Analysis: LOAD FACTOR (LF) RATING REPORTED BY RF U
(85) Rate Soft: OTHER PROGRAM
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 53391 WILLIAM VERMES

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 9
(89) Approach Alignment: 7
Calc Gen Appraisal: 7
Calc Deck Geometry: 4
Calc Underclearance: N

Approach Information

(109) Approach Guardrail: CONCRETE DEFLECTOR PARAPET
(110) Approach Pavement: BITUMINOUS | (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: NOT APPLICABLE
(169) Expansion Joint: ELASTOMERIC STRIP SEAL
(124) Bearing Devices: ROCKERS & BOLSTERS
(126) Navigation: Control-0 | 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: 10/22/2014
(138) Long Member: TWO TRUSSES (RIVETED) | (135) Hinges: PINS, PIN PLATES
(141) Structural Steel Memb: A572 | (139) Framing: NONE OR NOT APPLICABLE
Railing: 2
Pay Wt: 0 pounds | Prime Loc: NONE (I.E. | Paint: GALVANIZED
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: ELIGIBLE FOR NATIONAL REGISTER
(69) NBIS: Y
(---) Hist Builder: MASSILLON BRIDGE COMPANY
Hist Build Year: 1898
(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):
(90) Roadway Cost ($1000s):
(90) Total Project Cost ($1000s):
(90) Year:
(91) Future ADT (On Bridge): 13880
(92) Year of Future ADT: 2035

Programming Info

PID Number: 16127
PID Status: IA-OTHER
PID Date: 6/21/2001

Original Plans Information

(142) Fabricator: OHIO BRIDGE
(143) Contractor: ARMSTRONG STL
(144) Ohio Original Construction Project No:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: N Repair: N Fabr: N
Plan Information Available: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI

(153) Repair Projects:
1) / MMM
2) / 020
3) / 001
4) / 022

Inspection Summary

(I-8) Deck:	7
(I-32) Superstructure:	8
(I-42) Substructure:	7
(I-50) Culvert:	N
(I-54) Channel:	8
(I-60) Approaches:	7
(I-66) General Appraisal:	7
(I-66) Operational Status:	A
Inspection Date:	11/2/2015
(94) Desig Insp Freq	12 Months

(I-69) Survey Items

Railings:	MEETS ACCEPTABLE STANDARDS
Transitions:	NA/SAFETY FEATURE NOT REQUIRED
Guardrail:	DOES NOT MEET ACCEPTABLE STANDA
Rail Ends:	DOES NOT MEET ACCEPTABLE STANDA
In Depth:	
Fracture Critical:	
Scour Critical	
Critical Findings:	
Insp. Update Date:	11/2/2015

Utilities

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

Special Features

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

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

INV Field Bridge Marker: LIC - EMAIN - 2002 - N
INT Field Bridge Marker: - - 0000 -

(95) Insp: CITY OR OTHER LOCAL AGENCY	2nd: NONE	3rd: NONE
(96) Maint: CITY OR OTHER LOCAL AGENCY	2nd: NONE	3rd: NONE
(97) Routine: CITY OR OTHER LOCAL AGENCY	2nd: NONE	3rd: NONE

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: 4560175 | LIC CO | EMAIN Route | 20020 SLM | LIC-M-54040-NEWARK FIPS | **DATE BUILT** 07/01/1898 - 2001

District 05 | STEEL/TRUSSTHRU | **Type of Service** 1 | 55 NORTH FORK | N SD | LIC

DECK

1. Floor	Out/Out 38.0 1-REINFORCED CONCRETE	1	2. Wearing Surface	THCK= 9.0 2-INTEGRAL CONCRETE (MONOLITHIC) - NOT	1
3. Curbs, Sidewalks & Walkways	2-STEEL 2-STEEL	1	4. Median	W.S. Date = N-NO MEDIAN	
5. Railing	1-REINFORCED CONCRETE PARAPET	1	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	2
7. Expansion Joints	8-ELASTOMERIC STRIP SEAL	1	**8. SUMMARY**	Deck Area: 5,966	7

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 151	1	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames	TOT.LGTH = 157	1	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		**1**
21. Lateral Bracing		1	22. Sway Bracing		1
23. Portals			24. Bearing Devices	2-ROCKERS & BOLSTERS C-ELASTOMERIC (LAMINATED)	1
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: 6GALVANIZED DATE = 01/01/1978	1
29. Pins/Hangers/Hinges	ADT: 10,000 TRUCK: 500 YEAR: 1999	**1**	30. Fatigue Prone Detail (E & E')		**1**
31. Live Load Response (E or S)		S	**32. SUMMARY**		8

SUBSTRUCTURE

33. Abutments	3-CONCRETE AND STONE 3-CONCRETE AND STONE	**1**	34. Abutment Seats	PIERS= # OF SPANS=1	**1**
35. Piers	TYPE = N-NONE		36. Pier Seats		
37. Backwalls		1	38. Wingwalls	ABUTMENT:=UNKNOWN/UNKNOWN	1
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	8-BRIDGE FOUNDATIONS DETERMINED TO BE STAB 1	**1**
41. Slope Protection	3-RIP RAP (DUMPED ROCK OR ROCK CHANNEL PRO	1	**42. SUMMARY**	DIVE DT= N/A	7

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		1	52. Protection	5-RIP RAP (DUMPED ROCK OR ROCK CHANNEL PRO	1
53. Hydraulic Opening		1	**54. SUMMARY**		8

APPROACHES

55. Pavement	2-BITUMINOUS	1	56. Approach Slabs		1
57. Guardrail	7-CONCRETE DEFLECTOR PARAPET	1	58. Relief Joint		1
59. Embankment	BRDG.WIDTH=35.0	1	**60. SUMMARY**	PCT.LEGAL= 150	7

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 4-CITY OR OTHER LOCAL AGENCY MAINT.RESP: 4-CITY OR OTHER LOCAL AGENCY	4
63. Sign Supports	MVC ON=2000 UND=0000		64. Utilities		1
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	7	A

67. INSPECTED BY

Print First & Last Name | 60.606 PE Number | CP Initial

Inspected Date: 11/2/2015

68. REVIEWED BY

Print First & Last Name | 71.772 PE Number | MC Initial

Reviewed Date: 11/3/2015

1	N	0	0				

69. Survey (1, 0, N)