

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Ohio [39]	Logan County [091]	Pleasant [63324]	.36 M E OF CR 24	40-21-06 = 40.351667	083-56-18 = - 83.938333
4631838	Highway agency district 7	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	CR 21	Toll On free road [3]	Features intersected	MIAMI RIVER	
Design - main	Steel [3]	Design - approach	Kilometerpoint	0 km = 0.0 mi	
1	Truss - Thru [10]	0 Other [00]	Year built #Num!	Year reconstructed	1997
			Skew angle	0	Structure Flared
			Historical significance	Bridge is eligible for the NRHP. [2]	
Total length	43.6 m = 143.1 ft	Length of maximum span	42.7 m = 140.1 ft	Deck width, out-to-out	4.9 m = 16.1 ft
Inventory Route, Total Horizontal Clearance	4.9 m = 16.1 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	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	1 metric ton = 1.1 tons
0.6 km = 0.4 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	9.1 metric ton = 10.0 tons
Bridge posting			Design Load	M 9 / H 10 [1]

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

Posted for load [P]

Appraisal ratings -
structural

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - superstructure

Poor [4]

Appraisal ratings -
roadway alignment

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Good [7]

Scour

Bridge foundations determined to be stable for assessed or calculated scour condition. [5]

Channel and channel protection

There are no noticeable or noteworthy deficiencies which affect the condition of the channel. [9]

Appraisal ratings - water adequacy

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

21.4

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

Inspected feature meets currently acceptable standards. [1]

Inspection date

February 2013 [0213]

Designated inspection frequency

12

Months

Underwater inspection

Not needed [N]

Underwater inspection date

Fracture critical inspection

Every two years [Y24]

Fracture critical inspection date

February 2013 [0213]

Other special inspection

Not needed [N]

Other special inspection date

Structure File Number: 4631838

Inventory Bridge Number: LOG C0021 01000 N

BR. Type: STEEL/TRUSS/THRU

Sufficiency Rating: 021.4 SD

ROUTE CARRIED "ON" THE STRUCTURE MIAMI RIVER

Date of Last Inventory Update:

District: 07	County: LOGAN	(101) Location: .36 M E OF CR 24	(102) Facility Carried: CR 21
(2) FIPS Code: LOG-T-63324-PLEASANT 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	(63) Main Spans Number: 1	Type: STEEL/TRUSS/THRU
Route No: C0021	Dir: NOT APPLICABLE	Des: MAINLINE	Pref: N
(4) Feature Intersected: MIAMI RIVER		(64) Approach Spans Number: 0	Type: NONE/NONE/NONE
(5) County: PLE	Mileage: 01000	Special Desig: N	
(6) Avg. Daily Traffic(ADT): 760		(7) ADT Year: 2010	
(8) Truck Traf: 76	(14) NHS: NON-NHS BRG E	(15) Corridor: N	
(16) Functional Class: RURAL - LOCAL		(19) Strahnt: NON-STRAHNET BRIDGES	
Intersected Route Data			
(22) Route On/Under:	Hwy Sys:	(65) Max Span: 140 Ft	(66) Overall Leng: 143 Ft
Route No: Dir:	Des: Pref:	(70) Substructure	(71) Foundation and Scour Information
(23) Feature Intersected:		Abut-Rear	Matl: STONE
(24) County: Mileage: 0000	Special Desig:	Type: GRAVITY	Fnd: OTHER
(25) Avg. Daily Traffic(ADT):	(26) ADT Year:	Abut-Fwd	Matl: STONE
(27) Truck Traf: (28) NHS: -	(29) Corridor: N	Type: GRAVITY	Fnd: OTHER
(30) Functional Class:	(36) Strahnt:	Pier-Pred	Matl: NONE
		Type: NONE	Fnd: OTHER
		Pier-Other	Matl: NONE
		Type: NONE	Fnd: OTHER
		Pier-Other	Matl: NONE
		Type: NONE	Fnd: OTHER
		No of Piers Predominate:	Other:
		(86) Stream Velocity: 00000	(74) Scour: SCOUR WITHIN LIMITS OF FOOTING OR PILES.
		(189) Dive: N Freq: 0	Probe: Y Freq: 0
		(189) Date of last Dive Insp:	(75) Chan Prot: NONE
		(152) Drainage Area: UUU Sq Mi	
Clearance Under the Bridge			
(154) 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: H10		(88-89) Appraisal	
Opr Rat Fact: 0.280 LD:		(Including calculated items)	
Inv Rat Fact: 0.030 LD:			
(83) Ohio Percent of Legal Load: 30		(88) Waterway Adequacy: 8	
Year of Rating: 2011		(89) Approach Alignment: 5	
(84) Analysis: ALLOWABLE STRESS RATING (ASR) OR WORKING		Calc Gen Appraisal: 3	
(85) Rate Soft: COMBINATION		Calc Deck Geometry: 2	
Analysis on Bars: NOT ON BARS [DEFAULT]		Calc Underclearance: N	
PE#: 43709 DANIEL BUCHER			
Approach Information			
(109) Approach Guardrail: STEEL BEAM			
(110) Approach Pavement: BITUMINOUS		(111) Grade: FAIR	
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: OTHER			
(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: 2/5/2013	
(138) Long Member: TWO TRUSSES (RIVETED)		(135) Hinges: PINS & HANGERS	
(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:			
Structure Information			
(38) Bypass Length: 04 Miles			
(39) Latitude: 40 Deg 21 Min 06.00 Sec	Longitude: 83 Deg 56 Min 18.00 Sec		
(40) Toll: ON FREE ROAD, THE STRUCTU			
(41) Date Built: 7/1/1882	(42) Major Rehabilitation: 1/1/1997		
(43) No. Lanes On: 1	No. Lanes Under: 0		
(44) Horiz Curve: 00D00M	(45) Skew: 0 Deg		
(49) App. Rdw Width: 20 Ft	(50) Brg. Rdw Width: 16.0 Ft		
(51) Deck Width: 16.0 Ft	Deck Area: 2293 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: U - NOT APPLICABLE		
(58) Railing: STEEL GUARDRAIL ON STEEL, CONCRETE OR TI			
(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: BITUMINOUS (ASPHALTIC CONCRETE) - OVERLA			
Thickness: 4.0 in	(119) Date of Wearing Surface: 1/1/1993		
Slope Protection: OTHER			

General Information (Continued)			Original Plans Information		
(---) Hist Significance: ELIGIBLE FOR NATIONAL REGISTER (---) Hist Builder: MASSILLON BRIDGE COMPANY (69) Hist Type: DOUBLE INTERSECTION PRATT (WHIPPLE) (161) Special Features (see below): (105) Border Bridge State: Resp: %(106) SFN:		(69) NBIS: Y Hist Build Year: 1882	(142) Fabricator: UNKNOWN (143) Contractor: UNKNOWN (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		
Proposed Improvements		Programming Info	(153) Repair Projects:		
(90) Type Work: -		PID Number:	1) / MMM		
		PID Status:	2) / 020		
		PID Date:	3) / 044		
(90) Length: Ft			4) 000000 / 020		
(90) Bridge Cost (\$1000s):					
(90) Roadway Cost (\$1000s):					
(90) Total Project Cost (\$1000s):	(90) Year:				
(91) Future ADT (On Bridge): 1055	(92) Year of Future ADT: 2036				
Inspection Summary		(I-69) Survey Items	Utilities		Special Features
(I-8) Deck: 7		Railings:	(46) Electric: U	(161) Lighting: N	
(I-32) Superstructure: 4		Transitions:	Gas: U	Fencing: N	
(I-42) Substructure: 5		Guardrail:	Sanitary Sewer: U	Glare-Screen: N	
(I-50) Culvert: N		Rail Ends:	Telephone: U	Splash-Guard: N	
(I-54) Channel: 9		In Depth:	TV Cable: U	Catwalks: N	
(I-60) Approaches: 9		Fracture Critical:	Water: U	Other-Feat: U	
(I-66) General Appraisal: 4		Scour Critical:	Other: U	(184) Signs-On: N	
(I-66) Operational Status: P		Critical Findings:		Signs-Under: N	
Inspection Date: 2/7/2014		Insp. Update Date: 2/7/2014		(162) Fence-Ht: 0.0	
(94) Desig Insp Freq: 12 Months				(163) Noise Barr: N	
SFNs Replacing this retired bridge: -			INV Field Bridge Marker: LOG - C0021 - 0100 - N		
SFNs That were replaced by this bridge: -			INT Field Bridge Marker: - - 0000 -		
This bridge was retired and copied to:					
The bridge was copied from:					
(95) Insp: COUNTY AGENCY	2nd: NONE	3rd: NONE			
(96) Maint: COUNTY AGENCY	2nd: NONE	3rd: NONE			
(97) Routine: COUNTY 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: 4631838

LOG
CO

C0021
Route

01000
SLM

LOG-T-63324-PLEASANT TWP

DATE BUILT 07/01/1882 - 1997

District 07 STEEL/TRUSS THRU

Type of Service 1 15 MIAMI RIVER

N
SD LOG

DECK

1. Floor	Out/Out 16.0 2-LAMINATED TIMBER STRIP	1	2. Wearing Surface	THCK= 4.0 6-BITUMINOUS (ASPHALTIC CONCRETE) -	2
3. Curbs, Sidewalks & Walkways	N-NONE N-NONE		4. Median	W.S. Date = 01/01/1993 N-NO MEDIAN	
5. Railing	7-STEEL GUARDRAIL ON STEEL, CONCRETE OR TI	1	6. Drainage	1-OVER THE SIDE (WITHOUT DRIP STRIP)	2
7. Expansion Joints	N-NONE		8. SUMMARY	Deck Area: 2,293	7

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 140	1	10. Beams/Girders/Slab	N-NOT APPLICABLE (CULVERTS, TRUSSES, ARCHE	
11. Diaphragms or Cross Frames	TOT.LGTH = 143		12. Joist/Stringers		3
13. Floorbeams		3	14. Floorbeam Connections		
15. Verticals		3	16. Diagonals		3
17. End posts			18. Upper Chord		3
19. Lower Chord		3	20. Gusset Plates		
21. Lateral Bracing			22. Sway Bracing		3
23. Portals			24. Bearing Devices	0-OTHER N-NONE	3
25. Arch			26. Arch Columns or Hangers		
27. Spandrel Walls			28. Protective Coating System (PCS)	TYPE: 0OTHER PAINT DATE = 06/25/1997	4
29. Pins/Hangers/Hinges	ADT: 760 TRUCK: 76 YEAR: 2010	3	30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		E	32. SUMMARY		4

SUBSTRUCTURE

33. Abutments	1-STONE 1-STONE	2	34. Abutment Seats	PIERS= # OF SPANS=1	2
35. Piers	TYPE = N-NONE		36. Pier Seats		
37. Backwalls		2	38. Wingwalls	ABUTMENT:=OTHER/OTHER	2
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	5-SCOUR WITHIN LIMITS OF FOOTING OR PILES.	1
41. Slope Protection	0-OTHER	2	42. SUMMARY	DIVE DT= N/A	5

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	N-NONE	
53. Hydraulic Opening		1	54. SUMMARY		9

APPROACHES

55. Pavement	2-BITUMINOUS	1	56. Approach Slabs		
57. Guardrail	1-STEEL BEAM	1	58. Relief Joint		
59. Embankment	BRDG.WIDTH=16.0	1	60. SUMMARY	PCT.LEGAL= 30	9

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	1
63. Sign Supports	MVC ON=1606 UND=0000		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. General Appraisal & Operational Status		4 P

67. INSPECTED BY

68. REVIEWED BY

Print First & Last Name
Inspected Date: 2/7/2014

PE Number

MH
Initial

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Print First & Last Name

63.397
PE Number

SC
Initial

Reviewed Date: 1/1/0001

69. Survey (1, 0, N)