

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] Allen County [003] Lima [43554] 0.66 MI N OF BUCKEYE RD 40-43-12 = 40.720000 084-06-54 = - 84.115000

249599 Highway agency district 1 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! LIMA - METCALF ST Toll On free road [3] Features intersected N&W RAILRD - S DIXIE HWY

Design - main Steel [3] Design - approach Concrete continuous [2] Kilometerpoint 0 km = 0.0 mi

7 Truss - Thru [10] 5 Slab [01] Year built 1923 Year reconstructed 1989

Skew angle 58 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 164 m = 538.1 ft Length of maximum span 93.9 m = 308.1 ft Deck width, out-to-out 8.9 m = 29.2 ft Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft

Inventory Route, Total Horizontal Clearance 8.8 m = 28.9 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 1.5 m = 4.9 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 0.3 km = 0.2 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 13.6 metric ton = 15.0 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 23 metric ton = 25.3 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	12509	Average daily truck traffi	7	%	Year	2000	Future average daily traffic	17362	Year	2029
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	12.2 m = 40.0 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	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	4.88 m = 16.0 ft						
Minimum lateral underclearance reference feature	Railroad beneath structure [R]									
Minimum lateral underclearance on right	6.3 m = 20.7 ft			Minimum lateral underclearance on left	6.4 m = 21.0 ft					
Minimum Vertical Underclearance	3.63 m = 11.9 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of replacement [2]									

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	\$1,200,000	Roadway improvement cost	\$120,000		
	Length of structure improvement	182.9 m = 600.1 ft		Total project cost	\$1,320,000	
	Year of improvement cost estimate	2003				
	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	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Very Good [8]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	32.1
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	July 2010 [0710]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	December 2008 [1208]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **0249599**
Sufficiency Rating: **32.1 SD**

Bridge Inventory Information
Inventory Bridge Number: **ALL ML270 0423**
ON N&W RAILRD - S DIXIE HWY

Report Date **02/27/2013** BM-191 Page: 1 of 2
BR. Type **STEEL / TRUSS / THRU**
Date of Last Inventory Update: **03/13/2012**

District: **01** County **ALLEN** (101) Location: **0.66 MI N OF BUCKEYE RD** (102) Facility Carried: **LIMA - METCALF ST**
(2) FIPS Code: **LIMA** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **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/PEDESTRIAN** (Under): **RAILROAD**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **MUNICIPAL STREET**
Route No.: **ML270** Dir: Des: **BUSINESS** Pref:
(4) Feature Intersected: **N&W RAILRD - S DIXIE HWY**
(5) County: **SHA** Mileage: **0423** Special Desig:
(6) Avg. Daily Traffic(ADT): **12,509** (7) ADT Year: **2000**
(8) Truck Traf: **810** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **MINOR ARTERIAL-URBAN** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: **7** Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **5** Type: **CONCRETE / SLAB / CONTINUOUS**
Total Spans: **12** (65) Max Span: **308 Ft** (66) Overall Leng: **538 Ft**

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**

(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **CONCRETE** Type: **PEDESTAL** Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE** Type: **PEDESTAL** Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **CONCRETE** Type: **CAPPED COLUMN** Fnd: **STEEL H PILES (OTHER SIZE)**
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: **06** Other: **NN** Other: **NN**
(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNN Sq Mi**

Clearance Under the Bridge

(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **29.0 Ft**
(155) Prac Max Vert On Brg: **16.0 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **16.0 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **4.0 / 4.0 Ft**
(81) Vrt Clr Lft: **0.0 Ft**

(156) Min. Horiz Under Clear: NC: **0.0 Ft** Card: **0.0 Ft**
(157) Prac Max Vrt Under Clear: **11.9 Ft**
(77) Min Vert Under Clear: NC: **11.9 Ft** Card: **11.9 Ft**
(78) Min Lat Under Clear: NC: **20.9 / 20.8 Ft** Card: **20.9 / 20.9 Ft**

Clearance On the Bridge

Load Rating Information

(88-89) Appraisal

(38) Bypass Length: **02 Miles**
(39) Latitude: **40 Deg 43.2 Min** Longitude: **84 Deg 6.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1923** (42) Major Rehabilitation: **07/01/1989**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **58 Deg**
(49) App. Rdw Width: **40 Ft** (50) Brg. Rdw Width: **28.0 Ft**
(51) Deck Width: **29.3 Ft** Deck Area: **15780 Sq. Ft**

(48) Design Load: **HS/20** (Including calculated Items)
(83) Operating: **45 Ton**
Inventory: **36 Ton**
Ohio Percent of Legal Load **120** (88) Waterway Adequacy **N**
Year of Rating: **2010** (89) Approach Alignment **8**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **2**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: **KAK** Calc Deck Geometry: **4**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **2**

Structure Information

Approach Information

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0 Ft** (right) **4 Ft**
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **CONCRETE** Type: **SIDEWALK(>2')**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST)**
(61) Deck Protection: External: **NONE**
Internal: **EPOXY COATED REINFORCING (BOTH)**
(62) Wearing Surface: **INTEGRAL CONCRETE (MONOLITHIC)**
Thickness: **1.0 in** (119) Date of Wearing Surface: **07/01/1990**
Slope Protection: **RIP RAP (DUMPED ROCK)**

(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

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 **WELDED BUILT-UP STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **ELASTOMERIC STRIP SEAL**
(124) Bearing Devices: **SLIDING (BRONZE)/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: **2010-09-23**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS AND HANGERS**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **11 pounds** Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **0249599**
 Sufficiency Rating: **32.1 SD**

Bridge Inventory Information
 Inventory Bridge Number: **ALL ML270 0423**
ON N&W RAILRD - S DIXIE HWY

Report Date **02/27/2013** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **03/13/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: AMERICAN BRIDGE CO		Hist Build Year:		(143) Contractor:			
(69) Hist Type: BALTIMORE				(144) Ohio Original Construction Project No.: 000712			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: N Fabr: Y			
(90) Type Work: 31 - BRG/STR REPL--SUBSTD LD CAP OR RDW GEOM		PID Number:		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / MMM		2. / 020	
(90) Roadway Cost (\$1000s): 0				4.		5.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2029		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 8	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N	(I-32) Superstructure: 5	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: U	Fencing: N
(I-42) Substructure: 6	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N	(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: U	Glare-Screen: N
(I-54) Channel:	In Depth: N NONE N/A	TV Cable: U	Splash-Guard: N	(I-60) Approaches: 6	Fracture Critical: N NONE N/A	Water: U	Catwalks: N
(I-66) General Appraisal: 5	Scour Critical: N NONE N/A	Other: U	Other-Feat: U	(I-66) Operational Status: A	Critical Findings: N NONE N/A	(184) Signs-on: N	Other-Feat: U
Inspection Date: 09/27/2012	Insp. Update Date: 12/14/2012	(162) Fence-Ht: 0.0 Ft	(163) Noise Barr: N	(94) Desig Insp Freq: 12 Months			
SFNs Replacing this retired bridge: -		INV Field Bridge Marker: ALL-M0270-0423 -		SFNs That where replaced by this bridge: -		INT Field Bridge Marker: ---	
This bridge was retired and copied to:				The bridge was copied from:			

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

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Bridge Number **ALL ML270 0423**
CO ROUTE UNIT

LIMA

Date Built **07/01/1923 - 1989**

District **01** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 52 N&W RAILRD - S DIXIE HWY**

ALL

DECK		Out/Out 29.3			THCK = 1.0	
1. Floor	1-REINF CONCRT (PRESTRSD	8	1	2. Wearing Surface	2-INTEGRAL CONCRETE (MON	41
					W.S. Date = 07/01/1990	
3. Curbs, Sidewalks, Walkways	1-CONCRETE	9	1	4. Median		42
5. Railing	7-STL GUARDRL ON STL, CO	10	1	6. Drainage	3-SCUPPERS & DWNSPTS	43
7. Expansion Joints	8-ELASTOMERIC STRIP SEAL	11	1	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=308				
9. Alignment		12	1	10. Beams/Girders/Slab	3-WELDED BUILT-UP STEEL	45
11. Diaphragms or Crossframes	TOT.LGTH=538	13		12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	2	16. Diagonals		48
17. End Posts		16	2	18. Top Chord		49
19. Lower Chord		17	2	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19	2	24. Bearing Devices	3-SLIDING (BRONZE) 0-OTHER	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1989	54
29. Pins/Hangers/Hinges		22	2	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		2-CONCRETE		PIERS=6	SPANS = 7	
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD	59
39. Fenders and Dolphins		27		40. Scour	N-BRIDGE NOT OVER WATERW	60
41. Slope Protection	3-RIP RAP (ROCK)	28	1	42. Summary	DIVE DT=N/A	62
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					X-N/A	
51. Alignment		33		52. Protection		67
53. Waterway Adequacy		34		54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	2	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=28.0	37	2	60. Summary	PCT.LEGAL=120	71
GENERAL					ROUTINE.RESP: 3-COUNTY	
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=16.0 UND=11.9	39		64. Utilities		73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

76 PE

J H
78 INITIALS

SIGNED

6 6 2 3 2
81 PE

B R
83 INITIALS

DOT 2852

DECK AREA 15,780

Date 0 9 2 7 1 2
86 91

1 0 0 0 N N N N
92 69 Survey 99

Date 1 2 1 4 1 2
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

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1 Structure File Number 7

Bridge Number **ALL** **ML270** **0423**
CO ROUTE UNIT

Date Built 07/01/1923 - 1989

District **01** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 5 2**

N&W RAILRD - S DIXIE HWY

00 NO REMARKS FOUND FOR THIS INSPECTION.
