

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] Columbiana County [029] Middleton [49784] 1.5 MI E SR170 40-45-12 = 40.753333 080-32-24 = - 80.540000

1538209 Highway agency district 11 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! PANCAKE-CLARK.1031 Toll On free road [3] Features intersected NORTH FORK LITTLE BEAVER

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

1 Truss - Thru [10] 0 Other [00] Year built #Num! Year reconstructed 2008

Skew angle 0 Structure Flared Historical significance Bridge is eligible for the NRHP. [2]

Total length 44.8 m = 147.0 ft Length of maximum span 43.9 m = 144.0 ft Deck width, out-to-out 4.3 m = 14.1 ft Bridge roadway width, curb-to-curb 3.9 m = 12.8 ft

Inventory Route, Total Horizontal Clearance 3.9 m = 12.8 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 ft

Deck structure type Open Grating [3]

Type of wearing surface Other [9]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 16.5 metric ton = 18.2 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 24.9 metric ton = 27.4 tons

Bridge posting 20.0 - 29.9 % below [2] Design Load

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	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - substructure	<input type="text" value="Very Good [8]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Excellent [9]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Equal to present desirable criteria [8]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="55.3"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="August 2010 [0810]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="August 2010 [0810]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

Unit of Measure: **English**
Structure File Number **1538209**
Sufficiency Rating: **55.3**

Bridge Inventory Information
Inventory Bridge Number: **COL T1031 0217 26**
ON NORTH FORK LITTLE BEAVER

Report Date **03/21/2013** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **12/19/2012**

District: **11** County **COLUMBIANA** (101) Location: **1.5 MI E SR170** (102) Facility Carried: **PANCAKE-CLARK.1031**
(2) FIPS Code: **MIDDLETON TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **ONE LANE FOR 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** (Under): **WATERWAY**

Inventory Route Data
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** (63) Main Spans Number: 1 Type: **STEEL / TRUSS / THRU**
Route No.: **T1031** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **144** Ft (66) Overall Leng: **147** Ft

(4) Feature Intersected: **NORTH FORK LITTLE BEAVER** (70) Substructure (71) Foundation and Scour Information
(5) County: **MID** Mileage: **0217** Special Desig: **26** Abut-Rear Matl: **CONCRETE AND STONE** Type: **SOLID WALL** Fnd: **OTHER**
(6) Avg. Daily Traffic(ADT): **60** (7) ADT Year: **1951** Abut-Fwd Matl: **CONCRETE AND STONE** Type: **SOLID WALL** Fnd: **OTHER**
(8) Truck Traf: **0** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable** 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)**

Intersected Route Data
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **NN** Other: **NN** Other: **NN**
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(23) Feature Intersected: (189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **NONE**
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

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

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **12.7** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **22.0** 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: **04** Miles
(39) Latitude: **40 Deg 45.2 Min** Longitude: **80 Deg 32.4 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (42) Major Rehabilitation: **01/01/2008**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **19** Ft (50) Brg. Rdw Width: **12.7** Ft
(51) Deck Width: **14.0** Ft Deck Area: **2056** Sq. Ft

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OPENING THRU CURBS OR WHEEL GRDS**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **OTHER**
Thickness: **0.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal

(48) Design Load: **UNKNOWN [DEFAULT]** (Including calculated Items)
(83) Operating: **28** Ton
Inventory: **18** Ton
Ohio Percent of Legal Load **80** (88) Waterway Adequacy **8**
Year of Rating: **2008** (89) Approach Alignment **5**
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS** Calc Gen Appraisal: **5**
(85) Rate Soft: **COMBINATION** Analyzed by: **RAH** Calc Deck Geometry: **4**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **NONE**
(110) Approach Pavement: **BRICK** (111) Grade: **GOOD**

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 **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **OTHER/NONE**
(126) Navigation: **Control- N** 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: **2012-08-23**
(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: **0** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **1538209**
 Sufficiency Rating: **55.3**

Bridge Inventory Information
 Inventory Bridge Number: **COL T1031 0217 26**
ON NORTH FORK LITTLE BEAVER

Report Date **03/21/2013** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **12/19/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: PENN BRIDGE WORKS (T. B. WHITE & SONS -		Hist Build Year: 1893		(143) Contractor:			
(69) Hist Type: PRATT (PINNED)				(144) Ohio Original Construction Project No.:			
(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: N			
(90) Type Work: -		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. 000000 / 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: 2032		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 9	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: N	(161) Lighting: N	Gas: N	Fencing: N	(184) Signs-on: N	
(I-32) Superstructure: 6	Transitions: 1 MEETS CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N	Telephone: N	Splash-Guard: N	Signs-Under: N	
(I-42) Substructure: 8	Guardrail: 1 MEETS CURRENT STANDARDS	TV Cable: N	Catwalks: N	Water: N	Other-Feat: N	(162) Fence-Ht: 0.0 Ft	
(I-50) Culvert: 8	Rail Ends: 1 MEETS CURRENT STANDARDS	Other: N	Other-Feat: N	(163) Noise Barr: N			
(I-54) Channel: 8	In Depth: 1 MEETS CURRENT STANDARDS						
(I-60) Approaches: 8	Fracture Critical: 0 DOES NOT MEET CURRENT STANDARDS						
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A						
(I-66) Operational Status: P	Critical Findings: N NONE N/A						
Inspection Date: 08/23/2012	Insp. Update Date: 11/20/2012						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge: -		-		INV Field Bridge Marker: COL-T1031-0217 -26			
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

1	5	3	8	2	0	9
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Bridge Number **COL T1031 0217 26** MIDDLETON TWP
CO ROUTE UNIT

Date Built **07/01/1900 - 2008**

District **11** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 NORTH FORK LITTLE BEAVER**

COL

DECK		Out/Out 14.0	1	THCK = 0.0	1
1. Floor	5-STEEL GRID - OPEN	8	1	2. Wearing Surface	0-OTHER 41
		N-NONE		W.S. Date =	
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median	42
5. Railing	7-STL GUARDRL ON STL, CO	10	1	6. Drainage	2-OPENING THRU CURBS OR 43
7. Expansion Joints	N-NONE	11		8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=144	1		
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES 45
		TOT.LGTH=147			
11. Diaphragms or Crossframes		13		12. Joists/Stringers	46
13. Floor Beams		14	1	14. Floor Beam Connections	47
15. Verticals		15	1	16. Diagonals	48
17. End Posts		16	1	18. Top Chord	49
19. Lower Chord		17	1	20. Lower Lateral Bracing	50
21. Top Lateral Bracing		18		22. Sway Bracing	51
23. Portals		19	1	24. Bearing Devices	0-OTHER 52 N-NONE
25. Arch		20		26. Arch Columns or Hangers	53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 06/15/1980 54
29. Pins/Hangers/Hinges		22	1	30. Fatigue Prone Connections	55
31. Live Load Response		23	S	32. Summary	56
SUBSTRUCTURE		3-CONCRETE AND STONE	1	PIERS=0	SPANS = 1
33. Abutments	3-CONCRETE AND STONE	24	1	34. Abutment Seats	57
35. Piers	TYPE = N-NONE	25		36. Pier Seats	58
37. Backwalls		26	1	38. Wingwalls	ABUTMENT:=OTHER / OTHER 59
39. Fenders and Dolphins		27		40. Scour	8-STABLE: EVAL SCOUR ABO 60
41. Slope Protection	N-NONE	28		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					
51. Alignment		33	1	52. Protection	N-NONE 67
53. Waterway Adequacy		34	1	54. Summary	68
APPROACHES					
55. Pavement	3-BRICK	35	1	56. Approach Slabs	69
57. Guardrail	N-NONE	36		58. Relief Joints	70
59. Embankment	BRDG.WIDTH=12.7	37	1	60. Summary	PCT.LEGAL=80 71
GENERAL					
61. Navigation Lights		38		62. Warning Signs	ROUTINE.RESP: 3-COUNTY MAINT.RESP: 3-COUNTY 72
63. Sign Supports	MVC ON=22.0 UND=0000	39		64. Utilities	73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status	74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

T	A	H
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78 INITIALS

SIGNED

	6	5	5	7	8
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81 PE

T	A	G
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83 INITIALS

DOT 2852

DECK AREA 2,056

Date

0	8	2	3	1	2
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86

91

1	1	1	1	1	0	N	N
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92

69 Survey

99

Date

0	9	2	6	1	2
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100

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1	5	3	8	2	0	9
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1 Structure File Number 7

Bridge Number **COL T1031 0217 26**
CO ROUTE UNIT

Date Built 07/01/1900 - 2008

District **11** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

NORTH FORK LITTLE BEAVER

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NO REMARKS FOUND FOR THIS INSPECTION.
