

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] 0.2 MI E SR170 40-46-30 = 40.775000 080-32-36 = - 80.543333

1530291 Highway agency district 11 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! CARMEL ACHOR 1026 Toll On free road [3] Features intersected LITTLE BEAVER CREEK

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

1 Truss - Thru [10] 0 Other [00] Year built 1992 Year reconstructed 2002

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

Total length 48.8 m = 160.1 ft Length of maximum span 47.5 m = 155.8 ft Deck width, out-to-out 4.8 m = 15.7 ft Bridge roadway width, curb-to-curb 4.4 m = 14.4 ft

Inventory Route, Total Horizontal Clearance 4.5 m = 14.8 ft Curb or sidewalk width - left 0.3 m = 1.0 ft Curb or sidewalk width - right 0.3 m = 1.0 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 0.3 km = 0.2 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 12.3 metric ton = 13.5 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 18.1 metric ton = 19.9 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	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	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 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	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection		Sufficiency rating	48.7
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	August 2010 [0810]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2010 [0810]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **1530291**
Sufficiency Rating: **50.0 fo**

Bridge Inventory Information
Inventory Bridge Number: **COL T1026 0180 14**
ON LITTLE BEAVER CREEK

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: **0.2 MI E SR170** (102) Facility Carried: **CARMEL ACHOR 1026**
(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.: **T1026** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **156** Ft (66) Overall Leng: **160** Ft

(4) Feature Intersected: **LITTLE BEAVER CREEK** (70) Substructure (71) Foundation and Scour Information
(5) County: **MID** Mileage: **0180** Special Desig: **14** Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **OTHER**
(6) Avg. Daily Traffic(ADT): **600** (7) ADT Year: **1975** Abut-Fwd Matl: **STONE** Type: **GRAVITY** 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 On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **14.6** Ft
(155) Prac Max Vert On Brg: **20.0** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **9999.9** 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: **02** Miles
(39) Latitude: **40 Deg 46.5 Min** Longitude: **80 Deg 32.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1992** (42) Major Rehabilitation: **01/01/2002**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **15** Ft (50) Brg. Rdw Width: **14.6** Ft
(51) Deck Width: **15.8** Ft Deck Area: **2530** Sq. Ft

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **1** Ft (right) **1** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **TIMBER** Type: **NONE**
(Right) Matl: **TIMBER** 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)**

(63) Main Spans Number: 1 Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **156** Ft (66) Overall Leng: **160** Ft
(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **OTHER**
Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **OTHER**
Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
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: **NN** Other: **NN** Other: **NN**
(86) Stream Velocity: **UUU** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (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: **H/10** (Including calculated Items)
(83) Operating: **20** Ton
Inventory: **14** Ton
Ohio Percent of Legal Load **55** (88) Waterway Adequacy **8**
Year of Rating: **2009** (89) Approach Alignment **8**
(84) Analysis: **ALLOWABLE STRESS OR WORKING STRESS** Calc Gen Appraisal: **3**
(85) Rate Soft: **COMBINATION** Analyzed by: **RAH** Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (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: **SLIDING (BRONZE)/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: **2012-08-29**
(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 **1530291**
 Sufficiency Rating: **50.0 fo**

Bridge Inventory Information
 Inventory Bridge Number: **COL T1026 0180 14**
ON LITTLE BEAVER CREEK

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: DAVID H. MORRISON		Hist Build Year: 1882		(143) Contractor:			
(69) Hist Type: DOUBLE INTERSECTION PRATT (WHIPPLE)				(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. / 020			
(90) Roadway Cost (\$1000s): 0				2.			
(90) Total Project Cost (\$1000s): 0		(90) Year:		3.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033		4.			
				5.			
				6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: N	(161) Lighting: N				
(I-32) Superstructure: 6	Transitions: 1 MEETS CURRENT STANDARDS	Gas: N	Fencing: N				
(I-42) Substructure: 7	Guardrail: 1 MEETS CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N				
(I-50) Culvert:	Rail Ends: 1 MEETS CURRENT STANDARDS	Telephone: N	Splash-Guard: N				
(I-54) Channel: 8	In Depth: 1 MEETS CURRENT STANDARDS	TV Cable: N	Catwalks: N				
(I-60) Approaches: 8	Fracture Critical: 0 DOES NOT MEET CURRENT STANDARDS	Water: N	Other-Feat: N				
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A	Other: N	(184) Signs-on: N				
(I-66) Operational Status: P	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 08/29/2012	Insp. Update Date: 11/20/2012		(162) Fence-Ht: 0.0 Ft				
(94) Desig Insp Freq: 12 Months			(163) Noise Barr: N				
SFNs Replacing this retired bridge: -							
SFNs That where replaced by this bridge: -							
This bridge was retired and copied to:							
The bridge was copied from:				INV Field Bridge Marker: COL-01026-0180 -14			
				INT Field Bridge Marker: ---			

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	0	2	9	1
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Bridge Number **COL T1026 0180 14** MIDDLETON TWP
CO ROUTE UNIT

Date Built **07/01/1992 - 2002**

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

Type Service **1 15 LITTLE BEAVER CREEK**

COL

DECK		Out/Out 15.8	1	THCK = 0.0		1
1. Floor	5-STEEL GRID - OPEN	8	1	2. Wearing Surface	0-OTHER	41
3. Curbs, Sidewalks, Walkways		3-TIMBER	1	W.S. Date =		
		3-TIMBER	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=156	1	10. Beams/Girders/Slab		N-N/A (CULVERTS, TRUSSES)
9. Alignment		12	1	12. Joists/Stringers		46
11. Diaphragms or Crossframes		TOT.LGTH=160	13	14. Floor Beam Connections		47
13. Floor Beams		14	1	16. Diagonals		48
15. Verticals			2	18. Top Chord		49
17. End Posts		16	1	20. Lower Lateral Bracing		50
19. Lower Chord			1	22. Sway Bracing		51
21. Top Lateral Bracing			1	24. Bearing Devices		3-SLIDING (BRONZE) N-NONE
23. Portals		19	1	26. Arch Columns or Hangers		53
25. Arch			1	28. Protective Coating System		TYPE = 0-OTHER DATE = 01/01/1974
27. Spandrel Walls		21	1	30. Fatigue Prone Connections		55
29. Pins/Hangers/Hinges			2	32. Summary		56
31. Live Load Response		23	S			6
SUBSTRUCTURE		1-STONE	1	PIERS=0		SPANS = 1
33. Abutments	1-STONE	24	1	34. Abutment Seats		57
35. Piers		TYPE = N-NONE	25	36. Pier Seats		58
37. Backwalls			1	38. Wingwalls		ABUTMENT:=OTHER / OTHER
39. Fenders and Dolphins			1	40. Scour		8-STABLE: EVAL SCOUR ABO
41. Slope Protection		N-NONE	28	42. Summary		DIVE DT=N/A
CULVERTS				44. Alignment		63
43. General		29		46. Seams		64
45. Shape		30		48. Scour		65
47. Headwalls or Endwalls		31		50. Summary		66
49.		32				
CHANNEL				52. Protection		N-NONE
51. Alignment		33	1	54. Summary		68
53. Waterway Adequacy		34	1			
APPROACHES				56. Approach Slabs		69
55. Pavement	2-BITUMINOUS	35	1	58. Relief Joints		70
57. Guardrail	1-STEEL BEAM	36	1	60. Summary		PCT.LEGAL=55
59. Embankment	BRDG.WIDTH=14.6	37	1			71
GENERAL				ROUTINE.RESP: 3-COUNTY		1
61. Navigation Lights		38		62. Warning Signs		MAINT.RESP: 3-COUNTY
63. Sign Supports	MVC ON=9999 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 2,530

Date

0	8	2	9	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

105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

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

Bridge Number **COL T1026 0180 14**
CO ROUTE UNIT

Date Built 07/01/1992 - 2002

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

Type Service **1 15**

LITTLE BEAVER CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
