HistoricBridges.org - National Bridge Inventory Data Sheet

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							40-43-42.00 =	080-36-42.00
Ohio [39]	Columbiana County [0)29]	Middleton [49784]	1.3 MI S C428			40-43-42.00 = 40.728333	= -80.611667
1537741 Highway agency district 11		Owner County Highway Agency [02] Maintenance responsibility		responsibility	County Highway Agency [02]			
Route #Num!	ЕСНО	DELL RD 929	Toll On fre	ee road [3]	Features intersec	ted LITTLE BEA	VER CREEK	
Design - Steel [3] main 1 Truss - Th	ru [10]	Design - approach O Other	[00]	Kilometerpoint 0 Year built 1909 Skew angle 0	km = 0.0 mi Year red Structure Fl	onstructed 2009		
				Historical significance	e Bridge is	eligible for the N	IRHP. [2]	
Total length 39.3 m	= 128.9 ft Leng	yth of maximum spa	an 38.7 m = 127.0 ft	Deck width, out-to-	out 4.9 m = 16.1	ft Bridge road	dway width, curb-to-c	urb 3.8 m = 12.5 ft
Inventory Route, Tota	Inventory Route, Total Horizontal Clearance 3.8 m = 12.5 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right							
Deck structure type	Ор	en Grating [3]						
Type of wearing surfa	oth Oth	her [9]						
Deck protection								
Type of membrane/wearing surface								
Weight Limits Bypass, detour lengt 1 km = 0.6 mi	Method to determine Method to determine Bridge posting	, ,		0	ventory rating perating rating	3.6 metric ton = 4.9 metric ton =		
	bridge positing			D	esign Load			

Functional Details								
Average Daily Traffic 80 Average daily to	ruck traffi 0 % Year 1951 Future average daily traffic 111 Year 2032							
Road classification Local (Rural) [09]	Lanes on structure 1 Approach roadway width 6.1 m = 20.0 ft							
Type of service on bridge Highway [1]	Direction of traffic One lane bridge for 2 - way traffic [3] Bridge median							
Parallel structure designatio No parallel structure	e exists. [N]							
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control							
Navigation vertical clearanc								
Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway 3.81 m = 12.5 ft								
Minimum lateral underclearance reference feature F	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 Work to be done by owner's forces [2]							
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost \$8,000 Roadway improvement cost \$1,000							
actionation of inducquate strongth. [50]	Length of structure improvement 4 m = 13.1 ft Total project cost \$9,000							
	Year of improvement cost estimate 2006							
	Border bridge - state Border bridge - percent responsibility of other state							
	Border bridge - structure number							

Inspection and Sufficiency							
tructure status Posted for load [P]		Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]				
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]				
Condition ratings - substructure	Good [7]	Appraisal ratings -	Basically intolerable requiring high priority of corrrective action [3]				
Condition ratings - deck	Good [7]	deck geometry					
Scour	Bridge foundations determin	ned to be stable for the asso	sessed or calculated scour condition. [8]				
Channel and channel protection	Banks are protected or well required or are in a stable c		devices such as spur dikes and embankment protection are not				
Appraisal ratings - water adequac	Equal to present desirable	criteria [8]	Status evaluation				
Pier or abutment protection			Sufficiency rating 23.3				
Culverts Not applicable. Used	if structure is not a culvert. [N]						
Traffic safety features - railings	Inpected fe	eature meets currently acce	eptable standards. [1]				
Traffic safety features - transition		eature meets currently acce					
Traffic safety features - approach	n guardrail Inpected fe	eature meets currently acce	eptable standards. [1]				
Traffic safety features - approach	n guardrail ends Inpected fe	feature meets currently acceptable standards. [1]					
Inspection date July 2013 [07	Designated ins	pection frequency 12	Months				
Underwater inspection	Not needed [N]	Underwater inspec	ection date				
Fracture critical inspection	Every two years [Y24]	Fracture critical ins	nspection date August 2012 [0812]				
Other special inspection	Not needed [N]	Other special insp	pection date				

(203) Bridge (Dedicated) Name:		BRIDGE INVENTORY AND APPR	AISAL	Report Date: 7/11/2018		
Structure File Number: 1537741		Inventory Bridge Number: COL T0929	9 01050 32			
Sufficiency Rating: 024.9 Deficiency Rating: FO		LITTLE BEAVER CREEK		Bridge Status: Active		
(2) District: 11 (3) County: 15-COLUMBIANA		(9) Location: 1.3 Mi		(7) Facility Carried: Echo Dell Rd 929		
(4) FIPS Code: COL-T-49784-MIDDLETON TWP Owner: COUNTY (102) Direction of Traffic: 3 - One Lane Bridge For 2-Way (103) Temporary Structure:		(208) Route On Bridge: Township (110) Designated National Network: Not National Network		(207) Route Under Bridge: Non Highway Traffic On Bridge (I.E. (101) Parallel: N		
Te-tti-		(42A) Type Serv: (On): Highway		(42B) Type Serv (Under): Waterway		
INVENTORY RO	OUTE DATA	(45) Main Spans Number: 1	(43) Type: Steel/Truss/Thru			
(5A) Route On/Under: 1 - Route Carried "On" The Structure		(46) Approach Spans Nbr: 0	(44) Type: None/None/None			
(5B) Hwy Sys: 4 - County Highway (Township Highway)		(307) Total Spans: 1	(48) Max Span: 127.0 Ft	(49) Overall Leng: 129.0 Ft		
(5D) Route No: T0929 (5E) Dir: Not Applic (5C) Des: Mainline		(307) Total Spans. 1		. ,		
(6) Feature Int: Little Beaver Creek (200) CL: 01050 (201)Spec Des:32 (209) Interstate Mile:			SUBSTRUCT			
(29) Avg. Daily Traffic(ADT): 324	(30) ADT Year: 2015	Abut-Rear (532) Matl: Stone	(531) Type: Solid Wall	(533) Fnd: Other		
	(104) NHS: non-nhs bridge - 0	Abut-Fwd (527) Matl: Stone	(526) Type: Solid Wall	(528) Fnd: Other		
(26) Functional Class: rural - local	(100) Strahnt: Not Strahnet		. ,	` '		
INTERSECTED ROUTE DATA		Pier-Pred (535) Matl: None	(534) Type: None	(536) Fnd: None (Such As Most Culverts)		
(370A) Record Type:	(370B) Hwy Sys:					
	70D) Route No: (370E) Dir: (370C) Des:		(113) Scour: Bridge Foundations De	etermined To Be Stah		
(373) Feature Int: (382) CL: 0000 (371) Interstate Mile:	(387) Special Desig:	(663) Stream Velocity: 00000 fps	. ,	Sommod To Bo Glab		
(379) Avg. Daily Traffic(ADT):	(380) ADT Year:	(92B) Underwater Inspection: N Freq:	(655) Chan Prot: None			
(381) Truck Traf: (384) Corridor:	(378) NHS: Non-Nhs Bridge - 0	(93B) Date of last Underwater Insp:	(657) Drainage Area: UUU Sq Mi			
(375) Functional Class:	(386) Strahnt:	CLEARANCE UNDER THE BRIDGE				
CLEARANCE ON		Min. Horiz Under Clear:	(326) NC: 0.0 Ft	(325) Card: 0.0 Ft		
Min. Hriz on Bridge: (335) NC: 0.0 Ft (53) Prac Max Vert On Brg: 12.5 Ft	(47) Card: 12.5 Ft	(328) Prac Max Vrt Under Clear: 0.0 F	, ,	,		
Min Vrt Clr On Brg: (336) NC: 0.0 Ft	(10) Card: 12.5 Ft	, ,	· ·			
Min Latl Clr: (338) Right NC: 0.0 Ft	(337) Right Card: 0.0 Ft	Min Vert Under Clear:	(327) NC: 0.0 Ft	(54) Card: 0.0 Ft		
	(339) Left Card: 0.0 Ft	Min Lat Under Clear:	(329) Right NC: 0.0 Ft	(55) Right Card: 0.0 Ft		
(6.6) 2511161 516 11	(655) 251 5414. 515 . 1		(330) Left NC: 0.0 Ft	(56) Left Card: 0.0 Ft		
STRUCTURE IN	FORMATION	LOAD RATING INF	ORMATION	APPRAISAL		
(19) Bypass Length: 6.0 Miles		(31) Design Load: UNKNOWN		(71) Waterway Adequacy: 8 Equal to present desirable criteria		
(16) Latitude: 40 Deg 43 Min 39.48 Sec (17) I	Longitude: 80 Deg 36 Min 40.48 Sec	(64) Opr Rat Fact/Ton: 6.000		(72) Approach Alignment: 5 Somewhat better than minimum adequac		
(20) Toll: On Free Road, The Structure Is Toll I	Free	(66) Inv Rat Fact/Ton: 5.000		(67) Calc Str Appraisal: 3 - Intolerable - high priority of corrective acti		
(263) Date Built: 7/1/1909 (264)	Major Reconstruction Date: 2/12/2009			(68) Calc Deck Geometry: 2 - Intolerable - high priority of replacemen		
(28A) No. Lanes On: 1 (28B)	(28A) No. Lanes On: 1 (28B)No. Lanes Under: 0		Soft: Assigned Rating (No	(69) Calc Underclearance: N - Not Applicable		
(301) Horiz Curve: (34)	Skew: 0 Deg	(63) Opr Rat Method: Field Evaluation And Documented Engineer				
(32) App. Rdw Width: 20 Ft (51) I	(32) App. Rdw Width: 20 Ft (51) Brg. Rdw Width: 12.5 Ft		d Documented Engineer			
(52) Deck Width: 16.2 Ft (424)	(52) Deck Width: 16.2 Ft (424) Deck Area: 2088 Sq. Ft		Load Rater: (705) Troy (706) Graft (707) PE#: 65578			
(406) Median Type: /Non Barrier/No Joint	(406) Median Type: /Non Barrier/No Joint		APPROACH INFORMATION (401) Approach Guardrail: Steel Beam			
(33) Bridge Median: No Median		(403) Approach Pavement: Bituminous	(4	402) Grade: Good		
Sidewalks: (50A) Left 0.0 Ft (50B) Right 0.0 Ft		CULVERT INFORMATION				
Type Curb or Sidewalk:		(575) Culvert Type: Not A Culvert Or Rigi	d Frame (5	78) Length: 0.0 Ft		
(427) Left Matl: None (428)	Type: None Or N/A (Rr, Pedestrian, Etc.)	(580) Depth of Fill: 0.0 Ft		82) Headwalls: None Or Not Applicable (Not A Culvert)		
(429) Right Matl: None (430)	Type: None Or N/A (Rr, Pedestrian, Etc.)	CENERAL INFORMATION				
(35) Flared: 0 (408) Compo			(475) Main Member: Not Applicable (Culverts, Trusses, Arche (477) Moment Plate: No Moment Plates			
(407) Railing: Steel Guardrail On Steel, Concre	ete Or Ti	(414) Expansion Joint: Open (Unarmored)				
(409) Deck Drainage: Over The Side (With Drip		(453) Bearing Devices: Other (38) Navigation: 0	(39) Nav Vert Clr: 0.0 Ft (4	10) Nov Horiz Cloor: 0.0 Et		
		(50) Navigation. 0	(Ja) INAV VEILOII. U.U FL	40) Nav Horiz Clear: 0.0 Ft		

(203) Bridge (Dedicated) Name	:	BRIDGE INVENTORY AND APPRAISAL			Report Date: 7/11/2018		
Structure File Number: 1537741			per: COL T0929 01050 32				
Sufficiency Rating: 024.9 Defi		LITTLE BEAV	ZER CREEK		Bridge Status: Active		
(107) Deck Type: Steel Grid - Op		(92C) Spec Insp: N	Freq: 0		(93C) Special Inspection Date:		
	: Not Applicable (Only For Bridges For No	(92A) Fracture Critical Ins	•	(93A) Fracture Critical Feature	Inspection Date: 8/2/2016		
` '	ot Applicable (Applies Only To Bridges	(474) Main Structure System: Two Trusses (Riveted) (468) Hinges: Pins, Pin Plates (467) Structure Structure System: Two Trusses (Riveted)					
(108A) Wearing Surface: Other	Data of Waaring Surface: 2/12/2000	(487) Structural Steel Memb: Unknown (465) Framing: None Or Not Applicable					
(423) Thickness: 4.0 in (422) (547) Slope Protection: None	Date of Wearing Surface: 2/12/2009	(482) Paint: Other Paint (426) Bridge Railing Steel: U (483) PCS Date: 6/20/1976					
	AN INFORMATION (CONTINUED)	(33)		NAL PLANS INFORMATION			
(37) Hist Significance: Eligible Fo	AL INFORMATION (CONTINUED)	(250) Fabricator:	OKIGI	NAL FLANS IN ORMATION			
(112) NBIS: Y	Transfer Conference	(249) Contractor:					
(842) Hist/Designer: Central Con	struction Co	(248) Ohio Original Const	ruction Project No:				
(827) Hist Build Year: 1909	Struction 60	(252) Microfilm Reel:					
		(251) Standard Drawing:					
(828) Hist Type: Pratt (Pinned)		Aperture Cards:					
(98A) Border Bridge State:		(246) Orig: N					
(98B) Border Bridge Resp:		(246) Orig. N (247) Repair: N					
(99) Border Bridge SFN:							
(114) Future ADT (On Bridge): 45	ROPOSED IMPROVEMENTS 50 (115) Year of Future ADT: 2038	(245) Fabr: N	o Plans Or Information Available For Lo	•			
. ,	,	(709) Rating Source. 0 N					
INSPECTION SUMMARY	SURVEY ITEMS	(2-2)	UTILITIES		CIAL FEATURES		
(58) Deck: 7	(36A) Railings: Meets Acceptable Standards	(265) Electric Line:	N	(283) Lighting:	N		
() -		(266) Gas Line:	N	(431) Fence:	N		
(59) Superstructure: 6	(36B) Transitions: Meets Acceptable Standards	(269) Sanitary Sewer:	N	(433) Glare-Screen:	N		
(60) Substructure: 7	(36C) Guardrail: Meets Acceptable Standards	(267) Telephone Line:	N	(436) Splash-Guard:	N		
		(268) TV Cable:	N	(459) Catwalks:	N		
(62) Culvert: N	(36D) Guardrail Ends: Meets Acceptable Standards	(270) Water Line:	N	(271) Other-Feat:	N		
(61) Channel: 8	(219) Temporary Barrier: N	(271) Other Utilities:	N	(279) Signs-On:	N		
(C6) Approaches: 8	(223) Temporary Shoring: N			(281) Signs-Under	N		
(00) / ipp. odo. ioo. o	(225) remperary enemigers			(432) Fence-Ht on Bridge	0.0 FT		
0	(004) T Out Dlin N						
General Appraisal: 6	(224) Temporary Sub Decking: N			(434) Noise Barrier Walls	N		
General Appraisal: 6 (41) Operational Status: P	(224) Temporary Sub Decking: N	1	3 - County Agency	(434) Noise Barrier Walls	N		
	(224) Temporary Sub Decking: N	2nd:		(434) Noise Barrier Walls	N		
(41) Operational Status: P	(224) Temporary Sub Decking: N	2nd: 3rd:		(434) Noise Barrier Walls	N		
(41) Operational Status: P (90) Inspection date: 9/19/2017 (91) Desig Insp Freq: 12 Mos		2nd: 3rd: (21) Major Maint 1st:	3 - County Agency	(434) Noise Barrier Walls	N		
(41) Operational Status: P (90) Inspection date: 9/19/2017 (91) Desig Insp Freq: 12 Mos (253) SFNs Replacing this retired	d bridge:	2nd: 3rd: (21) Major Maint 1st: 2nd:	3 - County Agency	(434) Noise Barrier Walls	N		
(41) Operational Status: P (90) Inspection date: 9/19/2017 (91) Desig Insp Freq: 12 Mos	d bridge:	2nd: 3rd: (21) Major Maint 1st: 2nd: 3rd:	3 - County Agency	(434) Noise Barrier Walls	N		
(41) Operational Status: P (90) Inspection date: 9/19/2017 (91) Desig Insp Freq: 12 Mos (253) SFNs Replacing this retired	d bridge:	2nd: 3rd: (21) Major Maint 1st: 2nd: 3rd: (225) Routine Maint 1st:	3 - County Agency 3 - County Agency	(434) Noise Barrier Walls	N		
(41) Operational Status: P (90) Inspection date: 9/19/2017 (91) Desig Insp Freq: 12 Mos (253) SFNs Replacing this retired	d bridge:	2nd: 3rd: (21) Major Maint 1st: 2nd: 3rd:	3 - County Agency 3 - County Agency	(434) Noise Barrier Walls	N		

STATE OF OHIO DEPARTMENT OF TRANSPORTATION **BRIDGE INSPECTION REPORT**

STRUCTURE FILE NUMBER: 1537741 COL T0929 01050 COL-T-49784-MIDDLETON TWP DATE BUILT 07/01/1909 - 2009 CO Route SLM FIPS <u>32</u> SD 1 15 LITTLE BEAVER CREEK District 11 STEEL/TRUSS/THRU Type of Service COL **DECK** Out/Out 16.2 5-STEEL GRID - OPEN THCK= 4.0 0-OTHER 1. Floor 2. Wearing Surface 1 1 N-NONE W.S. Date = 02/12/2009 3. Curbs, Sidewalks & Walkways 4. Median 0-NO MEDIAN 7-STEEL GUARDRAIL ON STEEL, 6. Drainage Railing 1 6-OVER THE SIDE (WITH DRIP STRIP) 1 7 6-OPEN (UNARMORED 8. SUMMARY 7. Expansion Joints Deck Area: 2.088 SUPERSTRUCTURE N-NOT APPLICABLE (CULVERTS, TRUSSES, MAX.SPAN.LENGTH = 127 1 10. Beams/Girders/Slab 9. Alignment of Members TOT.LGTH = 129 11. Diaphragms or Cross Frames 12. Joist/Stringers 1 13. Floorbeams 14. Floorbeam Connections 15. Verticals 1 16. Diagonals 2 17. End posts 18. Upper Chord 2 19. Lower Chord 1 20. Gusset Plates 21. Lateral Bracing 22. Sway Bracing 1 0-OTHER 23. Portals 24. Bearing Devices 1 N-NONE 25. Arch 26. Arch Columns or Hangers TYPE: 00THER PAINT DATE = 06/20/1976 27. Spandrel Walls 28. Protective Coating System (PCS) 1 30. Fatigue Prone Detail (E & E') 29. Pins/Hangers/Hinges ADT: 324 TRUCK: 24 YEAR: 2015 2 31. Live Load Response (E or S) S 32. SUMMARY 6 SUBSTRUCTURE PIERS= # OF SPANS= 1-STONE 33. Abutments 34. Abutment Seats 1 1-STONE 36. Pier Seats 35. Piers TYPE = N-NONI ABUTMENT:=OTHER/OTHE 37. Backwalls 38. Wingwalls 1 8-BRIDGE FOUNDATIONS 39. Fenders and Dolphins 1 40. Scour (Insp Type - 1, 2, 3) DETERMINED TO BE 41. Slope Protection N-NONE 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 Ν **CHANNEL** 51. Alignment 52. Protection N-NONF 53. Hydraulic Opening 54. SUMMARY 8 **APPROACHES** 55. Pavement 2-BITUMINOUS 56. Approach Slabs 1 57. Guardrail 1-STEEL BEAM 58. Relief Joint 59. Embankment BRDG.WIDTH=12.5 60. SUMMARY PCT.LEGAL= 15 8 **GENERAL** ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY 61. Navigation Lights 62. Warning Signs 1 MVC ON=1206 UND=0000 63. Sign Supports 64. Utilities 65. Vertical Clearance (1, 2-change, N) 6 Ρ 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY TH 65,578 TG Print First & Last Name PE Number Initial PE Number Print First & Last Name

Initial

Inspected Date: 9/19/2017

1 69. Survey (1, 0, N) Reviewed Date: 1/8/2018

STATE OF OHIO DEPARTMENT OF TRANSPORTATION **BRIDGE INSPECTION REPORT**

COL CO DATE BUILT 07/01/1909 - 2009 STRUCTURE FILE NUMBER: 1537741 T0929 <u>01050</u> **COL-T-49784-MIDDLETON TWP** Route SLM FIPS

<u>32</u> SD COL District 11 STEEL/TRUSS/THRU Type of Service 1 15 LITTLE BEAVER CREEK