

HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

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]	Morrow County [117]	Westfield [83454]	.7 MI.E.INT.TR152 & CR149		40-25-30 = 40.425000	082-56-06 = - 82.935000
5930529	Highway agency district 6	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]		
Route #Num!	CR149	Toll On free road [3]	Features intersected WHETSTONE CREEK			
Design - main	Aluminum, Wrought Iron or Cast Iron [9]	Design - approach	Kilometerpoint 0 km = 0.0 mi			
1	Truss - Thru [10]	0 Other [00]	Year built 1915	Year reconstructed 1996		
			Skew angle 0	Structure Flared		
			Historical significance Bridge is not eligible for the NRHP. [5]			
Total length	38.7 m = 127.0 ft	Length of maximum span	37.8 m = 124.0 ft	Deck width, out-to-out	4.9 m = 16.1 ft	Bridge roadway width, curb-to-curb
Inventory Route, Total Horizontal Clearance	4.7 m = 15.4 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft	
Deck structure type	Corrugated Steel [6]					
Type of wearing surface	Bituminous [6]					
Deck protection						
Type of membrane/wearing surface						

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	3.6 metric ton = 4.0 tons
0.3 km = 0.2 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	3.6 metric ton = 4.0 tons
	Bridge posting		Design Load	

Functional Details

Average Daily Traffic	161	Average daily truck traffi	4	%	Year	1996	Future average daily traffic	223	Year	2028
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	6.4 m = 21.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	One lane bridge for 2 - way traffic [3]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control				
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	3.05 m = 10.0 ft			
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

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 replacement [2]
Condition ratings - superstructure	Critical [2]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Poor [4]	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	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	17.4
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			
Inspection date	December 2010 [1210]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	December 2009 [1209]
Other special inspection	Not needed [N]	Other special inspection date	

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5

9

3

0

5

2

9

1Structure File Number7

Bridge Number

MRW

C0149

01641

30

WESTFIELD TWP

COROUTEUNIT

Date Built 07/01/1915 - 1996

District 06Bridge TypeWROUGHT IRON/TRUSS/THRUType Service115 WHETSTONE CREEK-CLOSEDMRW

DECK		Out/Out 16.0		THCK = 2.0		
1. Floor	6-CORRUGATED STEEL PLATE	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		N-NONE		W.S. Date = 01/01/1996		
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	1	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	N-NONE	11		8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=124				
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
11. Diaphragms or Crossframes	TOT.LGTH=127	13		12. Joists/Stringers		46
13. Floor Beams		14	3	14. Floor Beam Connections		47
15. Verticals		15	2	16. Diagonals		48
17. End Posts		16	3	18. Top Chord		49
19. Lower Chord		17	3	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19	2	A-SLIDING (OTHER)		
				24. Bearing Devices	N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		TYPE = N-NONE		
				28. Protective Coating System	DATE = 01/01/1959	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	E	32. Summary		56
SUBSTRUCTURE		2-CONCRETE		PIERS=0		SPANS = 1
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	1	ABUTMENT:=UNKNOWN / UNKNOWN		
39. Fenders and Dolphins		27		40. Scour	5-STABLE: SCOUR WITHIN L	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				N-NONE		
51. Alignment		33	2	52. Protection		67
53. Waterway Adequacy		34	1	54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	3	56. Approach Slabs		69
57. Guardrail	5-TIMBER RAIL	36	4	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=15.4	37	3	60. Summary	PCT.LEGAL=0	71
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=10.0 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

4

8

5

7

3

76 PE

SIGNED

D

H

G

78 INITIALS

4

5

8

5

8

81 PE

SIGNED

L

R

B

83 INITIALS

DOT 2852

DECK AREA 2,034

Date

1

2

2

7

1

1

8691

0

0

0

0

0

N

N

N

9269 Survey99

Date

0

3

0

6

1

2

100105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

BR-86 REV 02-95

5	9	3	0	5	2	9
---	---	---	---	---	---	---

Bridge Number **MRW** **C0149** **01641** **30**
CO ROUTE UNIT

Date Built 07/01/1915 - 1996

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU**

Type Service **1** **15**

WHETSTONE CREEK-CLOSED

00 NO REMARKS FOUND FOR THIS INSPECTION.

Unit of Measure: English Structure File Number 5930529 Sufficiency Rating: 17.4 SD			Bridge Inventory Information Inventory Bridge Number:MRW C0149 01641 30 ON WHETSTONE CREEK-CLOSED			Report Date 08/21/2012 BM-191 Page: 1 of 2 BR. Type WROUGHT IRON / TRUSS / THRU Date of Last Inventory Update: 08/23/2011		
District: 06 County MORROW			(101) Location: .7 MLE.INT.TR152 & CR149			(102) Facility Carried: CR149		
(2)FIPS Code: WESTFIELD TWP			(103) Route On Bridge: COUNTY			(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			(63) Main Spans Number: 1			Type: WROUGHT IRON / TRUSS / THRU		
(3) Route On/Under: ON Hwy Sys: COUNTY/TOWNSHIP HIGHWAY			Approach Spans Number: 0			Type: NONE / NONE / NONE		
Route No.: C0149 Dir: Des: MAINLINE Pref:			Total Spans: 1			(65) Max Span: 124 Ft (66) Overall Leng: 127 Ft		
(4) Feature Intersected: WHETSTONE CREEK-CLOSED			(70) Substructure			(71) Foundation and Scour Information		
(5) County: WES Mileage: 01641 Special Desig: 30			Abut-Rear Matl: CONCRETE			Type: GRAVITY Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
(6) Avg. Daily Traffic(ADT): 161 (7) ADT Year: 1996			Abut-Fwd Matl: CONCRETE			Type: GRAVITY Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
(8) Truck Traf: 6 (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)		
Intersected Route Data			Pier-Other Matl: NONE			Type: NONE Fnd: NONE/NOT APPLICABLE (SUCH AS CULVERTS)		
(22) Route On/Under: Hwy Sys:			No of Piers Predominate: NN			Other: NN		
Route No.: Dir: Des: Pref:			(86) Stream Velocity: UUU			(74) Scour: STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE		
(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:			Clearance Under the Bridge					
(27) Truck Traf: 0 (28) NHS: - (29) Corridor:			(156) Min. Horiz Under Clear:			NC: 0.0 Ft Card: 0.0 Ft		
(30) Functional Class: (36) Strahnt: Not Applicable			(157) Prac Max Vrt Under Clear:			0.0 Ft		
Clearance On the Bridge			(77) Min Vert Under Clear:			NC: 0.0 Ft Card: 0.0 Ft		
(154) Min Hriz on Bridge: NC: 0.0 Ft Card: 15.4 Ft			(78) Min Lat Under Clear:			NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft		
(155) Prac Max Vert On Brg: 13.7 Ft			Load Rating Information (88-89) Appraisal					
(67) Min Vrt Clr On Brg: NC: 0.0 Ft Card: 10.0 Ft			(48) Design Load: UNKNOWN [DEFAULT]			(Including calculated Items)		
(80) Min Latl Clr: NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft			(83) Operating: 4 Ton					
(81) Vrt Clr Lft: 0.0 Ft			Inventory: 4 Ton					
Structure Information			Ohio Percent of Legal Load 0			(88) Waterway Adequacy 8		
(38) Bypass Length: 02 Miles			Year of Rating: 2011			(89) Approach Alignment 4		
(39) Latitude: 40 Deg 25.5 Min Longitude: 82 Deg 56.1 Min			(84) Analysis: LOAD FACTOR (LF)			Calc Gen Appraisal: 0		
(40) Toll: ON FREE ROAD			(85) Rate Soft: OTHER Analyzed by: DHT			Calc Deck Geometry: 0		
(41) Date Built: 07/01/1915 (42) Major Rehabilitation: 01/01/1996			Analysis on Bars: NOT ON BARS [DEFAULT]			Calc Underclearance: N		
(43) No. Lanes On: 1 No. Lanes Under: 0			Approach Information					
(44) Horiz Curve: Deg. Min. (45) Skew: 0 Deg			(109) Approach Guardrail: TIMBER RAIL			(111) Grade: POOR		
(49) App. Rdw Width: 21 Ft (50) Brg. Rdw Width: 15.4 Ft			(110) Approach Pavement: BITUMINOUS					
(51) Deck Width: 16.0 Ft Deck Area: 2034 Sq. Ft			Culvert Information					
(52) Median Type: NONE / NON BARRIE / NO JOINT			(131) Culvert Type: NONE/NOT APPLICBLE			(127) Length: 0.0 Ft		
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft			(130) Headwalls: NONE		
(54) Sidewalks: (left) 0 Ft (right) 0 Ft			General Information					
(55) Type Curb or Sidewalks:			(121) Main Member N/A (CULVERTS, TRUSSES, ETC.)			(122) Moment Plate: NONE		
(Left) Matl: NONE Type: NONE			(169) Expansion Joint: NONE					
(Right) Matl: NONE Type: NONE			(124) Bearing Devices: SLIDING (OTHER)/NONE					
(56) Flared: N (57) Composite: non-composite			(126) Navigation: Control- N			Vert Clr: 0.0 Ft		
(58) Railing: STEEL POST & STEEL PANEL (DECORATIVE)			(193) Spec Insp: N			Freq: 0		
(59) Deck Drainage: OVER THE SIDE (W/O DRIP STRIP)			(188) Fracture Critical Insp: Y			Freq: 24		
(60) Deck Type: CORRUGATED STEEL PLATE			(138) Long Member: TWO TRUSSES (RIVETED)			Date: 2009-12-04		
(61) Deck Protection: External: NONE			(141) Structural Steel Memb: WROUGHT IRON			(135) Hinges: NOT APPLICABLE		
Internal: NONE						(139) Framing: NONE		
(62) Wearing Surface: BITUM (ASPHLT CONCRT)						Railing: OTHER		
Thickness: 2.0 in (119) Date of Wearing Surface: 01/01/1996			Pay Wt: 66 pounds			Prime Loc: NONE		
Slope Protection: NONE-NATURAL PROTECTION(GRASS,BUSHES)			Bridge Dedicated Name:			Paint: NONE		

Unit of Measure: **English**
Structure File Number **5930529**
Sufficiency Rating: **17.4 SD**

Bridge Inventory Information
Inventory Bridge Number:**MRW C0149 01641 30**
ON WHETSTONE CREEK-CLOSED

Report Date 08/21/2012 BM-191 Page: 2 of 2
BR. Type **WROUGHT IRON/TRUSS/THRU**
Date of Last Inventory Update: **08/23/2011**

General Information (Continued)				Original Plans Information			
((---) Hist Significance: NOT HISTORIC		(69) NBIS: Y		(142) Fabricator:			
((---) Hist Builder: UNKNOWN		Hist Build Year: 1915		(143) Contractor:			
(69) Hist Type: PRATT (RIVETED)				(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			
		PID Status:		(153) Repair Projects			
(90) Length: Ft		PID Date:		1. / 020		2. / MMM	
(90) Bridge Cost (\$1000s): 0				4.		6.	
(90) Roadway Cost (\$1000s): 0				7.		9.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		10.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2028					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: 0 DOES NOT MEET CURRENT STANDARDS			(46) Electric: N		(161) Lighting: N	
(I-32) Superstructure: 1	Transitions: 0 DOES NOT MEET CURRENT STANDARDS			Gas: N		Fencing: N	
(I-42) Substructure: 4	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS			Sanitary Sewer: N		Glare-Screen: N	
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS			Telephone: N		Splash-Guard: N	
(I-54) Channel: 6	In Depth: 0 DOES NOT MEET CURRENT STANDARDS			TV Cable: N		Catwalks: N	
(I-60) Approaches: 3	Fracture Critical: N NONE N/A			Water: N		Other-Feat: N	
(I-66) General Appraisal: 1	Scour Critical: N NONE N/A			Other: N		(184) Signs-on: N	
(I-66) Operational Status: K	Critical Findings: N NONE N/A					Signs-Under: N	
Inspection Date: 12/27/2011	Insp. Update Date: 03/13/2012					(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: MRW-C0149-01641-30			
				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%