

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]	Gilead [30128]	.2 MI.E.INT.TR128 & TR136		40-32-30 = 40.541667	082-52-06 = - 82.868333
5930146	Highway agency district	6	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]
Route	#Num!		TR136	Toll	On free road [3]	Features intersected
						WHETSTONE
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	1874	Year reconstructed
				Skew angle	0	Structure Flared
				Historical significance	Bridge is eligible for the NRHP. [2]	
Total length	24.7 m = 81.0 ft	Length of maximum span	24.4 m = 80.1 ft	Deck width, out-to-out	4.3 m = 14.1 ft	Bridge roadway width, curb-to-curb
						4.1 m = 13.5 ft
Inventory Route, Total Horizontal Clearance	4.2 m = 13.8 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft	
Deck structure type	Wood or Timber [8]					
Type of wearing surface	Wood or Timber [7]					
Deck protection						
Type of membrane/wearing surface						

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	2.6 metric ton = 2.9 tons
0.5 km = 0.3 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	100	Average daily truck traffi	0	%	Year	1992	Future average daily traffic	139	Year	2027
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	4.6 m = 15.1 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	99.99 m = 328.1 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 corrective action [3]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of replacement [2]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required. [4]		
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	16
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	November 2010 [1110]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2009 [1109]
Other special inspection	Not needed [N]	Other special inspection date	

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BRIDGE INSPECTION REPORT

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5

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3

0

1

4

6

1

Structure File Number

7

Bridge Number

MRW T0136 04082 11

CO ROUTE UNIT

GILEAD TWP

Date Built 07/01/1874 - 2000

District 06 Bridge Type WROUGHT IRON/TRUSS/THRU

Type Service 1 15 WHETSTONE

MRW

DECK		Out/Out 14.0		THCK = 0.0		
1. Floor		2-LAMINATED TIMBER STRIP 8	3	2. Wearing Surface		7-TIMBER 41
3. Curbs, Sidewalks, Walkways		N-NONE 9		4. Median		W.S. Date = 42
5. Railing		6-STEEL POST & STEEL PAN 10	2	6. Drainage		1-OVER THE SIDE (W/O DRI 43
7. Expansion Joints		N-NONE 11		8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=80				
9. Alignment		12	2	10. Beams/Girders/Slab		N-N/A (CULVERTS, TRUSSES 45
11. Diaphragms or Crossframes		TOT.LGTH=81 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		24. Bearing Devices		A-SLIDING (OTHER) N-NONE 52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System		TYPE = N-NONE DATE = 01/01/1950 54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		2-CONCRETE		PIERS=0		SPANS = 1
33. Abutments		3-CONCRETE AND STONE 24	3	34. Abutment Seats		57
35. Piers		TYPE = N-NONE 25		36. Pier Seats		58
37. Backwalls		26	1	38. Wingwalls		ABUTMENT:=UNKNOWN / UNKNOWN 59
39. Fenders and Dolphins		27		40. Scour		4-STABLE: ACTION REQUIRE 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	2	52. Protection		N-NONE 67
53. Waterway Adequacy		34	1	54. Summary		68
APPROACHES						
55. Pavement		2-BITUMINOUS 35	1	56. Approach Slabs		69
57. Guardrail		N-NONE 36		58. Relief Joints		70
59. Embankment		BRDG.WIDTH=13.6 37	3	60. Summary		PCT.LEGAL=35 71
GENERAL						
61. Navigation Lights		38		62. Warning Signs		ROUTINE.RESP: 3-COUNTY MAINT.RESP: 3-COUNTY 72
63. Sign Supports		MVC ON=9999 UND=0000 39		64. Utilities		73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

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76 PE

SIGNED

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78 INITIALS

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81 PE

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83 INITIALS

DOT 2852

DECK AREA 1,130

Date

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69 Survey

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105

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5	9	3	0	1	4	6
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Bridge Number **MRW** **T0136** **04082** **11**
CO ROUTE UNIT

Date Built 07/01/1874 - 2000

District **06** Bridge Type **WROUGHT IRON/TRUSS/THRU** Type Service **1 1 5** **WHETSTONE**

00 NO REMARKS FOUND FOR THIS INSPECTION.

Unit of Measure: English			Bridge Inventory Information			Report Date 08/21/2012 BM-191 Page: 1 of 2		
Structure File Number 5930146			Inventory Bridge Number: MRW T0136 04082 11			BR. Type WROUGHT IRON / TRUSS / THRU		
Sufficiency Rating: 16.0 SD			ON WHETSTONE			Date of Last Inventory Update: 03/20/2012		
District: 06 County MORROW			(101) Location: .2 M.I.E.INT.TR128 & TR136			(102) Facility Carried: TR136		
(2) FIPS Code: GILEAD 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			(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.: T0136 Dir: Des: MAINLINE Pref:			Total Spans: 1			(65) Max Span: 80 Ft (66) Overall Leng: 81 Ft		
(4) Feature Intersected: WHETSTONE			(70) Substructure			(71) Foundation and Scour Information		
(5) County: GIL Mileage: 04082 Special Desig: 11			Abut-Rear Matl: CONCRETE AND STONE Type: GRAVITY			Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
(6) Avg. Daily Traffic(ADT): 100 (7) ADT Year: 1992			Abut-Fwd Matl: CONCRETE Type: GRAVITY			Fnd: UNKNOWN (OR OLDER BRIDGE BEING ADDED)		
(8) Truck Traf: 2 (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: ACTION REQUIRED TO PROTECT FND		
(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: 13.6 Ft			(78) Min Lat Under Clear:			NC: 0.0 / 0.0 Ft Card: 0.0 / 0.0 Ft		
(155) Prac Max Vert On Brg: 9999.9 Ft			Load Rating Information (88-89) Appraisal					
(67) Min Vrt Clr On Brg: NC: 0.0 Ft Card: 9999.9 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: 3 Ton					
Structure Information			Ohio Percent of Legal Load 35			(88) Waterway Adequacy 5		
(38) Bypass Length: 03 Miles			Year of Rating: 2011			(89) Approach Alignment 2		
(39) Latitude: 40 Deg 32.5 Min Longitude: 82 Deg 52.1 Min			(84) Analysis: LOAD FACTOR (LF)			Calc Gen Appraisal: 3		
(40) Toll: ON FREE ROAD			(85) Rate Soft: OTHER Analyzed by: DHT			Calc Deck Geometry: 5		
(41) Date Built: 07/01/1874 (42) Major Rehabilitation: 07/03/2000			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: NONE					
(49) App. Rdw Width: 15 Ft (50) Brg. Rdw Width: 13.6 Ft			(110) Approach Pavement: BITUMINOUS			(111) Grade: CRITICAL		
(51) Deck Width: 14.0 Ft Deck Area: 1130 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			Horiz Clear:: 0.0 Ft		
(58) Railing: STEEL POST & STEEL PANEL (DECORATIVE)			(193) Spec Insp: N Freq: 0			Date:		
(59) Deck Drainage: OVER THE SIDE (W/O DRIP STRIP)			(188) Fracture Critical Insp: Y Freq: 24			Date: 2010-08-10		
(60) Deck Type: LAMINATED TIMBER STRIP			(138) Long Member: TWO TRUSSES (RIVETED)			(135) Hinges: NOT APPLICABLE		
(61) Deck Protection: External: NONE			(141) Structural Steel Memb: NONE			(139) Framing: NONE		
Internal: NONE						Railing: OTHER		
(62) Wearing Surface: TIMBER			Pay Wt: 0 pounds Prime Loc: UNKNOWN			Paint: NONE		
Thickness: 0.0 in (119) Date of Wearing Surface:			Bridge Dedicated Name:					
Slope Protection: NONE-NATURAL PROTECTION(GRASS,BUSHES)								

Report Date 08/21/2012 BM-191 Page: 2 of 2
BR. Type WROUGHT IRON/TRUSS/THRU
Date of Last Inventory Update: 03/20/2012

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%