

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]	Cardington [12098]	.30 MI.E.OF INT.OF TR28	40-33-30 = 40.558333	082-54-48 = - 82.913333
5931509	Highway agency district 6	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	CR11	Toll	On free road [3]	Features intersected WHETSTONE	
Design - main	Concrete [1]	Design - approach		Kilometerpoint	0 km = 0.0 mi
3	Arch - Deck [11]	0	Other [00]	Year built	1924
				Year reconstructed	N/A [0000]
				Skew angle	34
				Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length	48.2 m = 158.1 ft	Length of maximum span	15.9 m = 52.2 ft	Deck width, out-to-out	7.1 m = 23.3 ft
				Bridge roadway width, curb-to-curb	6.1 m = 20.0 ft
Inventory Route, Total Horizontal Clearance	6.1 m = 20.0 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Not applicable [N]				
Type of wearing surface	Bituminous [6]				
Deck protection	Not applicable (applies only to structures with no deck) [N]				
Type of membrane/wearing surface	Not applicable (applies only to structures with no deck) [N]				

**Weight Limits**

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	18.1 metric ton = 19.9 tons
0.5 km = 0.3 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	24.3 metric ton = 26.7 tons
	Bridge posting		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

Posted for load [P]

Appraisal ratings -  
structural

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - superstructure

Serious [3]

Appraisal ratings -  
roadway alignment

Equal to present minimum criteria [6]

Condition ratings - substructure

Serious [3]

Appraisal ratings -  
deck geometry

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - deck

Fair [5]

Scour

Bridge foundations determined to be stable for assessed or calculated scour condition. [5]

Channel and channel protection

Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]

Appraisal ratings - water adequacy

Equal to present desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

30.3

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

October 2010 [1010]

Designated inspection frequency

12

Months

Underwater inspection

Not needed [N]

Underwater inspection date

Fracture critical inspection

Not needed [N]

Fracture critical inspection date

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	1	5	0	9
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Bridge Number **MRW C0011 02858 11** CARDINGTON TWP  
CO ROUTE UNIT

Date Built **07/01/1924**

District **06** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service **1 15 WHETSTONE**

**MRW**

<b>DECK</b>		Out/Out 23.2			THCK = 5.9	
1. Floor	N-NONE 8		2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41	2
	N-NONE			W.S. Date = 01/01/1989		
3. Curbs, Sidewalks, Walkways	N-NONE 9		4. Median		42	
5. Railing	0-OTHER 10	3	6. Drainage	0-OTHER-NATURAL(OFF THE	43	3
7. Expansion Joints	N-NONE 11		<b>8. Summary</b>		44	5
<b>SUPERSTRUCTURE</b>		MAX.SPAN=52				
9. Alignment		12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45	
	TOT.LGTH=158					
11. Diaphragms or Crossframes		13	12. Joists/Stringers		46	
13. Floor Beams		14	14. Floor Beam Connections		47	
15. Verticals		15	16. Diagonals		48	
17. End Posts		16	18. Top Chord		49	
19. Lower Chord		17	20. Lower Lateral Bracing		50	
21. Top Lateral Bracing		18	22. Sway Bracing		51	
23. Portals		19	24. Bearing Devices	N-NONE	52	
				N-NONE		
25. Arch		20	26. Arch Columns or Hangers		53	
27. Spandrel Walls		21	28. Protective Coating System	TYPE = N-NONE	54	
				DATE =		
29. Pins/Hangers/Hinges		22	30. Fatigue Prone Connections		55	
31. Live Load Response		23	<b>32. Summary</b>		56	3
<b>SUBSTRUCTURE</b>		2-CONCRETE		PIERS=2		SPANS = 3
33. Abutments	2-CONCRETE 24	3	34. Abutment Seats		57	3
35. Piers	TYPE = 2-CONCRETE 25	3	36. Pier Seats		58	3
37. Backwalls		26	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD	59	3
39. Fenders and Dolphins		27	40. Scour	5-STABLE: SCOUR WITHIN L 60	60	1 3
41. Slope Protection	N-NONE 28		<b>42. Summary</b>	DIVE DT=N/A	62	3
<b>CULVERTS</b>						
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	
<b>CHANNEL</b>						N-NONE
51. Alignment		33	52. Protection		67	
53. Waterway Adequacy		34	<b>54. Summary</b>		68	4
<b>APPROACHES</b>						
55. Pavement	2-BITUMINOUS 35	2	56. Approach Slabs		69	
57. Guardrail	1-STEEL BEAM 36	1	58. Relief Joints		70	
59. Embankment	BRDG.WIDTH=20.0 37	2	<b>60. Summary</b>	PCT.LEGAL=50	71	6
<b>GENERAL</b>						
61. Navigation Lights		38	62. Warning Signs	ROUTINE.RESP: 3-COUNTY	72	2
	MVC ON=9999 UND=0000			MAINT.RESP: 3-COUNTY		
63. Sign Supports		39	64. Utilities		73	
65. Vertical Clearance		40	<b>66. General Appraisal &amp; Operational Status</b>		74	COND 3 STAT P

67. INSPECTED BY

68. REVIEWED BY

SIGNED

4 8 5 7 3  
76 PE

D H G  
78 INITIALS

SIGNED

4 5 8 5 8  
81 PE

L R B  
83 INITIALS

DOT 2852

DECK AREA 3,660

Date 1 2 2 8 1 1  
86 91

0 0 0 0 0 N N N  
92 69 Survey 99

Date 0 3 0 6 1 2  
100 105

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

BR-86 REV 02-95

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

Bridge Number **MRW C0011 02858 11**  
CO ROUTE UNIT

**Date Built 07/01/1924**

District **06** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service **1 15**

**WHETSTONE**

00 NO REMARKS FOUND FOR THIS INSPECTION.

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Unit of Measure: **English**  
Structure File Number **5931509**  
Sufficiency Rating: **30.3 SD**

**Bridge Inventory Information**  
Inventory Bridge Number: **MRW C0011 02858 11**  
**ON WHETSTONE**

Report Date **08/21/2012** **BM-191** Page: 1 of 2  
**BR. Type CONCRETE / ARCH / FILLED**  
Date of Last Inventory Update: **03/13/2012**

District: **06** County **MORROW** (101) Location: **.30 MILE.OF INT.OF TR28** (102) Facility Carried: **CR11**  
(2) FIPS Code: **CARDINGTON 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**  
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** (63) Main Spans Number: **3** Type: **CONCRETE / ARCH / FILLED**  
Route No.: **C0011** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**  
Total Spans: **3** (65) Max Span: **52** Ft (66) Overall Leng: **158** Ft

(4) Feature Intersected: **WHETSTONE** (70) Substructure (71) Foundation and Scour Information  
(5) County: **CAR** Mileage: **02858** Special Desig: **11** Abut-Rear Matl: **CONCRETE** Type: **STUB GRAVITY** Fnd: **SPREAD FOOTING**  
(6) Avg. Daily Traffic(ADT): **600** (7) ADT Year: **1992** Abut-Fwd Matl: **CONCRETE** Type: **STUB GRAVITY** Fnd: **SPREAD FOOTING**  
(8) Truck Traf: **12** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **GRAVITY** Fnd: **SPREAD FOOTING**  
(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: **02** Other: **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:  
(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: **20.0** Ft  
(155) Prac Max Vert On Brg: **9999.9** 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  
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

**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: **UNKNOWN [DEFAULT]** (Including calculated Items)  
(83) Operating: **27** Ton  
Inventory: **20** Ton  
Ohio Percent of Legal Load **50** (88) Waterway Adequacy **8**  
Year of Rating: **2009** (89) Approach Alignment **6**  
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **3**  
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **3**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

**Structure Information**  
(38) Bypass Length: **03** Miles  
(39) Latitude: **40 Deg 33.5 Min** Longitude: **82 Deg 54.8 Min**  
(40) Toll: **ON FREE ROAD**  
(41) Date Built: **07/01/1924** (42) Major Rehabilitation:  
(43) No. Lanes On: **1** No. Lanes Under: **0**  
(44) Horiz Curve: **Deg. Min.** (45) Skew: **34** Deg  
(49) App. Rdw Width: **26** Ft (50) Brg. Rdw Width: **20.0** Ft  
(51) Deck Width: **23.2** Ft Deck Area: **3660** 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: **OTHER**  
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**  
(60) Deck Type: **NONE**  
(61) Deck Protection: External: **NONE**  
Internal: **NONE**  
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**  
Thickness: **5.9** in (119) Date of Wearing Surface: **01/01/1989**  
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**  
(169) Expansion Joint: **NONE**  
(124) Bearing Devices: **NONE/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: **N** Freq: **0** Date:  
(138) Long Member: **TWO CONCRETE ARCHES** (135) Hinges: **NOT APPLICABLE**  
(141) Structural Steel Memb: **NONE** (139) Framing: **NONE**  
Railing: **NONE**  
Paint: **NONE**  
Pay Wt: **0** pounds Prime Loc: **NONE**  
Bridge Dedicated Name:

Unit of Measure: **English**  
 Structure File Number **5931509**  
 Sufficiency Rating: **30.3 SD**

**Bridge Inventory Information**  
 Inventory Bridge Number: **MRW C0011 02858 11**  
**ON WHETSTONE**

Report Date **08/21/2012** BM-191 Page: 2 of 2  
 BR. Type **CONCRETE/ARCH/FILLED**  
 Date of Last Inventory Update: **03/13/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NOT HISTORIC</b>		(69) NBIS: <b>Y</b>		(142) Fabricator:			
(---) Hist Builder: <b>UNKNOWN</b>		Hist Build Year: <b>1924</b>		(143) Contractor:			
(69) Hist Type: <b>CLOSED SPANDREL FILLED</b>				(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: <b>N</b> Repair: <b>N</b> Fabr: <b>N</b>			
(90) Type Work: -		PID Number:		Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b>			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date:		1. / <b>044</b>	2.	3.	
(90) Roadway Cost (\$1000s): <b>0</b>				4.	5.	6.	
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		7.	8.	9.	
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2033</b>		10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>5</b>	Railings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(46) Electric: <b>N</b>		(161) Lighting: <b>N</b>			
(I-32) Superstructure: <b>3</b>	Transitions: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Gas: <b>N</b>		Fencing: <b>N</b>			
(I-42) Substructure: <b>3</b>	Guardrail: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Sanitary Sewer: <b>N</b>		Glare-Screen: <b>N</b>			
(I-50) Culvert:	Rail Ends: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Telephone: <b>N</b>		Splash-Guard: <b>N</b>			
(I-54) Channel: <b>4</b>	In Depth: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	TV Cable: <b>N</b>		Catwalks: <b>N</b>			
(I-60) Approaches: <b>6</b>	Fracture Critical: <b>N NONE N/A</b>	Water: <b>N</b>		Other-Feat: <b>N</b>			
(I-66) General Appraisal: <b>3</b>	Scour Critical: <b>N NONE N/A</b>	Other: <b>N</b>		(184) Signs-on: <b>N</b>			
(I-66) Operational Status: <b>P</b>	Critical Findings: <b>N NONE N/A</b>			Signs-Under: <b>N</b>			
Inspection Date: <b>12/28/2011</b>	Insp. Update Date: <b>03/13/2012</b>			(162) Fence-Ht: <b>0.0 Ft</b>			
(94) Desig Insp Freq: <b>12 Months</b>				(163) Noise Barr: <b>N</b>			
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: <b>MRW-C0011-02858-11</b>			
				INT Field Bridge Marker: <b>---</b>			

**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%