

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Ohio [39] Morrow County [117] Cardington [12098] .10 MI.N.OF INT.OF TR136 40-37-54 = 40.631667 082-56-54 = - 82.948333

5930448 Highway agency district 6 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! CR28 Toll On free road [3] Features intersected SHAW CREEK

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 0 km = 0.0 mi

1 Truss - Thru [10] 0 Other [00] Year built 1910 Year reconstructed 2000

Skew angle 23 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 18.9 m = 62.0 ft Length of maximum span 18.3 m = 60.0 ft Deck width, out-to-out 4.9 m = 16.1 ft Bridge roadway width, curb-to-curb 4.7 m = 15.4 ft

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 Wood or Timber [8]

Type of wearing surface Wood or Timber [7]

Deck protection

Type of membrane/wearing surface

Weight Limits

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

Method to determine operating rating No rating analysis performed [5] Operating rating 4.5 metric ton = 5.0 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

Better than present minimum criteria [7]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of replacement [2]

Condition ratings - deck

Satisfactory [6]

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

26.3

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

Every two years [Y24]

Fracture critical inspection date

October 2009 [1009]

Other special inspection

Not needed [N]

Other special inspection date

Unit of Measure: **English**
Structure File Number **5930448**
Sufficiency Rating: **26.3 SD**

Bridge Inventory Information
Inventory Bridge Number: **MRW C0028 02191 01**
ON SHAW CREEK

Report Date **08/21/2012** BM-191 Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **03/20/2012**

District: **06** County **MORROW** (101) Location: **.10 MI.N.OF INT.OF TR136** (102) Facility Carried: **CR28**
(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: 1 Type: **STEEL / TRUSS / THRU**
Route No.: **C0028** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **60** Ft (66) Overall Leng: **62** Ft

(4) Feature Intersected: **SHAW CREEK** (70) Substructure (71) Foundation and Scour Information
(5) County: **CAR** Mileage: **02191** Special Desig: **01** Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **750** (7) ADT Year: **1992** Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **15** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
(16) Functional Class: **MINOR COLLECTOR-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: 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 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

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **15.5** 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

Structure Information
(38) Bypass Length: **02** Miles
(39) Latitude: **40 Deg 37.9 Min** Longitude: **82 Deg 56.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1910** (42) Major Rehabilitation: **03/03/2000**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **23** Deg
(49) App. Rdw Width: **17** Ft (50) Brg. Rdw Width: **15.5** Ft
(51) Deck Width: **16.1** Ft Deck Area: **1001** 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: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **LAMINATED TIMBER STRIP**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **TIMBER**
Thickness: **0.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal
(48) Design Load: **UNKNOWN [DEFAULT]** (Including calculated Items)
(83) Operating: **5** Ton
Inventory: **4** Ton
Ohio Percent of Legal Load **20** (88) Waterway Adequacy **8**
Year of Rating: **2011** (89) Approach Alignment **7**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **3**
(85) Rate Soft: **OTHER** Analyzed by: **DHT** Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **NONE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

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: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **SLIDING (OTHER)/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: **2010-08-09**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **OTHER**
Paint: **OTHER**
Pay Wt: **55** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **5930448**
 Sufficiency Rating: **26.3 SD**

Bridge Inventory Information
 Inventory Bridge Number: **MRW C0028 02191 01**
ON SHAW CREEK

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

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator: YORK BRIDGE CO			
(---) Hist Builder: YORK BRIDGE COMPANY (YORK, PA)		Hist Build Year: 1910		(143) Contractor: YORK BRIDGE CO			
(69) Hist Type: WARREN (RIVETED)				(144) Ohio Original Construction Project No.: 0000PC			
(161) Special Features (see below):				(-- Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Type Work: -		PID Number:		(153) Repair Projects			
(90) Length: Ft		PID Status:		1. / 020		2. / MMM	
(90) Bridge Cost (\$1000s): 0		PID Date:		4.		5.	
(90) Roadway Cost (\$1000s): 0				7.		8.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		10.		9.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: N	(161) Lighting: N	Gas: N	Fencing: N		
(I-32) Superstructure: 3	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: N	Glare-Screen: N	Telephone: N	Splash-Guard: N		
(I-42) Substructure: 5	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	TV Cable: N	Catwalks: N	Water: N	Other-Feat: N		
(I-50) Culvert: 6	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Other: N	(184) Signs-on: N		Signs-Under: N		
(I-54) Channel: 6	In Depth: 0 DOES NOT MEET CURRENT STANDARDS		(162) Fence-Ht: 0.0 Ft		(163) Noise Barr: N		
(I-60) Approaches: 4	Fracture Critical: N NONE N/A						
(I-66) General Appraisal: 3	Scour Critical: N NONE N/A						
(I-66) Operational Status: P	Critical Findings: N NONE N/A						
Inspection Date: 12/28/2011	Insp. Update Date: 03/13/2012						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: MRW-C0028-02191-01			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: ---			
This bridge was retired and copied to:							
The bridge was copied from:							

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

5 9 3 0 4 4 8
1 Structure File Number 7

Bridge Number **MRW C0028 02191 01** CARDINGTON TWP
CO ROUTE UNIT

Date Built **07/01/1910 - 2000**

District **06** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 SHAW CREEK**

MRW

DECK		Out/Out 16.1	2	THCK = 0.0	2
1. Floor	2-LAMINATED TIMBER STRIP 8	N-NONE	2	2. Wearing Surface	7-TIMBER 41
3. Curbs, Sidewalks, Walkways	N-NONE 9	4. Median	42	W.S. Date =	
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		6
SUPERSTRUCTURE		MAX.SPAN=60	1		
9. Alignment	12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45	
11. Diaphragms or Crossframes	TOT.LGTH=62 13	12. Joists/Stringers	46		2
13. Floor Beams	14	2	14. Floor Beam Connections	47	3
15. Verticals	15	3	16. Diagonals	48	2
17. End Posts	16	2	18. Top Chord	49	2
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	1
25. Arch	20		26. Arch Columns or Hangers	53	
27. Spandrel Walls	21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1950 54	2
29. Pins/Hangers/Hinges	22		30. Fatigue Prone Connections	55	
31. Live Load Response	23	S	32. Summary	56	3
SUBSTRUCTURE		1-STONE	2	PIERS=0	SPANS = 1
33. Abutments	1-STONE 24	34. Abutment Seats	57		2
35. Piers	TYPE = N-NONE 25	36. Pier Seats	58		
37. Backwalls	26	1	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN 59	2
39. Fenders and Dolphins	27		40. Scour	5-STABLE: SCOUR WITHIN L 60	1 1
41. Slope Protection	N-NONE 28	42. Summary	DIVE DT=N/A 62		5
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	6
APPROACHES					
55. Pavement	2-BITUMINOUS 35	2	56. Approach Slabs	69	
57. Guardrail	N-NONE 36		58. Relief Joints	70	
59. Embankment	BRDG.WIDTH=15.5 37	3	60. Summary	PCT.LEGAL=20 71	4
GENERAL				ROUTINE.RESP: 3-COUNTY	2
61. Navigation Lights	38	62. Warning Signs	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	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 1,001

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	0	4	4	8
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1 Structure File Number 7

Bridge Number **MRW C0028 02191 01**
CO ROUTE UNIT

Date Built 07/01/1910 - 2000

District **06** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

SHAW CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
