

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]	Preble County [135]	Dixon [22106]	AT WATT RD	00-00-00 = 0.000000	000-00-00 = 0.000000
6836402	Highway agency district 8	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route #Num!	CONC. FAIRHAVEN RD	Toll On free road [3]	Features intersected	FOUR MILE CREEK	
Design - main	Steel [3]	Design - approach	Kilometerpoint	0 km = 0.0 mi	
1	Truss - Thru [10]	0 Other [00]	Year built	1907	Year reconstructed N/A [0000]
			Skew angle	0	Structure Flared
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length	27.7 m = 90.9 ft	Length of maximum span	26.5 m = 86.9 ft	Deck width, out-to-out	4.9 m = 16.1 ft
Inventory Route, Total Horizontal Clearance	4.8 m = 15.7 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	21.7 metric ton = 23.9 tons
0.6 km = 0.4 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	29.8 metric ton = 32.8 tons
Bridge posting			Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	230	Average daily truck traffi	9	%	Year	1969	Future average daily traffic	319	Year	2027
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	5.8 m = 19.0 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	Not applicable, no waterway. [N]			
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	4.12 m = 13.5 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	Work to be done by contract [1]								
Replacement of bridge or other structure because of relocation of road. [32]	Bridge improvement cost	\$59,000	Roadway improvement cost	\$6,000						
	Length of structure improvement	39.9 m = 130.9 ft		Total project cost	\$66,000					
	Year of improvement cost estimate	2019								
	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	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Critical [2]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	There are no noticeable or noteworthy deficiencies which affect the condition of the channel. [9]		
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	18.7
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	April 2010 [0410]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	April 2010 [0410]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **6836402**
Sufficiency Rating: **11.8 SD**

Bridge Inventory Information
Inventory Bridge Number: **PRE T0218 0020**
ON FOUR MILE CREEK

Report Date **02/26/2013** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **10/29/2012**

District: **08** County **PREBLE** (101) Location: **AT WATT RD** (102) Facility Carried: **CONC. FAIRHAVEN RD**
(2) FIPS Code: **DIXON 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
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**
Route No.: **T0218** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **FOUR MILE CREEK**
(5) County: **DIX** Mileage: **0020** Special Desig:
(6) Avg. Daily Traffic(ADT): **230** (7) ADT Year: **1969**
(8) Truck Traf: **20** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: 1 Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **87 Ft** (66) Overall Leng: **91 Ft**

Intersected Route Data
(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(23) Feature Intersected:
(24) County: Mileage: Special Desig:
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
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)**
No of Piers Predominate: **NN** Other: **NN** Other: **NN**
(86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**
(189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **OTHER-GRASS, BUSHES & TREES**
(189) Date of last Dive Insp: (152) Drainage Area: **UUU** Sq Mi

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **15.9 Ft**
(155) Prac Max Vert On Brg: **13.5 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **13.5 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**
(81) Vrt Clr Lft: **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**

Structure Information
(38) Bypass Length: **04 Miles**
(39) Latitude: **39 Deg 40.6 Min** Longitude: **84 Deg 46.3 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1907** (42) Major Rehabilitation:
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0 Deg**
(49) App. Rdw Width: **19 Ft** (50) Brg. Rdw Width: **15.9 Ft**
(51) Deck Width: **16.1 Ft** Deck Area: **1464 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:
(58) Railing: **OTHER**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST)**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **INTEGRAL CONCRETE (MONOLITHIC)**
Thickness: **4.0 in** (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal
(48) Design Load: **OTHER (INCL RR BRIDGE W/TRACK REMOVED)** (Including calculated Items)
(83) Operating: **33 Ton**
Inventory: **24 Ton**
Ohio Percent of Legal Load **15** (88) Waterway Adequacy **5**
Year of Rating: **2012** (89) Approach Alignment **3**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **0**
(85) Rate Soft: **COMBINATION** Analyzed by: Calc Deck Geometry: **0**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **TIMBER & STL CABLE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

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 **ROLLED STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **SLIDING (BRONZE)/NONE**
(126) Navigation: **Control- X** 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: **2012-03-19**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS AND HANGERS**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **0 pounds** Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **6836402**
 Sufficiency Rating: **11.8 SD**

Bridge Inventory Information
 Inventory Bridge Number: **PRE T0218 0020**
ON FOUR MILE CREEK

Report Date **02/26/2013** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **10/29/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NONE N/A		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: UNKNOWN		Hist Build Year: 1907		(143) Contractor:			
(69) Hist Type: PRATT THROUGH				(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: 32 - BRG/STR REPL--RELOCATION OF ROAD		PID Number:		Plan Information Available: 2FIELD MEASURED INFORMATION			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / 020		2. / 020	
(90) Roadway Cost (\$1000s): 0						3.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		4.		5.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033		7.		8.	
				10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 2	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N				
(I-32) Superstructure: 2	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: U	Fencing: N				
(I-42) Substructure: 3	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N				
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: U	Splash-Guard: N				
(I-54) Channel: 9	In Depth: N NONE N/A	TV Cable: U	Catwalks: N				
(I-60) Approaches: 7	Fracture Critical: N NONE N/A	Water: U	Other-Feat: U				
(I-66) General Appraisal: 2	Scour Critical: N NONE N/A	Other: U	(184) Signs-on: Y				
(I-66) Operational Status: K	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 03/19/2012	Insp. Update Date: 08/20/2012		(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: PRE-T0218-0020 -			
				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%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	8	3	6	4	0	2
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Bridge Number **PRE T0218 0020**
CO ROUTE UNIT

DIXON TWP

Date Built **07/01/1907**

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 FOUR MILE CREEK**

PRE

DECK		Out/Out 16.1	4	THCK = 4.0	
1. Floor	1-REINF CONCRT (PRESTRSD	8		2. Wearing Surface	2-INTEGRAL CONCRETE (MON 41
	N-NONE				W.S. Date =
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median	42
5. Railing	0-OTHER	10	3	6. Drainage	1-OVER THE SIDE (W/O DRI 43
7. Expansion Joints	N-NONE	11		8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=87	1		
9. Alignment		12		10. Beams/Girders/Slab	1-ROLLED STEEL 45
11. Diaphragms or Crossframes	TOT.LGTH=91	13		12. Joists/Stringers	46
13. Floor Beams		14	1	14. Floor Beam Connections	47
15. Verticals		15	3	16. Diagonals	48
17. End Posts		16	3	18. Top Chord	49
19. Lower Chord		17	4	20. Lower Lateral Bracing	50
21. Top Lateral Bracing		18		22. Sway Bracing	51
23. Portals		19	2	24. Bearing Devices	3-SLIDING (BRONZE) N-NONE 52
25. Arch		20		26. Arch Columns or Hangers	53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1994 54
29. Pins/Hangers/Hinges		22	2	30. Fatigue Prone Connections	55
31. Live Load Response		23	S	32. Summary	56
SUBSTRUCTURE		2-CONCRETE	3	PIERS=0	SPANS = 1
33. Abutments	2-CONCRETE	24		34. Abutment Seats	57
35. Piers	TYPE = N-NONE	25		36. Pier Seats	58
37. Backwalls		26	3	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD 59
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				0-OTHER-GRASS, BUSHES & TREES	
51. Alignment		33	1	52. Protection	67
53. Waterway Adequacy		34	1	54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	1	56. Approach Slabs	69
57. Guardrail	6-TIMBER & STL CABLE	36	4	58. Relief Joints	70
59. Embankment	BRDG.WIDTH=15.9	37	1	60. Summary	PCT.LEGAL=15 71
GENERAL				ROUTINE.RESP: 3-COUNTY	
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY 72
63. Sign Supports	MVC ON=13.5 UND=0000	39	2	64. Utilities	73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status	74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

R	S
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78 INITIALS

SIGNED

7	1	2	8	8
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81 PE

R	C
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83 INITIALS

DOT 2852

DECK AREA 1,464

Date

0	3	1	9	1	2
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86

91

Date

0	0	0	0	N	N	N	N
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92

69 Survey

99

Date

0	3	2	2	1	2
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100

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BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	8	3	6	4	0	2
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1 Structure File Number 7

Bridge Number **PRE T0218 0020**
CO ROUTE UNIT

Date Built 07/01/1907

District **08** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

FOUR MILE CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
