

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] Israel [37590] 1ST E OF CH 41 00-00-00 = 0.000000 000-00-00 = - 0.000000

6841295 Highway agency district 8 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route #Num! JUNCTION RD Toll On free road [3] Features intersected FOUR MILE CREEK

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

3 Truss - Thru [10] 0 Other [00] Year built #Num! Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

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

Total length 43.3 m = 142.1 ft Length of maximum span 14.3 m = 46.9 ft Deck width, out-to-out 4.9 m = 16.1 ft Bridge roadway width, curb-to-curb 4.8 m = 15.7 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 Wood or Timber [8]

Type of wearing surface Bituminous [6]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 23.3 metric ton = 25.6 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 31.4 metric ton = 34.5 tons

Bridge posting 30.0 - 39.9 % below [1] Design Load M 13.5 / H 15 [2]

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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Very Good [8]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	49.3
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	May 2010 [0510]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2010 [0510]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **6841295**
Sufficiency Rating: **26.1 SD**

Bridge Inventory Information
Inventory Bridge Number: **PRE T0235 0160**
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: **11/09/2012**

District: **08** County **PREBLE** (101) Location: **1ST E OF CH 41** (102) Facility Carried: **JUNCTION RD**
(2) FIPS Code: **ISRAEL 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.: **T0235** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **FOUR MILE CREEK**
(5) County: **ISR** Mileage: **0160** Special Desig:
(6) Avg. Daily Traffic(ADT): **100** (7) ADT Year: **1969**
(8) Truck Traf: **4** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

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**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **15.8** Ft
(155) Prac Max Vert On Brg: **14.3** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **14.3** 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: **03** Miles
(39) Latitude: **39 Deg 36.7 Min** Longitude: **84 Deg 47.1 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1900** (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: **20** Ft (50) Brg. Rdw Width: **15.8** Ft
(51) Deck Width: **16.1** Ft Deck Area: **2282** 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: **TIMBER**
(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: **BITUM (ASPHLT CONCRT)**
Thickness: **1.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **3** Type: **STEEL / TRUSS / THRU**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **47** Ft (66) Overall Leng: **142** Ft

(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **STEEL** Type: **CAPPED PILE** Fnd: **STEEL H PILES (HP12 X 53)**
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: **02** Other: **NN** Other: **NN**
(86) Stream Velocity: **UUU** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(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 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: **OTHER (INCL RR BRIDGE W/TRACK REMOVED)** (Including calculated Items)
(83) Operating: **35** Ton
Inventory: **26** Ton
Ohio Percent of Legal Load **55** (88) Waterway Adequacy **8**
Year of Rating: **2012** (89) Approach Alignment **8**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **3**
(85) Rate Soft: **COMBINATION** Analyzed by: Calc Deck Geometry: **5**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **NONE**
(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: **SLIDING METAL PLATE ANGLE**
(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: **2012-05-16**
(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 **6841295**
 Sufficiency Rating: **26.1 SD**

Bridge Inventory Information
 Inventory Bridge Number: **PRE T0235 0160**
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: **11/09/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: MASSILLON BRIDGE COMPANY		Hist Build Year: 1875		(143) Contractor:			
(69) Hist Type: BOWSTRING				(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: 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: 7	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N				
(I-32) Superstructure: 4	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: U	Fencing: N				
(I-42) Substructure: 5	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N				
(I-50) Culvert: 5	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: U	Splash-Guard: N				
(I-54) Channel: 5	In Depth: 1 MEETS CURRENT STANDARDS	TV Cable: U	Catwalks: N				
(I-60) Approaches: 4	Fracture Critical: 1 MEETS CURRENT STANDARDS	Water: U	Other-Feat: U				
(I-66) General Appraisal: 4	Scour Critical: N NONE N/A	Other: U	(184) Signs-on: Y				
(I-66) Operational Status: P	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 05/16/2012	Insp. Update Date: 07/31/2012		(162) Fence-Ht: 0.0 Ft				
(94) Desig Insp Freq: 12 Months			(163) Noise Barr: N				
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: PRE-T0235-0160 - INT Field Bridge Marker: ---			
SFNs That where replaced by this bridge: -							
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

6	8	4	1	2	9	5
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Bridge Number **PRE T0235 0160**
CO ROUTE UNIT

ISRAEL TWP

Date Built **07/01/1900**

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

Type Service **1 15 FOUR MILE CREEK**

PRE

DECK		Out/Out 16.1	1	THCK = 1.0	1
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT) 41
	N-NONE	9			W.S. Date =
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median	42
5. Railing	8-TIMBER	10	3	6. Drainage	1-OVER THE SIDE (W/O DRI) 43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	1	8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=47	1		
9. Alignment		12	1	10. Beams/Girders/Slab	1-ROLLED STEEL 45
	TOT.LGTH=142				
11. Diaphragms or Crossframes		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		18. Top Chord	49
19. Lower Chord		17	1	20. Lower Lateral Bracing	50
21. Top Lateral Bracing		18		22. Sway Bracing	51
23. Portals		19		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 = 01/01/1992 54
29. Pins/Hangers/Hinges		22	1	30. Fatigue Prone Connections	55
31. Live Load Response		23	S	32. Summary	56
SUBSTRUCTURE		1-STONE	2	PIERS=2	SPANS = 3
33. Abutments	1-STONE	24	2	34. Abutment Seats	57
35. Piers	TYPE = 5-STEEL	25	2	36. Pier Seats	58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD 59
39. Fenders and Dolphins		27		40. Scour	7-COUNTERMEAS INSTALLED 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	2	52. Protection	67
53. Waterway Adequacy		34	2	54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	3	56. Approach Slabs	69
57. Guardrail	N-NONE	36		58. Relief Joints	70
59. Embankment	BRDG.WIDTH=15.8	37	2	60. Summary	PCT.LEGAL=55 71
GENERAL				ROUTINE.RESP: 3-COUNTY	
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY 72
63. Sign Supports	MVC ON=14.3 UND=0000	39	1	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
---	---

83 INITIALS

DOT 2852

DECK AREA 2,282

Date

0	5	1	6	1	2
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86

91

Date

0	0	0	0	1	1	N	N
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92

69 Survey

99

Date

0	7	3	1	1	2
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100

105

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1 Structure File Number 7

Bridge Number **PRE T0235 0160**
CO ROUTE UNIT

Date Built 07/01/1900

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

Type Service **1 15**

FOUR MILE CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
