

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]	Miami County [109]	Newton [55594]	0.06 N OF CR77	40-04-49 = 40.080278	084-21-15 = - 84.354167
5533260	Highway agency district 7	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 76	OWENS	Toll On free road [3]	Features intersected PANTHER CREEK		
Design - main Steel [3]	Design - approach	Kilometerpoint 0 km = 0.0 mi	Year built 1913	Year reconstructed 1958	
1	Truss - Thru [10]	0 Other [00]	Skew angle 0	Structure Flared	
			Historical significance Bridge is not eligible for the NRHP. [5]		
Total length 26.2 m = 86.0 ft	Length of maximum span 25.6 m = 84.0 ft	Deck width, out-to-out 4.8 m = 15.7 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	Concrete Cast-in-Place [1]				
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	9.1 metric ton = 10.0 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	14.3 metric ton = 15.7 tons
Bridge posting			Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	203	Average daily truck traffi	10	%	Year	2003	Future average daily traffic	282	Year	2029
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	6.7 m = 22.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		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	3.96 m = 13.0 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 substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	\$202,000	Roadway improvement cost	\$20,000		
	Length of structure improvement	57.9 m = 190.0 ft		Total project cost	\$222,000	
	Year of improvement cost estimate	2003				
	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 replacement [2]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Poor [4]	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 the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	16.7
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	September 2010 [0910]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	February 2010 [0210]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **5533260**
Sufficiency Rating: **16.7 SD**

Bridge Inventory Information
Inventory Bridge Number: **MIA 00076 0167**
ON PANTHER CREEK

Report Date **02/28/2013** BM-191 Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **08/24/2011**

District: **07** County **MIAMI** (101) Location: **0.06 N OF CR77** (102) Facility Carried: **OWENS**
(2) FIPS Code: **NEWTON TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **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.: **00076** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **84 Ft** (66) Overall Leng: **86 Ft**

(4) Feature Intersected: **PANTHER CREEK** (70) Substructure (71) Foundation and Scour Information
(5) County: **MIA** Mileage: **0167** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **ROCK**
(6) Avg. Daily Traffic(ADT): **203** (7) ADT Year: **2003** Abut-Fwd Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **ROCK**
(8) Truck Traf: **21** (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)**
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: **000.0** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(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: **15.6 Ft**
(155) Prac Max Vert On Brg: **15.7 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **13.0 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **2.0 / 2.0 Ft**
(81) Vrt Clr Lft: **0.0 Ft**

Structure Information
(38) Bypass Length: **03 Miles**
(39) Latitude: **40 Deg 4.8 Min** Longitude: **84 Deg 21.3 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1913** (42) Major Rehabilitation: **01/01/1958**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0 Deg**
(49) App. Rdw Width: **22 Ft** (50) Brg. Rdw Width: **15.6 Ft**
(51) Deck Width: **15.6 Ft** Deck Area: **1335 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: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(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: **CONCRETE (SEPARATE) OVERLAY**
Thickness: **5.9 in** (119) Date of Wearing Surface: **01/01/1978**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING** (Including calculated Items)
(83) Operating: **16 Ton**
Inventory: **10 Ton**
Ohio Percent of Legal Load **60** (88) Waterway Adequacy **8**
Year of Rating: **2010** (89) Approach Alignment **4**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **2**
(85) Rate Soft: **COMBINATION** Analyzed by: **ASP** Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **STEEL BEAM**
(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: **OTHER**
(124) Bearing Devices: **ROCKERS/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: **2010-09-27**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS, PIN PLATES**
(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 **5533260**
 Sufficiency Rating: **16.7 SD**

Bridge Inventory Information
 Inventory Bridge Number: **MIA 00076 0167**
ON PANTHER CREEK

Report Date **02/28/2013** BM-191 Page: 2 of 2
 BR. Type **STEEL/TRUSS/THRU**
 Date of Last Inventory Update: **08/24/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: UNKNOWN		Hist Build Year: 1913		(143) Contractor:			
(69) Hist Type: PRATT (PINNED)				(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: 31 - BRG/STR REPL--SUBSTD LD CAP OR RDW GEOM		PID Number:		Plan Information Available: 2FIELD MEASURED INFORMATION			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / MMM	2.	3.	
(90) Roadway Cost (\$1000s): 0				4.	5.	6.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.	8.	9.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2029		10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N				
(I-32) Superstructure: 5	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:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Telephone: U	Splash-Guard: N				
(I-54) Channel: 7	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: 5	Scour Critical: N NONE N/A	Other: U	(184) Signs-on: N				
(I-66) Operational Status: P	Critical Findings: N NONE N/A		Signs-Under: N				
Inspection Date: 02/15/2012	Insp. Update Date: 02/16/2012		(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: MIA-00076-0167 -			
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	5	3	3	2	6	0
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Bridge Number **MIA 00076 0167**
CO ROUTE UNIT

NEWTON TWP

Date Built **07/01/1913 - 1958**

District **07** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 PANTHER CREEK**

MIA

DECK		Out/Out 15.6	2	THCK = 5.9		2
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	1-CONCRETE (SEPARATE) OV	41
		N-NONE		W.S. Date = 01/01/1978		
3. Curbs, Sidewalks, Walkways	N-NONE	9		4. Median		42
5. Railing	7-STL GUARDRL ON STL, CO	10	2	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	0-OTHER	11	2	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=84	1			
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=86				
11. Diaphragms or Crossframes		13		12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	1	16. Diagonals		48
17. End Posts		16	1	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	2	24. Bearing Devices	2-ROCKERS N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE =	54
29. Pins/Hangers/Hinges		22	1	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=0 SPANS = 1		
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=ROCK / ROCK	59
39. Fenders and Dolphins		27		40. Scour	8-STABLE: EVAL SCOUR ABO	60
41. Slope Protection	N-NONE	28	2	42. Summary		62
				DIVE DT=N/A		
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	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	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=15.6	37	1	60. Summary		71
				PCT.LEGAL=60		
GENERAL				ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72
63. Sign Supports	MVC ON=13.0 UND=0000	39	1	64. Utilities		73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		74
				COND STAT		5 P

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

L	M
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78 INITIALS

SIGNED

	6	5	4	9	5
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81 PE

B	H
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83 INITIALS

DOT 2852

DECK AREA 1,335

Date

0	2	1	5	1	2
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86

91

1	0	0	0	N	N	N	N
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92

69 Survey

99

Date

0	2	1	5	1	2
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100

105

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BR-86 REV 02-95

5	5	3	3	2	6	0
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1 Structure File Number 7

Bridge Number **MIA** **00076** **0167**
CO ROUTE UNIT

Date Built 07/01/1913 - 1958

District **07** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

PANTHER CREEK

00 NO REMARKS FOUND FOR THIS INSPECTION.
