

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] Portage County [133] Charlestown [13610] CSX R/R 00-00-00 = 0.000000 000-00-00 = - 0.000000

6741150 Highway agency district 4 Owner Railroad [27] Maintenance responsibility Railroad [27]

Route #Num! KNAPP RD Toll On free road [3] Features intersected CSX R/R

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

3 Truss - Thru [10] 0 Other [00] Year built 1905 Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

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

Total length 31.7 m = 104.0 ft Length of maximum span 13.4 m = 44.0 ft Deck width, out-to-out 6.2 m = 20.3 ft Bridge roadway width, curb-to-curb 5.5 m = 18.0 ft

Inventory Route, Total Horizontal Clearance 5.6 m = 18.4 ft Curb or sidewalk width - left 0.3 m = 1.0 ft Curb or sidewalk width - right 0.3 m = 1.0 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 18 metric ton = 19.8 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 24.3 metric ton = 26.7 tons

Bridge posting Design Load M 9 / H 10 [1]

Functional Details

Average Daily Traffic	300	Average daily truck traffi	0	%	Year	1978	Future average daily traffic	416	Year	2027
Road classification	Local (Rural) [09]		Lanes on structure	1		Approach roadway width	5.5 m = 18.0 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	Railroad [2]		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	99.99 m = 328.1 ft			
Minimum lateral underclearance reference feature	Railroad beneath structure [R]									
Minimum lateral underclearance on right	4.4 m = 14.4 ft					Minimum lateral underclearance on left	2.7 m = 8.9 ft			
Minimum Vertical Underclearance	5.79 m = 19.0 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by					Work to be done by contract [1]				
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	\$25,000		Roadway improvement cost	\$3,000					
	Length of structure improvement	31.7 m = 104.0 ft			Total project cost	\$28,000				
	Year of improvement cost estimate	2002								
	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	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	31.8
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	August 2009 [0809]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	August 2009 [0809]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **6741150**
Sufficiency Rating: **31.8 SD**

Bridge Inventory Information
Inventory Bridge Number: **POR T169A CH059 00**
ON CSX R/R

Report Date **06/09/2011** BM-191 Page: 1 of 2
BR. Type **STEEL / TRUSS / THRU**
Date of Last Inventory Update: **01/18/2011**

District: **04** County **PORTAGE** (101) Location: **CSX R/R** (102) Facility Carried: **KNAPP RD**
(2) FIPS Code: **CHARLESTOWN 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: **RAILROAD** (97) Routine: **RAILROAD** (100) Type Serv: (On): **HIGHWAY** (Under): **RAILROAD**

Inventory Route Data
(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** (63) Main Spans Number: **3** Type: **STEEL / TRUSS / THRU**
Route No.: **T169A** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **44 Ft** (66) Overall Leng: **104 Ft**

(4) Feature Intersected: **CSX R/R** (70) Substructure (71) Foundation and Scour Information
(5) County: **254** Mileage: **CH059** Special Desig: **00** Abut-Rear Matl: **STONE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **300** (7) ADT Year: **1978** Abut-Fwd Matl: **STONE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **0** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **STEEL** Type: **CAPPED COLUMN** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**

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: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(23) Feature Intersected: (189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **NNN 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: **19.0 Ft**
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **19.0 Ft**
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **9.0 / 14.5 Ft**

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **18.2 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: **0** Longitude: **0**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1905** (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: **18 Ft** (50) Brg. Rdw Width: **18.2 Ft**
(51) Deck Width: **20.2 Ft** Deck Area: **2099 Sq. Ft**
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **1 Ft** (right) **1 Ft**
(55) Type Curb or Sidewalks:
(Left) Matl: **TIMBER** Type: **SAFETY CURB(<=2')**
(Right) Matl: **TIMBER** Type: **SAFETY CURB(<=2')**
(56) Flared: **N** (57) Composite:

Load Rating Information (88-89) Appraisal
(48) Design Load: **H/10** (Including calculated Items)
(83) Operating: **27 Ton**
Inventory: **20 Ton**
Ohio Percent of Legal Load **55** (88) Waterway Adequacy **N**
Year of Rating: **1979** (89) Approach Alignment **3**
(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: **3**

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: **NONE**
(124) Bearing Devices: **OTHER/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: **2009-08-21**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **OTHER**
(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 **6741150**
 Sufficiency Rating: **31.8 SD**

Bridge Inventory Information
 Inventory Bridge Number: **POR T169A CH059 00**
ON CSX R/R

Report Date **06/09/2011** BM-191 Page: 2 of 2
 BR. Type **STEEL/TRUSS/THRU**
 Date of Last Inventory Update: **01/18/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: UNKNOWN		Hist Build Year: 1905		(143) Contractor:			
(69) Hist Type: WARREN (RIVETED)				(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: 35 - BRG REHAB--GEN DECLINE/INADEQ STRENGTH		PID Number:		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status:		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date:		1. / 020	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: 2027		10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N				
(I-32) Superstructure: 3	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Gas: U	Fencing: N				
(I-42) Substructure: 6	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:	In Depth:	TV Cable: U	Catwalks: N				
(I-60) Approaches: 6	Fracture Critical:	Water: U	Other-Feat: U				
(I-66) General Appraisal: 3	Scour Critical:	Other: U	(184) Signs-on: N				
(I-66) Operational Status: P	Critical Findings:		Signs-Under: N				
Inspection Date: 09/18/2010	Insp. Update Date: 12/27/2010		(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: POR-T169A-CH059-00 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	7	4	1	1	5	0
---	---	---	---	---	---	---

Bridge Number **POR T169ACH059 00** CHARLESTOWN TWP
CO ROUTE UNIT

Date Built **07/01/1905**

District **04** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 12 CSX R/R**

POR

DECK		Out/Out 20.2	1	THCK = 0.0	2
1. Floor	3-TIMBER PLANK 8			2. Wearing Surface	7-TIMBER 41
3. Curbs, Sidewalks, Walkways	3-TIMBER 9		2	4. Median	W.S. Date = 42
5. Railing	7-STL GUARDRL ON STL, CO 10		3	6. Drainage	0-OTHER-NATURAL(OFF THE 43
7. Expansion Joints	N-NONE 11			8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=44	3		
9. Alignment			12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES 45
11. Diaphragms or Crossframes	TOT.LGTH=104		13	12. Joists/Stringers	
13. Floor Beams			14	14. Floor Beam Connections	
15. Verticals			15	16. Diagonals	
17. End Posts			16	18. Top Chord	
19. Lower Chord			17	20. Lower Lateral Bracing	
21. Top Lateral Bracing			18	22. Sway Bracing	51
23. Portals			19	24. Bearing Devices	0-OTHER N-NONE 52
25. Arch			20	26. Arch Columns or Hangers	53
27. Spandrel Walls			21	28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1983 54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections	55
31. Live Load Response			23	32. Summary	56
SUBSTRUCTURE		1-STONE	2	PIERS=2	SPANS = 3
33. Abutments	1-STONE 24			34. Abutment Seats	57
35. Piers	TYPE = 5-STEEL 25		2	36. Pier Seats	58
37. Backwalls			2	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN 59
39. Fenders and Dolphins			27	40. Scour	N-BRIDGE NOT OVER WATERW 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					X-N/A
51. Alignment			33	52. Protection	67
53. Waterway Adequacy			34	54. Summary	68
APPROACHES					
55. Pavement	2-BITUMINOUS 35		1	56. Approach Slabs	69
57. Guardrail	1-STEEL BEAM 36		2	58. Relief Joints	70
59. Embankment	BRDG.WIDTH=18.2 37		2	60. Summary	PCT.LEGAL=55 71
GENERAL					
61. Navigation Lights			38	62. Warning Signs	ROUTINE.RESP: 6-RAILROAD MAINT.RESP: 6-RAILROAD 72
63. Sign Supports	MVC ON=9999 UND=0000		39	64. Utilities	73
65. Vertical Clearance			40	66. General Appraisal & Operational Status	COND ST 3 P 74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

5 5 4 8 8
76 PE

J L W
78 INITIALS

SIGNED

81 PE

83 INITIALS

DOT 2852

DECK AREA 2,099

Date 0 9 1 8 1 0
86 91

0 0 0 0
92 69 Survey 99

Date 100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	7	4	1	1	5	0
---	---	---	---	---	---	---

1 Structure File Number 7

Bridge Number **POR T169A CH059 00**
CO ROUTE UNIT

Date Built 07/01/1905

District **04** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 1 2**

CSX R/R

00 NO REMARKS FOUND FOR THIS INSPECTION.
