

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]	Ottawa County [123]	Elmore [25144]	51	41-28-37 = 41.476944	083-17-43 = - 83.295278
6201202	Highway agency district 2	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 51	HIGHWAY	Toll On free road [3]	Features intersected	PORTAGE RIVER	
Design - main Concrete [1]	Design - approach Other [00]	Kilometerpoint 232 km = 143.8 mi	Year built 1926	Year reconstructed N/A [0000]	
3	Arch - Deck [11]	Skew angle 0	Structure Flared	Historical significance Bridge is on the NRHP. [1]	
Total length 86 m = 282.2 ft	Length of maximum span 23.2 m = 76.1 ft	Deck width, out-to-out 11 m = 36.1 ft	Bridge roadway width, curb-to-curb 9.1 m = 29.9 ft		
Inventory Route, Total Horizontal Clearance 9.1 m = 29.9 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0.8 m = 2.6 ft			
Deck structure type	Not applicable [N]				
Type of wearing surface	Bituminous [6]				
Deck protection	Not applicable (applies only to structures with no deck) [N]				
Type of membrane/wearing surface	Not applicable (applies only to structures with no deck) [N]				

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi	Method to determine inventory rating No rating analysis performed [5]	Inventory rating 32.4 metric ton = 35.6 tons
	Method to determine operating rating No rating analysis performed [5]	Operating rating 40.5 metric ton = 44.6 tons
Bridge posting Equal to or above legal loads [5]	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	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Superior to present desirable criteria [9]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition. [5]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="67"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="July 2010 [0710]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>

Unit of Measure: **English**
Structure File Number **6201202**
Sufficiency Rating: **65.0**

Bridge Inventory Information
Inventory Bridge Number: **OTT 00051 0144**
ON PORTAGE RIVER

Report Date **09/04/2012** **BM-191** Page: 1 of 2
BR. Type CONCRETE / ARCH / FILLED
Date of Last Inventory Update: **10/13/2011**

District: **02** County **OTTOWA** (101) Location: **00051** (102) Facility Carried:
(2) FIPS Code: **ELMORE** (103) Route On Bridge: **STATE (ODOT)** (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: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **STATE HIGHWAY** (63) Main Spans Number: **3** Type: **CONCRETE / ARCH / FILLED**
Route No.: **00051** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **76** Ft (66) Overall Leng: **282** Ft
(4) Feature Intersected: **PORTAGE RIVER** (70) Substructure (71) Foundation and Scour Information
(5) County: **OTT** Mileage: **0144** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(6) Avg. Daily Traffic(ADT): **7,110** (7) ADT Year: **2009** Abut-Fwd Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(8) Truck Traf: **340** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**
(16) Functional Class: **MINOR ARTERIAL-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: **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

Clearance Under the Bridge

(27) Truck Traf: **0** (28) NHS: - (29) Corridor: (156) Min. Horiz Under Clear: **NC: 0.0** Ft Card: **0.0** Ft
(30) Functional Class: (36) Strahnt: **Not Applicable** (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: **30.0** 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

Load Rating Information

(88-89) Appraisal

(48) Design Load: **HS/20** (Including calculated Items)
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **9**
Year of Rating: **2006** (89) Approach Alignment **9**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **5**
(85) Rate Soft: **SAP/STAAD, OTHER** Analyzed by: **OEC** Calc Deck Geometry: **4**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **STEEL BEAM**
(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

(58) Railing: **REINF CONCR POST & CONCR PANEL** (121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)** (169) Expansion Joint: **NONE**
(60) Deck Type: **NONE** (124) Bearing Devices: **NONE/NONE**
(61) Deck Protection: External: **NONE** (126) Navigation: **Control- N** Vert Clr: **0.0** Ft Horiz Clear: **0.0** Ft
Internal: **NONE** (193) Spec Insp: **N** Freq: **0** Date:
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)** (188) Fracture Critical Insp: **N** Freq: **0** Date:
Thickness: **5.1** in (119) Date of Wearing Surface: (138) Long Member: **ONE CONCRETE ARCH** (135) Hinges: **NOT APPLICABLE**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)** (141) Structural Steel Memb: **NONE** (139) Framing: **NONE**
Pay Wt: **0** pounds Prime Loc: **NONE** Railing: **NONE**
Bridge Dedicated Name: Paint: **NONE**

Unit of Measure: **English**
 Structure File Number **6201202**
 Sufficiency Rating: **65.0**

Bridge Inventory Information
 Inventory Bridge Number: **OTT 00051 0144**
ON PORTAGE RIVER

Report Date **09/04/2012** **BM-191** Page: 2 of 2
 BR. Type **CONCRETE/ARCH/FILLED**
 Date of Last Inventory Update: **10/13/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NATIONAL HISTORIC REGISTER		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: OHIO STATE HIGHWAY DEPARTMENT		Hist Build Year: 1926		(143) Contractor:			
(69) Hist Type: CLOSED SPANDREL FILLED				(144) Ohio Original Construction Project No.: UNKNWN			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
				Aperture Cards: Orig: N Repair: Y Fabr: N			
Proposed Improvements		Programming Info		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Type Work: -		PID Number: 22597		(153) Repair Projects			
(90) Length: Ft		PID Status: IA-OTHER		1. 840329 / 044	2. 870287 / 041	3. / 002	
(90) Bridge Cost (\$1000s): 0		PID Date:		4.	5.	6.	
(90) Roadway Cost (\$1000s): 0				7.	8.	9.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		10.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2033					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 5	Railings: 0 DOES NOT MEET CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N	Gas: U	Fencing: N		
(I-32) Superstructure: 5	Transitions: 0 DOES NOT MEET CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N	Telephone: U	Splash-Guard: N		
(I-42) Substructure: 5	Guardrail: 0 DOES NOT MEET CURRENT STANDARDS	TV Cable: U	Catwalks: N	Water: U	Other-Feat: U		
(I-50) Culvert:	Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS	Other: U	(184) Signs-on: N				
(I-54) Channel: 6	In Depth: N NONE N/A	(184) Signs-Under: N					
(I-60) Approaches: 4	Fracture Critical: N NONE N/A	(162) Fence-Ht: 0.0 Ft					
(I-66) General Appraisal: 5	Scour Critical: N NONE N/A	(163) Noise Barr: N					
(I-66) Operational Status: A	Critical Findings: N NONE N/A						
Inspection Date: 07/06/2012	Insp. Update Date: 08/22/2012						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: OTT-00051-0144 -			
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
144	REINFORCED CONC ARCH	562	LF	0	100	0	0	0
215	REINFORCED CONC ABUTMENT	72	LF	0	100	0	0	0
331	CONCRETE BRIDGE RAILING	562	LF	0	100	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	2	0	1	2	0	2
---	---	---	---	---	---	---

Bridge Number **OTT 00051 0144**
CO ROUTE UNIT

ELMORE

Date Built **07/01/1926**

District **02** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service **1 15 PORTAGE RIVER**

OTT

DECK		Out/Out 36.0			THCK = 5.1	
1. Floor	N-NONE	8		2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41 2
	1-CONCRETE		2		W.S. Date =	
3. Curbs, Sidewalks, Walkways	1-CONCRETE	9		4. Median		42
			3	5. Railing	5-REINF CONCR POST & CON	10 1
7. Expansion Joints	N-NONE	11		6. Drainage	0-OTHER-NATURAL(OFF THE	43
				8. Summary		44 5
SUPERSTRUCTURE		MAX.SPAN=76				
9. Alignment		12	1	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
				11. Diaphragms or Crossframes		13
				12. Joists/Stringers		14
13. Floor Beams		14		14. Floor Beam Connections		15
15. Verticals		15		16. Diagonals		16
17. End Posts		16		18. Top Chord		17
19. Lower Chord		17		20. Lower Lateral Bracing		18
21. Top Lateral Bracing		18		22. Sway Bracing		19
23. Portals		19		24. Bearing Devices	N-NONE N-NONE	20 52
25. Arch		20	2	26. Arch Columns or Hangers		21 53
27. Spandrel Walls		21	3	28. Protective Coating System	TYPE = N-NONE DATE =	22 54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		23 55
31. Live Load Response		23	S	32. Summary		24 56 5
SUBSTRUCTURE		2-CONCRETE			PIERS=2	SPANS = 3
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		25 57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		26 58
37. Backwalls		26		38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN	27 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	29 62 5
CULVERTS						
43. General		29		44. Alignment		30 63
45. Shape		30		46. Seams		31 64
47. Headwalls or Endwalls		31		48. Scour		32 65
49.		32		50. Summary		33 66
CHANNEL						
51. Alignment		33	1	52. Protection	N-NONE	34 67
53. Waterway Adequacy		34	2	54. Summary		35 68 6
APPROACHES						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		36 69
57. Guardrail	1-STEEL BEAM	36	3	58. Relief Joints		37 70
59. Embankment	BRDG.WIDTH=30.0	37	2	60. Summary	PCT.LEGAL=150	38 71 4
GENERAL						
61. Navigation Lights		38		62. Warning Signs	ROUTINE.RESP: 1-OHIO TRAN DEPT MAINT.RESP: 1-OHIO TRAN DEPT	39 72 4
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities		40 73 1
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		41 74 5 A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

--	--	--	--	--	--

76 PE

J	H
---	---

78 INITIALS

SIGNED

	7	3	4	0	2
--	---	---	---	---	---

81 PE

D	H
---	---

83 INITIALS

DOT 2852

DECK AREA 10,150

Date

0	7	0	6	1	2
---	---	---	---	---	---

86

91

Date

0	0	0	0	N	N	N	N
---	---	---	---	---	---	---	---

92

69 Survey

99

Date

0	8	2	2	1	2
---	---	---	---	---	---

100

105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	2	0	1	2	0	2
---	---	---	---	---	---	---

1 Structure File Number 7

Bridge Number **OTT** **00051** **0144**
 CO ROUTE UNIT

Date Built 07/01/1926

District **02** Bridge Type **CONCRETE/ARCH/FILLED**

Type Service **1 15**

PORTAGE RIVER

- Deck 2. NEW 2000-NUMEROUS OPEN CRACKS. Pot holes developing.
- Deck 3. WALK CRACKED, CURB BROKEN. Settling on ends; worst on
- Deck rt. fwd.
- Deck 5. FRIABLE, BROKEN, STEEL EXPOSED, LOOSE. Steel sticking
- Deck out. TOP HALF OF LEFT FORWARD PANEL CRACKED THRU AND READY
- Deck TO FALL(2010) GUARDRAIL PANEL PLACED.
- Deck 6. SOME VEGETATION GROWING IN GUTTER AREAS.
- Superstructure 25. SPALLS WITH STEEL EXPOSED AND HANGING, OPEN CRACKS,
- Superstructure LEAKING AT JOINTS.
- Superstructure 27. THE CORNERS OF THE SPANDREL WALLS ARE FRIABLE,
- Superstructure FOUR INCHES OF CONCRETE IS GONE IN MOST OF THE CORNERS. THE
- Superstructure CONCRETE THAT IS LEFT IS VERY FRIABLE. THERE IS A LOT OF
- Superstructure STEEL EXPOSED AND THE COPPER JOINTS ARE VISIBLE.
- Superstructure 31. The general summary was raised to a 5 because of the
- Superstructure load rating. Calculations found the structure to be
- Superstructure adequate for loading.
- Substructure 33. CRACKS, FRIABLE, STEEL EXPOSED.
- Substructure 34. LEACHING, LEAKING AT SPRING LINE.
- Substructure 35. FRIABLE, STEEL EXPOSED, STEEL HANGING.
- Substructure 36. CRACKS, LEACHING.
- Substructure 38. CRACKS, STEEL EXPOSED.
- Substructure 40. ON BEDROCK (VISIBLE)
- Channel 53. Large log jam against pier. ODOT FORCES CUT LOGS TO
- Channel ALLOW FOR HIGH WATER TO WASH IT AWAY-2012
- Approaches 55. NEW IN 2000 AT FWD. CRACKS WITH SOME RUTTING.
- Approaches 57. THE POSTS ARE ROTTING.
- Approaches 59. THERE IS EROSION ALONG THE ABUTMENTS AND THE APPROACHES.
- General 62. TWO X-6 MARKER, TWO YELLOW G.R. END MARKERS. The rear
- General could use two additional X-6 Markers.
- General 64. THE GAS LINE APPEARS TO BE SECURE.
- General 66. Bridge is on hold for replacement due to historical
- General concerns and load rating calculations performed in 2006. The
- General general appraisal was raised by the bridge engineer as
- General instructed by C.O. because of its load rating.