

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information			
Ohio [39]	Summit County [153]	Boston Heights [07790]	0.8MI WEST OF EXIT 12
		41-15-30 = 41.258333	081-30-36 = - 81.510000
7729693	Highway agency district 4	Owner State Toll Authority [31]	Maintenance responsibility State Toll Authority [31]
Route 16	OLDE EIGHT ROAD	Toll On free road [3]	Features intersected I80 OHIO TPK
Design - main Steel [3]	Design - approach	Kilometerpoint 1818 km = 1127.2 mi	
1	Arch - Deck [11]	Year built 1954	Year reconstructed 1990
	0	Other [00]	
		Skew angle 20	Structure Flared
		Historical significance	Bridge is not eligible for the NRHP. [5]
Total length 87.8 m = 288.1 ft	Length of maximum span 65.8 m = 215.9 ft	Deck width, out-to-out 10.5 m = 34.5 ft	Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearance 8.5 m = 27.9 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	Epoxy Coated Reinforcing [1]		
Type of membrane/wearing surface	Other [9]		

Weight Limits			
Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating 28.8 metric ton = 31.7 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	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	Open, no restriction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Good [7]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	70.3
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	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	April 2009 [0409]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	November 1994 [1194]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **7729693**
Sufficiency Rating: **68.3 fo**

Bridge Inventory Information
Inventory Bridge Number: **SUM 0080K 0744**
UNDER AKRON-CLEVELAND RD MP1795

Report Date **02/07/2012** BM-191 Page: 1 of 2
BR. Type STEEL / ARCH / DECK
Date of Last Inventory Update: **02/03/2012**

District: **04** County **SUMMIT** (101) Location: **0.8MI WEST OF EXIT 12** (102) Facility Carried: **OLDE EIGHT ROAD**
(2) FIPS Code: **BOSTON HEIGHTS** (103) Route On Bridge: **COUNTY** (104) Route Under Bridge: **TOLL (STATE)**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **Y** (12) Parallel: **N**
(95) Insp: **OTHER ST AGY** (96) Maint: **OTHER ST AGY** (97) Routine: **OTHER ST** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data
(3) Route On/Under: **UNDER** Hwy Sys: **INTERSTATE HIGHWAY** (63) Main Spans Number: 1 Type: **STEEL / ARCH / DECK**
Route No.: **0080K** Dir: Des: **TOLL ROAD** Pref: Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **216 Ft** (66) Overall Leng: **288 Ft**

(4) Feature Intersected: **AKRON-CLEVELAND RD MP1795** (70) Substructure (71) Foundation and Scour Information
(5) County: **SUM** Mileage: **0744** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **CELLULAR OR "U"** Fnd: **STEEL H PILES (OTHER SIZE)**
(6) Avg. Daily Traffic(ADT): **23,470** (7) ADT Year: **1972** Abut-Fwd Matl: **CONCRETE** Type: **CELLULAR OR "U"** Fnd: **STEEL H PILES (OTHER SIZE)**
(8) Truck Traf: **0** (14) NHS: **YES - N** (15) Corridor: **Y** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **STEEL H PILES (OTHER SIZE)**
(16) Functional Class: **INTERSTATE-RURAL** (19) Strahnt: **Interstate** 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: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY** No of Piers Predominate: **NN** Other: **NN** Other: **NN**
Route No.: **00016** Dir: Des: **1** Pref: (86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(23) Feature Intersected: **I80 OHIO TPK** (189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **N/A**
(24) County: **SUM** Mileage: **1129** Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **NNN Sq Mi**

(25) Avg. Daily Traffic(ADT): **28,000** (26) ADT Year: **1990**
(27) Truck Traf: **6,000** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **MINOR COLLECTOR-RURAL** (36) Strahnt: **Not Applicable**

Clearance Under the Bridge
(156) Min. Horiz Under Clear: NC: **62.0 Ft** Card: **62.0 Ft**
(157) Prac Max Vrt Under Clear: **50.0 Ft**
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **50.0 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: **28.0 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: **2.5 / 0.0 Ft** Card: **0.0 / 2.5 Ft**
(81) Vrt Clr Lft: **0.0 Ft**

Structure Information
(38) Bypass Length: **02 Miles**
(39) Latitude: **41 Deg 15.5 Min** Longitude: **81 Deg 30.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1954** (42) Major Rehabilitation: **01/01/1990**
(43) No. Lanes On: **2** No. Lanes Under: **4**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **20 Deg**
(49) App. Rdw Width: **46 Ft** (50) Brg. Rdw Width: **28.0 Ft**
(51) Deck Width: **34.3 Ft** Deck Area: **9871 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: **non-composite**

(58) Railing: **REINFORCED CONCRETE PARAPET**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST)**
(61) Deck Protection: External: **OTHER**
Internal: **EPOXY COATED REINFORCING (BOTH)**
(62) Wearing Surface: **INTEGRAL CONCRETE (MONOLITHIC)**
Thickness: **1.2 in** (119) Date of Wearing Surface:
Slope Protection: **RIP RAP (DUMPED ROCK)**

Load Rating Information (88-89) Appraisal
(48) Design Load: **H/15** (Including calculated items)
(83) Operating: **45 Ton**
Inventory: **32 Ton**
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **N**
Year of Rating: **1995** (89) Approach Alignment **8**
(84) Analysis: **WORKING STRESS (WS)** Calc Gen Appraisal: **6**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **4**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **3**

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
(121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate:
(169) Expansion Joint: **COMPRESSION SEAL**
(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: **2011-03-17**
(138) Long Member: **TWO OR MORE ARCHES (RIVETED)** (135) Hinges: **PINS, PIN PLATES**
(141) Structural Steel Memb: **A7** (139) Framing: **STRAIGHT**
Railing: **OTHER**
Paint: **RED LEAD**
Pay Wt: **576,885 pounds** Prime Loc: **SHOP**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **7729693**
 Sufficiency Rating: **68.3 fo**

Bridge Inventory Information
 Inventory Bridge Number: **SUM 0080K 0744**
UNDER AKRON-CLEVELAND RD MP1795

Report Date **02/07/2012** BM-191 Page: 2 of 2
 BR. Type **STEEL/ARCH/DECK**
 Date of Last Inventory Update: **02/03/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NOT HISTORIC		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: NONE N/A		Hist Build Year:		(143) Contractor:			
(69) Hist Type: NONE N/A				(144) Ohio Original Construction Project No.: 001454			
(161) Special Features (see below):				(---) Microfilm Reel: 000TP2			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: Y Fabr: N			
(90) Type Work: -		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. / MMM	
(90) Roadway Cost (\$1000s): 0				4.		5.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2028		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 5	Railings: 1 MEETS CURRENT STANDARDS	(I-46) Electric: U	(161) Lighting: N	(I-32) Superstructure: 7	Transitions: 1 MEETS CURRENT STANDARDS	Gas: U	Fencing: Y
(I-42) Substructure: 6	Guardrail: 1 MEETS CURRENT STANDARDS	(I-46) Sanitary Sewer: U	Glare-Screen: N	(I-50) Culvert:	Rail Ends: 1 MEETS CURRENT STANDARDS	(I-46) Telephone: U	Glare-Screen: N
(I-54) Channel:	In Depth: N NONE N/A	(I-46) TV Cable: U	Splash-Guard: N	(I-60) Approaches: 6	Fracture Critical: N NONE N/A	(I-46) Water: U	Splash-Guard: N
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A	(I-46) Other: U	Catwalks: N	(I-66) Operational Status: A	Critical Findings: N NONE N/A	(I-46) Other-Feat: U	Catwalks: N
Inspection Date: 03/17/2011	Insp. Update Date: 12/09/2011	(184) Signs-on: N	Other-Feat: U	(94) Desig Insp Freq: 12 Months		(184) Signs-Under: N	Other-Feat: U
(94) Desig Insp Freq: 12 Months		(162) Fence-Ht: 0.0 Ft				(163) Noise Barr: N	
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: SUM-0080K-0744 -			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: SUM-00016-1133 -			
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
26	CONCRETE DECK - PROTECTED W/COATED BARS	1	EA	100	0	0	0	0
141	PAINTED STEEL ARCH	574	LF	0	100	0	0	0
215	REINFORCED CONC ABUTMENT	73	LF	0	100	0	0	0
302	COMPRESSION JOINT SEAL	73	LF	0	100	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	100	0	0	0	0
331	CONCRETE BRIDGE RAILING	574	LF	100	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

7	7	2	9	6	9	3
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Bridge Number **SUM 0080K 0744**
CO ROUTE UNIT

BOSTON HEIGHTS

Date Built 07/01/1954 - 1990

Structure File Number 7

District **04** Bridge Type **STEEL/ARCH/DECK**

Type Service **2 11 AKRON-CLEVELAND RD MP1795**

SUM

DECK		Out/Out 34.3	2	THCK = 1.2		2
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	1-REINFORCED CONCRETE PA	10	2	6. Drainage	3-SCUPPERS & DWNSPTS	43
7. Expansion Joints	3-COMPRESSION SEAL	11	2	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=216	1			
9. Alignment		12		10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=288	1			
11. Diaphragms or Crossframes		13		12. Joists/Stringers		46
13. Floor Beams		14	1	14. Floor Beam Connections		47
15. Verticals		15		16. Diagonals		48
17. End Posts		16		18. Top Chord		49
19. Lower Chord		17		20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19		24. Bearing Devices	2-ROCKERS N-NONE	52
25. Arch		20	1	26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 1-RED LEAD DATE = 01/01/1975	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		34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls		26	1	38. Wingwalls	ABUTMENT:=STEEL H / STEEL H	59
39. Fenders and Dolphins		27		40. Scour	N-BRIDGE NOT OVER WATERW	60
41. Slope Protection	3-RIP RAP (ROCK)	28	3	42. Summary		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						X-N/A
51. Alignment		33		52. Protection		67
53. Waterway Adequacy		34		54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	2	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=28.0	37	1	60. Summary		PCT.LEGAL=150
GENERAL						
61. Navigation Lights		38		ROUTINE.RESP: 2-OTHER ST AGY		
62. Warning Signs		39		MAINT.RESP: 2-OTHER ST AGY		
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	N	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

D	B
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78 INITIALS

SIGNED

	5	4	4	8	2
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81 PE

P	W
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83 INITIALS

DOT 2852

DECK AREA 9,871

Date

0	3	1	7	1	1
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86

91

Date

1	1	1	1	N	N	N	N
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92

69 Survey

99

Date

0	8	3	0	1	1
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100

105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

7	7	2	9	6	9	3
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1 Structure File Number 7

Bridge Number **SUM 0080K 0744**
CO ROUTE UNIT

Date Built 07/01/1954 - 1990

District **04** Bridge Type **STEEL/ARCH/DECK**

Type Service **2 1 1**

AKRON-CLEVELAND RD MP1795

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NO REMARKS FOUND FOR THIS INSPECTION.
