HistoricBridges.org - National Bridge Inventory Data Sheet

2014 Inventory

The National Bridge Inventory contains data submitted by state transportion 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]	Cuyahoga County [035]	Fairview Park [26446]	APPROX 900FT E W220 ST	41-25-13.71 = 41.420475	081-51-42.53 = -81.861814

1802046	Highway agency district: 12	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 17		SR17	Toll: On free road [3]	Features intersected: ROCKY RIVER	

Design - main: Concrete [1]	Design - approach: Concrete continuous [2]	Kilometerpoint: 456 km = 282.7 mi			
8	Arch - Deck [11]	7	Tee beam [04]	Year built: 1933	Year reconstructed: 1989
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length: 584.9 m = 1919.1 ft	Length of maximum span: 58.5 m = 191.9 ft	Deck width, out-to-out: 19.7 m = 64.6 ft	Bridge roadway width, curb-to-curb: 15.9 m = 52.2 ft				
Inventory Route, Total Horizontal Clearance: 12.2 m = 40.0 ft	Curb or sidewalk width - left: 1.5 m = 4.9 ft	Curb or sidewalk width - right: 1.5 m = 4.9 ft					

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Latex Concrete or similar additive [3]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	Built-up [1]

Weight Limits

Bypass, detour length	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 25.9 metric ton = 28.5 tons		
0.5 km = 0.3 mi	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 43.1 metric ton = 47.4 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: M 18 / H 20 [4]		

Functional Details

Average Daily Traffic	10980	Average daily truck traffi	2 %	Year	2010	Future average daily traffic	15240
Year	2033						

Road classification	Minor Arterial (Urban) [16]	Lanes on structure	4	Approach roadway width	15.9 m = 52.2 ft
Type of service on bridge	Highway-pedestrian [5]	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	
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	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

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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Bridge foundations (including piles) on dry land well above flood water elevations. [9]
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection		Sufficiency rating	61.3

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	November 2013 [1113]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	

District: 12 | County: CUYAHOGA | (101) Location: APPROX 900FT E W220 ST | (102) Facility Carried: SR17
(2) FIPS Code: CUY-M-26446-FAIRVIEW PARK | (103) Route On Bridge: STATE (ODOT) (TOLL FR | (104) Route Under Bridge: NON HIGHWAY TRAFFIC ON BRIDGE
(9) Direction of Traffic: 2-WAY TRAFFIC | (10) Temporary: | (11) Truck Network: N | (12) Parallel: N
(100) Type Serv: (On): HIGHWAY-PEDESTRIAN | (Under): WATERWAY

Inventory Route Data

(3) Route On/Under: ROUTE CARRIED "ON" THE STR | Hwy Sys: STATE HIGHWAY
Route No: 00017 | Dir: NOT APPLICABLE | Des: MAINLINE | Pref: N
(4) Feature Intersected: ROCKY RIVER
(5) County: CUY | Mileage: 02830 | Special Desig: N
(6)Avg. Daily Traffic(ADT): 10,980 | (7) ADT Year: 2010
(8) Truck Traf: 230 | (14) NHS: NON-NHS BRIDG | (15) Corridor: N
(16) Functional Class: URBAN - MINOR ARTERIAL | (19) Strahnt: NOT STRAHNET

Intersected Route Data

(22) Route On/Under: | Hwy Sys:
Route No: | Dir: | Des: | Pref:
(23) Feature Intersected:
(24) County: | Mileage: 0000 | Special Desig:
(25)Avg. Daily Traffic(ADT): | (26) ADT Year:
(27) Truck Traf: | (28) NHS: - | (29) Corridor: N
(30) Functional Class: | (36) Strahnt:

Clearance On the Bridge

(154) Min. Hriz on Bridge: | NC: 0.0 | Card: 40.0 Ft
(155) Prac Max Vert On Brg: | 9999.9 Ft
(67) Min Vrt Clr On Brg: | NC: 0.0 | Card: 9999.9 Ft
(80) Min Latl Clr: | NC: 0.0/0.0 Ft | Card: 9.5/9.5 Ft
(81) Vrt Clr Lft: | 0.0 Ft

Structure Information

(38) Bypass Length: 03 Miles
(39) Latitude: 41 Deg 25 Min 13.71 Sec | Longitude: 81 Deg 51 Min 42.53 Sec
(40) Toll: ON FREE ROAD, THE STRUCTU
(41) Date Built: 7/1/1933 | (42) Major Rehabilitation: 10/31/1989
(43) No. Lanes On: 4 | No. Lanes Under: 0
(44) Horiz Curve: | (45) Skew: 0 Deg
(49) App. Rdw Width: 52 Ft | (50) Brg. Rdw Width: 52.0 Ft
(51) Deck Width: 64.5 Ft | Deck Area: 123775 Sq. Ft
(52) Median Type: NONE/NON BARRIER/NO JOINT
(53) Bridge Median: NO MEDIAN
(54) Sidewalks: | (left) 5.0 Ft | (right) 5.0 Ft
(55) Type Curb or Sidewalks:
(Left) Matl: CONCRETE | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(Right) Matl: CONCRETE | Type: SIDEWALK (GREATER THAN 2' IN WIDTH)
(56) Flared: 0 | (57) Composite: N - NON_COMPOSITE
(58) Railing: STEEL POST AND STEEL PANEL (DECORATIVE)
(59) Deck Drainage: SCUPPERS AND DOWNSPOUTS
(60) Deck Type: REINFORCED CONCRETE
(61) Deck Protection: External: BUILT-UP (TYPE "D", LAYERS OF FIBERGLASS
Internal: EPOXY COATED REINFORCING (TOP MAT)
(62) Wearing Surface: LATEX MODIFIED CONCRETE (LMC) - OVERLAY
Thickness: 1.2 in | (119) Date of Wearing Surface: 10/31/1989
Slope Protection: NONE

(63) Main Spans Number: 8 | Type: CONCRETE/ARCH/DECK
Approach Spans Number: 7 | Type: CONCRETE/BEAM/CONTINUOUS
Total Spans: 15 | (65) Max Span: 192 Ft | (66) Overall Leng: 1,919 Ft

(70) Substructure		(71) Foundation and Scour Information	
Abut-Rear	Matl: CONCRETE	Type: CELLULAR OR "U"	Fnd: SPREAD FOOTING
Abut-Fwd	Matl: CONCRETE	Type: CELLULAR OR "U"	Fnd: SPREAD FOOTING
Pier-Pred	Matl: CONCRETE	Type: OPEN COLUMN	Fnd: SPREAD FOOTING
Pier-Other	Matl: CONCRETE	Type: CAPPED COLUMN	Fnd: OTHER
Pier-Other	Matl: NONE	Type: NONE	Fnd: OTHER

No of Piers Predominate: | Other: | Other:
(86) Stream Velocity: 005.6 | (74) Scour: BRIDGE FOUNDATIONS (INCLUDING PILES) ON
(189) Dive: N Freq: 0 | Probe: N Freq: 0 | (75) Chan Prot: STONE
(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

(48) Design Load: H20
Opr Rat Fact: 1.330 LD:
Inv Rat Fact: 0.800 LD:
(83) Ohio Percent of Legal Load: 140
Year of Rating: 2013
(84) Analysis: LOAD FACTOR (LF) RATING REPORTED BY RF U
(85) Rate Soft: COMBINATION
Analysis on Bars: NOT ON BARS [DEFAULT]
PE#: 63230 MICHAEL RUSSELL

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy: 8
(89) Approach Alignment: 6
Calc Gen Appraisal: 5
Calc Deck Geometry: 4
Calc Underclearance: N

Approach Information

(109) Approach Guardrail: STEEL BEAM
(110) Approach Pavement: BITUMINOUS | (111) Grade: GOOD

Culvert Information

(131) Culvert Type: NOT A CULVERT OR RIGID FRAME | (127) Length: 0.0 Ft
(129) Depth of Fill: 0.0 Ft | (130) Headwalls: NONE OR NOT APPLICABLE (NOT A CU

General Information

(121) Main Member: CONCRETE TEE BEAM | (122) Moment Plate: NOT APPLICABLE
(169) Expansion Joint: ELASTOMERIC STRIP SEAL
(124) Bearing Devices: SLIDING (BRONZE)
(126) Navigation: Control-0 | Vert Clr: 0.0 Ft | Horiz Clear: 0.0 Ft
(193) Spec Insp: N | Freq: 0 | Date:
(188) Fracture Critical Insp: N | Freq: 24 | Date:
(138) Long Member: TWO CONCRETE ARCHES | (135) Hinges: NOT APPLICABLE (STRUCTURES WITH NO
(141) Structural Steel Memb: NONE | (139) Framing: NONE OR NOT APPLICABLE
Railing: N
Pay Wt: 0 pounds | Prime Loc: NONE (I.E. | Paint: EPOXY - URETHANE SEALERS
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: ELIGIBLE FOR NATIONAL REGISTER
(69) NBIS: Y
(---) Hist Builder: OHIO STATE HIGHWAY DEPARTMENT
Hist Build Year: 1933
(69) Hist Type: RIBBED
(161) Special Features (see below):
(105) Border Bridge State: Resp: %(106) SFN:

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No: 000132
(---) Microfilm Reel: CUY011
(151) Standard Drawing:
Aperture Cards: Orig: Y Repair: N Fabr: N
Plan Information Available: 1 PLAN INFORMATION AVAILABLE FOR LOAD RATI

Proposed Improvements

(90) Type Work: -
(90) Length: Ft
(90) Bridge Cost ($1000s):
(90) Roadway Cost ($1000s):
(90) Total Project Cost ($1000s):
(90) Year:
(91) Future ADT (On Bridge): 15240
(92) Year of Future ADT: 2033

Programming Info

PID Number: 21333
PID Status: IA-OTHER
PID Date: 1/28/2002

(153) Repair Projects:

1) / 020	2) /	3) / 061
4) / 021	5) / 011	6) / 044
7) / 011	8) / 011	

Inspection Summary

(I-8) Deck:	5
(I-32) Superstructure:	5
(I-42) Substructure:	5
(I-50) Culvert:	N
(I-54) Channel:	6
(I-60) Approaches:	6
(I-66) General Appraisal:	5
(I-66) Operational Status:	A
Inspection Date:	9/16/2014
(94) Desig Insp Freq	12 Months

(I-69) Survey Items

Railings:	MEETS ACCEPTABLE STANDARDS
Transitions:	NA/SAFETY FEATURE NOT REQUIRED
Guardrail:	MEETS ACCEPTABLE STANDARDS
Rail Ends:	MEETS ACCEPTABLE STANDARDS
In Depth:	
Fracture Critical:	
Scour Critical	
Critical Findings:	
Insp. Update Date:	9/16/2014

Utilities

(46)	Electric:	U
	Gas:	U
	Sanitary Sewer:	U
	Telephone:	U
	TV Cable:	U
	Water:	U
	Other:	U

Special Features

(161)	Lighting:	Y
	Fencing:	N
	Glare-Screen:	N
	Splash-Guard:	N
	Catwalks:	N
	Other-Feat:	U
(184)	Signs-On:	N
	Signs-Under	N
(162)	Fence-Ht	0.0
(163)	Noise Barr	N

SFNs Replacing this retired bridge: -
SFNs That were replaced by this bridge: -
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: CUY - 00017 - 0283 - N
INT Field Bridge Marker: - - 0000 -

(95) Insp: OHIO STATE TRANSPORTATION DEPARTMENT	2nd: NONE	3rd: NONE
(96) Maint: OHIO STATE TRANSPORTATION DEPARTMENT	2nd: NONE	3rd: NONE
(97) Routine: CITY OR OTHER LOCAL AGENCY	2nd: NONE	3rd: NONE

PONTIS CoRe elements and Conditions 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		0	1	0	0	0
144	REINFORCED CONC ARCH	3836		0	3836	0	0	0
215	REINFORCED CONC ABUTMENT	104		104	0	0	0	0
234	REINFORCED CONC CAP	260		260	0	0	0	0
304	OPEN EXPANSION JOINT	104		0	104	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2		0	2	0	0	0
331	CONCRETE BRIDGE RAILING	3836		3836	0	0	0	0

(*) Percentages should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 1802046 | CUY (CO) | 00017 (Route) | 02830 (SLM) | CUY-M-26446-FAIRVIEW PARK | **DATE BUILT** 07/01/1933 - 1989

District 12 | CONCRETE/ARCHDECK | **Type of Service** 1 | **FIPS** 55 ROCKY RIVER | N (SD) | CUY

DECK

1. Floor	Out/Out 64.5 1-REINFORCED CONCRETE	**3**	2. Wearing Surface	THCK= 1.2 3-LATEX MODIFIED CONCRETE (LMC) -	3
3. Curbs, Sidewalks & Walkways	1-CONCRETE 1-CONCRETE	2	4. Median	W.S. Date = 10/31/1989 N-NO MEDIAN	
5. Railing	6-STEEL POST AND STEEL PANEL (DECORATIVE)	3	6. Drainage	3-SCUPPERS AND DOWNSPOUTS	3
7. Expansion Joints	8-ELASTOMERIC STRIP SEAL	3	**8. SUMMARY**	Deck Area: 123,775	5

SUPERSTRUCTURE

9. Alignment of Members	MAX.SPAN.LENGTH = 192	1	10. Beams/Girders/Slab	4-CONCRETE TEE BEAM	**3**
11. Diaphragms or Cross Frames	TOT.LGTH = 1,919		12. Joist/Stringers		
13. Floorbeams		**2**	14. Floorbeam Connections		
15. Verticals			16. Diagonals		
17. End posts			18. Upper Chord		
19. Lower Chord			20. Gusset Plates		
21. Lateral Bracing			22. Sway Bracing		
23. Portals			24. Bearing Devices	3-SLIDING (BRONZE) N-NONE	1
25. Arch		**2**	26. Arch Columns or Hangers		**2**
27. Spandrel Walls			**28. Protective Coating System (PCS)**	TYPE: BEPOXY - URETHANE SEALERS DATE = 01/01/1987	2
29. Pins/Hangers/Hinges	ADT: 10,980 TRUCK: 230 YEAR: 2010		30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		S	**32. SUMMARY**		5

SUBSTRUCTURE

33. Abutments	2-CONCRETE 2-CONCRETE	**2**	34. Abutment Seats	PIERS= # OF SPANS=15	**2**
35. Piers	TYPE = 2-CONCRETE	**2**	36. Pier Seats		**1**
37. Backwalls		1	38. Wingwalls	ABUTMENT:=SPREAD FOOTING/SPREAD FOOTING	1
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	9-BRIDGE FOUNDATIONS (INCLUDING PILES) ON 1	**1**
41. Slope Protection	N-NONE	3	**42. SUMMARY**	DIVE DT= N/A	5

CULVERTS

43. General			44. Alignment		
45. Shape			46. Seams		
47. Headwalls or Endwalls			48. Scour (Insp Type - 1, 2, 3)		
49. Abutments			**50. SUMMARY**		N

CHANNEL

51. Alignment		2	52. Protection	2-STONE	1
53. Hydraulic Opening		1	**54. SUMMARY**		6

APPROACHES

55. Pavement	2-BITUMINOUS	2	56. Approach Slabs		2
57. Guardrail	1-STEEL BEAM	1	58. Relief Joint		1
59. Embankment	BRDG.WIDTH=52.0	1	**60. SUMMARY**	PCT.LEGAL= 140	6

GENERAL

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 4-CITY OR OTHER LOCAL AGENCY MAINT.RESP: 1-OHIO STATE TRANSPORTATION DEPARTMENT	4
63. Sign Supports	MVC ON=9999 UND=0000		64. Utilities		
65. Vertical Clearance (1, 2-change, N)			66. **General Appraisal** & Operational Status	5	A

67. INSPECTED BY

Print First & Last Name | 61,171 PE Number | JC Initial

Inspected Date: 9/16/2014

68. REVIEWED BY

Print First & Last Name | 61,171 PE Number | JC Initial

Reviewed Date: 3/6/2015

1	N	1	1				

69. Survey (1, 0, N)