

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]	Cuyahoga County [035]	Rocky River [68056]	910 FT W OF ROCKY RVR DR	41-28-17.08 = 41.471411	081-49-26.00 = -81.823889
1830147	Highway agency district 12	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 69	HILLIARD RD CR69	Toll On free road [3]	Features intersected	ROCKY RVR/HILLIARD #65	
Design - main Concrete [1]	Design - approach Concrete [1]	Kilometerpoint 0 km = 0.0 mi	Year built 1925	Year reconstructed 1983	
3	Arch - Deck [11]	5	Arch - Deck [11]	Skew angle 0	Structure Flared
			Historical significance	Bridge is eligible for the NRHP. [2]	
Total length 262.1 m = 860.0 ft	Length of maximum span 67.1 m = 220.2 ft	Deck width, out-to-out 22.9 m = 75.1 ft	Bridge roadway width, curb-to-curb 17.1 m = 56.1 ft		
Inventory Route, Total Horizontal Clearance 17.1 m = 56.1 ft	Curb or sidewalk width - left 2.9 m = 9.5 ft	Curb or sidewalk width - right 2.9 m = 9.5 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					
Type of membrane/wearing surface	Other [9]				

**Weight Limits**

Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	23.7 metric ton = 26.1 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	39.5 metric ton = 43.5 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18+Mod / HS 20+Mod [6]	

### Functional Details

Average Daily Traffic	18263	Average daily truck traffi	1	%	Year	2000	Future average daily traffic	25349	Year	2031
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	4		Approach roadway width	17.1 m = 56.1 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	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	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]		
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	\$2,760,000	Roadway improvement cost	\$240,000		
	Length of structure improvement	275.2 m = 902.9 ft		Total project cost	\$3,000,000	
	Year of improvement cost estimate	2006				
	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

Meets minimum tolerable limits to be left in place as is [4]

Condition ratings - superstructure

Poor [4]

Appraisal ratings -  
roadway alignment

Superior to present desirable criteria [9]

Condition ratings - substructure

Poor [4]

Appraisal ratings -  
deck geometry

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - deck

Poor [4]

Scour

Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]

Channel and channel protection

Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]

Appraisal ratings - water adequacy

Superior to present desirable criteria [9]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

52.9

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

December 2013 [1213]

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

Structure File Number: 1830147

Inventory Bridge Number: CUY 00069 08570 WB

BR. Type: CONCRETE/ARCH/DECK

Sufficiency Rating: 052.9 SD

## ROUTE CARRIED "ON" THE STRUCTURE ROCKY RIVER, VALLEY PKWY

Date of Last Inventory Update:

District: 12	County: CUYAHOGA	(101) Location: 910 FT W OF ROCKY RVR DR	(102) Facility Carried: HILLIARD RD CR 69
(2) FIPS Code: CUY-M-68056-ROCKY RIVER		(103) Route On Bridge: COUNTY	(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
<b>Inventory Route Data</b>			
(3) Route On/Under: ROUTE CARRIED "ON" THE STR	Hwy Sys: COUNTY HIGHWAY (TOWNS	(63) Main Spans Number: 3	Type: CONCRETE/ARCH/DECK
Route No: 00069	Dir: NOT APPLICABLE	Des: MAINLINE	Pref: N
(4) Feature Intersected: ROCKY RIVER, VALLEY PKWY		Approach Spans Number: 7	Type: CONCRETE/BEAM/DECK
(5) County: CUY	Mileage: 08570	Special Desig: WB	
(6) Avg. Daily Traffic(ADT): 18,263	(7) ADT Year: 2000	Total Spans: 10	(65) Max Span: 220 Ft
(8) Truck Traf: 183	(14) NHS: NON-NHS BRIDG	(15) Corridor: N	(66) Overall Leng: 893 Ft
(16) Functional Class: URBAN - MINOR ARTERIAL	(19) Strahnt: NOT STRAHNET	(70) Substructure	(71) Foundation and Scour Information
<b>Intersected Route Data</b>			
(22) Route On/Under:	Hwy Sys:	No of Piers Predominate:	Other:
Route No:	Dir:	Des:	Pref:
(23) Feature Intersected:		(86) Stream Velocity: 007.9	(74) Scour: BRIDGE FOUNDATIONS DETERMINED TO BE STAB
(24) County:	Mileage: 0000	Special Desig:	
(25) Avg. Daily Traffic(ADT):	(26) ADT Year:	(189) Dive: N Freq: 0	Probe: Y Freq: 0
(27) Truck Traf:	(28) NHS: -	(29) Corridor: N	(75) Chan Prot: OTHER (GRASS, BUSHES, TREES)
(30) Functional Class:	(36) Strahnt:	(189) Date of last Dive Insp:	(152) Drainage Area: 012 Sq Mi
<b>Clearance On the Bridge</b>			
(154) Min. Hriz on Bridge:	NC: 0.0	Card: 56.0 Ft	
(155) Prac Max Vert On Brq:	9999.9 Ft		
(67) Min Vrt Clr On Brq:	NC: 0.0	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		
<b>Structure Information</b>			
(38) Bypass Length: 02 Miles			
(39) Latitude: 41 Deg 28 Min 17.08 Sec	Longitude: 81 Deg 49 Min 26.00 Sec		
(40) Toll: ON FREE ROAD, THE STRUCTU			
(41) Date Built: 7/1/1925	(42) Major Rehabilitation: 1/1/1983		
(43) No. Lanes On: 4	No. Lanes Under: 0		
(44) Horiz Curve: 00D00M	(45) Skew: 0 Deg		
(49) App. Rdw Width: 56 Ft	(50) Brg. Rdw Width: 56.0 Ft		
(51) Deck Width: 75.0 Ft	Deck Area: 64498 Sq. Ft		
(52) Median Type: NONE/NON BARRIER/NO JOINT			
(53) Bridge Median: NO MEDIAN			
(54) Sidewalks:	(left) 9.5 Ft	(right) 9.5 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: REINFORCED CONCRETE POST AND CONCRETE PA			
(59) Deck Drainage: SCUPPERS AND DOWNSPOUTS			
(60) Deck Type: REINFORCED CONCRETE			
(61) Deck Protection: External: NONE			
Internal: NOT APPLICABLE (APPLIES ONLY TO BRIDGES)			
(62) Wearing Surface: INTEGRAL CONCRETE (MONOLITHIC) - NOT AN			
Thickness: 3.0 in	(119) Date of Wearing Surface: 1/1/1991		
Slope Protection: FABRIC BAGS FILLED WITH CONCRETE			
<b>Clearance Under the Bridge</b>			
(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	
<b>Load Rating Information</b>			
(48) Design Load: HS20-44 & ALTERNATE MILITARY LOADING			(88) Waterway Adequacy: 9
Opr Rat Fact: 1.220 LD:			(89) Approach Alignment: 7
Inv Rat Fact: 0.730 LD:			Calc Gen Appraisal: 4
(83) Ohio Percent of Legal Load: 150			Calc Deck Geometry: 5
Year of Rating: 2011			Calc Underclearance: N
(84) Analysis: LOAD FACTOR (LF) RATING REPORTED BY RF U			
(85) Rate Soft: FINITE ELEMENT (FE) PROGRAM			
Analysis on Bars: NOT ON BARS [DEFAULT]			
PE#: 60048 MICHAEL MALLOY			
<b>(88-89) Appraisal</b>			
<b>Approach Information</b>			
(109) Approach Guardrail: STEEL BEAM			
(110) Approach Pavement: OTHER			(111) Grade: GOOD
<b>Culvert Information</b>			
(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
<b>General Information</b>			
(121) Main Member: CONCRETE GIRDER			(122) Moment Plate: NOT APPLICABLE
(169) Expansion Joint: POLYMER MODIFIED EXPANSION DEVICE			
(124) Bearing Devices: FIXED			
(126) Navigation: Control-N	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: FOUR OR MORE 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: NONE OR NOT APPLICABLE	
Bridge Dedicated Name:			



STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

STRUCTURE FILE NUMBER: 1830147      CUY CO      00069 Route      08570 SLM      CUY-M-68056-ROCKY RIVER      DATE BUILT 07/01/1925 - 1983

District 12      CONCRETE/ARCHDECK      Type of Service 1      55 ROCKY RIVER, VALLEY PKWY      FIPS      WB SD      CUY

**DECK**

1. Floor	Out/Out 75.0 1-REINFORCED CONCRETE	3	2. Wearing Surface	2-INTEGRAL CONCRETE (MONOLITHIC) - NOT	3
3. Curbs, Sidewalks & Walkways	1-CONCRETE 1-CONCRETE	1	4. Median	W.S. Date = 01/01/1991 N-NO MEDIAN	
5. Railing	5-REINFORCED CONCRETE POST AND CONCRETE PA	1	6. Drainage	3-SCUPPERS AND DOWNSPOUTS	3
7. Expansion Joints	B-POLYMER MODIFIED EXPANSION DEVICE	2	<b>8. SUMMARY</b>	Deck Area: 64,498	4

**SUPERSTRUCTURE**

9. Alignment of Members	MAX.SPAN.LENGTH = 220	1	10. Beams/Girders/Slab	5-CONCRETE GIRDER	
11. Diaphragms or Cross Frames	TOT.LGTH = 893	2	12. Joist/Stringers		
13. Floorbeams		3	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	B-FIXED N-NONE	
25. Arch		3	26. Arch Columns or Hangers		3
27. Spandrel Walls		2	<b>28. Protective Coating System (PCS)</b> TYPE: NNONE OR NOT APPLICABLE DATE =		
29. Pins/Hangers/Hinges	ADT: 18,263    TRUCK: 183    YEAR: 2000		30. Fatigue Prone Detail (E & E')		
31. Live Load Response (E or S)		S	<b>32. SUMMARY</b>		4

**SUBSTRUCTURE**

33. Abutments	2-CONCRETE 2-CONCRETE	2	34. Abutment Seats	PIERS=	# OF SPANS=10
35. Piers	TYPE = 2-CONCRETE	3	36. Pier Seats		2
37. Backwalls		2	38. Wingwalls	ABUTMENT:=SPREAD FOOTING/SPREAD FOOTING	1
39. Fenders and Dolphins			40. Scour (Insp Type - 1, 2, 3)	8-BRIDGE FOUNDATIONS DETERMINED TO BE STAB	1
41. Slope Protection	5-FABRIC BAGS FILLED WITH CONCRETE	2	<b>42. SUMMARY</b>	DIVE DT= N/A	4

**CULVERTS**

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

**CHANNEL**

51. Alignment		1	52. Protection	0-OTHER (GRASS, BUSHES, TREES)	2
53. Hydraulic Opening		1	<b>54. SUMMARY</b>		6

**APPROACHES**

55. Pavement	0-OTHER	1	56. Approach Slabs		
57. Guardrail	1-STEEL BEAM	3	58. Relief Joint		2
59. Embankment	BRDG.WIDTH=56.0	1	<b>60. SUMMARY</b>	PCT.LEGAL= 150	5

**GENERAL**

61. Navigation Lights			62. Warning Signs	ROUTINE.RESP: 3-COUNTY AGENCY MAINT.RESP: 3-COUNTY AGENCY	1
63. Sign Supports	MVC ON=9999    UND=0000		64. Utilities	ELEC/SEW/WAT/OTH/	2
65. Vertical Clearance (1, 2-change, N)			<b>66. General Appraisal &amp; Operational Status</b>		4

**67. INSPECTED BY**

**68. REVIEWED BY**

Print First & Last Name  
Inspected Date: 10/22/2014

PE Number

DG Initial  
0 0 0 0

Print First & Last Name  
Reviewed Date: 2/26/2015

62.756  
PE Number

JK  
Initial

69. Survey (1, 0, N)