

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] Cuyahoga County [035] Cleveland [16000] 2939 FT. NORTH OF W.25TH 41-29-18 = 41.488333 081-42-01 = - 81.700278

1833758 Highway agency district 12 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route 56 COLUMBUS RD. CR356 Toll On free road [3] Features intersected CUY RVR/COLUMBUS RD 1:00

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

5 Movable - Lift [15] 4 Stringer/Multi-beam or girder [02] Year built 1939 Year reconstructed N/A [0000]

Skew angle 10 Structure Flared

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

Total length 109.4 m = 358.9 ft Length of maximum span 73.8 m = 242.1 ft Deck width, out-to-out 17.9 m = 58.7 ft Bridge roadway width, curb-to-curb 12.8 m = 42.0 ft

Inventory Route, Total Horizontal Clearance 12.8 m = 42.0 ft Curb or sidewalk width - left 1.6 m = 5.2 ft Curb or sidewalk width - right 1.6 m = 5.2 ft

Deck structure type Open Grating [3]

Type of wearing surface Other [9]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.5 km = 0.3 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 19.8 metric ton = 21.8 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 26.9 metric ton = 29.6 tons

Bridge posting Equal to or above legal loads [5] Design Load M 18 / H 20 [4]

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	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Superior to present desirable criteria [9]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
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	In place but re-evaluation of design suggested [4]	Sufficiency rating	7.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Not applicable or a safety feature is not required. [N]		
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]		
Inspection date	November 2009 [1109]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	July 2008 [0708]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2010 [1110]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **1833758**
Sufficiency Rating: **28.6 SD**

Bridge Inventory Information
Inventory Bridge Number: **CUY 00056 0056 01**
ON CUY RVR/COLUMBUS RD 1:007

Report Date **09/17/2012** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / MOVABLE - LIFT
Date of Last Inventory Update: **01/24/2012**

District: **12** County **CUYAHOGA** (101) Location: **2939 FT. NORTH OF W.25TH** (102) Facility Carried: **COLUMBUS RD. CR356**
(2) FIPS Code: **CLEVELAND** (103) Route On Bridge: **COUNTY** (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: **COUNTY** (96) Maint: **COUNTY** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY/PEDESTRIAN** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**
Route No.: **00056** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **CUY RVR/COLUMBUS RD 1:007**
(5) County: **CUY** Mileage: **0056** Special Desig: **01**
(6) Avg. Daily Traffic(ADT): **9,306** (7) ADT Year: **1998**
(8) Truck Traf: **465** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **COLLECTOR-URBAN** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: **5** Type: **STEEL / TRUSS / MOVABLE - LIFT**
Approach Spans Number: **4** Type: **STEEL / BEAM / SIMPLE SPAN**
Total Spans: **9** (65) Max Span: **242 Ft** (66) Overall Leng: **359 Ft**

Intersected Route Data

(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(23) Feature Intersected:
(24) County: Mileage: Special Desig:
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: **-** (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

(70) Substructure (71) Foundation and Scour Information
Abut-Rear Matl: **CONCRETE** Type: **CELLULAR OR "U"** Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE** Type: **STUB-CAPPED PILE (SINGLE** Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **OTHER** Type: **OTHER** Fnd: **OTHER**
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)**
No of Piers Predominate: **04** Other: **NN** Other: **NN**
(86) Stream Velocity: **023.0** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(189) Dive: **Y Freq: 60** Probe: **Y Freq: 12** (75) Chan Prot: **SHEET PILING**
(189) Date of last Dive Insp: **07/01/2008** (152) Drainage Area: **008** Sq Mi

Clearance Under the Bridge

(154) Min Horiz on Bridge: NC: **0.0** Ft Card: **42.0** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **15.0** 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

(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

Clearance On the Bridge

Load Rating Information

(88-89) Appraisal

(154) Min Horiz on Bridge: NC: **0.0** Ft Card: **42.0** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **15.0** 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

(48) Design Load: **H/20** (Including calculated items)
(83) Operating: **30** Ton
Inventory: **22** Ton
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **9**
Year of Rating: **2011** (89) Approach Alignment **9**
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **3**
(85) Rate Soft: **COMBINATION** Analyzed by: Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Structure Information

(38) Bypass Length: **03** Miles
(39) Latitude: **41 Deg 29.3 Min** Longitude: **81 Deg 42.0 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1939** (42) Major Rehabilitation:
(43) No. Lanes On: **4** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **10** Deg
(49) App. Rdw Width: **42** Ft (50) Brg. Rdw Width: **42.0** Ft
(51) Deck Width: **58.6** Ft Deck Area: **21033** Sq. Ft

(109) Approach Guardrail: **NONE**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **GOOD**

Approach Information

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **5** Ft (right) **5** Ft

(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

Culvert Information

(55) Type Curb or Sidewalks:
(Left) Matl: **STEEL** Type: **CHECKER PLATE**
(Right) Matl: **STEEL** Type: **CHECKER PLATE**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**

(121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **METAL FINGER**
(124) Bearing Devices: **ROCKERS/NONE**

General Information

(62) Wearing Surface: **OTHER**
Thickness: **5.0** in (119) Date of Wearing Surface: **01/01/1955**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(126) Navigation: **Control- Y** Vert Clr: **80.0** Ft Horiz Clear.: **220.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2010-11-02**
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **7,000,000** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **1833758**
 Sufficiency Rating: **28.6 SD**

Bridge Inventory Information
 Inventory Bridge Number: **CUY 00056 0056 01**
ON CUY RVR/COLUMBUS RD 1:007

Report Date **09/17/2012** BM-191 Page: 2 of 2
 BR. Type **STEEL/TRUSS/MOVABLE - LIFT**
 Date of Last Inventory Update: **01/24/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE (---) Hist Builder: FEDERAL WORKS AGENCY Hist Build Year: 1940 (69) Hist Type: PRATT (RIVETED) (161) Special Features (see below): (105) Border Bridge State: Resp % (106) SFN:		(69) NBIS: Y		(142) Fabricator: (143) Contractor: (144) Ohio Original Construction Project No.: 175639 (---) Microfilm Reel: 004604 (151) Standard Drawing: Aperture Cards: Orig: N Repair: N Fabr: N Plan Information Available: 1PLAN INFORMATION AVAILABLE (153) Repair Projects			
Proposed Improvements		Programming Info					
(90) Type Work: -		PID Number: 5383		1. / 020			
(90) Length: Ft		PID Status: IA-OTHER		2. /			
(90) Bridge Cost (\$1000s): 0		PID Date:		3.			
(90) Roadway Cost (\$1000s): 0				4.			
(90) Total Project Cost (\$1000s): 0		(90) Year:		5.			
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2030		6.			
				7.			
				8.			
				9.			
				10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: N NONE N/A	(I-32) Superstructure: 3	Transitions: N NONE N/A	(46) Electric: N	(161) Lighting: N		
(I-42) Substructure: 5	Guardrail: N NONE N/A	(I-50) Culvert:	Rail Ends: N NONE N/A	Gas: N	Fencing: N		
(I-54) Channel: 6	In Depth: N NONE N/A	(I-60) Approaches: 4	Fracture Critical: N NONE N/A	Sanitary Sewer: N	Glare-Screen: N		
(I-66) General Appraisal: 3	Scour Critical: N NONE N/A	(I-66) Operational Status: A	Scour Critical: N NONE N/A	Telephone: N	Splash-Guard: N		
Inspection Date: 09/12/2011	Insp. Update Date: 01/27/2012		Critical Findings: N NONE N/A	TV Cable: N	Catwalks: Y		
(94) Desig Insp Freq: 12 Months				Water: N	Other-Feat: N		
				Other: N	(184) Signs-on: N		
					Signs-Under: N		
					(162) Fence-Ht: 0.0 Ft		
					(163) Noise Barr: N		
SFNs Replacing this retired bridge: -							
SFNs That where replaced by this bridge: -							
This bridge was retired and copied to:							
The bridge was copied from:				INV Field Bridge Marker: CUY-00356-00000-01			
				INT Field Bridge Marker: ---			

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

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Bridge Number **CUY 00056 0056 01** CLEVELAND
CO ROUTE UNIT

Date Built **07/01/1939**

District **12** Bridge Type **STEEL/TRUSS/MOVABLE - LIFT**

Type Service **1 55 CUY RVR/COLUMBUS RD 1:007**

CUY

DECK		Out/Out 58.6	1	THCK = 5.0	1
1. Floor	5-STEEL GRID - OPEN	8	2. Wearing Surface	0-OTHER	41
		2-STEEL	W.S. Date = 01/01/1955		
3. Curbs, Sidewalks, Walkways	2-STEEL	9	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	1-METAL FINGER	11	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=242	2		2
9. Alignment		12	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	45
		TOT.LGTH=359	3		3
11. Diaphragms or Crossframes		13	12. Joists/Stringers		46
13. Floor Beams		14	14. Floor Beam Connections		47
			3		3
15. Verticals		15	16. Diagonals		48
			2		2
17. End Posts		16	18. Top Chord		49
			2		
19. Lower Chord		17	20. Lower Lateral Bracing		50
					2
21. Top Lateral Bracing		18	22. Sway Bracing		51
			2	2-ROCKERS	3
23. Portals		19	24. Bearing Devices	N-NONE	52
25. Arch		20	26. Arch Columns or Hangers		53
				TYPE = 0-OTHER	0
27. Spandrel Walls		21	28. Protective Coating System	DATE = 01/01/1940	54
					2
29. Pins/Hangers/Hinges		22	30. Fatigue Prone Connections		55
			S		3
31. Live Load Response		23	32. Summary		56
SUBSTRUCTURE		2-CONCRETE	2	PIERS=4	SPANS = 5
33. Abutments	2-CONCRETE	24	34. Abutment Seats		57
			2		3
35. Piers	TYPE = 0-OTHER	25	36. Pier Seats		58
			1	ABUTMENT:=SPREAD / SPREAD	2
37. Backwalls		26	38. Wingwalls		59
			4		1
39. Fenders and Dolphins		27	40. Scour	8-STABLE: EVAL SCOUR ABO	60
					5
41. Slope Protection	N-NONE	28	42. Summary	DIVE DT=07/01/2008	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				3-SHEET PILING	3
51. Alignment		33	52. Protection		67
			1		6
53. Waterway Adequacy		34	54. Summary		68
APPROACHES					
55. Pavement	2-BITUMINOUS	35	56. Approach Slabs		69
57. Guardrail	N-NONE	36	58. Relief Joints		70
			1		4
59. Embankment	BRDG.WIDTH=42.0	37	60. Summary	PCT.LEGAL=150	71
GENERAL				ROUTINE.RESP: 4-CITY/LOCAL	4
61. Navigation Lights		38	62. Warning Signs	MAINT.RESP: 3-COUNTY	72
		MVC ON=9999 UND=0000			
63. Sign Supports		39	64. Utilities		73
65. Vertical Clearance		40	66. General Appraisal & Operational Status		74
				COND	STAT
				3	A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

76 PE

J D
78 INITIALS

SIGNED

5 9 3 8 3
81 PE

J H
83 INITIALS

DOT 2852

DECK AREA 21,033

Date 0 9 1 2 1 1
86 91

N N N N N N N N
92 69 Survey 99

Date 0 1 1 3 1 2
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

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1 Structure File Number 7

Bridge Number **CUY** **00056** **0056** **01**
CO ROUTE UNIT

Date Built 07/01/1939

District **12** Bridge Type **STEEL/TRUSS/MOVABLE - LIFT**

Type Service **1 5 5**

CUY RVR/COLUMBUS RD 1:007

00 NO REMARKS FOUND FOR THIS INSPECTION.
