

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] Cleveland [16000] S OF CANAL ST (FLATS) 41-29-39 = 41.494167 081-41-52 = - 81.697778

1869264 Highway agency district 12 Owner City or Municipal Highway Agency [04] Maintenance responsibility City or Municipal Highway Agency [04]

Route #Num! CARTER ROAD Toll On free road [3] Features intersected LIME ST,CUY RVR & B&O RR

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

1 Movable - Lift [15] 9 Girder and floorbeam system [03] Year built 1939 Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

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

Total length 170.4 m = 559.1 ft Length of maximum span 67.1 m = 220.2 ft Deck width, out-to-out 18 m = 59.1 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 32.4 metric ton = 35.6 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 32.4 metric ton = 35.6 tons

Bridge posting Equal to or above legal loads [5] Design Load M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	1	Average daily truck traffi	0	%	Year	1999	Future average daily traffic	1	Year	2029
Road classification	Collector (Urban) [17]		Lanes on structure	4		Approach roadway width	11 m = 36.1 ft			
Type of service on bridge	Highway [1]		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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	29.9 m = 98.1 ft			Navigation horizontal clearance	61.3 m = 201.1 ft					
Minimum navigation vertical clearance, vertical lift bridge	5.2 m = 17.1 ft				Minimum vertical clearance over bridge roadway	4.27 m = 14.0 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	\$800,000	Roadway improvement cost	\$80,000			
	Length of structure improvement	170.4 m = 559.1 ft		Total project cost	\$1,000,000		
	Year of improvement cost estimate	2003					
	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	Better than present minimum criteria [7]
Condition ratings - superstructure	Good [7]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place but re-evaluation of design suggested [4]	Sufficiency rating	89
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			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	October 2008 [1008]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y00]	Underwater inspection date	June 2039 [0639]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **1869264**
Sufficiency Rating: **91.0 fo**

Bridge Inventory Information
Inventory Bridge Number: **CUY CARTR 1002M**
ON LIME ST, CUY RVR & B&O RR

Report Date **09/17/2012** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / MOVABLE - LIFT
Date of Last Inventory Update: **01/06/2012**

District: **12** County **CUYAHOGA** (101) Location: **S OF CANAL ST (FLATS)** (102) Facility Carried: **CARTER ROAD**
(2) FIPS Code: **CLEVELAND** (103) Route On Bridge: **MUNICIPAL** (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: **CITY/LOCAL** (96) Maint: **CITY/LOCAL** (97) Routine: **CITY/LOC** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **MUNICIPAL STREET**
Route No.: **CARTR** Dir: Des: **BUSINESS** Pref:
(4) Feature Intersected: **LIME ST, CUY RVR & B&O RR**
(5) County: **CUY** Mileage: **1002M** Special Desig:
(6) Avg. Daily Traffic(ADT): **1** (7) ADT Year: **1999**
(8) Truck Traf: **1** (14) NHS: **NO - X** (15) Corridor: **N**
(16) Functional Class: **COLLECTOR-URBAN** (19) Strahnt: **Not Applicable**

(63) Main Spans Number: 1 Type: **STEEL / TRUSS / MOVABLE - LIFT**
Approach Spans Number: 9 Type: **STEEL / GIRDER / THRU**
Total Spans: **10** (65) Max Span: **220** Ft (66) Overall Leng: **559** 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: **STEEL AND CONCRETE** Type: **OTHER** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **STEEL AND CONCRETE** Type: **OTHER** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE AND STONE** Type: **CAPPED COLUMN** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **STEEL AND CONCRETE** Type: **CELLULAR OR "U"** Fnd: **OTHER**
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **OTHER**
No of Piers Predominate: **02** Other: **07** Other: **NN**
(86) Stream Velocity: **UUU** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(189) Dive: **Y Freq: 60** Probe: **N Freq: 0** (75) Chan Prot: **SHEET PILING**
(189) Date of last Dive Insp: **06/01/1939** (152) Drainage Area: **UUU** 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: **14.0** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **14.0** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **17.0** Ft

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(157) Prac Max Vrt Under Clear: **15.7** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **15.7** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **16.8 / 2.2** 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: **14.0** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **14.0** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **17.0** Ft

(48) Design Load: **H/15** (Including calculated Items)
(83) Operating: **36** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **9**
Year of Rating: **1992** (89) Approach Alignment **8**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **6**
(85) Rate Soft: **NO SOFTWARE USED** 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 29.7 Min** Longitude: **81 Deg 41.9 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: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **36** Ft (50) Brg. Rdw Width: **42.0** Ft
(51) Deck Width: **59.0** Ft Deck Area: **32970** Sq. Ft

(109) Approach Guardrail: **FLEX STEEL PLATE**
(110) Approach Pavement: **CONCRETE** (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: **SIDEWALK(>2')**
(Right) Matl: **STEEL** Type: **SIDEWALK(>2')**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**
(59) Deck Drainage: **DRN TROUGH UNDR OPEN JNTS**
(60) Deck Type: **STEEL GRID - OPEN**
(61) Deck Protection: External: **NONE**
Internal: **NONE**

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

General Information

(62) Wearing Surface: **OTHER**
Thickness: **0.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(126) Navigation: **Control- Y** Vert Clr: **98.0** Ft Horiz Clear.: **201.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2010-07-01**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **STRAIGHT**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **1869264**
 Sufficiency Rating: **91.0 fo**

Bridge Inventory Information
 Inventory Bridge Number: **CUY CARTR 1002M**
ON LIME ST, CUY RVR & B&O RR

Report Date **09/17/2012** BM-191 Page: 2 of 2
BR. Type STEEL/TRUSS/MOVABLE - LIFT
 Date of Last Inventory Update: **01/06/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: PUBLIC WORKS ADMINISTRATION		Hist Build Year: 1940		(143) Contractor:			
(69) Hist Type:				(144) Ohio Original Construction Project No.:			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: N Repair: N Fabr: N			
(90) Type Work: 35 - BRG REHAB--GEN DECLINE/INADEQ STRENGTH		PID Number: 5345		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Length: Ft		PID Status: PROGRAM		(153) Repair Projects			
(90) Bridge Cost (\$1000s): 0		PID Date: 09/05/1990		1. / 020	2. / 020	3. /	
(90) Roadway Cost (\$1000s): 0				4.	5.	6.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.	8.	9.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2029		10.			
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 6	Railings: 1 MEETS CURRENT STANDARDS	(I-32) Superstructure: 6	Transitions: N NONE N/A	(46) Electric: U	(161) Lighting: Y		
(I-42) Substructure: 6	Guardrail: N NONE N/A	(I-50) Culvert: 6	Rail Ends: N NONE N/A	Gas: U	Fencing: N		
(I-54) Channel: 6	In Depth: N NONE N/A	(I-60) Approaches: 6	Fracture Critical: N NONE N/A	Sanitary Sewer: U	Glare-Screen: N		
(I-66) General Appraisal: 6	Scour Critical: N NONE N/A	(I-66) Operational Status: A	Critical Findings: N NONE N/A	Telephone: U	Splash-Guard: N		
Inspection Date: 09/20/2011	Insp. Update Date: 01/06/2012			TV Cable: U	Catwalks: N		
(94) Desig Insp Freq: 12 Months				Water: U	Other-Feat: U		
				Other: U	(184) Signs-on: N		
					Signs-Under: N		
					(162) Fence-Ht: 0.0 Ft		
					(163) Noise Barr: N		
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: CUY-CARTR-1002M- INT Field Bridge Marker: ---			
SFNs That where replaced by this bridge: -							
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
		0						

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	6	9	2	6	4
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Bridge Number **CUY CARTR1002M** CLEVELAND
CO ROUTE UNIT

Date Built **07/01/1939**

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

Type Service **1** **15 LIME ST.CUY RVR & B&O RR**

CUY

DECK		Out/Out 59.0	2	THCK = 0.0	1
1. Floor	5-STEEL GRID - OPEN	8	2	2. Wearing Surface	0-OTHER 41
3. Curbs, Sidewalks, Walkways	2-STEEL	9	2	4. Median	W.S. Date =
5. Railing	6-STEEL POST & STEEL PAN	10	2	6. Drainage	5-DRN TROUGH UNDR OPEN J 43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	2	8. Summary	44
SUPERSTRUCTURE		MAX.SPAN=220	1	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL 45
9. Alignment		12	1	12. Joists/Stringers	46
11. Diaphragms or Crossframes	TOT.LGTH=559	13	1	14. Floor Beam Connections	47
13. Floor Beams		14	2	16. Diagonals	48
15. Verticals		15	1	18. Top Chord	49
17. End Posts		16	1	20. Lower Lateral Bracing	50
19. Lower Chord		17	1	22. Sway Bracing	51
21. Top Lateral Bracing		18	1	24. Bearing Devices	2-ROCKERS N-NONE 52
23. Portals		19	1	26. Arch Columns or Hangers	53
25. Arch		20	1	28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1992 54
27. Spandrel Walls		21	1	30. Fatigue Prone Connections	55
29. Pins/Hangers/Hinges		22	1	32. Summary	56
31. Live Load Response		23	S		
SUBSTRUCTURE		7-STEEL AND CONCRETE	1	PIERS=9	SPANS = 1
33. Abutments	7-STEEL AND CONCRETE	24	1	34. Abutment Seats	57
35. Piers	TYPE = 3-CONCRETE AND STONE	25	2	36. Pier Seats	58
37. Backwalls		26	1	38. Wingwalls	ABUTMENT:=CIP REI / CIP REI 59
39. Fenders and Dolphins		27	4	40. Scour	7-COUNTERMEAS INSTALLED 60
41. Slope Protection	N-NONE	28	1	42. Summary	DIVE DT=06/01/1939 62
CULVERTS					
43. General		29	1	44. Alignment	63
45. Shape		30	1	46. Seams	64
47. Headwalls or Endwalls		31	1	48. Scour	65
49.		32	1	50. Summary	66
CHANNEL					
51. Alignment		33	1	52. Protection	3-SHEET PILING 67
53. Waterway Adequacy		34	1	54. Summary	68
APPROACHES					
55. Pavement	1-CONCRETE	35	2	56. Approach Slabs	69
57. Guardrail	2-FLEX STEEL PLATE	36	1	58. Relief Joints	70
59. Embankment	BRDG.WIDTH=42.0	37	1	60. Summary	PCT.LEGAL=150 71
GENERAL					
61. Navigation Lights		38	1	62. Warning Signs	ROUTINE.RESP: 4-CITY/LOCAL MAINT.RESP: 4-CITY/LOCAL 72
63. Sign Supports	MVC ON=14.0 UND=0000	39	1	64. Utilities	73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status	74

67. INSPECTED BY

68. REVIEWED BY

SIGNED _____ 76 PE

 78 INITIALS

SIGNED _____ 81 PE

 83 INITIALS

DOT 2852

DECK AREA 32,970

Date

Date

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	6	9	2	6	4
Structure File Number						7

Bridge Number **CUY CARTR 1002M**
CO ROUTE UNIT

Date Built 07/01/1939

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

Type Service **1 15**

LIME ST.CUY RVR & B&O RR

00 NO REMARKS FOUND FOR THIS INSPECTION.