

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] N OFF RIVER RD (FLATS) 41-29-51 = 41.497500 081-42-38 = - 81.710556

1869981 Highway agency district 12 Owner City or Municipal Highway Agency [04] Maintenance responsibility City or Municipal Highway Agency [04]

Route #Num! WILLOW ST Toll On free road [3] Features intersected CUYAHOGA RIVER

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

1 Movable - Lift [15] 2 Frame [07] Year built 1965 Year reconstructed 1987

Skew angle 0 Structure Flared

Historical significance Historical significance is not determinable at this time. [4]

Total length 106.7 m = 350.1 ft Length of maximum span 94.5 m = 310.1 ft Deck width, out-to-out 14.6 m = 47.9 ft Bridge roadway width, curb-to-curb 7.9 m = 25.9 ft

Inventory Route, Total Horizontal Clearance 7.9 m = 25.9 ft Curb or sidewalk width - left 1.2 m = 3.9 ft Curb or sidewalk width - right 1.2 m = 3.9 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 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	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	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Fair [5]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
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	Functionally obsolete [2]
Pier or abutment protection	In place but re-evaluation of design suggested [4]	Sufficiency rating	60.5
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 1987 [0687]
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	February 1996 [0296]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**
Structure File Number **1869981**
Sufficiency Rating: **63.6 fo**

Bridge Inventory Information
Inventory Bridge Number: **CUY WILLOW 1068M**
ON CUYAHOGA RIVER

Report Date **09/19/2012** **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: **N OFF RIVER RD (FLATS)** (102) Facility Carried: **WILLOW ST**
(2) FIPS Code: **CLEVELAND** (103) Route On Bridge: **MUNICIPAL** (104) Route Under Bridge: **OTHER**
(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** (63) Main Spans Number: **1** Type: **STEEL / TRUSS / MOVABLE - LIFT**
Route No.: **WILLOW** Dir: Des: **BUSINESS** Pref: Approach Spans Number: **2** Type: **STEEL / FRAME / OTHER**
Total Spans: **3** (65) Max Span: **310 Ft** (66) Overall Leng: **350 Ft**

(4) Feature Intersected: **CUYAHOGA RIVER** (70) Substructure (71) Foundation and Scour Information
(5) County: **CUY** Mileage: **1068M** Special Desig: Abut-Rear Matl: **STEEL AND CONCRETE** Type: **OTHER** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
(6) Avg. Daily Traffic(ADT): **4,000** (7) ADT Year: **1975** Abut-Fwd Matl: **STEEL AND CONCRETE** Type: **OTHER** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
(8) Truck Traf: **3,350** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **GRAVITY** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
(16) Functional Class: **OTHER PRINCIPAL ARTERIAL-URBAN** (19) Strahnt: **Not Applicable** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **OTHER**

Intersected Route Data
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **02** Other: **NN** Other: **NN**
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(23) Feature Intersected: (189) Dive: **Y Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **SHEET PILING**
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: **06/01/1987** (152) Drainage Area: **UUU** Sq Mi

(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

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**

Clearance On the Bridge
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **26.0 Ft**
(155) Prac Max Vert On Brg: **15.0 Ft**
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **15.0 Ft**
(80) Min Latl Clr: NC: **0.0 / 0.0 Ft** Card: **0.0 / 1.5 Ft**
(81) Vrt Clr Lft: **0.0 Ft**

Structure Information
(38) Bypass Length: **03 Miles**
(39) Latitude: **41 Deg 29.9 Min** Longitude: **81 Deg 42.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1965** (42) Major Rehabilitation: **01/01/1987**
(43) No. Lanes On: **2** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0 Deg**
(49) App. Rdw Width: **30 Ft** (50) Brg. Rdw Width: **26.0 Ft**
(51) Deck Width: **48.0 Ft** Deck Area: **16803** Sq. Ft

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **3 Ft** (right) **3 Ft**
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SIDEWALK(>2')**
(Right) Matl: **CONCRETE** Type: **SIDEWALK(>2')**
(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**
(62) Wearing Surface: **OTHER**
Thickness: **3.9** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal

(48) Design Load: **H/20** (Including calculated Items)
(83) Operating: **36 Ton**
Inventory: **36 Ton**
Ohio Percent of Legal Load **150** (88) Waterway Adequacy **9**
Year of Rating: **1989** (89) Approach Alignment **6**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **5**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **3**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **STEEL CABLE**
(110) Approach Pavement: **CONCRETE** (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 **ROLLED STEEL** (122) Moment Plate: **NONE**
(169) Expansion Joint: **METAL FINGER**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- Y** Vert Clr: **98.0 Ft** Horiz Clear: **170.0 Ft**
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **12** Date: **1996-02-07**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Paint: **OTHER**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN**
Bridge Dedicated Name:

Unit of Measure: **English**
 Structure File Number **1869981**
 Sufficiency Rating: **63.6 fo**

Bridge Inventory Information
 Inventory Bridge Number: **CUY WILLOW 1068M**
ON CUYAHOGA RIVER

Report Date **09/19/2012** 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: **NOT DETERMINED** (69) NBIS: **Y**
 (---) Hist Builder: **NONE N/A** Hist Build Year:
 (69) Hist Type: **NONE N/A**
 (161) Special Features (see below):
 (105) Border Bridge State: Resp % (106) SFN:

(142) Fabricator:
 (143) Contractor:
 (144) Ohio Original Construction Project No.:
 (---) Microfilm Reel:
 (151) Standard Drawing:
 Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**

Proposed Improvements **Programming Info**
 (90) Type Work: - PID Number: **3462**
 (90) Length: Ft PID Status: **PROGRAM**
 (90) Bridge Cost (\$1000s): **0** PID Date: **01/08/1985**
 (90) Roadway Cost (\$1000s): **0**
 (90) Total Project Cost (\$1000s): **0** (90) Year:
 (91) Future ADT (On Bridge): **0** (92) Year of Future ADT: **2033**

Plan Information Available: **1PLAN INFORMATION AVAILABLE**
 (153) Repair Projects
 1. / **020** 2. / **020** 3. / **MMM**
 4. / 5. 6.
 7. 8. 9.
 10.

Inspection Summary **(I-69) Survey Items**
 (I-8) Deck: **9** Railings: **1 MEETS CURRENT STANDARDS**
 (I-32) Superstructure: **5** Transitions: **N NONE N/A**
 (I-42) Substructure: **7** Guardrail: **N NONE N/A**
 (I-50) Culvert: Rail Ends: **N NONE N/A**
 (I-54) Channel: **6** In Depth: **N NONE N/A**
 (I-60) Approaches: **6** Fracture Critical: **N NONE N/A**
 (I-66) General Appraisal: **5** Scour Critical: **N NONE N/A**
 (I-66) Operational Status: **C** Critical Findings: **N NONE N/A**
 Inspection Date: **09/22/2011** Insp. Update Date: **01/06/2012**
 (94) Desig Insp Freq: **12 Months**

Utilities **Special Features**
 (46) Electric: **U** (161) Lighting: **N**
 Gas: **U** Fencing: **Y**
 Sanitary Sewer: **U** Glare-Screen: **N**
 Telephone: **U** Splash-Guard: **Y**
 TV Cable: **U** Catwalks: **N**
 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: -
 SFNs That where replaced by this bridge: -
 This bridge was retired and copied to:
 The bridge was copied from:

INV Field Bridge Marker: **CUY-WILOW-1068M-**
 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%

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BRIDGE INSPECTION REPORT

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1	8	6	9	9	8	1
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Bridge Number **CUY WIL01068M** CLEVELAND
CO ROUTE UNIT

Date Built **07/01/1965 - 1987**

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

Type Service **1** **15 CUYAHOGA RIVER**

CUY

DECK		Out/Out 48.0	1	THCK = 3.9		1
1. Floor	5-STEEL GRID - OPEN	8	1	2. Wearing Surface	0-OTHER	41
		1-CONCRETE	1	W.S. Date =		
3. Curbs, Sidewalks, Walkways	1-CONCRETE	9	1	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	1	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	1-METAL FINGER	11	1	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=310	1			2
9. Alignment		12	1	10. Beams/Girders/Slab	1-ROLLED STEEL	45
		TOT.LGTH=350	2			1
11. Diaphragms or Crossframes		13	2	12. Joists/Stringers		46
13. Floor Beams		14	2	14. Floor Beam Connections		47
15. Verticals		15	1	16. Diagonals		48
17. End Posts		16	1	18. Top Chord		49
19. Lower Chord		17	1	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18	1	22. Sway Bracing		51
23. Portals		19	1	24. Bearing Devices	2-ROCKERS N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1986	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	32. Summary		56
SUBSTRUCTURE		7-STEEL AND CONCRETE	1	PIERS=2 SPANS = 1		1
33. Abutments	7-STEEL AND CONCRETE	24	1	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	1	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		42. Summary		62
				DIVE DT=06/01/1987		7
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		4
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	54. Summary		68
APPROACHES						
55. Pavement	1-CONCRETE	35	2	56. Approach Slabs		69
57. Guardrail	3-STEEL CABLE	36		58. Relief Joints		70
59. Embankment	BRDG.WIDTH=26.0	37	1	60. Summary		71
				PCT.LEGAL=150		
GENERAL				ROUTINE.RESP: 4-CITY/LOCAL		4
61. Navigation Lights		38	1	62. Warning Signs	MAINT.RESP: 4-CITY/LOCAL	72
63. Sign Supports	MVC ON=15.0 UND=0000	39	1	64. Utilities		73
65. Vertical Clearance		40	1	66. General Appraisal & Operational Status		74
				COND STAT		5 C

67. INSPECTED BY

68. REVIEWED BY

SIGNED

76 PE

J D
78 INITIALS

SIGNED

7 0 8 9 0
81 PE

J H
83 INITIALS

DOT 2852

DECK AREA 16,803

Date 0 9 2 2 1 1
86 91

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

Date 1 2 2 0 1 1
100 105

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1 Structure File Number 7

Bridge Number **CUY WILLOW 1068M**
CO ROUTE UNIT

Date Built 07/01/1965 - 1987

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

Type Service **1 15**

CUYAHOGA RIVER

00 NO REMARKS FOUND FOR THIS INSPECTION.
