

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]	Lake County [085]	Willoughby Hills [85512]	INTERSECTION OF DODD RD	00-00-00 = 0.000000	000-00-00 = -0.000000
4370554	Highway agency district 12	Owner City or Municipal Highway Agency [04]	Maintenance responsibility City or Municipal Highway Agency [04]		
Route 85	PLEASANT VALLEY RD	Toll On free road [3]	Features intersected PLEASANT VALLEY O/CHAGR		
Design - main Steel [3]	Design - approach	Kilometerpoint 0 km = 0.0 mi	Year built 1881	Year reconstructed 2005	
1	Truss - Thru [10]	0	Other [00]	Skew angle 0	Structure Flared
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length 50.9 m = 167.0 ft	Length of maximum span 49.7 m = 163.1 ft	Deck width, out-to-out 4.7 m = 15.4 ft	Bridge roadway width, curb-to-curb 4.7 m = 15.4 ft		
Inventory Route, Total Horizontal Clearance 4.7 m = 15.4 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 ft			
Deck structure type	Wood or Timber [8]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0 km = 0.0 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	4.5 metric ton = 5.0 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	6.2 metric ton = 6.8 tons
Bridge posting			Design Load	MS 18 / HS 20 [5]

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

Posted for load [P]

Appraisal ratings -
structural

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - superstructure

Good [7]

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 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 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

Equal to present desirable criteria [8]

Status evaluation

Pier or abutment protection

Sufficiency rating

29.1

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

Inspected feature meets currently acceptable standards. [1]

Traffic safety features - approach guardrail

Inspected feature meets currently acceptable standards. [1]

Traffic safety features - approach guardrail ends

Inspected feature meets currently acceptable standards. [1]

Inspection date

December 2010 [1210]

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

Unit of Measure: **English**
Structure File Number **4370554**
Sufficiency Rating: **29.0**

Bridge Inventory Information
Inventory Bridge Number: **LAK 00085 0050**
ON PLEASANT VALLEY O/CHAGR

Report Date **09/05/2012** **BM-191** Page: 1 of 2
BR. Type STEEL / TRUSS / THRU
Date of Last Inventory Update: **08/16/2012**

District: **12** County **LAKE** (101) Location: **INTERSECTION OF DODD RD** (102) Facility Carried: **PLEASANT VALLEY RD**
(2) FIPS Code: **WILLOUGHBY HILLS** (103) Route On Bridge: **MUNICIPAL** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **ONE LANE FOR 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 / THRU**
Route No.: **00085** Dir: Des: **MAINLINE** Pref: Approach Spans Number: 0 Type: **NONE / NONE / NONE**
Total Spans: 1 (65) Max Span: **163** Ft (66) Overall Leng: **167** Ft

(4) Feature Intersected: **PLEASANT VALLEY O/CHAGR** (70) Substructure (71) Foundation and Scour Information
(5) County: **WIH** Mileage: **0050** Special Desig: Abut-Rear Matl: **STONE** Type: **SOLID WALL** Fnd: **ROCK**
(6) Avg. Daily Traffic(ADT): **480** (7) ADT Year: **1995** Abut-Fwd Matl: **STONE** Type: **SOLID WALL** Fnd: **ROCK**
(8) Truck Traf: **0** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **NONE** Type: **NONE** Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
(16) Functional Class: **LOCAL ROAD-URBAN** (19) Strahnt: **Not Applicable** 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)**

Intersected Route Data
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **NN** Other: **NN** Other: **NN**
Route No.: Dir: Des: Pref: (86) Stream Velocity: **000.0** (74) Scour: **STABLE: EVAL SCOUR ABOVE TOP OF FOOTING**
(23) Feature Intersected: (189) Dive: **N Freq: 0** Probe: **Y Freq: 12** (75) Chan Prot: **NONE**
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: (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: **15.4** Ft
(155) Prac Max Vert On Brg: **18.5** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **18.5** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information
(38) Bypass Length: **00** Miles
(39) Latitude: **41 Deg 35.4 Min** Longitude: **81 Deg 24.2 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1881** (42) Major Rehabilitation: **07/01/2005**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **Deg. Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **18** Ft (50) Brg. Rdw Width: **15.4** Ft
(51) Deck Width: **15.4** Ft Deck Area: **2573** Sq. Ft

(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite:
(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **LAMINATED TIMBER STRIP**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **BITUM (ASPHLT CONCRT)**
Thickness: **2.0** in (119) Date of Wearing Surface:
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

Load Rating Information (88-89) Appraisal
(48) Design Load: **HS/20** (Including calculated Items)
(83) Operating: **7** Ton
Inventory: **5** Ton
Ohio Percent of Legal Load **5** (88) Waterway Adequacy **8**
Year of Rating: **2005** (89) Approach Alignment **6**
(84) Analysis: **ENGINEERING JUDGEMENT [DEFAULT]** Calc Gen Appraisal: **3**
(85) Rate Soft: **NO SOFTWARE USED** Analyzed by: Calc Deck Geometry: **2**
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

Approach Information
(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

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 **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **SLIDING (BRONZE)/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **TWO TRUSSES (RIVETED)** (135) Hinges: **PINS AND HANGERS**
(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 **4370554**
 Sufficiency Rating: **29.0**

Bridge Inventory Information
 Inventory Bridge Number: **LAK 00085 0050**
ON PLEASANT VALLEY O/CHAGR

Report Date **09/05/2012** **BM-191** Page: 2 of 2
BR. Type STEEL/TRUSS/THRU
 Date of Last Inventory Update: **08/16/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: NON-REGISTERED HISTORIC BRIDGE		(69) NBIS: Y		(142) Fabricator:			
(---) Hist Builder: WROUGHT IRON BRIDGE CO		Hist Build Year: 1881		(143) Contractor:			
(CANTON, OHIO)				(144) Ohio Original Construction Project No.:			
(69) Hist Type: DOUBLE INTERSECTION PRATT (WHIPPLE)				(---) Microfilm Reel:			
(161) Special Features (see below):				(151) Standard Drawing:			
(105) Border Bridge State: Resp % (106) SFN:				Aperture Cards: Orig: N Repair: N Fabr: N			
Proposed Improvements		Programming Info		Plan Information Available: 1PLAN INFORMATION AVAILABLE			
(90) Type Work: -		PID Number:		(153) Repair Projects			
(90) Length: Ft		PID Status:		1. / MMM		2. / 020	
(90) Bridge Cost (\$1000s): 0		PID Date:		3.		4.	
(90) Roadway Cost (\$1000s): 0				5.		6.	
(90) Total Project Cost (\$1000s): 0		(90) Year:		7.		8.	
(91) Future ADT (On Bridge): 0		(92) Year of Future ADT: 2030		10.		9.	
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: 7	Railings: 1 MEETS CURRENT STANDARDS	(46) Electric: U	(161) Lighting: N	Gas: U	Fencing: N	(184) Signs-on: N	
(I-32) Superstructure: 7	Transitions: 1 MEETS CURRENT STANDARDS	Sanitary Sewer: U	Glare-Screen: N	Telephone: U	Splash-Guard: N	Signs-Under: N	
(I-42) Substructure: 7	Guardrail: 1 MEETS CURRENT STANDARDS	TV Cable: U	Catwalks: N	Water: U	Other-Feat: U	(162) Fence-Ht: 0.0 Ft	
(I-50) Culvert: 7	Rail Ends: 1 MEETS CURRENT STANDARDS	Other: U	Other-Feat: U	(163) Noise Barr: N			
(I-54) Channel: 7	In Depth: N NONE N/A						
(I-60) Approaches: 7	Fracture Critical: 1 MEETS CURRENT STANDARDS						
(I-66) General Appraisal: 7	Scour Critical: N NONE N/A						
(I-66) Operational Status: P	Critical Findings: N NONE N/A						
Inspection Date: 01/06/2012	Insp. Update Date: 03/09/2012						
(94) Desig Insp Freq: 12 Months							
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: LAK-00085-0050 -			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: ---			
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

4 3 7 0 5 5 4
1 Structure File Number 7

Bridge Number **LAK 00085 0050**
CO ROUTE UNIT

WILLOUGHBY HILLS

Date Built **07/01/1881 - 2005**

District **12** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15 PLEASANT VALLEY O/CHAGR**

LAK

DECK		Out/Out 15.4	1	THCK = 2.0		1
1. Floor	2-LAMINATED TIMBER STRIP	8	1	2. Wearing Surface	6-BITUM (ASPHLT CONCRT)	41
		N-NONE		W.S. Date =		
3. Curbs, Sidewalks, Walkways		N-NONE	9	4. Median		42
5. Railing	7-STL GUARDRL ON STL, CO	10	1	6. Drainage	1-OVER THE SIDE (W/O DRI	43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	1	8. Summary		44
SUPERSTRUCTURE		MAX.SPAN=163	1			
9. Alignment			12	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45
		TOT.LGTH=167				
11. Diaphragms or Crossframes			13	12. Joists/Stringers		46
13. Floor Beams			14	14. Floor Beam Connections		47
15. Verticals			15	16. Diagonals		48
17. End Posts			16	18. Top Chord		49
19. Lower Chord			17	20. Lower Lateral Bracing		50
21. Top Lateral Bracing			18	22. Sway Bracing		51
23. Portals			19	24. Bearing Devices	3-SLIDING (BRONZE) N-NONE	52
25. Arch			20	26. Arch Columns or Hangers		53
27. Spandrel Walls			21	28. Protective Coating System	TYPE = 0-OTHER DATE = 01/01/1979	54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections		55
31. Live Load Response			23	32. Summary		56
SUBSTRUCTURE		1-STONE	2	PIERS=0 SPANS = 1		1
33. Abutments	1-STONE	24	2	34. Abutment Seats		57
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58
37. Backwalls			26	38. Wingwalls	ABUTMENT:=ROCK / ROCK	59
39. Fenders and Dolphins			27	40. Scour	8-STABLE: EVAL SCOUR ABO	60
41. Slope Protection	N-NONE	28		42. Summary		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						
51. Alignment			33	52. Protection	N-NONE	67
53. Waterway Adequacy			34	54. Summary		68
APPROACHES						
55. Pavement	2-BITUMINOUS	35	1	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=15.4	37	2	60. Summary		71
GENERAL						
61. Navigation Lights			38	62. Warning Signs	ROUTINE.RESP: 4-CITY/LOCAL MAINT.RESP: 4-CITY/LOCAL	72
63. Sign Supports	MVC ON=18.5 UND=0000		39	64. Utilities		73
65. Vertical Clearance			40	66. General Appraisal & Operational Status		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

6 9 7 0 1
76 PE

J P
78 INITIALS

SIGNED

3 9 0 1 7
81 PE

D L
83 INITIALS

DOT 2852

DECK AREA 2,573

Date

0 1 0 6 1 2
86 91

Date

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

Date

0 3 0 4 1 2
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

4	3	7	0	5	5	4
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1 Structure File Number 7

Bridge Number **LAK** **00085** **0050**
CO ROUTE UNIT

Date Built 07/01/1881 - 2005

District **12** Bridge Type **STEEL/TRUSS/THRU**

Type Service **1 15**

PLEASANT VALLEY O/CHAGR

00 NO REMARKS FOUND FOR THIS INSPECTION.
