

## BRIDGE INSPECTION REPORT

4303040  
Structure File NumberBRIDGE NUMBER **LAK 00084 1888**YEAR BUILT **2006**DIST **12** Bridge Type **121** TYPE SERVICE **1 5** **GRAND RIVER**

<b>DECK</b>	out/out 42 Deck Area 30,925 sqft		2 INTEGRAL CONCRETE (MONOLITHIC)	
1. FLOOR	1 REINF CONCRT (PRESTRSD, PRECAST)	1	2. WEARING SURFACE	Thk 1 1
3. CURBS, SIDEWALKS AND WALKWAYS	Left 2 SIDEWALK(>2') / Right 2 SIDEWALK(>2')	1	4. MEDIAN	Lanes on 2
5. RAILING	1 REINFORCED CONCRETE PARAPET	1	6. DRAINAGE	3 SCUPPERS & DWNSPTS 1
7. EXPANSION JOINTS	2 SLIDING METAL PLATE ANGLE	1	8. SUMMARY	8
<b>SUPERSTRUCTURE</b>			7 CONCRETE GIRDER	
9. ALIGNMENT	Max Spans 110	1	10. BEAMS/GIRDERS/SLAB	1
11. DIAPHRAGMS or CROSSFRAMES		1	12. JOISTS/STRINGERS	
13. FLOOR BEAMS			14. FLOOR BEAM CONNECTIONS	
15. VERTICALS			16. DIAGONALS	
17. END POSTS			18. TOP CHORD	
19. LOWER CHORD			20. LOWER LATERAL BRACING	
21. TOP LATERAL BRACING			22. SWAY BRACING	
23. PORTALS			24. BEARING DEVICES	C ELASTOMERIC (LAMIN.) 1
25. ARCH			26. ARCH COLUMNS or HANGERS	
27. SPANDREL WALLS			28. PROTECTIVE COATING SYSTEM	Paint Date 1/1/1990 5 PAINT SYSTEM OZE
29. PINS/HANGERS/HINGES			30. FATIGUE PRONE CONNECTIONS	
31. LIVE LOAD RESPONSE		S	32. SUMMARY	8
<b>SUBSTRUCTURE</b>			9 STUB-CAPPED PILE(MULTIPLE ROW PILES)	
33. ABUTMENTS	6 STUB-CAPPED PILE (SINGLE ROW PILES)	1	34. ABUTMENT SEATS	Abutment: ON PILING 1
35. PIERS		1	36. PIER SEATS	5 CAPPED COLUMN Piers: ON PILING 1
37. BACKWALLS			38. WINGWALLS	1
39. FENDERS and DOLPHINS	Piers = 04 02 NN Spans = 7		40. SCOUR	2 2
41. SLOPE PROTECTION	3 RIP RAP (DUMPED ROCK)	2	42. SUMMARY	Dive Date 12/30/1899 7
<b>CULVERTS</b>				
43. GENERAL	N NONE/NOT APPLICABLE		44. ALIGNMENT	
45. SHAPE			46. SEAMS	
47. HEADWALLS or ENDWALLS	Culvert Length 0		48. SCOUR	Culvert Fill Depth 0
49.			50. SUMMARY	
<b>CHANNEL</b>				
51. ALIGNMENT		2	52. PROTECTION	N NONE
53. WATERWAY ADEQUACY	8 SLIGHT CHANCE OVERTOPPING	1	54. SUMMARY	7
<b>APPROACHES</b>				
55. PAVEMENT	2 BITUMINOUS	1	56. APPROACH SLABS	1
57. GUARDRAIL	1 STEEL BEAM	1	58. RELIEF JOINTS	
59. EMBANKMENT		1	60. SUMMARY	Percent Legal = 150 8
<b>GENERAL</b>				
61. NAVIGATION LIGHTS			62. WARNING SIGNS	Maint Resp 1 OHIO TRAN DEPT
63. SIGN SUPPORTS	Signs on = N MVC on = 9999.9 Under C = 0		64. UTILITIES	2
65. VERTICAL CLEARANCE	Under NC = 0	N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	7 A
67. INSPECTED BY			68. REVIEWED BY	

SIGNED

PE Number

KJB  
INITIALS

SIGNED

60048 MJM  
PE Number INITIALS

DATE 7/28/2008

1 1 1 1 1 N N N  
SURVEY

DATE 3/4/2009

## DECK

FL: MINOR CRACKS. <1% DET.  
WS: MINOR CRACKS. <1% DET.  
EXJS: LOOSE BOLTS AT FINISH DECK ARMOR.

## SUPERSTRUCTURE

BEAMS: 1 SMALL CHIP ON LEFT FASCIA BEAM SPAN 3.  
DIAPHRAGMS: 5 SF DELAM TO CONCRETE IN BAY #2 OVER PIER #1;  
SEE ATTACHED PHOTOS 1 & 2 DATED 7/28/08.

## SUBSTRUCTURE

SCOUR: UP RIVER NOSE, FINISH SIDE, & 1/3 OF START SIDE OF  
PIER #2 FOOTER ARE EXPOSED. THERE IS AS MUCH AS 15" OF

VERTICAL FACE EXPOSED (MOSTLY TO THE NOSE AREA OF P2).  
UP RIVER NOSE & 1/2 OF FINISH SIDE OF PIER #3 FOOTER  
ARE EXPOSED. THERE IS AS MUCH AS 12" OF VERTICAL FACE  
EXPOSED (MOSTLY TO THE NOSE AREA OF P3). WATER IS  
SOMEWHAT STAGNET AT PIER #3 AT 2008 INSPECTION.

SLOPE PROTECT: SOME WASH OUTS UNDER BRIDGE; SEE ATTACHED  
PHOTOS 6 & 7 DATED 7/28/08.

## CHANNEL

ALIGNMENT: RIVER FLOWS MOSTLY INTO FINISH SIDE OF PIER #2.  
SOME S CURVE GOING ON TO UP RIVER SIDE. SEE  
ATTACHED PHOTOS 4 - 7 DATED 7/28/08.

NOTE: WATER SWIRLS TO UP RIVER SIDE NEAR SPAN #3.

## APPROACHES

PAVEMENT: SOME CRACKS TO START CONCRETE APPROACH SLAB.

## GENERAL

UTIL: SOME MISALIGNMENT OF 16" PIPE IN BAY 3#; SEE ATTACHED  
PHOTO 3 DATED 7/28/08.

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P1: 5 SF DELAM TO CONCRETE DIAPHRAGM.



P2: CLOSE-UP OF P1.

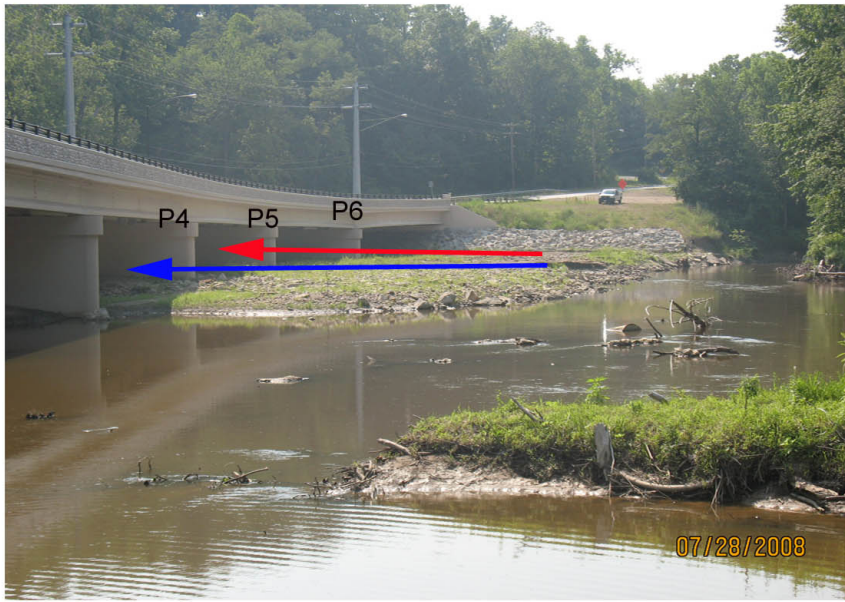


P3: TYPICAL MISALIGNMENT OF 16" PIPE IN BAY #3



P4: NOTE LOG JAM BETWEEN PIER 5 AND UTIL POLE FOUNDATION. HIGH WATER FLOWS THRU HERE.

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P5: RED LINE AND BLUE LINE SHOW PATH OF HIGH WATER FLOW.



P6: THIS IS THE PATH OF THE RED LINE IN P5. NOTE SOME WASH OUT TO FINISH SIDE OF PIER #4.



P7: THIS IS THE PATH OF THE BLUE LINE IN P5. NOTE THE SMALL POND THAT THE ARROW IS POINTING TO. POND IS AS DEEP AS 3 FT.