

## BRIDGE INSPECTION REPORT

1801503  
Structure File Number

BRIDGE NUMBER CUY 00010 1613

YEAR BUILT 1932

DIST 12 Bridge Type 343 TYPE SERVICE 5 7 CUY RIVER VALLEY &amp; FI RR

<b>DECK</b>	out/out 83 Deck Area 272,652 sqft		C MICROSILICA MODIFIED CONCRETE OVERLAY	
1. FLOOR	1 REINF CONCRT (PRESTRSD, PRECAST)	3	2. WEARING SURFACE	Thk 1.5 Wear Date 9/1/2001 1
3. CURBS, SIDEWALKS AND WALKWAYS	Left 2 SIDEWALK(>2') / Right 2 SIDEWALK(>2')	1	4. MEDIAN	Lanes on 4
5. RAILING	5 REINF CONCR POST & CONCR PANE	1	6. DRAINAGE	3 SCUPPERS & DWNSPTS 1
7. EXPANSION JOINTS	0 OTHER	2	8. SUMMARY	5
<b>SUPERSTRUCTURE</b>			15 ROLLED STEEL	
9. ALIGNMENT	Max Spans 299	1	10. BEAMS/GIRDERS/SLAB	1
11. DIAPHRAGMS or CROSSFRAMES		1	12. JOISTS/STRINGERS	2
13. FLOOR BEAMS		2	14. FLOOR BEAM CONNECTIONS	1
15. VERTICALS		2	16. DIAGONALS	2
17. END POSTS			18. UPPER CHORD	1
19. LOWER CHORD		3	20. GUSSET PLATES	3
21. LATERAL BRACING		1	22. SWAY BRACING	1
23. PORTALS			24. BEARING DEVICES	1 ROLLERS 2
25. ARCH			26. ARCH COLUMNS or HANGERS	
27. SPANDREL WALLS			28. PROTECTIVE COATING SYSTEM	Paint Date 3/4/2004 5 PAINT SYSTEM OZE 7
29. PINS/HANGERS/HINGES		2	30. FATIGUE PRONE DETAIL (E, E')	1
31. LIVE LOAD RESPONSE (E OR S)		S	32. SUMMARY	4
<b>SUBSTRUCTURE</b>			2 CANTILEVER	
33. ABUTMENTS	3 SOLID WALL	1	34. ABUTMENT SEATS	Abutment: NOT ON PILING 1
35. PIERS		2	36. PIER SEATS	4 OPEN COLUMN Piers: NOT ON PILING 1
37. BACKWALLS		1	38. WINGWALLS	1
39. FENDERS and DOLPHINS	Piers = 15 03 01 Spans = 20	4	40. SCOUR (INSP TYPE - 1,2,3)	3 2
41. SLOPE PROTECTION	N NONE-NATURAL PROTECTION(GRA)		42. SUMMARY	Dive Date 12/30/2010 6
<b>CULVERTS</b>				
43. GENERAL	N NONE/NOT APPLICABLE		44. ALIGNMENT	
45. SHAPE			46. SEAMS	
47. HEADWALLS or ENDWALLS	Culvert Length 0		48. SCOUR (INSP TYPE - 1,2,3)	
49. ABUTMENT			50. SUMMARY	
<b>CHANNEL</b>				
51. ALIGNMENT		2	52. PROTECTION	4 PILING 2
53. HYDRAULIC OPENING	8 SLIGHT CHANCE OVERTOPPING	1	54. SUMMARY	6
<b>APPROACHES</b>				
55. PAVEMENT	2 BITUMINOUS	1	56. APPROACH SLABS	1
57. GUARDRAIL	0 OTHER	1	58. RELIEF JOINTS	
59. EMBANKMENT		1	60. SUMMARY	Percent Legal = 150 8
<b>GENERAL</b>				
61. NAVIGATION LIGHTS		1	62. WARNING SIGNS	Maint Resp 1 OHIO TRAN DEPT
63. SIGN SUPPORTS	Signs on = N MVC on = 9999.9 Under C = 0		64. UTILITIES	3
65. VERTICAL CLEARANCE	Under NC = 0	N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	4 A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

PE Number

SIGNED

69991

PE Number

Name ANTHONY KOLOZE

Name WESLEY WEIR

DATE 12/7/2011

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SURVEY

DATE 12/7/2011

## DECK

FLOOR: THE EAST CELLULAR UNIT EXHIBITS ONE 10' DIAMETER SPALLED AREA EXHIBITING 7 CONSECUTIVE TRANVERSE BARS WITH 100% SECTION LOSS, AS WELL AS SPALLS WITH EXPOSED REBAR EXHIBITING MINOR SECTION LOSS OVER 10% OF THE DECK AREA. THE MAIN TRUSS SPANS DECK SOFFIT EXHIBITS SPALLS WITH EXPOSED REBAR IN ISOLATED LOCATIONS OVER UP TO 5% OF TOTAL DECK AREA, AND TRANSVERSE CRACKING AT 10' SPACINGS WITH EFFLORESCENCE. THE UTILITY DECK UNDERSIDE EXHIBITS WIDESPREAD SPALLING DUE TO 1" TO 2" THICK CONCRETE THAT WAS POURED BELOW THE UNDERSIDE OF FLOORBEAM TOP FLANGES, WHICH ARE POTENTIAL FALLING HAZARDS OVER THE STREETS AND INDUSTRIAL YARD BELOW. EXPANSION JOINTS: ISOLATED EXPANSION JOINTS EXHIBIT AREAS OF TORN NEOPRENE GLANDS.

## SUPERSTRUCTURE

STRINGERS: The first interior stringers of the main truss spans exhibit isolated holed through sections and minor pitting (cleaned and painted) on the web and bottom flanges.

VERTICALS: Moderate section loss (cleaned and painted) noted with isolated locations up to 1/4" due to previous corrosion. Pack rust between web plates and flange angles is beginning to reactivate.

DIAGONALS: Moderate section loss with isolated advanced section loss to web up to 1/4" at gusset plate interface (cleaned and painted).

LOWER CHORD: Moderate section loss with isolated areas of advanced loss due to previous corrosion of web plates and rivet heads. Pack rust is beginning to reactivate in several locations, mainly between web plates and top flange angles.

GUSSET PLATES: Typical moderate section loss up to 10% widespread throughout gusset plates with isolated areas of advanced section loss up to 50%. Isolated average section loss of 20% noted on gusset plates along lower chord members. Gusset plate CL70S exhibits a laminar split on the west free edge below the diagonal, reducing the effective gusset plate thickness to 1/4" remaining.

PCS: Rust staining over the top coat on truss members primarily beneath leaking joints.

PINS/HANGERS/HINGES: Pins exhibit pack rust between web plates and gusset plates which have caused bending in chord web plates, preventing sliding pins from fully bearing on chord members. Lower chord sliding pins

at panel points AL17 and BL41 appear to be frozen as a result of pack rust. Several pins exhibit advanced wear up to 1/4" along one-third of the pin diameter. FPD(E&E'): Utility deck floorbeams exhibit cracks due to lack of radial coping at truss connections. Isolated cracks in floorbeams have not been arrested, and crack ends without arrest holes have been marked and dated to monitor propagation.

#### SUBSTRUCTURE

PIERS: Large spalls with exposed rebar are typical throughout pier towers above truss bearings, with many spalls now sealed. The exterior walls of the piers exhibit hairline cracks and isolated corner spalls along outside corbels.

FENDERS: Severe timber rot and collision damage have caused total failure of the fender system.

#### CHANNEL

ALIGNMENT: CHANNEL HAS A SHARP BEND JUST UPSTREAM OF THE BRIDGE.

PROTECTION: WEST BANK SHEET PILING IS WASHED OUT 200 YARDS NORTH (DOWNSTREAM) OF THE BRIDGE.

#### GENERAL

UTILITIES: WIDESPREAD CRACKING WITH ISOLATED SPALLS NOTED ON PRECAST CONCRETE LIGHT POLES MOUNTED OUTSIDE BRIDGE RAILING. NUMEROUS ACCESS COVERS FOR ELECTRICAL BOXES AND HAND ACCESS HATCHES ON LIGHT POLES MISSING.

SEVERAL DAMAGED OR MISSING DECORATIVE LIGHTS LOCATED ON PIERS.