

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 & FI RR

DECK	out/out 83 Deck Area 272,652 sqft		C MICROSILICA MODIFIED CONCRETE OVERLAY	
1. FLOOR	1 REINF CONCRT (PRESTRSD, PRECAST)	2	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	6
SUPERSTRUCTURE			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. TOP CHORD	1
19. LOWER CHORD		2	20. LOWER LATERAL BRACING	1
21. TOP LATERAL BRACING			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 CONNECTIONS	3
31. LIVE LOAD RESPONSE		S	32. SUMMARY	5
SUBSTRUCTURE			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	3 2
41. SLOPE PROTECTION	N NONE-NATURAL PROTECTION(GRA)		42. SUMMARY	Dive Date 10/12/2005 6
CULVERTS				
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	
CHANNEL				
51. ALIGNMENT		2	52. PROTECTION	4 PILING 2
53. WATERWAY ADEQUACY	8 SLIGHT CHANCE OVERTOPPING	1	54. SUMMARY	6
APPROACHES				
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
GENERAL				
61. NAVIGATION LIGHTS		1	62. WARNING SIGNS	Maint Resp 1 OHIO TRAN DEPT
63. SIGN SUPPORTS	Signs on = N MVC on = 9999.9		64. UTILITIES	3
65. VERTICAL CLEARANCE	Under C = 0 Under NC = 0	N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	5 A
67. INSPECTED BY			68. REVIEWED BY	

SIGNED

PE Number

ADK
INITIALS

SIGNED

69991 WRW
PE Number INITIALS

DATE 12/30/2010

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SURVEY

DATE 12/30/2010

DECK

FLOOR: TRUSS SPANS PRIMARY DECK UNDERSIDE EXHIBITS ISOLATED SPALLS WITH EXPOSED REBAR OVER UP TO 5% OF THE DECK AREA. TYPICALLY THESE SPALLS HAVE BEEN SEALED. TRANSVERSE CRACKS WITH EFFLORESCENCE AT 10' SPACINGS NOTED. EAST APPROACH 5-10% DETERIORATION.

UTILITY DECK "HAUNCH" SPALLS (1" OF CONCRETE POURED BELOW THE FLOORBEAM TOP FLANGES) NOTED THROUGHOUT.

RAILING: CONCRETE EXHIBITS HAIRLINE CRACKING WITH RUST STAINS AT SEVERAL LOCATIONS.

EXPANSION JOINTS: THE EXPANSION JOINTS EXHIBIT ISOLATED AREAS OF TORN GLANDS THAT ARE LEAKING ONTO THE SUPERSTRUCTURE.

SUPERSTRUCTURE

STRINGERS: THE FIRST INTERIOR STRINGERS OF THE TRUSS SPANS EXHIBIT MINOR PITTING ON THE WEB AND BOTTOM FLANGE (CLEANED AND PAINTED) WITH ISOLATED HOLED THROUGH SECTIONS.

LOWER CHORD: TYPICAL MODERATE AND ISOLATED AREAS OF ADVANCED SECTION LOSS DUE TO PREVIOUS CORROSION ON WEB PLATES AND RIVET HEADS. PACK RUST IS BEGINNING TO RE-ACTIVATE BETWEEN COMPONENTS, PRIMARILY BETWEEN WEB PLATES AND TOP FLANGE ANGLES.

VERTICALS: TYPICAL MODERATE SECTION LOSS UP TO 1/4" DUE TO PREVIOUS CORROSION. PACK RUST IS BEGINNING TO REACTIVATE.

DIAGONALS: TYPICAL SECTION LOSS WITH ISOLATED AREAS OF ADVANCED SECTION LOSS UP TO 1/4" TO THE WEB AT THE INTERFACE WITH GUSSET PLATES (CLEANED AND PAINTED).

GUSSET PLATES: TYPICAL MODERATE SECTION LOSS UP TO 1/8" WITH ISOLATED AREAS OF ADVANCED SECTION LOSS UP TO 1/4". GUSSET PLATE CL70S EXHIBITS A LAMINAR SPLIT UNDER THE WEST DIAGONAL REDUCING THE GUSSET PLATE THICKNESS TO 1/4" REMAINING.

BEARINGS: WATER IS COLLECTING AT SEVERAL PIER BEARINGS WITHIN THE POCKETS OF THE CASTINGS.

PINS: SECTION LOSS ON SLEEVES (CLEANED AND PAINTED). THE CHORD WEB PLATES ARE BENT DUE TO PACK RUST BETWEEN THE GUSSET PLATE AND THE WEB PLATE, PREVENTING SLIDING PINS FROM FULLY BEARING ON THE CHORD MEMBERS. LOWER CHORD SLIDING PINS AT PANEL POINTS AL17 AND BL41 APPEAR TO BE FROZEN DUE TO PACK RUST. SEVERAL PINS EXHIBIT ADVANCED WEARING UP TO 1/4" ALONG A THIRD OF THE PIN DIAMETER.

PAINT: <1% DETERIORATION, MINOR PEELING OF TOP COAT, RUST STAINING IS OCCURRING OVER THE TOP COAT PRIMARILY TO TRUSS MEMBERS BENEATH LEAKING JOINTS.

FATIGUE PRONE CONNECTIONS: UTILITY DECK FLOORBEAMS EXHIBIT CRACKS DUE TO A LACK OF RADIAL COPING NEAR THE CONNECTION TO THE TRUSSES. ISOLATED CRACKS IN FLOORBEAMS DO NOT HAVE ARREST HOLES. CRACK ENDS THAT HAVE NOT BEEN ARRESTED HAVE BEEN MARKED AND DATED TO DETERMINE FURTHER CRACK PROPAGATION.

SUBSTRUCTURE

PIERS: LARGE SPALLS WITH EXPOSED REBAR ARE TYPICAL THROUGHOUT THE PIER TOWERS ABOVE BEARINGS. THOSE SPALLS HAVE BEEN SEALED. THE EXTERIOR PIER WALLS EXHIBIT HAIRLINE CRACKS AND ISOLATED CORNER SPALLS IN ISOLATED AREAS ALONG THE OUTSIDE CORNERS.