

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 0 9 3 0  
Structure File Number 7

Bridge Number **CUY 00006 1456** CLEVELAND  
CO ROUTE UNIT

Date Built **07/01/1917 - 1997**

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

Type Service **1 57 (1499)CUY. RIVER & RTA**

**CUY**

<b>DECK</b>		Out/Out 85.2	THCK = 1.0
1. Floor	1-REINF CONCRT (PRESTRSD	8	1
2. Wearing Surface	2-INTEGRAL CONCRETE (MON	41	1
	1-CONCRETE		
		W.S. Date = 11/15/1996	
3. Curbs, Sidewalks, Walkways	1-CONCRETE	9	1
4. Median			42
5. Railing	5-REINF CONCR POST & CON	10	1
6. Drainage	3-SCUPPERS & DWNSPTS		43
7. Expansion Joints	8-ELASTOMERIC STRIP SEAL	11	2
	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=591	
9. Alignment		12	1
10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES		45
11. Diaphragms or Crossframes	TOT.LGTH=2656	13	2
12. Joists/Stringers			46
13. Floor Beams		14	2
14. Floor Beam Connections			47
15. Verticals		15	2
16. Diagonals			48
17. End Posts		16	1
18. Top Chord			49
19. Lower Chord		17	2
20. Lower Lateral Bracing			50
21. Top Lateral Bracing		18	1
22. Sway Bracing			51
23. Portals	8-FIXED ARCH-RIB	19	2
	3-SLIDING (BRONZE)		52
25. Arch		20	2
26. Arch Columns or Hangers			53
27. Spandrel Walls	TYPE = 5-PAINT SYSTEM OZEU	21	5
	DATE = 07/15/1999		54
29. Pins/Hangers/Hinges		22	2
30. Fatigue Prone Connections			55
31. Live Load Response		23	S
	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		2-CONCRETE	PIERS=12
33. Abutments	2-CONCRETE	24	2
			57
35. Piers	TYPE = 2-CONCRETE	25	2
			58
37. Backwalls		26	1
38. Wingwalls	ABUTMENT:=SPREAD / SPREAD		59
39. Fenders and Dolphins		27	1
40. Scour	8-STABLE: EVAL SCOUR ABO	60	1
41. Slope Protection	N-NONE	28	5
	<b>42. Summary</b>		62
	DIVE DT=N/A		
<b>CULVERTS</b>			
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
<b>CHANNEL</b>			3-SHEET PILING
51. Alignment		33	2
52. Protection			67
53. Waterway Adequacy		34	1
	<b>54. Summary</b>		68
<b>APPROACHES</b>			
55. Pavement	1-CONCRETE	35	2
56. Approach Slabs			69
57. Guardrail	0-OTHER	36	1
58. Relief Joints			70
59. Embankment	BRDG.WIDTH=72.0	37	2
	<b>60. Summary</b>		71
	PCT.LEGAL=135		
<b>GENERAL</b>			ROUTINE.RESP: 4-CITY/LOCAL
61. Navigation Lights		38	1
			72
	MAINT.RESP: 1-OHIO TRAN DEPT		
63. Sign Supports	MVC ON=14.0 UND=0000	39	1
			73
	ELEC/TEL/OTH/		
65. Vertical Clearance		40	1
	<b>66. General Appraisal &amp; Operational Status</b>		74
			COND 5
			STAT A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

6 1 1 7 1  
76 PE

J M C  
78 INITIALS

SIGNED

81 PE

83 INITIALS

DOT 2852

DECK AREA 226,205

Date 1 2 1 6 0 9  
86 91

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

Date 100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
**BRIDGE INSPECTION REPORT**

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**(1499)CUY. RIVER & RTA**

Deck FLOOR: 1-5% DETERIORATION. THE SIP FORMS ARE IN GOOD  
 Deck CONDITION. THE  
 Deck CONCRETE DECK BOTTOM HAS A SPALL IN SPAN 6 BETWEEN COLUMNS  
 Deck S6-11NI  
 Deck AND S6-12NI.  
 Deck WS: THERE ARE SHALLOW EDGE SPALLS ALONG ALMOST ALL OF THE  
 Deck JOINTS.  
 Deck ELSEWHERE, THE WEARING SURFACE IS IN VERY GOOD CONDITION.  
 Deck SIDEWALKS: SOME LONGITUDINAL CRACKS EXIST IN THE SIDEWALKS..  
 Deck RAILING: TIGHT THE PEDESTRAIN FENCE ON THE S RAILING IS  
 Deck DAMAGED BETWEEN  
 Deck THE 5TH AND 6TH EXP JTS FROM THE E ABUTMENT. THE N. RAILING  
 Deck HAS A 1 SF  
 Deck SPALL AT THE 9TH JOINT FROM THE W ABUTMENT.  
 Deck EXPANSION JOINTS: THERE IS DEBRIS IN ALMOST ALL OF THE  
 Deck JOINTS, WHICH  
 Deck RETAINS MOISTURE ON THE SEALS INSTEAD OF DRAINING TO THE  
 Deck CURBLINES.  
 Superstructure BEAMS: CRACKS, DELAMINATIONS, SPALLS WITH EXPOSED RE-STEEL.  
 Superstructure STEEL ARCH TRUSS COMPONENTS AND STEEL FLOOR SYSTEM MEMBERS:  
 Superstructure SEE ATTACHED SUPPLEMENTAL REPORT.  
 Superstructure BEARING DEVICES: THERE ARE CRACKED WASHER AT THE SKEWBACKS  
 Superstructure AT L0' OF THE N TRUSS AND L0 OF THE S TRUSS (THE LATTER WAS  
 Superstructure PREVIOUSLY NOTED).  
 Superstructure PRINCIPAL ARCHES: SPALLS WITH EXPOSED REBAR EXIST ON THE S  
 Superstructure INTERIOR ARCH IN SPAN 7 (OVER MERWIN ST.). THE NI ARCH IS  
 Superstructure CRACKED IN SPAN 12, JUST BELOW FB 7, AND THERE IS MAP  
 Superstructure CRACKING IN THE UNDERSIDE OF THE SPAN 12 NE ARCH AT THE W  
 Superstructure END. THERE IS A #'' WIDE CRACK IN THE ARCH IN SPAN 7  
 Superstructure BETWEEN COLUMNS S7-8SE & S7-9SE.  
 Superstructure JACK ARCHES: THERE IS A #'' WIDE CRACK IN THE ARCH IN SPAN 7  
 Superstructure BETWEEN COLUMNS S7-8SE & S7-9SE; SPALLS WITH EXPOSED REBAR  
 Superstructure ON THE UNDERSIDES OF THE ARCHES OF THE SI LINE IN SPAN 2  
 Superstructure BETWEEN COLUMNS S2-6SI AND S2-12SI; IN THE JACK ARCH BETWEEN  
 Superstructure COLUMNS S6-10SE AND S6-11SE; BETWEEN S6-4SE AND S6-5SE;  
 Superstructure AMONG OTHER CRACKS AND SPALLS. NUMEROUS SMALL DELAMINATIONS  
 Superstructure EXIST ON JACK ARCH UNDERSIDES.  
 Superstructure ARCH COLUMNS: COLUMN 12-NE-12 IS CRUSHED AT THE TOP, WITH A  
 Superstructure LARGE CHUNK OF CONCRETE SPALLED OFF AND 3 EXPOSED  
 Superstructure UN-CORRODED REBAR; THE SPALLING CONCRETE FROM THE COLUMN  
 Superstructure SHATTERED THE SCREEN OF A DECORATIVE LIGHTING FIXTURE.  
 Superstructure SPALLS ALSO EXIST IN COLUMNS S7-7NI, .  
 Superstructure COLUMN S6-14SE HAS A 30" LONG, a" WIDE CRACK. SIMILAR  
 Superstructure CRACKS EXIST IN COLUMNS S6-7SE, S6-14SE, S9-9NI, S10-10NE,  
 Superstructure S12-6NE, S12-9NE, S13-4SE, ES-5SE, ES-16NI, ES-18SE AND  
 Superstructure MULTIPLE COLUMNS IN THE EAST STATION SECTION PAST  
 Superstructure COLUMN ES-17. MANY OF THE CORBELS AT THE TOPS OF THE COLUMNS  
 Superstructure ARE SPALLED.  
 Superstructure PINS/HANGERS: RUST SECTION LOSS ON EYEBAR HANGERS AT PP'S 4  
 Superstructure AND 4'.  
 Superstructure CRACKS IN RETAINING WASHERS. SLIGHT TRANSVERSE MISALIGNMENT  
 Superstructure AT UPPER ARCH PIN.  
 Superstructure PAINT: <1% DET ABOVE UPPER DECK. BELOW THE UPPER DECK PAINT  
 Superstructure IS FAILED INSIDE THE N TRUSS PANEL POINTS L6, L7, L9, L8',  
 Superstructure AND L7'(WATER PONDS IN SOME OF THESE LOCATIONS, IF NOT ALL).  
 Superstructure THERE IS 5% RUST, PAINTED OVER SCALE AND PEELING PAINT.  
 Superstructure PAINT CONDITIONS ARE WORSE UNDER OPENINGS IN THE  
 Superstructure UPPER DECK. CANDIDATE FOR ZONE PAINTING.  
 Substructure ABUTMENTS: WATER LEAKS THROUGH THE E ABUTMENT NEAR THE  
 Substructure PAVEMENT - THIS AREA HAS RUST STAINING.  
 Substructure PIERS: A 2 SF SPALL EXISTS ON THE E FACE OF PIER 11.  
 Substructure SPALLING ALSO EXISTS ON THE S FACES OF THE TOWERS AT PIERS  
 Substructure 10 AND 12. SEVERAL EAST STATION AND TUNNEL PIER COLUMNS HAVE

Substructure	HEAVY SPALLING WITH 360 DEGREE REBAR EXPOSURE. WIDE CRACKS
Substructure	IN WALLS OF WEST APPROACH, UNDER LOWER DECK. CRACK MONITORS
Substructure	HAVE BEEN INSTALLED SEE ATTACHMENTS AND PHOTOS DATED
Substructure	05/17/07.
Channel	ALIGNMENT: FLOWS DIAGONALLY UNDER SPAN 4. PROTECTION: RUST
Channel	SCALE ALONG WATER LINE. WEST BANK EROSION SOUTH OF PIER 3
Channel	HAS CAUSED SLOPE TO FAIL.
Approaches	EMBANKMENT: PAST SLOPE FAILURES OF SOUTHWEST EMBANKMENT.
Approaches	TOWER B IS TIPPING AWAY FROM STRUCTURE. CRACK MONITOR
Approaches	INSTALLED AT TOWER B HAS MOVED 9 MM SOUTH AND 1 MM EAST.
General	UTILITIES: PLASTIC CONDUIT HANGING DOWN AND LYING ON LOWER
General	DECK IN SPANS 2,5 AND 6. RUBBER ELECTRIC LINE SUSPENDED FROM
General	SPAN 4 RUBBING L1'-L2'. FOR MORE INFORMATION SEE ATTACHED
General	SUPPLEMENTAL REPORT.

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