

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1808311

Inventory Bridge Number: CUY 00090 20.430 L

Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 89.3

Date Built: 7/1/1952

District: 12 Place Code (FIPS): CLEVELAND

IR90-WB over CEI OUTLET CHANNEL

Type of Service on: HIGHWAY

APPROACH ITEMS

	condition state					TR
	1	2	3	4	TR	
c1. Approach Wearing Surface (EA)	2					2
c2. Approach Slabs (SF)	0					2
c3. Relief Joint (LF)						
c4. Embankment (EA) d	4					1
c5. Guardrail (EA)	0.0					1
N36. Safety Features: Tr, Gr, Tm	36)B 1	36)C 1	36)D 1			(9-0) 6
c6. Approach Summary						

DECK ITEMS

	condition state					TR
	1	2	3	4	TR	
c7.1 Floor/Slab (SF)	14413.3					1
c7.2 Edge of Floor/Slab (LF)	368					1
c8. Wearing Surface (SF)	13600.7					1
c9. Curb/Sidewalk/Walkway (LF)						
c10. Median (LF)						
c11. Railing (LF)	368					1
N36. Safety Features: Rail	36)A 1					
c12. Drainage (EA) d	0.0					2
c13. Expansion Joint (LF) d	0.0					
N58. Deck Summary						(9-0) 7

SUPERSTRUCTURE ITEMS

	condition state					TR
	1	2	3	4	TR	
c14. Alignment (EA) d	3					1
c15.1 Beams/Girders (LF)	0.0					2
c15.2 Slab (SF)						
c16. Diaphragm/X-Frames (EA)	0.0					1
c17. Stringers (LF)						
c18. Floorbeams (LF)						
c19. Truss Verticals (EA)						
c20. Truss Diagonals (EA)						
c21. Truss Upper Chord (EA)						
c22. Truss Lower Chord (EA)						
c23. Truss Gusset Plate (EA) d						
c24. Lateral Bracing (EA)						
c25. Sway Bracing (EA)						
c26. Bearing Devices (EA) d	0.0					2
c27. Arch (LF)						
c28. Arch Column/Hanger (EA)						
c29. Arch Spandrel Walls (LF)						
c30. Prot. Coating System (LF) d	0.0					1
c31. Pins/Hangers/Hinges (EA) d						
c32. Fatigue (LF) d	0.0					1
N59. Superstructure Summary						(9-0) 6

SUBSTRUCTURE ITEMS

	condition state					TR
	1	2	3	4	TR	
c33. Abutment Walls (LF)	156.7					1
c34. Abutment Caps (LF)	0.0					
c35. Abut. Columns/Bents (EA)	0.0					
c36. Pier Walls (LF)	0.0					
c37. Pier Caps (LF)	156.7					1
c38. Pier Columns/Bents (EA)	0.0					2
c39. Backwalls (LF)	156.7					2
c40. Wingwalls (EA)	0.0					1
c42. Scour (EA) d	4					1
c43. Slope Protection (EA) d						
N60. Substructure Summary						(9-0) 6

CULVERT ITEMS

	condition state					TR
	1	2	3	4	TR	
c44. General (LF)						
c45. Alignment (LF) d						
c46. Shape (LF) d						
c47. Seams (LF) d						
c48. Headwall/Endwall (LF)						
c49. Scour (LF) d						
c50. Abutments (LF)						
N62. Culvert Summary						(9-0) N

CHANNEL ITEMS

	condition state					TR
	1	2	3	4	TR	
c51. Alignment (LF) d	200.0					1
c52. Protection (LF) d	200.0					1
c53. Hydraulic Opening (EA) d	1					1
c54. Navigation Lights (EA) d						
N61. Channel Summary						(9-0) 7

SIGN/UTILITY ITEMS

	condition state					TR
	1	2	3	4	TR	
c55. Signs (EA) d	0.0					1
c56. Sign Supports (EA) d	0.0					
c57. Utilities (LF) d						

General Appraisal

N41. Operating Status

Inspector Name	Persanyi, Andrea				
Inspection Date/Type	11/06/2014	Routine and Underwater			
PE Number					
Reviewer Name	Seif, Youssef				
Review Date	01/07/2015				
PE Number	59487				

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Key: "Qty" = Quantity for Element Level inspection; "(LF)" = Linear Feet; "(SF)" = Square Feet; "(EA)" = Each or count; "CR" = 1-4 Condition Rating or average of worst span unless Summary item 9-0, then the average of entire bridge influenced by the bold boxes; "TR" = Transition Rating or weighted average of condition states; "d" = dedicated or specific chart and guidance, all others use Material specific chart/guidance; "c" = condition prefix; "N" = NBIS rating

Inspection Procedures

Comments

APPROACH

c1. Approach Wearing Surface

A FEW CRACKS. ASPHALT BREAKING UP AND SMALL POTHOLES ALONG DECK ENDS. HUMPED ASPHALT PAVEMENT AT REAR WITH BOUNCE OFF BRIDGE.

c2. Approach Slabs

LONG CRACKS IN CONCRETE.

c4. Embankment

MINOR EROSION NEAR REAR LEFT.

DECK

c7.1 Floor/Slab

A FEW CRACKS, SOME LEACHED. A FEW MINOR SPALLS. FLOOR IS <1% DETERIORATED.

c8. Wearing Surface

A FEW CRACKS. <1% DETERIORATED.

c11. Railing

A FEW CRACKS AND COLLISION SCRAPES.

c12. Drainage

DEBRIS AND PONDED WATER IN NORTH BERM.

SUPERSTRUCTURE

c15.1 Beams/Girders

PACK RUST BETWEEN SOME COVER PLATES & BOTTOM FLANGES. AREAS OF RUST SECTION LOSS. LEFT BEAM HAS RUSTED THRU HOLE IN COVER PLATES IN SPAN 2. BOTTOM FLANGE COVER PLATE OF BEAM 5 IS BENT IN SPAN 2 NEAR PIER 2. NO COPE HOLES AT INTERSECTING WELDS WHERE BEAMS ARE JOINTED ABOVE PIERS.

c16. Diaphragm/Cross Frames

CRACK SEVERED WELD IN BAY 10 NEAR REAR ABUTMENT.

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c26. Bearing Devices

SOME RUST SECTION LOSS.

c30. Protective Coating System

1-5% RUST, 1-5% DETERIORATED

c32. Fatigue

WELDED COVER PLATES AT PIERS. WELDED ATTACHMENTS WITH LENGTHS >4".

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, MINOR DELAMS.

c38. Pier Columns/Bents

VOIDS AT JOINTS AND SPALLS ON COLUMNS. P1C20 HAS A VERTICAL CRACK WITH LIGHT EFFLORESCENCE AT THE SOUTH FACE STARTING AT THE CAP AND EXTENDING 4' DOWN. P2C6 HAS SPALLS IN THE CONCRETE ENCASUREMENTS IN THE AREA OF THE SPLASH ZONE. THE SPALLS EXTEND THE FULL CIRCUMFERENCE OF THE PILE AND HAVE EXPOSED EPOXY COATED REBAR IN GOOD CONDITION. THE 2012 DIVE REPORT STATED VOID AT BASE OF CONCRETE ENCASUREMENT OF P2C2 WITH 8" OF HPILE EXPOSED. THE H PILE IS IN GOOD CONDITION.

c37. Pier Caps

SOME SMALL SPALLS AND DELAMS.

c39. Backwalls

3 SF SPALL NEAR LEFT FASCIA AT REAR.

c42. Scour

WATER DEPTH VARIES FROM 9' TO 3'.

CHANNEL

c53. Hydraulic Opening

DIVE INSPECTION ON 12/11/12.
BOAT INSPECTION WITH DAN BREDA 11/5/14.