

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

- c1. Approach Wearing Surface (EA)
- c2. Approach Slabs (SF)
- c3. Relief Joint (LF)
- c4. Embankment (EA) d
- c5. Guardrail (EA)
- N36. Safety Features: Tr, Gr, Tm
- c6. Approach Summary

QTY.	condition state				cr
	1	2	3	4	TR
2		2			2.00
2385	2265.8	119.3	0	0	1.07
4	3	1			1.33
4	4	0	0	0	1.00
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>6</u>

DECK ITEMS

- c7.1 Floor/Slab (SF)
- c7.2 Edge of Floor/Slab (LF)
- c8. Wearing Surface (SF)
- c9. Curb/Sidewalk/Walkway (LF)
- c10. Median (LF)
- c11. Railing (LF)
- N36. Safety Features: Rail
- c12. Drainage (EA) d
- c13. Expansion Joint (LF) d
- N58. Deck Summary

QTY.	condition state				cr
	1	2	3	4	TR
14413.27	1369	720.7			1.07
368	368				1.00
13600.73	1292	680			1.07
	0.7				
368	349.6	18.4			1.07
36)A <u>1</u>					(9-0) <u>7</u>
4	3	0	0	1	4.00
0.00					

SUPERSTRUCTURE ITEMS

- c14. Alignment (EA) d
- c15.1 Beams/Girders (LF)
- c15.2 Slab (SF)
- c16. Diaphragm/X-Frames (EA)
- 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
- c27. Arch (LF)
- c28. Arch Column/Hanger (EA)
- c29. Arch Spandrel Walls (LF)
- c30. Prot. Coating System (LF) d
- c31. Pins/Hangers/Hinges (EA) d
- c32. Fatigue (LF) d
- N59. Superstructure Summary

QTY.	condition state				cr
	1	2	3	4	TR
3	3				1.00
2745	2443.1	274.5	27.5	0	1.29
252	249.5	0	2.5	0	1.17
2745	1921.5	549	274.5	0	2.11
2745	100	0	0	0	1.00
					(9-0) <u>6</u>

SUBSTRUCTURE ITEMS

- c33. Abutment Walls (LF)
- c34. Abutment Caps (LF)
- c35. Abut. Columns/Bents (EA)
- c36. Pier Walls (LF)
- c37. Pier Caps (LF)
- c38. Pier Columns/Bents (EA)
- c39. Backwalls (LF)
- c40. Wingwalls (EA)
- c42. Scour (EA) d
- c43. Slope Protection (EA) d
- N60. Substructure Summary

QTY.	condition state				cr
	1	2	3	4	TR
156.67	148.9	7.8			1.07
156.67					
0.00					
156.67					
156.67	148.9	7.8			1.07
40	18	16	6	0	2.38
156.67	139.5	15.7	1.6		1.29
2	0	2	0	0	2.00
4	4				1.00
					(9-0) <u>6</u>

CULVERT ITEMS

- 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

QTY.	condition state				cr
	1	2	3	4	TR
					(9-0) <u>N</u>

CHANNEL ITEMS

- c51. Alignment (LF) d
- c52. Protection (LF) d
- c53. Hydraulic Opening (EA) d
- c54. Navigation Lights (EA) d
- N61. Channel Summary

QTY.	condition state				cr
	1	2	3	4	TR
200.00	200.00				1.00
200.00	200.00				1.00
1	1				1.00
					(9-0) <u>7</u>

SIGN/UTILITY ITEMS

- c55. Signs (EA) d
- c56. Sign Supports (EA) d
- c57. Utilities (LF) d

QTY.	condition state				cr
	1	2	3	4	TR
2	100	0	0	0	1.00
0.00					
					(9-0) <u>6</u>
					<u>A</u>

General Appraisal

N41. Operating Status

Inspector Name Sutak, Mike
Inspection Date/Type 10/27/2015 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 11/25/2015
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

BOATED ON 9/16/2015.

Comments

APPROACH

c1. Approach Wearing Surface

INSPECTED WITH MG.

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.

c8. Wearing Surface

A FEW CRACKS.

c11. Railing

A FEW CRACKS AND COLLISION SCRAPES.

c12. Drainage

THICK DEBRIS IN NORTH BERM. ONE OF FOUR SCUPPERS PLUGGED.

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

AREAS OF RUST AND TOP COAT PEELING.

c32. Fatigue

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

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 ENCASEMENTS 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 ENCASEMENT 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. CRACKS.

c40. Wingwalls

CRACKS.

c42. Scour

WATER DEPTH VARIES FROM 9' TO 3'.

CHANNEL

c53. Hydraulic Opening

DIVE INSPECTION ON 12/11/12.
BOAT INSPECTION WITHMG AND JS ON 9/16/2015.