

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1805371

Inventory Bridge Number: CUY 00071 17.910 R

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

Sufficiency Rating: 79.1

Date Built: 7/1/1969

District: 12 Place Code (FIPS): CLEVELAND

I-71 N.B. over SR 176(1328)JENNINGS FWY

Type of Service on: OVERPASS STRUCTURE AT AN INTERCHANGE OP

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				TR
	1	2	3	4	
3	2	1	0	0	1.43
3181	3181	0	0	0	1.00
124	124				
6	6				1.00
6	6		0	0	1.00
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>8</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				TR
	1	2	3	4	
116611	1104	5900	150	75	1.13
9209	86 8684	475	50	0	1.16
118915	1189			0	1.00
0	15 0	0	0	0	
4606	2213	2303	90	0	1.78
36)A <u>1</u>					
39	19	5	15	0	3.00
374	199	125	50	0	2.30
N58. Deck Summary					(9-0) <u>7</u>

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

QTY.	condition state				TR
	1	2	3	4	
28	28	0	0	0	1.00
18835	1600	1883.	941.8	0	1.72
	9.8	5			
1256	1117.	62.8	62.8	12.6	1.95
	8				
54	48.6	5.4	0	0	1.14
207	186	21	0	0	1.14
19146	1241	5743.	957.3	30	1.92
	4.9 20.5	8 8	1.5	0	1.85
19146	1914	5	0	0	1.00
	<u>1</u>				
N59. Superstructure Summary					(9-0) <u>7</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				TR
	1	2	3	4	
171	121	50	0	0	1.38
		0	0	0	
	NaN	0	0	0	
		0	0	0	
1467	630.8	734	73.4	29.3	2.37
59	38.3	17.7	3	0	1.88
171	85	86	0	0	1.60
6	4	1	1	0	2.34
3	3	0	0	0	1.00
N60. Substructure Summary					(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				TR
	1	2	3	4	
N62. Culvert Summary					(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				TR
	1	2	3	4	
N61. Channel Summary					(9-0) <u>N</u>

SIGN/UTILITY ITEMS

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

QTY.	condition state				TR
	1	2	3	4	
6	0	0	0	6	3.00
18	18	0.00	0	0	1.00
2945	2945	0	0	0	1.00
General Appraisal					(9-0) <u>6</u>
N41. Operating Status					<u>A</u>

General Appraisal

N41. Operating Status

Inspector Name Banaszak, Ken
Inspection Date/Type 12/10/2015 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 01/19/2016
PE Number 59487

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Type of Service on: OVERPASS STRUCTURE AT

AN INTERCHANGE ON
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

Last Fracture Critical Inspection Performed 5/21/14

Next Insp Cycle is in 2015 and Est. Hours is and TTC is MT-95.30 and other TT notes include. . . VERIFY_PLC . . . with 2014 lead insp. DT and truck req'd . . . 62

Comments

APPROACH

c1. Approach Wearing Surface

A FEW CRACKS AT REAR. FORWARD HAS CRACKS AND MINOR ASPHALT BREAKING UP AREAS.

c2. Approach Slabs

ASPHALT COVERED.

c5. Guardrail

MINOR COLLISION DAMAGE TO CRASH ATTENUATOR AT RAMP SPLIT.

DECK

c7.1 Floor/Slab

TRANSVERSE LEACHING CRACKS. SOME LARGE AREAS OF MOTTLED/WET AREAS. A FEW STALACTITES. EPOXY INJECTED AREAS. TWO FULL DEPTH REPAIRS (ONE WITH FORM WORK LEFT IN). A FEW HONEYCOMB AREAS. SPALLING WITH EXPOSED REBAR. HAUNCH SPALLS OVER PIER 6 WITH AREAS OF CORROSION ON TOP FLANGES. OTHER SPALLS & DELAMS.

c7.2 Edge of Floor/Slab

CRACKS. SOME DELAMS. AREAS OF SPALLS.

c8. Wearing Surface

NEW OVER LAY IN 2015.

c11. Railing

VERTICAL & HORIZONTAL CRACKS, SOME LEACHING. SPALLING TO INSIDE TOE. MANY SPALLS MOSTLY TO THE OUTSIDE, SOME WITH EXPOSED REBAR.

c12. Drainage

PARTIALLY PLUGGED SCUPPERS. RUSTING SECTION LOSS & THRU HOLES TO SOME DOWNSPOUTS.

c13. Expansion Joint

SOME AREAS OF MINOR SEAL POP OUTS. SOME AREAS OF TORN SEAL. SOME AREAS LEAK TO BACKWALL BELOW. DIRT IN SEAL.

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SUPERSTRUCTURE

c15.1 Beams/Girders

RUSTING SECTION LOSS @ VARIOUS LOCATIONS ESPECIALLY ON BOTTOM FLANGES @ SPLICE PLATES AND NEAR THE SEATED HINGES & AT THE BEAM ENDS. LIGHT GRIND MARKS NEAR FACTORY SPLICE WELDS. GOUGE MARKS ON BEAM 5 IN SPAN 14.

NOTE: PIER 17 IS A STEEL HOLLOW CROSS GIRDER, THAT HAS PEELING PAINT & SURFACE CORROSION AT VARIOUS LOCATIONS. INSIDE THE CAP ARE STEEL INCLUSIONS, A GOUGE & EVIDENCE OF WATER INFILTRATION.

c16. Diaphragm/Cross Frames

SOME AREAS OF RUSTING SECTION LOSS. A FEW XFRAMES AT HINGES HAVE HEAVY CORROSION RESULTING IN SEVERED LOWER CONNECTIONS. A FEW BENT XFRAME ANGLES.

c24. Lateral Bracing

MINOR RUST. PACK RUST IS BOWING THE GUSSET PLATE IN SPAN 18AE. BENT GUSSET PLATE IN SPAN 19AE. LOOSE BOLTS IN SPANS 21AE & 23AE.

c26. Bearing Devices

A FEW ROCKERS AT THE ABUTS AND PIER #1 ARE SLIGHTLY TIPPED IN AT 2015.

c30. Protective Coating System

AREAS OF RUST, SOME WITH SECTION LOSS. ACTIVE CORROSION UNDER JOINTS. AREAS OF PEELING & PAINT RUNS.

c31. Pins/Hangers/Hinges

RUSTING SECTION LOSS @ SEATED HINGES. A FEW BENT STIFFENERS. WARPED STEEL TO HINGE OF BEAM #2 IN SPAN 7. LOOSE SEATED HINGE ROLLER BEARINGS IN: SPAN 7, BEAMS 4-7 & SPAN 18AW, BEAM 4.

c32. Fatigue

WELDED MOMENT PLATES @ PIERS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, SOME LEACHING. MINOR DELAMS. MINOR SPALLS.

c38. Pier Columns/Bents

DELAMS, CRACKS & SPALLS, SOME LARGE & WITH EXPOSED REBAR,

c37. Pier Caps

AREAS OF P6 CAP ARE FIBER WRAPPED. SPALLS, SOME LARGE. MINOR DELAMS. MULTIPLE AREAS OF SEAT EDGE CRACKS. PIER 19AE COLUMN 1 HAS A SPALL GOING INTO THE SEAT.

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c39. Backwalls

CRACKS, DELAMS, A FEW SPALLS. A FEW NEW PATCHES AT 2015
INSPECTION.

c40. Wingwalls

AW WING HAS SPALL WITH EXPOSED REBAR. A FEW CRACKS.