

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1812084

Inventory Bridge Number: CUY 00077 14.360 SW

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

Sufficiency Rating: 82.1

Date Built: 7/1/1964

District: 12 Place Code (FIPS): CLEVELAND

RAMP SW over UP IR 77, DN IR-490-ES&WN

Type of Service on: THIRD LEVEL INTERCHANGE

**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	
2	0	2			2.00
720	720				1.00
31	31		0	0	1.00
4	4				1.00
4.0	1	3			1.82
36)B <u>  1  </u> 36)C <u>  1  </u> 36)D <u>  1  </u>					(9-0) <b>6</b>

**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	
15367.99	1457	768	30		1.11
1066	0	53			1.07
14124.5	1038	3531	210		1.52
	3.4	1			
	NaN	0	0	0	
1066	778.2	266.5	21.3		1.57
36)A <u>  1  </u>					(9-0) <b>7</b>
2.0	1	0	0	1	3.00
57.0	0	57	0	0	2.00

**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				TR
	1	2	3	4	
6	6				1.00
2132	2004	106.6	21.3	0	1.23
	1				
117	117		0	0	1.00
28	20	8	0	0	1.38
2132	2004	106	21.3	0	1.23
	1				
2132	2132	0	0	0	1.00
(9-0) <b>7</b>					

**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	
57.67	45	8.7	4		1.90
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
150	105	45	0	0	1.39
7.0	6	1	0	0	1.20
57.67	47.7	6	4		1.87
4.0	4	0	0	0	1.00
2.0	1	0	1	0	3.00
(9-0) <b>7</b>					

**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	
(9-0) <b>N</b>					

**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	
(9-0) <b>N</b>					

**SIGN/UTILITY ITEMS**

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

QTY.	condition state				TR
	1	2	3	4	
9	7	0	0	2	4.00
7	6	1	0	0	1.20
(9-0) <b>7</b>					
N41. Operating Status					<b>A</b>

**General Appraisal**

N41. Operating Status

<b>Inspector Name</b>	Persanyi, Andrea
Inspection Date/Type	10/26/2019    Routine
<b>PE Number</b>	
<b>Reviewer Name</b>	Seif, Youssef
Review Date	12/27/2019
<b>PE Number</b>	59487

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Type of Service on: **THIRD LEVEL  
(INTERCHANGE)**

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**

**FRACTURE CRITICAL INSPECTION / STEEL PIER CAPS ENTERED ON 10/26/2019. PIER CAP 1 (NW) ENTERED BY AP, BOLTS ARE 15/16", PIER CAP 2 (SE) ENTERED BY MS, BOLTS ARE 1 1/16".**

**Comments**

**APPROACH**

**c1. Approach Wearing Surface**

MANY SEALED CRACKS IN ASPHALT PATCHES ALONG EXJTS. OTHER ASPHALT PATCHES. BROKEN UP AREAS. SPALLING ALONG FORWARD-LEFT BERM. WIDE CRACKS IN FORWARD CONCRETE PAVEMENT.

**c2. Approach Slabs**

PAVED OVER WITH ASPHALT.

**c3. Relief Joint**

NOTE: AT FORWARD ONLY.

**c5. Guardrail**

COLLISION DAMAGE TO FORWARD-LEFT & REAR-RIGHT. CORNER OF FORWARD-LEFT CONCRETE APPROACH SPALLED OFF. NOTE: REAR-LEFT IS A TEMPORARY CONCRETE PARAPET.

**DECK**

**c7.1 Floor/Slab**

TRANSVERSE CRACKS, SOME LEACHING. A FEW DELAMS & MOTTLED AREAS.

**c7.2 Edge of Floor/Slab**

CRACKS.

**c8. Wearing Surface**

CRACKS. DELAMINATED AREAS. APPROX 20 SF OF BREAKING UP AREAS, 75 SF OF ASPHALT PATCHES & 170 SF OF CONCRETE PATCHES. 3 SF SHALLOW SPALL.

**c11. Railing**

MANY VERTICAL CRACKS. A FEW SHALLOW SPALLS ALONG WEARING SURFACE. DELAMINATED AREAS. COLLISION SCRAPES.

**c12. Drainage**

PLUGGED SCUPPER AT REAR WITH PONDING AT REAR-LEFT. THICK CONSTRUCTION DIRT / MUD IN BERMS.

**c13. Expansion Joint**

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EVIDENCE OF LEAKAGE DOWN BOTH BACKWALLS WITH DIRT & DEBRIS ON ABUTMENT SEATS.

**SUPERSTRUCTURE**

**c15.1 Beams/Girders**

AREAS OF MINOR SURFACE RUST. MINOR RUSTING SECTION LOSS AT SOME BEAM ENDS. SCRAPE TO LOWER FLANGE OF LEFT FASCIA OVER RAMP TO 77 SOUTH.

**c26. Bearing Devices**

FORWARD ROCKERS 1 & 4 SLIGHTLY TIPPED IN AT 70° F. REAR ROCKER 1 PARTIALLY ENGULFED IN DIRT & BACKWALL DEBRIS. RUSTING TO ABUTMENT ROCKERS.

**c30. Protective Coating System**

AREAS OF MINOR SURFACE RUST. SOME PEELING PAINT & RUST INSIDE STEEL PIER CAPS UNDER HATCHES.

**c32. Fatigue**

WELDED COVER PLATES AT PIERS.

**SUBSTRUCTURE**

**c33. Abutment Walls**

A FEW CRACKS. 1 SF SPALL THAT GOES INTO SEAT BELOW FORWARD BEARING 3. RUST STAIN AT FORWARD.

**c38. Pier Columns/Bents**

CRACKS. SHALLOW SEALED SPALL AT BASE OF P4 STEM.

**c37. Pier Caps**

A FEW CRACKS TO CONCRETE CAPS. BACKER BAR DISCONTINUITIES (STOP & START WELDING) AND STITCH WELDS IN STEEL PIER CAPS. SOME RUST (MOST INTERIOR). HATCH COVER OVER WB BERM ON NW PIER CAP HAS BEEN BROKEN BY DEBRIS FROM DECK REMOVAL OF BRIDGE ABOVE.

**c39. Backwalls**

CRACKS. LARGE DELAM & SPALL WITH 360° REBAR EXPOSURE IN REAR BAY 1. OTHER DELAMS.

**c43. Slope Protection**

REAR (SOUTH) ABUTMENT CONCRETE DRAINAGE TROUGH HAS ERODED THE SLOPE & HAS COLLAPSED INTO VOID. AS MUCH AS 5' OF REAR ABUTMENT FOOTING EXPOSED WITH UNDERMINING: 18"D x 13"H x 36"W