

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1810405

Inventory Bridge Number: CUY 00252 04.340

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

Sufficiency Rating: 84.8

Date Built: 7/1/1980

District: 12 Place Code (FIPS): NORTH OLMSTED

SR 252 over I-480 (GRT NRTHRN BLVD)

Type of Service on: HIGHWAY-PEDESTRIAN

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
4	4	0	0	0	1.00
4000	3800	200	0	0	1.07
160	80	80			1.60
4	4	0			1.00
4	0	3	1	0	2.67
36)B 1 36)C 1 36)D 1					(9-0) 6

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
28032	2578	2000	250		1.24
584	584		0	0	1.00
23360	2209	1168	100		1.14
584.00	175.2	262.8	146		2.60
292	278	14			1.07
584	204.4	233.6	146		2.59
36)A 1					(9-0) 7
23	18	5	0	0	1.29
192	106	38	48	0	2.55

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
4	3	1			1.33
3212	771	2409	32	0	1.90
240	0	220	20	0	2.35
0.00					
55	0	33	22	0	3.00
3212	449.7	2409	321.2	32.1	2.48
	NaN	0	0	0	
N59. Superstructure Summary					(9-0) 7

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
210.16	147.1	42	21		2.10
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
315.24	285.2	20	10		1.52
21	9	4	8	0	3.00
210.16	195.2	11	4		1.36
4	4	0	0	0	1.00
2	2	0	0	0	1.00
N60. Substructure Summary					(9-0) 5

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
N62. Culvert Summary					(9-0) N

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
N61. Channel Summary					(9-0) N

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
4	0	0	0	4	3.00
	NaN	0	0	0	
584	0	584	0	0	2.00
General Appraisal					(9-0) 5
N41. Operating Status					A

General Appraisal

N41. Operating Status

Inspector Name	Gerstenslager, Michael
Inspection Date/Type	02/24/2020 Routine
PE Number	
Reviewer Name	Seif, Youssef
Review Date	03/17/2020
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

MINOR CRACKS.

c2. Approach Slabs

CRACKS.

c3. Relief Joint

CRACKS. ASPHALT PATCHES. ASPHALT DETERIORATION. SMALL POTHOLES.

c5. Guardrail

CRACKS, RUST STAINS & SPALLS TO CONCRETE APPROACH PARAPETS. SOME RUSTING SECTION LOSS TO REAR-RIGHT GUARDRAIL. POST ROT.

DECK

c7.1 Floor/Slab

LEACHING CRACKS AT 15' SPACING. APPROX 250 SF OF SPALLS. SMALL MOTTLED AREA OVER REAR SLOPE WITH STALACTITES.

c8. Wearing Surface

TRANSVERSE CRACKS. POP-OUTS. AREAS OF SHALLOW SPALLS. A FEW ASPHALT & CONCRETE PATCHES. APPROX 10 SF FAILED CONCRETE & ASPHALT PATCH IN SB LANE #2 NEAR FORWARD EXJT.

c9. Curb/Sidewalk/Walkway

SCALING. DELAMS. SPALLS WITH EXPOSED REBAR. CONCRETE PATCHES ALONG ENTIRE RIGHT CURB (SOME FAILING) WITH 360° REBAR EXPOSED NEAR LIGHT POLE #2.

c10. Median

CRACKS. SCALING. MINOR SPALLS & DELAMS.

c11. Railing

HORIZONTAL & VERTICAL RUST STAINED CRACKS, MAINLY NEAR FENCE POSTS. RUSTING SECTION LOSS TO FENCE POST BASES WHERE MORTAR IS MISSING. SEVERAL LARGE SPALLS, SOME WITH 360° REBAR EXPOSED. OTHER SPALLS & DELAMS. SPALL FORMING TO OUTSIDE LEFT RAILING OVER EB LOW SPEED BERM.

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c12. Drainage

FIVE PARTIALLY PLUGGED SCUPPERS AT FORWARD-LEFT.

c13. Expansion Joint

JOINTS PARTIALLY FILLED WITH DEBRIS. TOP OF FORWARD & REAR EXJT HEADERS SPALLED IN SB LANES (NEARLY FULL WIDTH AT REAR). MINOR RUSTING SECTION LOSS. A FEW GOUGES TO RISER BAR. EVIDENCE OF LEAKING JOINTS.

SUPERSTRUCTURE

c14. Alignment

LOWER FLANGE & WEB OF BEAM 6 ARE BENT 1" EAST OVER EB LANES #2 & #3.

c15.1 Beams/Girders

SURFACE RUST. MINOR RUSTING SECTION LOSS. A FEW BENT STIFFENERS. 2014 QAR STICKER 12-12.

c16. Diaphragm/Cross Frames

SURFACE RUST. RUSTING SECTION LOSS. PACK RUST TO SOME ENDFRAME GUSSET PLATES. BROKEN ENDFRAME WELDS IN REAR BAYS 7 & 10 AND FORWARD BAY 10.

c26. Bearing Devices

SURFACE RUST. RUSTING SECTION LOSS & SOME PACK RUST TO ABUTMENT ROCKERS. NEOPRENE PADS UNDER SOME MASONRY PLATES HAVE SLID.

c30. Protective Coating System

SURFACE RUST. CHALKING. BLISTERING & PEELING PAINT ON LOWER FLANGES.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS. RUST STAINS. 10 SF SPALL WITH EXPOSED REBAR BELOW REAR BAY 10. OTHER MINOR SPALLS & DELAMS.

c38. Pier Columns/Bents

SPALLS WITH EXPOSED REBAR AS LARGE AS 12 SF & DELAMS AS LARGE AS 3 SF TO P1C1 & C3, P2C1-C4 & C6, P3C2-C5 & C7.

c37. Pier Caps

MINOR CRACKS, DELAMS . 10 LF OF SPALLS WITH EXPOSED REBAR TO SOUTH FACE OF P2 CAP.

c39. Backwalls

CRACKS. RUST STAINS. A FEW SPALLS & DELAMS.

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