

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1811851

Inventory Bridge Number: CUY C0047 01.000

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

Sufficiency Rating: 69.4

Date Built: 7/1/1963

District: 12 Place Code (FIPS): HIGHLAND
MICHIGAN

HIGHLAND RD over IR271&271X (HIGHLAND)

Type of Service on: HIGHWAY-PEDESTRIAN

APPROACH ITEMS

	condition state					cr
	QTY.	1	2	3	4	TR
c1. Approach Wearing Surface (EA)	2					1
c2. Approach Slabs (SF)	2000					1
c3. Relief Joint (LF)	80					
c4. Embankment (EA) d	4					1
c5. Guardrail (EA)	4					1
N36. Safety Features: Tr, Gr, Tm		36)B 1	36)C 1	36)D		1
c6. Approach Summary					(9-0)	7

DECK ITEMS

	condition state					cr
	QTY.	1	2	3	4	TR
c7.1 Floor/Slab (SF)	15480					1
c7.2 Edge of Floor/Slab (LF)	774					1
c8. Wearing Surface (SF)	10836					1
c9. Curb/Sidewalk/Walkway (LF)	774.0					1
c10. Median (LF)						
c11. Railing (LF)	774					2
N36. Safety Features: Rail		36)A 1				
c12. Drainage (EA) d	2					1
c13. Expansion Joint (LF) d						
N58. Deck Summary					(9-0)	7

SUPERSTRUCTURE ITEMS

	condition state					cr
	QTY.	1	2	3	4	TR
c14. Alignment (EA) d	6					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					4
c31. Pins/Hangers/Hinges (EA) d						
c32. Fatigue (LF) d	0.0					1
N59. Superstructure Summary					(9-0)	6

SUBSTRUCTURE ITEMS

	condition state					cr
	QTY.	1	2	3	4	TR
c33. Abutment Walls (LF)	80.1					1
c34. Abutment Caps (LF)						
c35. Abut. Columns/Bents (EA)						
c36. Pier Walls (LF)						
c37. Pier Caps (LF)	200.3					2
c38. Pier Columns/Bents (EA)	0.0					2
c39. Backwalls (LF)	80.1					1
c40. Wingwalls (EA)	4					1
c42. Scour (EA) d						
c43. Slope Protection (EA) d	2					1
N60. Substructure Summary					(9-0)	5

CULVERT ITEMS

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

SIGN/UTILITY ITEMS

	condition state					cr
	QTY.	1	2	3	4	TR
c55. Signs (EA) d	0.0					4
c56. Sign Supports (EA) d	0.0					1
c57. Utilities (LF) d	0.0					2
General Appraisal					(9-0)	5
N41. Operating Status						A

Inspector Name Gerstenslager, Michael
Inspection Date/Type 01/29/2020 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 03/03/2020
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

A FEW SEALED CRACKS. GAP AS WIDE AS 2" BETWEEN PAVEMENT & FORWARD SLAB. ASPHALT PATCH WITH MINOR BREAK UP ALONG REAR SLAB. SHALLOW SPALLS ALONG BOTH SLABS.

c2. Approach Slabs

A FEW CRACKS. SOME SCALING. SMALL SPALLS AT DECK EDGES.

c4. Embankment

MINOR SETTLEMENT TO BOTH LEFT APPROACH WALKS.

DECK

c7.1 Floor/Slab

SOME TRANSVERSE LEACHING CRACKS. APPROX 30 SF OF HAUNCH SPALLS IN BAY 4 SPANS 1, 2 & 4. HAUNCH SPALL FORMING IN BAY 2 OVER SB MAINLINE LANE #1. FLOOR IS 1-5% DETERIORATED.

c7.2 Edge of Floor/Slab

A FEW CRACKS.

c8. Wearing Surface

TRANSVERSE CRACKS. MANY MAP CRACKS. DIAGONAL CRACKS NEAR DECK ENDS. WS IS <1% DETERIORATED.

c9. Curb/Sidewalk/Walkway

A FEW CRACKS. DELAMS. SPALL TO LEFT CURB AT MID-POINT.

c11. Railing

MANY VERTICAL CRACKS, SOME LEACHING. HORIZONTAL CRACKS. RUST STAINS. SCALING. AREAS OF PEELING SEALER. AREAS OF RUSTING SECTION LOSS TO HARDWARE, SOME RUST SEVERED.

SUPERSTRUCTURE

c14. Alignment

SLIGHT SAG TO RIGHT FASCIA OVER SB MAINLINE LANE #2.

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c15.1 Beams/Girders

RUSTING SECTION LOSS. AREAS OF PITTING NEAR SOME BEAM ENDS.
UTILITY BRACKETS WELDED TO WEB OF LEFT FASCIA IN POSITIVE MOMENT
AREAS. 2009 QAR STICKER 12-0004.

c16. Diaphragm/Cross Frames

RUSTING SECTION LOSS. 1ST XFRAME FROM REAR ABUTMENT IN BAY 4 HAS
HORIZONTAL ANGLE BENT UP 2". LEACHING CRACKS TO CONCRETE
DIAPHRAGMS.

c26. Bearing Devices

HEAVY RUSTING. REAR ROCKER 3 TIPPED IN AND FORWARD ROCKERS 3 & 4
TIPPED OUT AT 25° F.

c30. Protective Coating System

25-35% RUST. CHALKING. BLISTERING. HEAVY PEELING. PCS IS >50%
DETERIORATED.

c32. Fatigue

WELDED MOMENT PLATES AT PIERS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS. SOME MINOR DELAMS. RUST STAINS.

c38. Pier Columns/Bents

CRACKS. DELAMS AS LARGE AS 15 SF & SPALLS AS LARGE AS 7 SF TO P2C1,
P3C1-C3, P4C1 & C2. NOTE: ALL P1 & P5 COLUMNS & P2C3 FIBER WRAPPED.

c37. Pier Caps

CRACKS. LARGE DELAMS ON P1, P4 & P5 CAPS. SPALLS AS LARGE AS 8 SF
WITH 360° REBAR EXPOSURE ON P5 CAP. SMALL SPALLS TO P1, P2 & P4
CAPS.

c39. Backwalls

CRACKS. SHALLOW SPALL BEHIND REAR ROCKER 3.

c40. Wingwalls

JOINT MATERIAL HAS FALLEN OUT AT ALL FOUR SEAMS.