

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 2801388

Inventory Bridge Number: GEA 00322 08.630 N

Bridge Type: 3 - STEEL/9 - CULVERT/5 - FILLED

Sufficiency Rating: 87.6

Date Built: 7/1/1961

District: 12 Place Code (FIPS): MUNSON TWP

SR322 over BEAVER CRK 1.77 MI. W 44

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					1
2					2
0.0					1
36)B <u> </u> N 36)C <u> </u> 1 36)D <u> </u> N					(9-0) <u> </u> 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
36)A <u> </u> N					(9-0) <u> </u> N

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
					(9-0) <u> </u> N

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
					(9-0) <u> </u> N

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
216					2
216					2
216					2
0.0					2
0.0					2
6					1
216					
					(9-0) <u> </u> 5

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
200.0					1
200.0					1
1					2
					(9-0) <u> </u> 5

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
0.0					4
0.0					
					(9-0) <u> </u> 5
					A

General Appraisal

N41. Operating Status

Inspector Name Banaszak, Ken
Inspection Date/Type 11/28/2014 Underwater
PE Number _____
Reviewer Name Seif, Youssef
Review Date 01/15/2015
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

CULVERT WAS UNDERWATER INSPECTED BY GPI ON JULY 23, 2014.

Comments

APPROACH

c1. Approach Wearing Surface

TRANSVERSE CRACKS ABOVE / NEAR PIPES. SHALLOW POTHOLE. AREAS OF BREAK UP. SOME SETTLEMENT TO BOTH WB AND EB NEAR CULVERTS APPROACHES.

c4. Embankment

MINOR EROSION AROUND INLET AND OUTLET. SLIGHT EROSION HOLE AT NORTH END BETWEEN WEST CELL AND MIDDLE CELL.

CULVERT

c44. General

CORROSION / SECTION LOSS TO ALL THREE CELLS AND BOLTED CONNECTIONS. THE SEVERITY OF CORROSION HAS ADVANCED SINCE THE 2007 UNDERWATER INSPECTION. ONE MISSING BOLT AT 11:00 IN PIPE 3 45' FROM NORTH ENTRANCE.

c46. Shape

PIPE 1: INDENTATION AT 2:00 LOOKING NORTH TO SOUTH 63' FROM NORTH ENTRANCE MEASURES 8" TALL X 3" DEEP X 6" WIDE. PIPE 2: DEFLECTION AT 1:00 LOOKING NORTH TO SOUTH STARTS 8' FROM NORTH ENTRANCE AND CONTINUES 8' NORTH TO SOUTH AT BOLTED CONNECTION MEASURING 3" TALL. PIPE 3: INDENTION AT 12:00 LOOKING NORTH TO SOUTH 58' FROM NORTH ENTRANCE MEASURING 8" TALL X 7" DEEP X 12" WIDE. CONDITION HAS WORSENERED FROM 2007 INSPECTION FROM 3" DEEP TO 7"

c47. Seams

WATER INFILTRATION. SOME RUSTING SECTION LOSS. A FEW AREAS OF CUSPING AS MUCH AS 1/8".

c48. Headwall/Endwall

CRACKS AND SPALLS (UNDER WATER AT 2014).

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CHANNEL

c53. Hydraulic Opening

6" CLEARANCE BETWEEN WATER AND TOP OF PIPES AT 2014 INSPECTION.
VEGETATION BLOCKS 5% AT INLET AND OUTLET. BOTTOM MATERIAL IN ALL
PIPES CONSISTS OF SOFT SILT 1/2" DEEP.