STATE OF OHIO DEPARTMENT OF TRANSPORTATION
BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1802887

Inventory Bridge Number: CUY 00021 06.980

Sufficiency Rating: 63.3

District: 12 Place Code (FIPS): INDEPENDENCE

Date Built: 7/1/1928

(9-0) Ν Bridge Type: 1 - CONCRETE/9 - CULVERT/5 -FILLED

SR 21 over HEMLOCK CRK N OF SELIG B

Type of Service on: HIGHWAY

APPROACH ITEMS

c1. Approach Wearing Surface (B

c2. Approach Slabs (SF)

c3. Relief Joint (LF)

c4. Embankment (EA) d

c5. Guardrail (EA)

N36. Safety Features: Tr, Gr, Tm

c6. Approach Summary

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

SUPERSTRUCT

c14. Alignment (EA) d	Γ
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	

		C				
	QTY.	1	2	3	4	TR
	2					1
	2					1
36	B N	36)	C _ 1	N 30	6)D	N
					(9-0)	7
		С	onditic	on stat	(9-0) :e	7 cr
	QTY.	1	onditic 2	on stat	(9-0) e 4	r cr TR
	QTY.	C 1	onditic 2	on stat 3	(9-0) e 4	7 cr TR
	QTY.	C 1	onditic 2	on stat	(9-0) e 4	r cr TR
	QTY.	1	onditic 2	on stat	(9-0) e 4	7 cr TR
	QTY.	C	onditic 2	on stat	(9-0) re 4	7 cr TR
	QTY.		onditic 2	on stat	(9-0) e 4	7 cr TR
	QTY.		2	on stat	(9-0) re 4	7 cr TR
	QTY.	C	onditic 2	3	(9-0) ee	7 cr TR
36)	QTY. A <u>N</u>			on stat	(9-0) e 4	7 cr TR

URE ITEMS	condition state				e	cr
	QTY.	1	2	3	4	TR
(LF)						
ames (EA)						
EA)						
(FA)						
ord (EA)						
ord (EA)						
ate (EA) d						
EA)						
A)						
(EA) d						
nger (EA)						
alls (LF)						
stem (LF) d						
nges (EA) d						
č ()						
Summary					(9-0)	N
					(0 0)	

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

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

CHANNEL ITEMS

c51. Alignment (LF) d c52. Protection (LF) d c53. Hydraulic Opening (EA) d c54. Navigation Lights (EA) d N61. Channel Summary

SIGN/UTILITY ITEMS

c55. Signs (EA) d c56. Sign Supports (EA) d c57. Utilities (LF) d **General Appraisal** N41. Operating Status

Inspector Name Inspection Date/Type 05/22/2019 **PE Number Reviewer Name Review Date PE Number**

Sutak, Mike







	condition state				cr
QTY.	1	2	3	4	TR
200.0					1
200.0					3
1					2
				(9-0)	4

condition state cr QTY 2 3 4 TR 0.0 4 0.0 (9-0) 5 А

Inspection Date: 05/22/2019

Routine

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1802887

Inventory Bridge Number: CUY 00021 06.980

Bridge Type: 1 - CONCRETE/9 - CULVERT/5 -FILLED

Sufficiency Rating: 63.3

Date Built: 7/1/1928

District: 12 Place Code (FIPS): INDEPENDENCE

SR 21 over HEMLOCK CRK N OF SELIG B

Type of Service on: HIGHWAY

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

MANY CRACKS, MOST SEALED.

CULVERT

c44. General

DEEP SCALING OF CONCRETE CHANNEL BOTTOM. WALLS AND CEILING HAVE LEACHING CRACKS WITH EFFLORESCENCE, HONEYCOMBING, DELAMS, SPALLS WITH EXPOSED REBAR, SOME UNDER ROADWAY (APPROX 400+ SF OF CEILING SPALLS & DELAMS THROUGHOUT). SPALLS REVEAL AREAS OF SEVERED / HANGING REBAR WITH RUSTING SECTION LOSS (APPROX 10' OF 360° REBAR EXPOSURE). WATER INFILTRATNG CULVERT IN SEVERAL LOCATIONS.

c48. Headwall/Endwall

LEACHING THRU CRACKS, SCALING & SPALLS WITH EXPOSED REBAR TO INLET HEADWALL. CONCRETE DETERIORATION WITH SEVERE RUSTING SECTION LOSS OF EXPOSED REBAR THAT CONNECTS NORTHWEST WINGWALL TO NORTH WALL OF CULVERT (7 RUST SEVERED & 30" OF 360° EXPOSURE). SEVERE DETERIORATION OF OUTLET HEADWALL THAT GOES INTO CULVERT CEILING WITH HANGING REBAR & OTHER 360° REBAR EXPOSURE. NOTE: BOTH HEADWALLS ARE OUTSIDE RIGHT OF WAY.

c49. Scour

AS MUCH AS 10" OF INLET TOE WALL IS EXPOSED TO FLOWING WATER. OUTLET CONCRETE CHANNEL PROTECTION IS UNDERMINED OUTSIDE THE RIGHT OF WAY.

CHANNEL

c52. Protection

SEVERE CONCRETE DETERIORATION WITH 2 LARGE SECTIONS THAT HAVE COLLAPSED INTO CHANNEL (1 SECTION NEAR CULVERT OUTLET & 1 SECTION NEAR END OF OUTLET CHANNEL WALLS). AS MUCH AS LAST 15' OF

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1802887

Inventory Bridge Number: CUY 00021 06.980

Sufficiency Rating: 63.3

Date Built: 7/1/1928

Bridge Type: 1 - CONCRETE/9 - CULVERT/5 - FILLED

District: 12 Place Code (FIPS): INDEPENDENCE

SR 21 over HEMLOCK CRK N OF SELIG B

Type of Service on: HIGHWAY

BOTH OUTLET CHANNEL WALLS COMPLETELY UNDERMINED. NOTE: ALL OUTSIDE RIGHT OF WAY.

c53. Hydraulic Opening

FALLEN TREES, DEBRIS & LARGE SECTION OF CONCRETE (THAT HAS WASHED UP ONTO NORTH CHANNEL WALL) BLOCKS 10% @ OUTLET.