

Inspection Report with SI&A Data

Structure Description: 1276.9 Foot - 3 Span Steel continuous Truss - Thru

2 District: 06 3 County: Carroll 16 Latitude: 38°40'49.00" 17 Longitude: 85°11'16.00"

7 Facility Carried US-42

Milepoint: 5.820

6A Feature Intersected: KENTUCKY RIVER & CITY ST

9 Location: .20 MI EAST OF JCT KY 55

NBI	X
Element	
Fracture Critical	
Underwater	
Special	

NBI CONDITION RATINGS

58 Deck:	6	61 Channel:	7
59 Superstructure:	4	62 Culvert:	N
60 Substructure:	5	Sufficiency Rating:	7

DESIGN

Substandard:	No
Fracture Critical:	Yes
43A Main Span Material:	(4) Steel Continuous
43B Main Span Design:	(10) Truss-Thru
45 Number of Spans Main:	3
44A Approach Span Material:	(4) Steel Continuous
44B Approach Span Design:	Not Coded
46 Number of Approach Spans:	9
107 Deck Type:	(1) Concrete-Cast-in-Place
108A Wearing Surface:	(3) Latex Concrete/Similar
108B Membrane:	(0) None
108C Deck Protection:	(0) None
Overlay Y/N:	Yes
Overlay Type:	PCC
Overlay Thickness:	2.000 in
Overlay Date:	

APPRAISAL

36A Bridge Railings:	(0) Substandard
36B Transitions:	(0) Substandard
36C Approach Guardrail:	(0) Substandard
36D Approach Guardrail Ends:	(0) Substandard
71 Waterway Adequacy:	(8) Equal Desirable
72 Approach Alignment:	(6) Equal Minimum Crit
113 Scour Critical:	(8) Stable above footing
Recommended Scour Critical:	(2) SC- Extensive Scour

LOAD RATINGS

63 Operating Type:	N/A
64 Operating Rating:	40.0 tons
65 Inventory Type:	N/A
66 Inventory Rating:	20.0 tons
Truck Capacity Type I:	20 tons
Truck Capacity Type II:	27 tons
Truck Capacity Type III:	34 tons
Truck Capacity Type IV:	40 tons

GEOMETRIC DATA

48 Max Length Span:	299.869 ft
49 Structure Length:	1,276.903 ft
32 Approach Roadway:	20.013 ft
33 Median:	(0) No Median
34 Skew:	0°
35 Flare:	No Flare
50A Curb/Sidewalk Width L:	4.921 ft
50B Curb/Sidewalk Width R:	4.921 ft
47 Horiz. Clearance:	25.919 ft
51 Width Curb to Curb:	25.919 ft
52 Width Out to Out:	28.871 ft

ADMINISTRATIVE

27 Year Built:	1952
106 Year Reconstructed:	0
42A Type of Service On:	(5) Hyw - Ped
42B Type of Service Under:	(5) Waterway
37 Historical Significance:	(5) Not Eligible
21 Custodian:	(01) State Hwy Agency
22 Owner:	(01) State Hwy Agency
101 Parallel Structure:	(N) No II Structure Exists

CLEARANCES

10 Vert. Clearance:	16.001 ft
53 Min. Vert. Clearance Over:	15.919 ft
54A Vert. Under Reference:	(H) Hwy beneath struct.
54B Min. Vert. Underclearance:	24.331 ft
55A Lateral Under Reference:	(H) Hwy beneath struct.
55B Min. Lat. Underclearance R:	77.428 ft
56 Min. Lat. Underclearance L:	0.000 ft

POSTINGS

41 Posting Status:	(P) Posted For Load
Signs Posted Cardinal:	Yes
Signs Posted Non-Cardinal:	Yes
Field Postings Gross:	8 tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	tons
Field Postings Type IV:	tons

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:									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
			%		%		%		%

STRUCTURE NOTES
<p>Structure Stamped 1948 20 TONS</p> <p>05/18/16 The load rating is controlled for all load cases by gusset plate L10/L10' with 29% thinning. Analysis by Stantec, note by ALI.</p> <p>07/11/16 Posting memo for 8 tons gross due to the load rating of the superstructure. ALI.</p> <p>11/21/16 Posting memo for legal AAA limits (Types 1 through 4 at 20, 27, 34, 40 tons) due to repairs and load rating of the superstructure. ALI.</p>

INSPECTION NOTES
<p>Note that this Special Inspection performed and completed this date was for review and confirmation of all recently added retrofit repaired locations throughout structure. Such retrofit repairs within scope of this inspection were placed on structure during November of 2016.</p> <p>Inspection was performed by KYTCs ABush, JRogers, NReis, CBresch, GCady and GCochran, using rope access to obtain review of locations.</p> <p>NBI and Element Level were not in scope of this inspection this date.</p> <p>For any structural details, notes, etc. on structure, refer to most previous Fracture Critical Inspection performed, dated 06/29/2015. (11/18/2016)</p> <p>During inspection this date, all detailed Gusset Plate repairs and Stringer Member repairs (retrofits) were reviewed and were found that subject repairs are as designed per supplied drawings dated September 26th, 2016.</p> <p>Such repairs consist of retrofits to gusset plates at L6, L10, L18 and L22 along the upstream truss line of structure, and to exterior stringer members #1 and #4 randomly along both the up and down stream sides of structure.</p> <p>See photos and drawings located in the Media Tab of this report. (11/18/2016)</p>

WORK		
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