

054B00125N

KYTC Bridge Inspection Report

Summary:

Inspection Date: 6/24/2011
 Inspector: DLARKIN (33)
 Primary Type: Substandard (12 Months)

Types of Inspections Performed:

National Bridge Inventory: Y
 Element: Y
 Fracture Critical: N
 Underwater: N
 Other Special: N

Inspector Signature: _____

District Review Date: 6/27/2011

District Reviewer: BHOUCK (7)

IDENTIFICATION

Bridge ID (8):	054B00125N	MAP BRIDGE	District Number:	2
Route Carried (7):	KY-502		County (3):	54 Hopkins
Mile Point:	3.246		Feature Intersected (6):	CLEAR CREEK
Location (9):	2.8 MI S OF JCT KY 1034		Road Name:	COILTOWN RD
Structure Description:	160.1 Foot - 5 Span Prestressed concrete Box Beam or Girders - Multiple			

NBI CONDITION		SCHEDULE TAB				
Deck (58):	5	Schedule:	Required (Y/N)	Last Date	Frequency	Next Date
Superstructure (59):	4	NBI (90):		6/24/2011	(91): 12 mos	6/24/2012
Substructure (60):	3	Fracture Critical (92A):	N	(93A): 1/1/1901	(92A): mos	1/1/1901
Culverts (62):	N	Underwater (92B):	N	(93B): 1/1/1901	(92B): mos	1/1/1901
Channel/Protection (61):	7	Other Special (92C):	N	(93C): 1/1/1901	(92C): mos	1/1/1901
		Elemental:	NA		12 mos	6/24/2012

Load Rating and Posting						WATERWAY	
Truck Type	Typ I	Typ II	Typ III	Typ IV	Gross	Scour Critical (113):	8
Recomm. Posting:	3	3	3	3	3	Observed 113 Rating:	8
Field Posting:	3	3	3	3	3	Waterway Adeq. (71):	4
Posting Status (41):	P Posted for load						
Signs Posted:	Cardinal:	N	Non-Cardinal:	Y			

DECK/WEARING SURFACE

Deck Type (107):	2 Concrete Precast Panel						
Wearing Surface/Protective System (108):	Type:	6	Membrane:	2	Protection:	0	
Traffic Safety Features (36):	Bridge Rail:	0	Transition:	0	Appr. Rail:	0	Rail Ends: 0
Overlay:	Y						
Overlay Type:	Asphalt						
Overlay Thickness:	2.99						

Vertical Clearances

Minimum Vertical Overclearance (53):	99.99
Minimum Vertical Underclearance (54):	0.00
Maximum Vertical Clearance (10):	99.99
Minimum Vertical Clearance:	99.99

Sufficiency Ratings

SR:	17.00	SD/FO:	1 Structurally Deficient
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Element Condition State Data

Elm/Env	Description	Units	Total Qty.	Qty. CS1	Qty. CS2	Qty. CS3	Qty. CS4	Qty. CS5
104/1	P/S Conc Box Girder	LF	1,280.00	1,070.00	150.00	30.00	30.00	0.00
14/1	P Conc Deck/AC Ovly	SF	3,560.00	0.00	3,560.00	0.00	0.00	0.00
206/1	Timber Column	EA	20.00	0.00	2.00	15.00	3.00	0.00

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Element Condition State Data

Elm/Env	Description	Units	Total Qty.	Qty. CS1	Qty. CS2	Qty. CS3	Qty. CS4	Qty. CS5
215/1	R/Conc Abutment	LF	50.00	0.00	50.00	0.00	0.00	0.00
234/1	R/Conc Cap	LF	100.00	0.00	0.00	50.00	50.00	0.00
301/1	Pourable Joint Seal	LF	96.00	0.00	0.00	96.00	0.00	0.00
334/1	Metal Rail Coated	LF	320.00	0.00	0.00	320.00	0.00	0.00
503/1	RC Curb	LF	320.00	0.00	320.00	0.00	0.00	0.00

Element Condition State Data

Str	Unif	Elm/Env	Description	Description
1	104/1	P/S Conc Box Girder		Several of the bottoms of the PPC box beams have long longitudinal cracks. Beam 4 span 1 20' long crack, beam 4 in span 2 25' long cracked and spalling on the bottom with one area of a broken prestressed strand, span 4 beam 2 spall with strand broken, and beam 3 span 3 a 30' crack.
1	14/1	P Conc Deck/AC Ovlly		Asphalt overlay is cracking and spalling over the joints and along some of the edges of the PPC box beams. The asphalt overlay is worn and pitting. There are 2 basket ball size spalls that need to be filled with asphalt.
1	206/1	Timber Column		All of the timber pile are decaying to some degree. The center pile in pier 3 is mushrooming and sounds hollow. Several of the other piling have hollow sounding areas. The pier 4 center pile is rotten throughout. The second pile in pier 4 is hollow sounding. All but 2 of the piling have hollow sounding areas.
1	215/1	R/Conc Abutment		< none >
1	234/1	R/Conc Cap		The concrete caps are cracking and spalling exposing rusty and corroding reinforcing steel. Pier cap 3 & 4 have shear cracks developing on the right and left side of the center timber piles.
1	301/1	Pourable Joint Seal		The joints have failed.
1	334/1	Metal Rail Coated		The steel guardrail and post are rusting.
1	503/1	RC Curb		< none >

BRIDGE.Notes

Replace the 3 ton load limit sign on the both end of the structure. The sign cannot be read.

Work Candidates

Inspector Candidates:

Candidate ID:	Status	Priority	Assigned	Action	Elem	Date Recommended
A-KYTC-13BC75C9-00000029	Not Approved	High	Unassigned	11	0	6/29/2010
A-KYTC-159AE2BC-00000011	Approved	High	Unassigned	31	14	6/24/2011