Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 1323 Agency ID: 013C00011N SR: 27.1 SD/FO: SD

IDENTIFICATION

State 1: 21 Kentucky Struc Num 8: 013C00011N
Facility Carried 7: MARIE ROBERTS ROAD Location 9: .05 MI W OF JCT KY 15
Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 4 County Hwy
Level of Service 5C: 1 Mainline Rte. Number 5D: 01165
Directional Suffix 5E: 0 N/A (NBI) % Responsibility : Unknown
SHD District 2: District 10 County Code 3: Breathitt (013)
Place Code 4: FIPS 0000 Mile Post 11: 0.116 mi
Feature Intersected 6: TROUBLESOME CREEK
Latitude 16: 37d 28' 42" Longitude 17: 083d 19' 29"
Border Bridge Code 98: Unknown (P)
Border Bridge Number 99:

INSPECTION

Frequency 91: 24 months Inspection Date 90: 2/25/2011 Next Inspection: 02/25/2013
FC Frequency 92A: NA FC Inspection Date 93A: NA Next FC Inspection: NA
UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA
SI Frequency 92C: NA SI Date 93C: NA Next SI: NA
Element Frequency: 24 months Element Inspection Date: 02/25/2011 Next Elem. Insp. Due: 02/25/2013

CLASSIFICATION

Defense Highway 100: 0 Not a STRAHNET hwy Parallel Structure 101: No || bridge exists
Direction of Traffic 102: 3 1-lane Br for 2-way Temporary Structure 103: Not Applicable (P)
Highway System 104: 0 Not on NHS NBIS Length 112: Long Enough
Toll Facility 20: 3 On free road Functional Class 26: 09 Rural Local
Defense Hwy 110: 0 Not a STRAHNET hwy Historical Significance 37: 5 Not eligible for NRHP
Owner 22: 04 City/Municipal Hwy Agenc
Custodian 21: 04 City/Municipal Hwy Agenc

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 4
Main Span Material/Design 43A/B:
3 Steel 02 Stringer/Girder

Deck Type 107: 1 Concrete-Cast-in-Place
Wearing Surface 108A: 1 Monolithic Concrete
Membrane 108B: 0 None
Deck Protection 108C: None

CONDITION

Deck 58: 4 Poor Super 59: 5 Fair Sub 60: 6 Satisfactory
Culvert 62: N N/A (NBI) Channel/Channel Protection 61: 7 Minor Damage

LOAD RATING AND POSTING

Inventory Rating Method 65: 1 LF Load Factor Operating Rating Method 63: 1 LF Load Factor
Inventory Rating 66: HS5.6 Operating Rating 64: HS9.2
Design Load 31: 1 M 9 (H 10) Posting 70: 4 0.1-9.9%below
Posting status 41: A Open, no restriction

AGE AND SERVICE

Year Built 27: 1948 Year Reconstructed 106: 0
Type of Service on 42A: 1 Highway
Type of Service under 42B: 5 Waterway
Lanes on 28A: 1 Lanes Under 28B: 0 Detour Length 19: 1.9 mi
ADT 29: 361 Truck ADT 109: Unknown Year of ADT 30: 2006

APPRAISAL

Bridge Rail 36A: 0 Substandard Approach Rail 36C: 0 Substandard
Transition 36B: 0 Substandard Approach Rail Ends 36D: 0 Substandard
Str. Evaluation 67: 3 Deck Geometry 68: 2 Intolerable - Replace
Underclearance, Vertical and Horizontal 69: N Not applicable (NBI)
Waterway Adequacy 71: 9 Above Desirable Approach Alignment 72: 6 Equal Min Criteria
Scour Critical 113: 8 Stable Above Footing

GEOMETRIC DATA

Length Max Span 48: 62.0 ft Structure Length 49: 250.0 ft
Curb/Sdwlk Width L 50A: 0.0 ft Curb/Sidewalk Width R 50B: 0.0 ft
Width Curb to Curb 51: 14.1 ft Width Out to Out 52: 18.0 ft
Approach Roadway Width 32: (w/ shoulders) 25.9 ft Median 33: 0 No median
Deck Area: 4,511.2 sq. ft
Skew 34: 0.00 ° Structure Flared 35: 0 No flare
Vertical Clearance 10: 99.99 ft Horiz. Clearance 47: 13.78 ft
Minimum Vertical Clearance Over Bridge 53: 328.1 ft
Minimum Vertical Underclearance Reference 54A: N Feature not hwy or RR
Minimum Vertical Underclearance 54B: 0.0 ft
Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR
Minimum Lateral Underclearance R 55: 0.0 ft
Minimum Lateral Underclearance L 56: 0.0 ft

PROPOSED IMPROVEMENTS

Bridge Cost 94: $ 562,000 Type of Work 75: 34 Widen w/ Deck Reha
Roadway Cost 95: $ 0 Length of Improvement 76: 24.9 ft
Total Cost 96: $ 562,000 Future ADT 114: 522
Year of Cost Estimate 97: 1994 Year of Future ADT 115: 2026

NAVIGATION DATA

Navigation Control 38: 0 Permit Not Required
Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft
Pier Protection 111: Not Applicable (P) Lift Bridge Vertical Clearance 116:

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	12/1	Bare Concrete Deck	(SF)	3,500	0 %	0	0 %	0	0 %	0	100 %	3,500	0 %	0
1	107/1	Paint Stl Opn Girder	(LF)	750	0 %	0	43 %	324	56 %	420	1 %	6	0 %	0
1	205/1	R/Conc Column	(EA)	6	0 %	0	100 %	6	0 %	0	0 %	0	0 %	0
1	215/1	R/Conc Abutment	(LF)	60	100 %	60	0 %	0	0 %	0	0 %	0	0 %	0
1	233/1	P/S Conc Cap	(LF)	48	94 %	45	6 %	3	0 %	0	0 %	0	0 %	0
1	301/1	Pourable Joint Seal	(LF)	54	0 %	0	100 %	54	0 %	0	0 %	0	0 %	0

Structure Inventory and Appraisal Sheet (English Units)

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	331/1	Conc Bridge Railing	(LF)	250	91 %	228	8 %	20	1 %	2	0 %	0	0 %	0
1	503/1	Curbs	(LF)	250	96 %	240	4 %	10	0 %	0	0 %	0	0 %	0
1	606/1	Drains	(EA)	8	0 %	0	100 %	8	0 %	0	0 %	0	0 %	0
1	613/1	Vegetation	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0

Str Unit	Elm/Env	Description	Element Notes
1	12/1	Concrete Deck - Bare	Deck is heavily detreiorated and pot holes.
1	107/1	Painted Steel Open Girder/Beam	Beams have flaking rust at abutment 5. Beams and top of abutment 5 are covered with dirt. Beams are deflected from dead load.
1	205/1	Reinforced Conc Column or Pile Ex	< none >
1	215/1	Reinforced Conc Abutment	< none >
1	233/1	P/S Conc Cap	Spall in cap at pier 3 on the east side
1	301/1	Pourable Joint Seal	< none >
1	331/1	Reinforced Conc Bridge Railing	Spall with steel exposed at S/W corner
1	503/1	Reinforced Concrete Curbs and Tir	< none >
1	606/1	Drains	< none >
1	613/1	Vegetation	< none >

BRIDGE NOTES

PAST INSPECTION

Inspection Date: 02/25/2011 Type: 2 Standard (24 months)

Inspector: SHERALD Pontis User Key: SHERALD - Sam I

Scope:

NBI: ☒ Other: ☐ Element: ☒

Underwater: ☐ Fracture Critical: ☐

INSPECTION NOTES

–