**90 Inspection Date -** 4/15/15
**Inspector -** LBOLLER (284)

056B00143L - **8 Bridge ID**
Standard -**Primary Inspection Type**

# Inspection Report with SI&A Data

**Structure Description:** 62.99 Foot - Single Span Concrete Frame (except frame culverts)
**2 District:** 05 **3 County:** Jefferson **16 Latitude:** 38°14′16.00″ **7 Longitude:** 85°39′53.00″
**7 Facility Carried** I-64 WB **Milepoint:** 0.370
**6A Feature Intersected:** OLD CANNONS LN
**9 Location:** WBL .3 MI W-KY 2048 NTRCH
**Structure Description:** 62.99 Foot - Single Span Concrete Frame (except frame culverts)

| | |
|---|---|
| NBI | X |
| Element | X |
| Fracture Critical | |
| Underwater | |
| Special | |

## NBI CONDITION RATINGS

| | | | |
|---|---|---|---|
| **58 Deck:** | 6 | **61 Channel:** | N |
| **59 Superstructure:** | 7 | **62 Culvert:** | N |
| **60 Substructure:** | 7 | **Sufficiency Rating:** | 98 |

## DESIGN

| | |
|---|---|
| **Substandard:** | No |
| **Fracture Critical:** | No FC Details |
| **43A Main Span Material:** | (1) Concrete |
| **43B Main Span Design:** | (07) Frame |
| **45 Number of Spans Main:** | 1 |
| **44A Approach Span Material:** | Not Applicable |
| **44B Approach Span Design:** | Not Applicable |
| **46 Number of Approach Spans:** | 0 |
| **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:** | Latex |
| **Overlay Thickness:** | 1.250 in |
| **Overlay Date:** | 2001 |

## APPRAISAL

| | |
|---|---|
| **36A Bridge Railings:** | (1) Meets Standards |
| **36B Transitions** | (1) Meets Standards |
| **36C Approach Guardrail:** | (1) Meets Standards |
| **36D Approach Guardrail Ends:** | (1) Meets Standards |
| **71 Waterway Adequacy:** | (N) Not Applicable |
| **72 Approach Alignment:** | (8) Equal Desirable Crit |
| **113 Scour Critical:** | (N) Not over Waterway |
| **Recommended Scour Critical:** | (N) Not over Waterway |

## LOAD RATINGS

| | |
|---|---|
| **63 Operating Type:** | (1) Load Factor (LF) |
| **64 Operating Rating:** | 60.0 tons |
| **65 Inventory Type:** | (1) Load Factor (LF) |
| **66 Inventory Rating:** | 36.0 tons |
| **Truck Capacity Type I:** | tons |
| **Truck Capacity Type II:** | tons |
| **Truck Capacity Type III:** | tons |
| **Truck Capacity Type IV:** | tons |

## GEOMETRIC DATA

| | |
|---|---|
| **48 Max Length Span:** | 56.102 ft |
| **49 Structure Length:** | 62.992 ft |
| **32 Approach Roadway:** | -3.281 ft |
| **33 Median:** | (0) No Median |
| **34 Skew:** | 28° |
| **35 Flare:** | No Flare |
| **50A Curb/Sidewalk Width L:** | 0.000 ft |
| **50B Curb/Sidewalk Width R:** | 0.000 ft |
| **47 Horiz. Clearance:** | 38.386 ft |
| **51 Width Curb to Curb:** | -3.281 ft |
| **52 Width Out to Out:** | 42.671 ft |
| **48 Max Length Span:** | 56.102 ft |

## ADMINISTRATIVE

| | |
|---|---|
| **27 Year Built:** | 1969 |
| **106 Year Reconstructed:** | 0 |
| **42A Type of Service On:** | (1) Highway |
| **42B Type of Service Under:** | (1) Highway |
| **37 Historical Significance:** | (5) Not Eligible |
| **21 Maintenance Responsibility:** | (01) State Hwy Agency |
| **22 Owner:** | (01) State Hwy Agency |
| **101 Parallel Structure:** | (L) Left Of II Structure |
| **52 Width Out to Out:** | 42.671 ft |

## CLEARANCES

| | |
|---|---|
| **10 Vert. Clearance:** | 99.999 ft |
| **53 Min. Vert. Clearance Over:** | 99.999 ft |
| **54A Vert. Under Reference:** | (H) Hwy beneath struct. |
| **54B Min. Vert. Underclearance:** | 15.830 ft |
| **55A Lateral Under Reference:** | (H) Hwy beneath struct. |
| **55B Min. Lat. Underclearance R:** | 10.000 ft |
| **56 Min. Lat. Underclearance L:** | 0.000 ft |

## POSTINGS

| | |
|---|---|
| **41 Posting Status:** | (A) Open, No Restriction |
| **Signs Posted Cardinal:** | No |
| **Signs Posted Non-Cardinal:** | No |
| **Field Postings Gross:** | tons |
| **Field Postings Type I:** | tons |
| **Field Postings Type II:** | tons |
| **Field Postings Type III:** | tons |
| **Field Postings Type IV:** | tons |

# Inspection Report with SI&A Data

## 38: Re Concrete Slab

| Units | Total Qty | Qty. St. 1 | % in 1 | Qty. St. 2 | % in 2 | Qty. St. 3 | % in 3 | Qty. St. 4 | % in 4 |
|---|---|---|---|---|---|---|---|---|---|
| SQ.FT | 2,688 | 2,615 | 97% | 73 | 3% | 0 | 0% | 0 | 0% |

The 2001 latex overlay has minor cracks and has areas near both ends that are breaking up (40 SF A1, 24 SF A2). There are transverse cracks across the full width of the deck at both of the breakage locations. The asphalt approaches are broken and spalled at both ends.

Soffit copings at both sides of the bridge have some minor deteriorated/spalled areas, some with exposed reinforcement (7 SF south coping, 12 SF north coping). Soffit has rust stains from the chairs/supports for the bottom mat of reinforcement.

## 510: Wearing Surfaces

| Units | Total Qty | Qty. St. 1 | % in 1 | Qty. St. 2 | % in 2 | Qty. St. 3 | % in 3 | Qty. St. 4 | % in 4 |
|---|---|---|---|---|---|---|---|---|---|
| SQ.FT | 2,425 | 2,094 | 86% | 267 | 11% | 64 | 3% | 0 | 0% |

## 215: Re Conc Abutment

| Units | Total Qty | Qty. St. 1 | % in 1 | Qty. St. 2 | % in 2 | Qty. St. 3 | % in 3 | Qty. St. 4 | % in 4 |
|---|---|---|---|---|---|---|---|---|---|
| FT | 98 | 86 | 88% | 12 | 12% | 0 | 0% | 0 | 0% |

Minor hairline cracks and small areas of deterioration/spalling in legs/stems of rigid frame (considered as abutments for this element level inspection). Stone facings have some minor deterioration and/or scaling (4 LF at A2, 8 LF at A1).

## 331: Re Conc Bridge Railing

| Units | Total Qty | Qty. St. 1 | % in 1 | Qty. St. 2 | % in 2 | Qty. St. 3 | % in 3 | Qty. St. 4 | % in 4 |
|---|---|---|---|---|---|---|---|---|---|
| FT | 126 | 96 | 76% | 29 | 23% | 1 | 1% | 0 | 0% |

Barrier wall has minor cracks, most with efflorescence (15 LF North, 14 LF South). There is a large spall on the SW corner (1 LF CS3).

# Inspection Report with SI&A Data

| STRUCTURE NOTES |
|---|
| -1.25" latex overlay in 2001.<br>-There is no specific element level condition state assessment of concrete rigid frame bridges. Elements utilized to best describe this rigid frame during this inspection comply with the 2012 BIRM recommendations. TK 4/8/2013 |

| INSPECTION NOTES |
|---|
| Standard inspection performed on 04/15/2015 by L. Boller and A. Porter (DLZ). |

| WORK | |
|---|---|
| **Action:** | - |