



Bridge Inspection Report

056B00195R

Inspector: Daniel Coulter

Entered by: DCOULTER

12/17/2024

Standard (24 months)

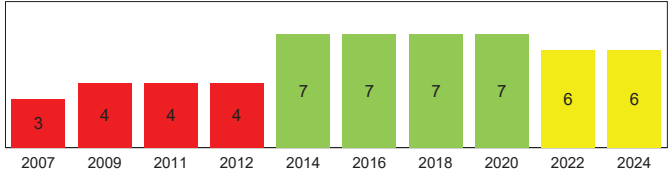
IDENTIFICATION	
Structure Num (8):	056B00195R
NBI Number	056B00195R
Structure Name:	
Location (9):	0.15 MI N OF MUH ALI BLVD
Carries (7):	I-65 NB
Type of Service (42A):	1 Highway
Feature Crossed (6):	S FLOYD ST
Type of Service (42B):	1 Highway
Placecode (4):	Not Applicable
County (3):	Jefferson (056)
State (1):	21 Kentucky
Admin Area:	Inventory
District:	District 5
Latitude (16):	38° 15' 5"
Longitude (17):	85° 44' 55"
Owner (22):	State Highway Agency
Maint. Resp. (21):	State Highway Agency
Year Built (27):	1963
Year Recon (106):	1980
Border State (98A): Not Applicable (P)	
Border Number (99):	
% Responsibility (98B):	

Fair		Heath Index: 93.60	
SubStd: No		SubStd Reason: Not Sub-Standa	
Inspection Type	Freq (92)	Last Insp (93)	Next Insp
Routine	24	12/17/2024	12/17/2026
Element	24	12/17/2024	12/17/2026
Fracture Critical (A)		1/1/1901	1/1/1901
Underwater (B)		1/1/1901	1/1/1901
Special Insp (C)		6/4/2012	1/1/1901

LOAD RATING AND POSTING	
Posting Status(41):	A Open, no restriction
Posting (70):	5 At/Above Legal Loads
Signs Posted Cardinal:	No
Signs Posted Non-Cardinal:	No
Recmd Date:	Posted Date:
Required Postings (Tons.)	
Gross:	
Truck Type 1:	Truck Type 1:
Truck Type 2:	Truck Type 2:
Truck Type 3:	Truck Type 3:
Truck Type 4:	Truck Type 4:
SUV 5:	SUV 5:
SUV 6:	SUV 6:
SUV 7:	SUV 7:
EV Single Axle:	EV Single Axle:
EV Tadem Axle:	EV Tadem Axle:
EV Gross:	EV Gross:

DECK GEOMETRY	
Deck Geometry (68):	7 Above Min Criteria
Deck Area:	4,840.00 ft²
Deck Type (107):	1 Concrete-Cast-in-Place
Wearing Surface (108A):	6 Bituminous
Membrane (108B):	0 None
Deck Protection (108C):	1 Epoxy Coated Reinforci
Approach Roadway width (32):	57.50 ft.
Width Curb to Curb (51):	57.50 ft.
O. to O. Width (52):	60.50 ft.
Curb / Sidewalk Width L (50A):	0.00 ft.
Curb / Sidewalk Width R (50B):	0.00 ft.
Median (33):	0 No median

DECK CONDITION	
Deck Rating (58):	6 Satisfactory
Bridge Rail (36A):	0 Substandard
Transition (36B):	0 Substandard
Approach Rail (36C):	0 Substandard
Approach Rail Ends (36D):	0 Substandard





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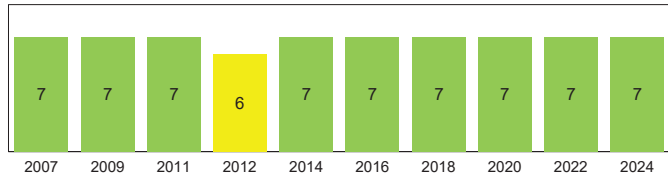
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SUPERSTRUCTURE GEOMETRY

of Main Spans (45): 1
of Approach Spans (46): 0
Main Material (43 A): 3 Steel
Main Design (43 B): 02 Stringer/Girder
Max Span Length (48): 73.50 ft.
Structure Length (49): 80.00 ft.
NBIS Length (37): Long Enough
Temp Structure (103): Not Applicable (P)
Skew (34): 32°
Structure Flared (35): 1 Yes, flared
Parallel Structure (101): Right of || bridge
Approach Alignment (72): 8 Equal Desirable Crit

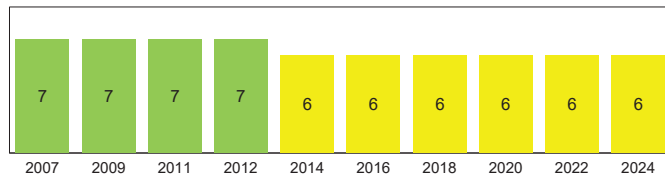


SUPERSTRUCTURE CONDITION

Superstructure Rating (59): 7 Good
Structure Evaluation (67): 6 Equal Min Criteria

SUBSTRUCTURE GEOMETRY

Navigation Control (38): NA-no waterway
Nav Vert Clearance (39): 0.00 ft.
Nav Horiz Clearance (40): 0.00 ft.
Pier Protection (111): Not Applicable (P)
Lift Bridge Vertical Clearance (116):
Scour Rating (113): N Not Over Waterway
Waterway Adequacy (71): N Not applicable



SUBSTRUCTURE CONDITION

Substructure Rating (60): 6 Satisfactory
Channel Rating (61): N N/A (NBI)

KYTC FIELDS

Overlay:	Yes	Scour Observed:	N/A
Overlay Type:	H T Polymer Asph	Scour Risk :	N/A
Overlay Thickness:	1.50 in.	Scour Analysis/Assessment :	Not Required
Overlay Year:	2006	Scour POA :	Not Required
Cross Section:	Not Required	Scour POA Date :	
Cross Section Date:		Next Cross Section Due Date :	

1ST NON-CARD ROUTE ON: I-65 RAMP to E MUHAMMAD AL

ROADWAY LOCATION		ROADWAY CLASSIFICATION		CLEARANCES	
Pos Prefix (5A):	1st Non-Card Route	Funcnt Class (26):	11 Urban Interstate	Vertical (10):	99.99 ft.
Kind of Hwy (5B):	1 Interstate Hwy	Level Service (5C):	7 Ramp	Min Vert Over (53):	99.99 ft.
Route Num (5D):	00065	NHS (104):	1 On the NHS	Vert Ref (54A):	H Hwy beneath struct
LRS Route (13A/B):		Defense Hwy (100):	1 On Interstate STRAHNET	Undrclearnce (54B):	16.17 ft.
Milepost (11):	0.01 mi	Toll Facility (20):	3 On free road	Horizontal (47):	
Suffix (5E):	0 N/A (NBI)	ADT (29):	4,562 Cars/Day	Min Lat Left (56):	0.00 ft.
Lanes Under (28B):	1	Pct Trucks (109):	0.00%	Min Lat Right (55B):	10.00 ft.
Detour Length (19):		ADT Year (30):	2019	Horiz Ref (55A):	H Hwy beneath struct
				Underclearance (69):	3 Intolerable - Correct



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ROUTE UNDER STRUCTURE: S FLOYD ST

ROADWAY LOCATION		ROADWAY CLASSIFICATION		CLEARANCES	
Pos Prefix (5A):	One Route Under	Funct Class (26):	17 Urban Collector	Vertical (10):	16.25 ft.
Kind of Hwy (5B):	5 City Street	Level Service (5C):	0 None of the below	Min Vert Over (53):	99.99 ft.
Route Num (5D):	01003	NHS (104):	0 Not on NHS	Vert Ref (54A):	H Hwy beneath struct
LRS Route (13A/B):		Defense Hwy (100):	0 Not a STRAHNET hwy	Undrclearnce (54B):	16.17 ft.
Milepost (11):	0.29 mi	Toll Facility (20):	3 On free road	Horizontal (47):	42.50 ft.
Suffix (5E):	0 N/A (NBI)	ADT (29):	8,362 Cars/Day	Min Lat Left (56):	0.00 ft.
Lanes Under (28B):	2	Pct Trucks (109):	0.00%	Min Lat Right (55B):	10.00 ft.
Detour Length (19):		ADT Year (30):	2024	Horiz Ref (55A):	H Hwy beneath struct
				Underclearance (69):	3 Intolerable - Correct

ROUTE ON STRUCTURE: I-65

ROADWAY LOCATION		ROADWAY CLASSIFICATION		CLEARANCES	
Pos Prefix (5A):	Route On Structure	Funct Class (26):	11 Urban Interstate	Vertical (10):	99.99 ft.
Kind of Hwy (5B):	1 Interstate Hwy	Level Service (5C):	1 Mainline	Min Vert Over (53):	99.99 ft.
Route Num (5D):	00065	NHS (104):	1 On the NHS	Vert Ref (54A):	H Hwy beneath struct
LRS Route (13A/B):	IO0065_000/00	Defense Hwy (100):	1 On Interstate STRAHNET	Undrclearnce (54B):	16.17 ft.
Milepost (11):	135.76 mi	Toll Facility (20):	3 On free road	Horizontal (47):	57.50 ft.
Suffix (5E):	0 N/A (NBI)	ADT (29):	42,001 Cars/Day	Min Lat Left (56):	0.00 ft.
Lanes On (28A):	3	Pct Trucks (109):	16.00%	Min Lat Right (55B):	10.00 ft.
Detour Length (19):	8.00 mi	ADT Year (30):	2012	Horiz Ref (55A):	H Hwy beneath struct
				Underclearance (69):	3 Intolerable - Correct



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STRUCTURE NOTES

- Bridge was formerly a portion of 056B00195N, but old I-65 SB lanes replaced with 056T00901 L and the old I-65 NB lanes portion was assigned a new designation: 056B00195R. 4/11/16 RCrane
- In 2022, AECOM used infrared thermography to identify and locate areas of concrete delamination and overlay debonding in the deck, plus they obtained core samples for testing to determine chloride ion levels in the concrete. See Media tab for results.
- 1.5" Rosphalt overlay in 2006 (high temp). NB center lane was milled and resurfaced in 2012 due to rutting. NKHL 2/1/13
- State forces performed an in-depth inspection on this structure in 1995, and a consultant performed one in 2007.
- Latex overlay in 1980.
- Structure has been reviewed and meets criteria set forth in the Inspection Interval Implementation Memo from FHWA sent June 13, 2022. Routine inspection can be extended to 48 months based on equivalent criteria per the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, however the inspection will remain at 24-month inspection and will not be extended. EDV 11/25/2024

INSPECTION NOTES

- Routine inspection performed by Daniel Coulter and Stephanie Stoops.
- Due to narrow shoulders and heavy traffic, photos were taken on the top side by Jonathan Micka with a drone.

SCOUR NOTES

LOAD RATING NOTES

- 7/22/19 Controlling member is an interior beam, with 1.25" Epoxy and 1.5" HT Polymer Asphalt; and critical point at mid-span for all vehicles. JEC

COMPLIANCE NOTES



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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
12	Re Concrete Deck	3	12/17/2024	5,306.00	sq.ft	5,162.00	55.00	89.00	0.00

Top of deck cannot be visually inspected due to overlay. Soffit has some transverse cracks with efflorescence, mainly in Bays 7-9. Bay 9 also has large areas of delamination and spalls near mid-span. Bay 1 has some spalling and possible full depth deterioration adjacent to Girder 2.

813 AC Wearing Surf w/ Membrane 3 12/17/2024 5,074.00 sq.ft 4,916.00 0.00 158.00 0.00

Overlay in the NB center lane was milled and resurfaced in 2012 due to rutting. There is some deterioration along the joints.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn Girder/Beam	3	12/17/2024	800.00	ft	720.00	80.00	0.00	0.00

Beams have some surface rust forming, mainly near ends.

515 Steel Protective Coating 3 12/17/2024 4,055.00 sq.ft 595.00 3,300.00 160.00 0.00

Steel protective coating is generally substantially effective, with limited effectiveness where corrosion has initiated.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
215	Re Conc Abutment	3	12/17/2024	156.00	ft	131.00	11.00	14.00	0.00

Abutments have moderate to wide full height vertical cracks and spalls. Abutment 1 has a wide horizontal crack below Beam 8. East end of Abutment 1 has cracking and efflorescence below Beam 10 and in the backwall and spalls with exposed rebar at the bottom at the east end. East end of Abutment 2 has a large spall with exposed rebar.



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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
301	Pourable Joint Seal	3	12/17/2024	151.00	ft	0.00	0.00	0.00	151.00

Pourable seal is missing throughout most of joints, exposing original compression seals in places though mostly filled with debris. Adjacent overlay is also cracking and spalling over the armored edges.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
311	Moveable Bearing	3	12/17/2024	10.00	each	6.00	3.00	1.00	0.00

Moveable bearings at Abutment 2 have freckled and surface rust in a few areas, with pack rust between the bearing and masonry plate at Beam 10.

515 Steel Protective Coating 3 12/17/2024 41.00 sq.ft 0.00 24.00 16.00 1.00

Steel protective coating is substantially effective, with the exception of a few areas with limited to no effectiveness.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
313	Fixed Bearing	3	12/17/2024	10.00	each	4.00	4.00	2.00	0.00

Fixed bearings at Abutment 1 have freckled and surface rust in a few areas, with pack rust between the bearing and masonry plate at Beams 9 and 10.

515 Steel Protective Coating 3 12/17/2024 41.00 sq.ft 0.00 27.00 12.00 2.00

Steel protective coating is substantially effective, with the exception of a few areas with limited to no effectiveness.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Conc Bridge Railing	3	12/17/2024	160.00	ft	144.00	16.00	0.00	0.00

Barrier walls have a few cracks.



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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
859	Vegetation	3	12/17/2024	1.00	each	0.00	1.00	0.00	0.00

East side of bridge has large portions covered with vines.



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056B00195R Routine Inspection 12/17/24



Bridge joint over Abutment 1.



Bridge joint over Abutment 2.

056B00195R Routine Inspection 12/17/24



West profile



East profile



Abutment 1



Abutments have moderate to wide full height vertical cracks.

056B00195R Routine Inspection 12/17/24



East end of Abutment 1 has cracking and efflorescence below Beam 10 and in the backwall.



Typical Abutment 1 bearings.



Superstructure



Soffit has some transverse cracks with efflorescence, mainly in Bays 7-9.



Abutment 2



Abutment 2 full height wide vertical crack.



Bearings 9 and 10 at Abutment 2 have pack rust between the bearing and masonry plate.



East side of bridge has large portions covered with vines.