

## Appendix F – Traffic Data

## TRAFFIC DATA

<b>I-65 – South of SR 160</b>		
2021 AADT	45,291	VPD
2043 AADT	49,452	VPD
2021 DHV	3,112	VPH
2043 DHV	3,398	VPH
DIRECTIONAL DISTRIBUTION	49.7	%
SPEED LIMIT	65-70*	MPH
TRUCKS	32	% AADT
	23	% DHV

<b>I-65 – North of SR 160</b>		
2021 AADT	43,670	VPD
2043 AADT	48,812	VPD
2021 DHV	2,747	VPH
2043 DHV	3,071	VPH
DIRECTIONAL DISTRIBUTION	51.5	%
SPEED LIMIT	65-70*	MPH
TRUCKS	22	% AADT
	27	% DHV

<b>Biggs Rd</b>		
2021 AADT	950	VPD
2043 AADT	1,050	VPD
2021 DHV	100	VPH
2043 DHV	110	VPH
DIRECTIONAL DISTRIBUTION	55	%
SPEED LIMIT	30	MPH
TRUCKS	3	% AADT
	3	% DHV

<b>SR 160</b>		
2021 AADT	7,210	VPD
2043 AADT	8,100	VPD
2021 DHV	790	VPH
2043 DHV	890	VPH
DIRECTIONAL DISTRIBUTION	65	%
SPEED LIMIT	45	MPH
TRUCKS	18	% AADT
	14	% DHV

<b>Brownstown Rd</b>		
2021 AADT	480	VPD
2043 AADT	540	VPD
2021 DHV	60	VPH
2043 DHV	60	VPH
DIRECTIONAL DISTRIBUTION	66	%
SPEED LIMIT	30	MPH
TRUCKS	8	% AADT
	5	% DHV

<b>CR 600 S</b>		
2021 AADT	770	VPD
2043 AADT	870	VPD
2021 DHV	80	VPH
2043 DHV	90	VPH
DIRECTIONAL DISTRIBUTION	68	%
SPEED LIMIT	35	MPH
TRUCKS	3	% AADT
	2	% DHV

<b>Leota Rd</b>		
2021 AADT	1,450	VPD
2043 AADT	1,630	VPD
2021 DHV	160	VPH
2043 DHV	180	VPH
DIRECTIONAL DISTRIBUTION	57	%
SPEED LIMIT	40	MPH
TRUCKS	4	% AADT
	1	% DHV

<b>Lake Rd West</b>		
2021 AADT	2,410	VPD
2043 AADT	2,700	VPD
2021 DHV	240	VPH
2043 DHV	270	VPH
DIRECTIONAL DISTRIBUTION	53	%
SPEED LIMIT	30	MPH
TRUCKS	2	% AADT
	2	% DHV

\*65mph limit for heavy trucks and 70mph for all other traffic

**Source:** April 29, 2020 Project Traffic Forecast Report DES No.: 1700135 – by INDOT, Office of Traffic Statistics and Base Year (2016 to 2018) AADT volumes were obtained from the INDOT Traffic Count Database System.

<b>TRAFFIC DATA</b>		Henryville Rest Area I-65 Northbound Ramps	
A.A.D.T.	(PROJ. 2023)	1,063	V,P,D.
A.A.D.T.	(PROJ. 2031)	1,105	V,P,D.
D.H.V	(PROJ. 2031)	108	V,P,H.
DIRECTIONAL DISTRIBUTION		100	%
TRUCKS		47 %	A,A,D,T.
		42 %	D,H,V.
<b>DESIGN DATA</b>			
DESIGN SPEED		35	M,P,H.
PROJECT DESIGN CRITERIA		PREVENTATIVE MAINTENANCE (FREEWAY)	
FUNCTIONAL CLASSIFICATION		INTERSTATE	
RURAL/URBAN		RURAL	
TERRAIN		LEVEL	
ACCESS CONTROL		FULL	

<b>TRAFFIC DATA</b>		Henryville Rest Area I-65 Southbound Ramps	
A.A.D.T.	(PROJ. 2023)	1,057	V,P,D.
A.A.D.T.	(PROJ. 2031)	1,057	V,P,D.
D.H.V	(PROJ. 2031)	95	V,P,H.
DIRECTIONAL DISTRIBUTION		100	%
TRUCKS		46 %	A,A,D,T.
		41 %	D,H,V.
<b>DESIGN DATA</b>			
DESIGN SPEED		70	M,P,H.
PROJECT DESIGN CRITERIA		PREVENTATIVE MAINTENANCE (FREEWAY)	
FUNCTIONAL CLASSIFICATION		INTERSTATE	
RURAL/URBAN		RURAL	
TERRAIN		LEVEL	
ACCESS CONTROL		FULL	

<b>TRAFFIC DATA</b>		SR 56 to I-65 Northbound Directional Ramp	
A.A.D.T.	(PROJ. 2023)	2,462	V,P,D.
A.A.D.T.	(PROJ. 2043)	2,462	V,P,D.
D,H,V	(PROJ. 2043)	209	V,P,H.
DIRECTIONAL DISTRIBUTION		100	%
TRUCKS		9 %	A,A,D,T.
		9 %	D,H,V.
<b>DESIGN DATA</b>			
DESIGN SPEED		35	M,P,H.
PROJECT DESIGN CRITERIA		COMPLETE RECONSTRUCTION (FREEWAY)	
FUNCTIONAL CLASSIFICATION		INTERSTATE	
RURAL/URBAN		RURAL	
TERRAIN		LEVEL	
ACCESS CONTROL		FULL	

<b>TRAFFIC DATA</b>		I-65 Northbound to SR 56 Directional Ramp	
A.A.D.T.	(PROJ. 2023)	2,457	V,P,D.
A.A.D.T.	(PROJ. 2043)	2,457	V,P,D.
D,H,V	(PROJ. 2043)	299	V,P,H.
DIRECTIONAL DISTRIBUTION		100	%
TRUCKS		7 %	A,A,D,T.
		7 %	D,H,V.
<b>DESIGN DATA</b>			
DESIGN SPEED		35	M,P,H.
PROJECT DESIGN CRITERIA		COMPLETE RECONSTRUCTION (FREEWAY)	
FUNCTIONAL CLASSIFICATION		INTERSTATE	
RURAL/URBAN		RURAL	
TERRAIN		LEVEL	
ACCESS CONTROL		FULL	

# Appendix G – Public Involvement Materials and Responses



# INDIANA DEPARTMENT OF TRANSPORTATION

May 20, 2021

Dear Resident/Property Owner:

The Indiana Department of Transportation (INDOT) is seeking input from residents and property owners who would benefit from the construction of noise barriers for the I-65 Added Travel Lanes project in Clark and Scott counties. This project includes construction of additional travel lanes along I-65 from approximately 0.5 mile north of the Blue Lick Road interchange to approximately 2.2 mile south of the SR 56 interchange.

INDOT evaluates noise abatement measures for feasibility and reasonableness. If proven feasible and reasonable, any residents and/or property owners who have been determined to benefit from the construction of a noise barrier are given the opportunity to provide their input. INDOT then makes the decision whether to construct the noise barrier based on feasibility, reasonableness, and percentage of supportive responses from the benefited residents and/or property owners. Preliminary findings show that a potential noise barrier near your residence or property is both feasible and reasonable. At this time, INDOT needs your input on whether you want the proposed noise barrier constructed in your area.

Enclosed are a map showing the location of the potential noise barrier and the survey postcard. After you have completed the survey postcard, please either return it by mail or scan and email via the contact information below. Please return the survey no later than **June 20, 2021**. **Your input is needed regarding the possible construction of a noise barrier near your neighborhood. It is very important that you submit the survey postcard.**

We look forward to hearing from you. If you have questions regarding the survey and potential noise barrier, please contact Monica Del Real at (317) 547-5580 or [mdelreal@structurepoint.com](mailto:mdelreal@structurepoint.com).

Sincerely,  
American Structurepoint, Inc.

A handwritten signature in black ink, appearing to read 'Monica Del Real'.

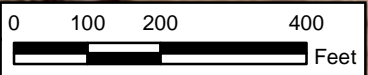
Monica Del Real  
Senior Environmental Specialist



# Proposed Noise Barrier Along I-65



- Potential Noise Barrier
- Impacted/ Not Benefited Receptor
- Impacted/ Benefited Receptor
- Not Impacted/ Not Benefited Receptor
- Not Impacted/ Benefited Receptor



Source: Indiana Office of Information Technology, Indiana University Spatial Data Portal, UITS, Woolpert

Path: P:\2019\00172\Drawings\Environmental\65 ATLE\Exhibits\Noise\2019\_00172\_EV\2021-05-07\_I-65ATL\_Noise\_Survey\_Graphic.mxd Date: 5/7/2021 User: mdlreal





# I-65 ADDED TRAVEL LANES PROJECT, CLARK AND SCOTT COUNTIES

## GENERAL TRAFFIC NOISE INFORMATION

### What influences traffic noise?

The level of highway traffic noise depends on four factors:

- Volume of traffic
- Speed of traffic
- Number of large trucks
- Location of highway relative to house

As any of these factors change, noise levels change.

### Who regulates traffic noise?

The Federal Highway Administration (FHWA) has developed regulations regarding noise analysis on federally funded highway projects, and the Indiana Department of Transportation (INDOT) has outlined its implementation guidance in its Traffic Noise Analysis Procedure (2017) (Traffic Noise Policy) at [www.tinyurl.com/2z5w9yne](http://www.tinyurl.com/2z5w9yne).

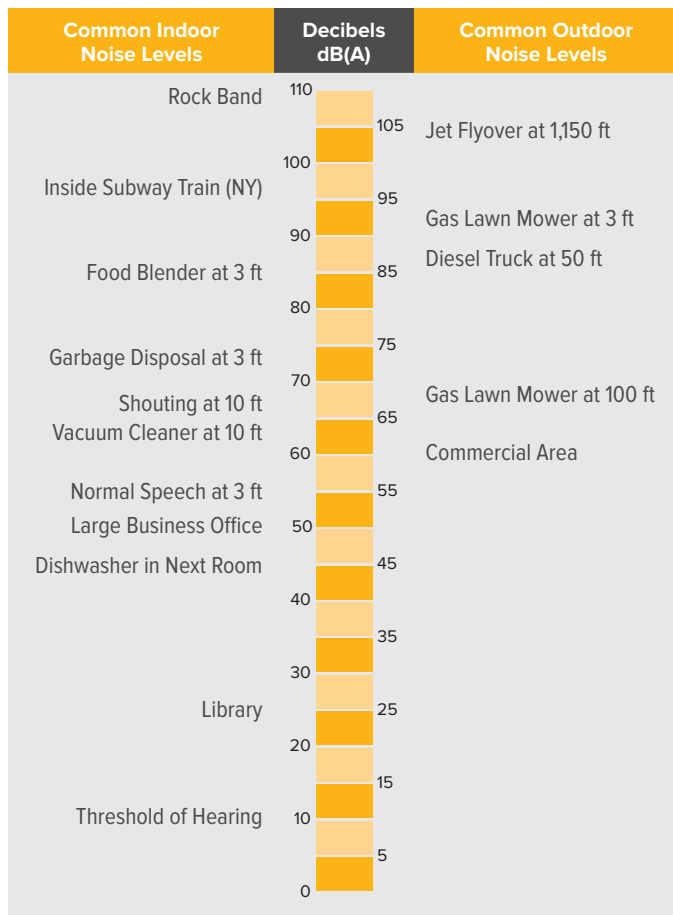
### What is the noise impact level?

The INDOT Traffic Noise Policy establishes two criteria for identifying an impact resulting from a project:

- Identifying where future predicted noise levels would approach or exceed a set of noise abatement criteria (NAC) established in the FHWA regulations. For exterior areas where frequent human use occurs in residential areas, the NAC is 67 decibels (dB(A)); INDOT defines “approaching the NAC” as within 1 dB (66 dB(A) for residential areas). Locations where future noise levels are predicted to be 66 dB(A) or higher are considered “impacted.”
- Identifying locations where noise levels are expected to increase by 15 dB(A) or more over existing levels.

### How are noise levels predicted?

The FHWA Traffic Noise Model (TNM) Version 2.5 accounts for traffic noise factors to generate a 3-D model that can predict noise levels during the noisiest hour of the day. Based on noise levels predicted with a project, the model identifies where noise impacts occur and where mitigation should be considered.



### How can noise be reduced?

Traffic noise can be potentially reduced by modifying either the source of the noise (speed, volume, or type of vehicles), the location of the receiver (the person who hears the noise), or the path by which the noise reaches the receiver. Because it is impractical to reduce the speed, volume, or type of vehicles on a highway, or to relocate residences solely due to noise impacts, the most common approach to mitigating noise is the construction of noise barriers.





**What is a noise barrier?**

Noise barriers are solid obstructions built between the highway and businesses or residences along a highway. Effective noise barriers typically reduce noise levels by 5 to 10 dB(A), which reduces the loudness of traffic noise by as much as one-half.

The most common noise barriers constructed typically consist of concrete/wood composite panels placed between steel supports. The height and location of a barrier is determined by the TNM analysis. The design-build contractor team will complete the final design of the noise barriers. This team will gather the input of adjacent property owners during the design phase to determine the final color and texture.

**How humans perceive changes in sound level:**

Changes in Sound	Perception
±3 db(A)	Barely perceptible
±5 db(A)	Clearly perceptible
±10 db(A)	Twice/half as loud

**How does a noise barrier work?**

Noise barriers reduce the sound from a highway by either absorbing the sound, reflecting it back across the highway, or forcing it to take a longer path to receivers. A noise barrier must be tall enough and long enough to block traffic noise from the area that is to be protected.

**How is it determined whether to construct a noise barrier?**

INDOT considers noise abatement when a noise impact occurs and a barrier is considered to be feasible and reasonable.

**What is a feasible noise barrier?**

INDOT requires noise abatement measures to be based on sound engineering practices and standards and requires that any measure be evaluated at the best location. Noise barriers require long, uninterrupted segments to be effective. If there are existing roadway access points and/or driveways, it may not be feasible to construct effective noise barriers. Engineering feasibility also takes into account topography, drainage, safety, barrier height, utilities, existing bridges and maintenance needs.

INDOT requires that noise barriers achieve a minimum 5 dB(A) reduction at a majority (greater than 50%) of the impacted noise receptors. If a barrier cannot achieve this acoustic goal, it is not considered to be acoustically feasible.

**What is a benefited receptor?**

Benefited receptors are those properties that receive a minimum 5 dB(A) reduction in future noise levels.

**What is a reasonable noise barrier?**

The cost of constructing a noise barrier is a significant factor in determining whether a barrier is reasonable. To determine cost-effectiveness, the estimated cost of construction (including installation and additional necessary construction, such as foundations or guardrails) is divided by the number of benefited receptors. The INDOT Traffic Noise Policy considers a material and design cost of \$25,000 or less per benefited receptor to be cost-effective. Development in which more than 50% of the receptors were in place prior to the initial construction of the roadway in its current state will receive additional consideration for noise abatement. The criteria for cost-effectiveness in these cases is 20% greater (\$30,000 per benefited receptor).

INDOT’s noise reduction design goal is 7dB(A) for a majority of the benefited first row receptors.

In addition to meeting INDOT’s cost-benefit analysis, the noise barrier must also be desired by landowners.



# I-65 ADDED TRAVEL LANES PROJECT, CLARK AND SCOTT COUNTIES

## PROJECT-SPECIFIC NOISE INFORMATION

### **What is the I-65 Added Travel Lanes project?**

INDOT is proposing the construction of additional travel lanes along I-65 from approximately 0.5 mile north of the Blue Lick Road interchange to approximately 2.2 miles south of the SR 56 interchange within the roadway median in Clark and Scott counties.

### **Where can I get a copy of the I-65 Added Travel Lanes Traffic Noise Technical Report?**

The traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm).

### **Where is INDOT suggesting a noise barrier be constructed?**

Recent analysis determined that a noise barrier may be feasible and reasonable on the east side of northbound I-65, approximately 0.5 mile south of SR 160.

The project team analyzed possible noise barriers at 21 other locations. Of those locations, 20 were determined to be feasible but not reasonable, and one was determined to be neither feasible nor reasonable.

### **What is a noise survey?**

A noise survey helps determine whether a noise barrier is reasonable, which requires INDOT to gather input from benefited receptors (residents and property owners), in close proximity to a proposed barrier. A noise survey is a postcard that is mailed to benefited residents and property owners to solicit their opinions about noise barriers. If the property owner is different from the current resident, both the owner and resident are surveyed.

If a barrier is proposed directly adjacent to the property line of a business, the business will also be mailed a survey to determine whether they have any concerns about line of sight.

### **How many residents are affected by traffic noise for this project?**

A total of 216 receptors were identified in the noise analysis area. Of those, 109 are approaching/exceeding the noise abatement criteria in design year 2043. No receptors were identified as having predicted levels substantially exceeding the existing ambient levels.

### **How do benefited receptors obtain a noise survey?**

Noise surveys are mailed directly to benefited receptors.

### **What if the benefited receptors don't complete the noise survey?**

If a majority (greater than 50%) of benefited receptors and property owners do not respond to the survey, a second survey may be mailed. FHWA and INDOT will discuss the results of the surveys received and determine the next course of action if a majority of benefited receptors do not respond.

### **What if residents don't want a noise barrier?**

INDOT surveys benefited property owners individually to determine whether or not they support a noise barrier. Once the public involvement efforts about the noise barriers are complete, FHWA and INDOT review the surveys to determine the public opinion.

### **When and how will INDOT determine where to install noise barriers?**

The final decision of any abatement measures will be made upon final design and the conclusion of the public involvement process. It is essential that benefited receptors participate in the noise survey so INDOT can consider their opinions.

### **How much do noise barriers cost?**

INDOT uses \$30/square foot to estimate noise barrier construction cost. The noise barrier design analyzed for the I-65 Added Travel Lanes project is estimated at \$614,786.



## I-65 ADDED TRAVEL LANES, CLARK AND SCOTT COUNTIES

The Indiana Department of Transportation (INDOT) is proposing the construction of additional travel lanes along I-65 from approximately 0.5 mile north of the Blue Lick Road interchange to approximately 2.2 miles south of the SR 56 interchange within the roadway median.

INDOT is soliciting input from residents and property owners who have been determined to benefit from the construction of noise barriers for this project.

INDOT needs your input on whether you want the proposed noise barrier constructed.

[www.in.gov/dot](http://www.in.gov/dot)



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INDOT-SEYMOUR DISTRICT  
185 AGRICO LANE  
SEYMOUR, INDIANA 47274

American Structurepoint  
Attn: Monica Del Real  
9025 River Road, Suite 200  
Indianapolis, IN 46240

## We need your feedback.

Please refer to the enclosed letter, location map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

### Questions? Contact:

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

## NOISE BARRIER SURVEY

Thank you for completing this survey card. Please complete only one card per household.

### Contact information:

<<First Name>> <<Last Name>>  
<<Address>>  
<<City>>,<<State>> <<Zip Code>>

### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

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**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-430.000-027  
Robert T Hunt & Calissa D & Morgan Kay  
800 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name Morgan K  
Address 800 Twin Oaks Drive  
City/State/ZIP Henryville, IN 47126

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

**We need your feedback.**

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**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District  
[www.in.gov/indot/](http://www.in.gov/indot/)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-446.000-027  
Danny P McDonough & Tasha L. Freeman  
801 Corner Mt Zion/Twin Oaks Dr  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

Yes, I want the noise barrier to be constructed

## We need your feedback.

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

### Questions? Contact:

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

## NOISE BARRIER SURVEY

Thank you for completing this survey card.  
Please complete only one card per household.

### Contact information:

10-06-25-400-486.000-027  
Victoria A Guernsey  
817 Twin Oaks Drive  
Henryville, IN 47126

### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above  
(please print):

Name Vicki Guernsey  
Address 817 Twin Oaks Dr  
City/State/ZIP Henryville IN 47126

### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.



### Provide your feedback.

Refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, please return it by mail or scan it via the contact information below. Please return the survey no later than June 20, 2021.

#### Questions? Contact:

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

## NOISE BARRIER SURVEY

Thank you for completing this survey card. Please complete only one card per household.

#### Contact information:

10-06-25-400-448.000-027  
Kenneth McCullough  
929 Twin Oaks Drive  
Henryville, IN 47126

#### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

#### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.

**We need your feedback.**

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**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-439.000-027  
Terry A Dupree  
930 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

### We need your feedback.

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

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#### Questions? Contact:

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

## NOISE BARRIER SURVEY

Thank you for completing this survey card. Please complete only one card per household.

#### Contact information:

10-06-25-400-441.000-027

Ronald L & Eva Hathaway  
936 Twin Oaks Drive 934  
Henryville, IN 47126

#### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above (please print):

Name RONALD L. EVA HATHAWAY  
Address 934 TWIN OAKS DR.  
City/State/ZIP HENRYVILLE, IN. 47126

#### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

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**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

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**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-442.000-027  
Cassandra R Warren  
936 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

!!!

**We need your feedback.**

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mdelreal@structurepoint.com

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**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-443.000-027  
Tiffany Green  
938 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-431.000-027  
Timothy & Shawna Lewis  
802 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

### We need your feedback.

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

#### Questions? Contact:

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

## NOISE BARRIER SURVEY

Thank you for completing this survey card. Please complete only one card per household.

#### Contact information:

10-06-25-400-444.000-027  
Caven D Stickels  
940 Twin Oaks Drive  
Henryville, IN 47126

#### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above (please print):

Name

Caven Stickels

Address

940 Twin Oaks Drive

City/State/ZIP

Henryville IN 47126

#### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey, please return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

**Questions? Contact:**  
Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-453.000-027  
Carla Ann Gutknecht  
941 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name CARLA GUTKNECHT  
Address 941 TWIN OAK DR  
City/State/ZIP Henryville, IN 47126

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-445.000-027  
Terry S Chism  
942 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed
- No, I do not want the noise barrier to be constructed.



## NOISE BARRIER SURVEY

Thank you for completing this survey card.  
Please complete only one card per household.

### Contact information:

10-06-25-400-440.000-027  
Steven W Cole and Rhonda J Elswick  
932 Twin Oaks Drive  
Henryville, IN 47126

### Are you the property owner or tenant?

- Owner  
 Tenant

Contact information, if different from above  
(please print):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/ZIP \_\_\_\_\_

### Are you in favor of a noise barrier at your property or residence?

- Yes, I want the noise barrier to be constructed  
 No, I do not want the noise barrier to be constructed.

**We need your feedback.**

Please refer to the enclosed letter, relocation map, and frequently asked questions document for more information about the I-65 Added Travel Lanes project and INDOT's Traffic Noise Policy.

After you have completed the survey card, either return it by mail or scan and email via the contact information below. Please return the survey no later than June 20, 2021.

**Questions? Contact:**

Monica Del Real  
317.547.5580  
mdelreal@structurepoint.com

The full traffic noise technical report is accessible on INDOT Seymour District's website at [www.in.gov/indot/2706.htm](http://www.in.gov/indot/2706.htm)

**NOISE BARRIER SURVEY**

Thank you for completing this survey card. Please complete only one card per household.

**Contact information:**

10-06-25-400-447.000-027  
Phillip Olivarez  
927 Twin Oaks Drive  
Henryville, IN 47126

**Are you the property owner or tenant?**

- Owner
- Tenant

Contact information, if different from above (please print):

Name PHIL OLIVAREZ  
Address 927 TWIN OAKS DR.  
City/State/ZIP HENRYVILLE, IN. 47126

**Are you in favor of a noise barrier at your property or residence?**

- Yes, I want the noise barrier to be constructed.
- No, I do not want the noise barrier to be constructed.

# Bridge Inspection Report

I65-016-04220 DNBL  
I-65 NB  
over  
BLUE LICK CREEK



Inspection Date: 08/03/2021

Inspected By: Stephen F. Hurst

Inspection Type(s): Routine

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Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

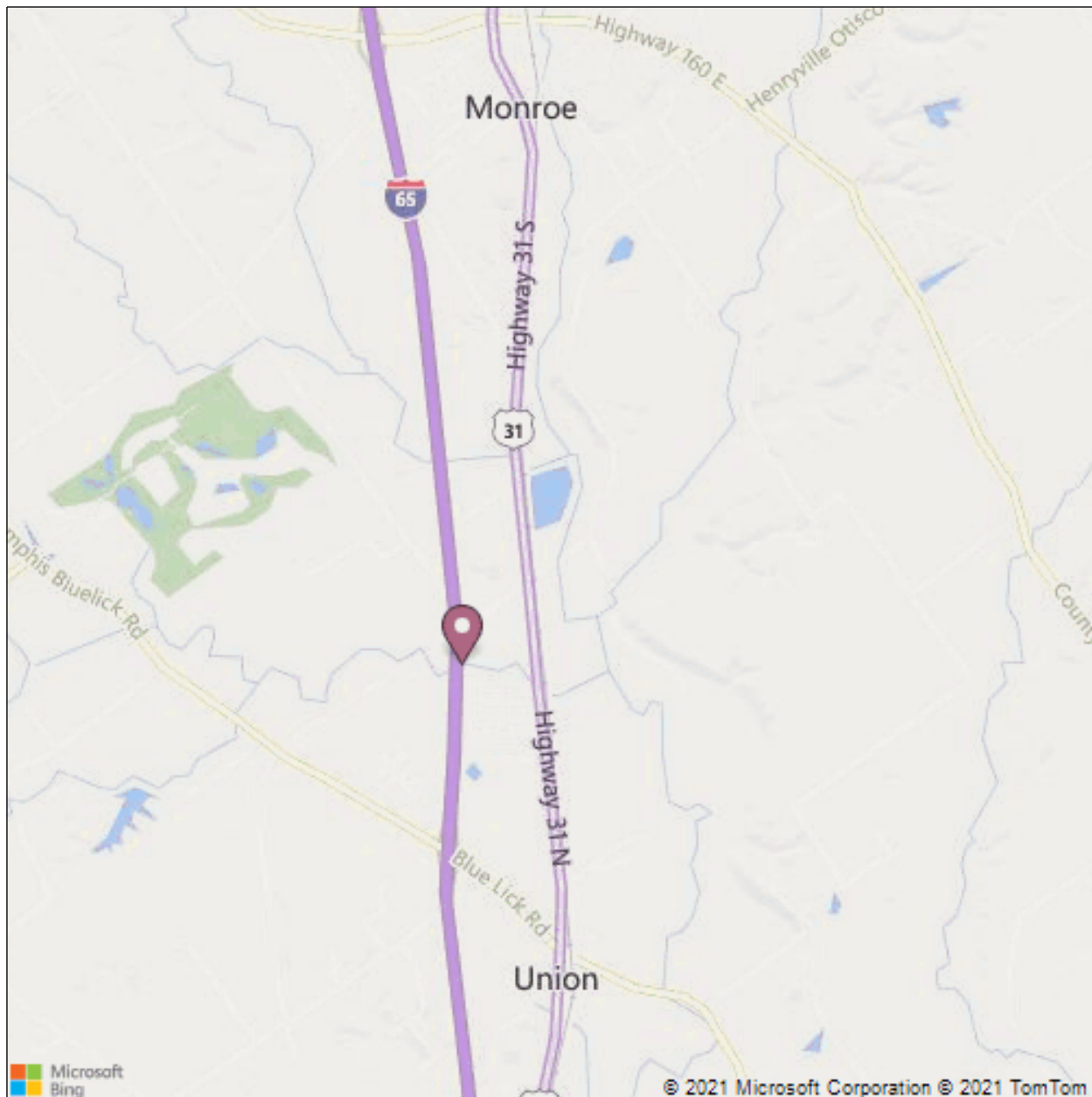
Asset Name: I65-016-04220  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



Latitude: 38.5018  
Longitude: -85.77067

Bridge Inspection Report



Latitude: 38.5018  
Longitude: -85.77067

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DNBI  
I-65 NB

### Bridge Inspection Report

General Inspection Notes: Overall the structure is in poor to satisfactory condition.

#### Bridge History:

1958 : New Bridge : DES # Unknown - Contract # 04444  
1978 : Rehab A : Railing Replace Or Repair : DES # Unknown - Contract # R-10734  
1981 : Rehab B : Bridge Deck Overlay 1 : DES # Unknown - Contract # B-12933  
1989 : Rehab C : Bridge Deck Barrier Wall : DES # 8763774 - Contract # R-17485  
2000 : Rehab D : Bridge Deck Overlay 2 : DES # 9614744 - Contract # R-24847  
2023 : Replace Superstructure : DES # 1600744 - Contract # R-41529  
There is no additional work scheduled in SPMS

#### Miscellaneous:

The structure has 3 spans, each with 6 concrete beams.

#### Maintenance/Deficiencies:

There are no open maintenance items.

**Critical Finding (8/3/2021):** A large spall was found in Joint 2 on 8/3/2021. A critical finding was submitted. Temporary repairs were made that same day and a permanent repair was made on 8/4/2021. See the attached Critical Finding report for more.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034850	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.5018
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.77067
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	BLUE LICK CREEK	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 NB	B) PERCENT	%
(9) LOCATION:	02.68 S SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0016.570		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	3 - Latex Concrete or similar additive
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

**AGE OF SERVICE**

(27) YEAR BUILT:	1958	(28) LANES:	
(106) YEAR RECONSTRUCTED:	1989	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	020765
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2004
		(109) AVERAGE DAILY TRUCK TRAFFIC:	32 %
		(19) BYPASS DETOUR LENGTH:	001 MI



Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0037.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00120.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.5 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.5 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 042.9 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 040.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: N
(34) SKEW: 27 DEG	B) MIN LATERAL UNDERCLEAR: 000.0 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 08/03/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 6 - Satisfactory Condition (minor deterioration)	(60) SUBSTRUCTURE: 5 - Fair Condition (minor section loss)
(58.01) WEARING SURFACE: 4 - Poor Condition	(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs
(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 6 - Satisfactory Condition (minor deterioration)  
 Comments:  
 There is minor cracking with efflorescence in the underside of the deck in the joint areas. Water is leaching at Bent 1 between Beam 5 and 6. There is a minor spall in Span A and in the coping of Span A.

(58.01) WEARING SURFACE: 4 - Poor Condition  
 Comments:  
 There are moderate sealed cracks throughout with heavy patching around the joints.

Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DNBI  
 I-65 NB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

There is light to moderate cracking, delamination and spalling in the ends of the girders totaling approximately 10 linear feet. There is some chalking of the beam ends. The diaphragms under the joints have light cracking, delamination and spalling with moderate amount of efflorescence present. The mudwalls have minor cracking with efflorescence.

(60) SUBSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

There is cracking and delamination in the pier caps. There is an 8' crack with spalling on the south side of Pier 2 in the pier cap between Beam 1 and 2. There is a similar crack on the north side of Pier 2 in the same location. There are spalls in Bent 4 between beams 2-5 with heavy efflorescence at Beam 4 and 5. Both bent caps have cracking and delamination with some spalls. There is minor cracking in the bridge seats.

(61) CHANNEL/CHANNEL PROTECTION 7 - Bank protection needs minor repairs

Comments:

The channel is lined with shale. There is minor erosion at the banks. There is no scour at the piers.

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	6 - HS 20+Mod	(66) INVENTORY RATING:	42
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	1 - Load Factor (LF)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	31
(64) OPERATING RATING:	70	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	1 - Load Factor (LF)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	84.8	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	5	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	1
(71) WATERWAY ADEQUACY:	8 - Bridge Above Approaches		
Comments:			
(72) APPROACH ROADWAY ALIGNMENT:	8 - Equal to present desirable criteria		
Comments:			

Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DNBL  
 I-65 NB

Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES: 3 - Foundations unstable for scour conditions

Comments:  
 Changed to 3 due to the Scour Letter dated 1/25/2019.

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale.  
 The 1958 flow line was @ 471.00'  
 The bottom of the critical footing (Piers #2 & #3 ??) is @ 465.40'  
 If further review indicates that the shale is not easily scoured away, this code could be changed to an '8'. [WTD, 04/16/2001]

Spread footings, NO piles, set on shale

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	R - Right structure (North or East)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	039132
		(115) YR OF FUTURE ADT:	2030

Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DNBI  
 I-65 NB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	5154	sq. ft.	5150	4	0	0
120.56' X 42.75' = 5153.94 SF							
510 - Wearing Surfaces		4763	sq. ft.	4741	22	0	0
120.56' X 39.50' = 4762.12 SF							
110 - Reinforced Concrete Open Girder/Beam	2 - Low	720	ft.	700	20	0	0
40.0' X 3 spans X 6 beams = 720.0'							
210 - Reinforced Concrete Pier Wall	2 - Low	57	ft.	45	12	0	0
28.25' X 2 piers = 56.50'							
215 - Reinforced Concrete Abutment	2 - Low	95	ft.	87	8	0	0
47.5' X 2 abutments = 95.0'							
234 - Reinforced Concrete Pier Cap	2 - Low	97	ft.	52	25	20	0
48.25' X 2 piers = 96.50'							
301 - Pourable Joint Seal	2 - Low	192	ft.	94	48	40	10
4 joints X 42.75'/cos 27° = 191.92'							
331 - Reinforced Concrete Bridge Railing	2 - Low	242	ft.	242	0	0	0
120.56' X 2 rails = 241.12'							

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 1 Elevation, Condition  
Description East side.



PHOTO 2 Elevation, Condition  
Description West side.

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 3 Condition  
Description Roadway north.



PHOTO 4 Condition  
Description South joint.

Bridge Inspection Report



PHOTO 5 Condition, Other, Maintenance - Bridge

Description Joint 2 facing west.



PHOTO 6 Condition

Description Joint 2 over Pier 2. CF close out.

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 7 Condition  
Description Joint 3 facing west.



PHOTO 8 Condition  
Description North joint.



Bridge Inspection Report



PHOTO 9 Condition  
Description West coping.



PHOTO 10 Condition  
Description Span A facing south.

Bridge Inspection Report



PHOTO 11 Condition  
Description Span B facing north.



PHOTO 12 Condition  
Description Span C facing north.

Bridge Inspection Report



PHOTO 13 Condition  
Description South abutment.



PHOTO 14 Condition  
Description Pier 2 south side.

Bridge Inspection Report



PHOTO 15 Condition  
Description Pier 2 south side, west nose.



PHOTO 16 Condition  
Description Pier 2 north side, west nose.

Bridge Inspection Report



PHOTO 17 Condition  
Description Pier 3 south side.



PHOTO 18 Condition  
Description Pier 3 north side.

Bridge Inspection Report



PHOTO 19 Condition  
Description North abutment.



PHOTO 20 Condition  
Description Channel facing east.

**Miscellaneous Asset Data**  
**Asset Management**

---

034850

**Load Rating 2:**

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection?

No - Load Rating Update Not Required

**Extended Frequency:**

Submittal Date:

Inspector:

INDOT Reviewer:

This bridge has been accepted into the Extended Frequency Program.

Approval Date:

**Joints:**      *\* Indicate location, type, and rating of lowest rated joint.*

Transverse  
South/West

O - XJS

3 - Very Poor Condition,  
leaking, punctures

Comments:

The joints are leaking and have numerous patches. A critical find was found and repaired in Joint 2. The joints continually fail and develop spalls that require patching.

---

**Terminal Joints:**      *\*Rating of lowest rated terminal joint.*      N

Comments:

---

**Concrete Slopewall:**      *\*Rating of lowest rated slopewall.*      N

Comments:

---

**Bearings:**      *\* Indicate type, and rating of lowest rated bearing.*

N - No Bearing(s)

Comments:

---

**Approach Slabs:**      *\* Indicate if present & condition rating.*

2 - Approach Slab but paved over

Comments:

Approach slabs are paved over.

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

N - No Paint

N

Comments:

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:



**NBI Data come from National Inventory**

NBI 113: Scour Critical Bridges 3

NBI 113a Scour Critical Bridges Comments

Changed to 3 due to the Scour Letter dated 1/25/2019.

**To Be Completed by Hydraulics**

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale. The 1958 flow line was @ 471.00' The bottom of the critical footing (Piers #2 & #3 ??) is @ 465.40' If further review indicates that the shale is not easily scoured away, this code could be changed to an '8'. [WTD, 04/16/2001]

Spread footings, NO piles, set on shale

Scour Analysis Status	1-Scour Analysis on file	Scour Analysis Date	01/25/2019	Scour Analysis Determination	2 – Scour Analysis complete, bridge IS hydraulically scour critical by analysis
-----------------------	--------------------------	---------------------	------------	------------------------------	---

Hydraulics Comments

**To Be Completed by Bridge Inspection**

Scour Critical Safety Status	3-Bridge IS scour critical based on analysis findings and Scour POA is ON FILE	Date of Counter Measure Placed or Field Verified
------------------------------	--	--

Bridge Inspection Comments "The bridge footings are founded in shale per the plans and inspection report, but it is unknown if the shale is competent or scour resistant."

Scour Delineators installed

# LOAD RATING - BRADIN

Load Rating Date: 24-OCT-06

## National Bridge Inventory (NBI):

(65) INVENTORY RATING METHOD:	1	(31) DESIGN LOAD:	6
(66) INVENTORY RATING:	42	(70) BRIDGE POSTING:	5
(63) OPERATING RATING METHOD:	1	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(64) OPERATING RATING:	70	(66C) TONS POSTED:	
		(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.223
EV3: LEGAL RF:	1.528

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.796
SU5: LEGAL RF:	2.116
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	2.594
ALTERNATE MILITARY: LEGAL RF:	2.099

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	3.064
LANE TYPE: LEGAL RF:	

### 3-Axles:

HS20: LEGAL RF:	1.959
AASHTO TYPE 3: LEGAL RF:	2.554

SU6: LEGAL RF:	2.15
SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	2.017

### 4-Axles:

SU4: LEGAL RF:	2.257
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

## Other Configurations:

H20-44: DESIGN RF:	1.563
NRL: LEGAL RF:	1.916

SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	1.409
SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	1.666
SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.144
SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	1.619
SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.244

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

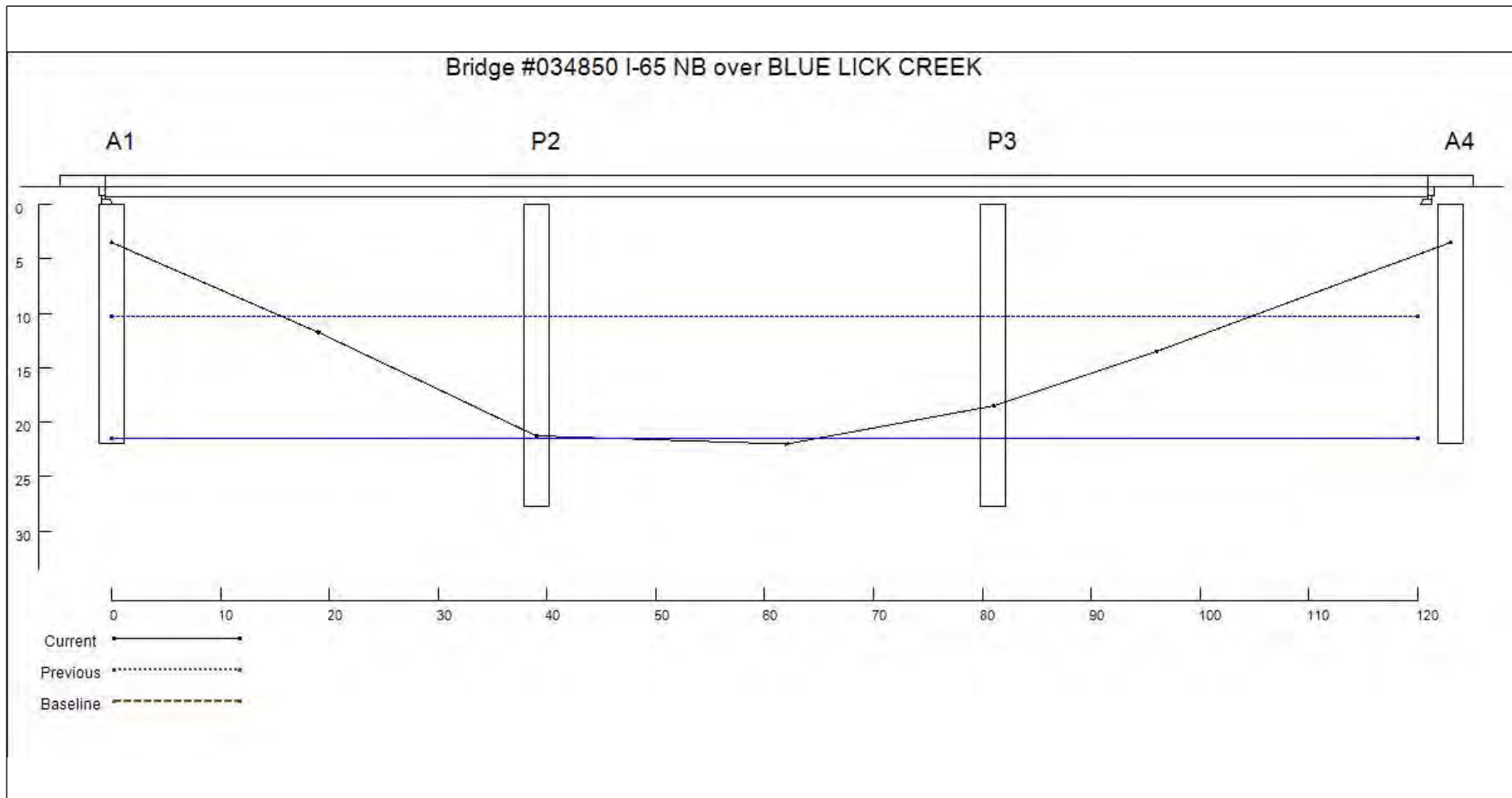
Structure Number: 034850  
Facility Carried: I-65 NB

Bridge Inspection Report

Channel Measurement

Date of Channel Measurements: 08/03/2021  
Distance Measured From: 0  
Depth Measured From: 0  
Number of Measurement Points Taken: 7

Number of Fixed Objects in Channel: 4  
Water Level: 21.5  
High Water Mark: 10.27  
Measurement Type: Depth from Reference Point



**INDOT BRIDGE INSPECTION DIVISION**

**SCOUR PLAN OF ACTION**

**GENERAL INFORMATION**

District: 05

NBI Number: 034850

Facility Carried : I-65 NB

Feature Intersected: BLUE LICK CREEK

Location: 02.68 S SR 160

**SCOUR STATUS SUMMARY**

Scour Critical Rating: 3                      Substructure Rating: 5                      Channel and Channel                      7

Culvert Rating: N                      Waterway Adequacy                      8  
Appraisal:

Protection Rating:

Scour/Flood History:

**INITIAL SCOUR INSPECTION**

Bridge Scour Critical Components:

Piers and abutments.

Trigger:

2.5" of rainfall in a 24 hour period.

Initial Scour Inspection following Trigger(Date/Findings):

**MONITORING PLAN**

Monitoring Required after Initial Scour Inspection (Y/N):

Reason for Bridge Monitoring:

***If monitoring is required after initial inspection, the Bridge Scour Monitoring Log shall be used.***

Person or Agency that will monitor the bridge:

INDOT Bridge Inspection Personnel

Monitoring Methodology:

Inspect bridge for any scour around the abutments. Look for any sinking of the structure.

**Monitoring History/Comments:**

**Monitoring Termination Criteria:** Once the water level recedes to normal flow levels and no issues were noted the monitoring can be terminated.

**Bridge Owner Contact Information (Primary):**

Chris Everman (812) 524-3717

**COUNTERMEASURE INFORMATION AND RECOMMENDATIONS**

**Existence/Type of Countermeasures Present:**

Rip rap at the piers and abutments.  
The foundations are in shale.

**Countermeasures Observations:**

The original rip rap appears to remain in place.

**Countermeasures Recommendations:**

Class 1 riprap shall be used for the abutments, and class 2 riprap for the piers.

**EMERGENCY TRAFFIC INFORMATION AND RECOMMENDATIONS**

**Closure Plan:** Personnel from the Sellersburg Unit will close the bridge when the rainfall amount exceeds 2.5" in a 24 hour period, or if notified by the bridge inspection team.

**Suggested Detour Route:**

I-65 NB to Memphis/Blue Lick Road to US 31 to SR 160 to I-65 NB

**Re-opening Procedures:**

The bridge will be reopened once the water level recedes enough to allow inspection of the substructure units by bridge inspection personnel. If no issues are found with the substructure and channel, the bridge will be reopened.

***Provide recommendations as needed, such as reduced routine inspection frequency, need for future underwater inspections, countermeasure recommendations, and other comments.***

None

**Scour POA Author (Name/Title)**      **Chris Everman, Seymour Bridge Inspection Engineer**      **Date** 08/12/2021

**Scour POA Approved (Name/Title)**      **Anthony Marino / Bridge Inspection Area Engineer**      **Date** 08/12/2021

**Scour POA Updated (Name/Title)**      **Date** 08/12/2021

**CRITICAL FINDING**

034850

Data Entry By: **Stephen Hurst** Entry Date: 08/03/2021 Team Leader Reporting: Hurst, Stephen F.  
 Team Leader Number: IN000422-2018-ATL-F Structure #: I65-016-04220 DNBL NBI 034850  
 Facility Carried: I-65 NB Feature Intersected: BLUE LICK CREEK  
 Location: 02.68 S SR 160 County: 010  
 Critical Finding Type: Severe-Action completed / 30 days Date of Finding: 08/03/2021  
 Notification of SPM Date: 08/03/2021 Notification of Owner Date: 08/03/2021

Description of Issue:  
 There is a 4' (transverse) x 2' (longitudinal) x 6" deep pothole in the center of the passing lane that could be hazardous to smaller vehicles and motorcycles. It is in Joint 2 over Pier 2 of the structure. I have notified maintenance about the issue and they are working on a fix. I observed vehicles travelling at the posted speed limit safely traversing it, including one motorcycle, but prolonged impacts with the pothole pose a safety hazard for the motoring public.

This is a Severe Critical Finding with an action time of 30 days.

Team Leader Recommended Actions:

Patch the hole as soon as a safe repair can be made.

Recommended Date of Action: 09/02/2021

I have attached ( ) photos to this document. 1

Safety Action Taken  
 (By Whom/When) Maintenance patched the hole with bituminous material on 8/3/2021. Bridge maintenance applied a concrete patch on 8/4/2021. A picture of the work was attached on 8/4/2021.

Recommend closing out this Critical Finding. Bill Dittrich 08-04-2021

Critical Finding Addressed 08/04/2021

Safety Action Closeout  
 Email correspondence from Seymour District Maintenance on 8/3/2021 stated that the defect would be addressed the following morning. Steve Hurst emailed photograph on 8/4/2021 confirming that the spalled area had been properly patched. Critical Finding closed out. [Anthony Marino, PE. - Acting Bridge Inspection Manager - 8/5/2021].

Must submit to State Program Manager through WorkFlow.

Date Closed by State Program Manager in BIAS: 08/05/2021 Estimated Final Resolution Date 08/04/2021

Final Resolution Taken

Maintenance patched the hole with bituminous material on 8/3/2021. Bridge maintenance applied a concrete patch on 8/4/2021. A picture of the work was attached on 8/4/2021.

Final Resolution Date 08/04/2021



File Description Joint 2 facing west.  
File Type Category Condition, Maintenance - Bridge, Other



File Description Joint 2 over Pier 2. CF close out.  
File Type Category Condition



# Bridge Inspection Report

I65-016-04220 DSBL  
I-65 SB  
over  
BLUE LICK CREEK



Inspection Date: 08/03/2021

Inspected By: Stephen F. Hurst

Inspection Type(s): Routine

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Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report

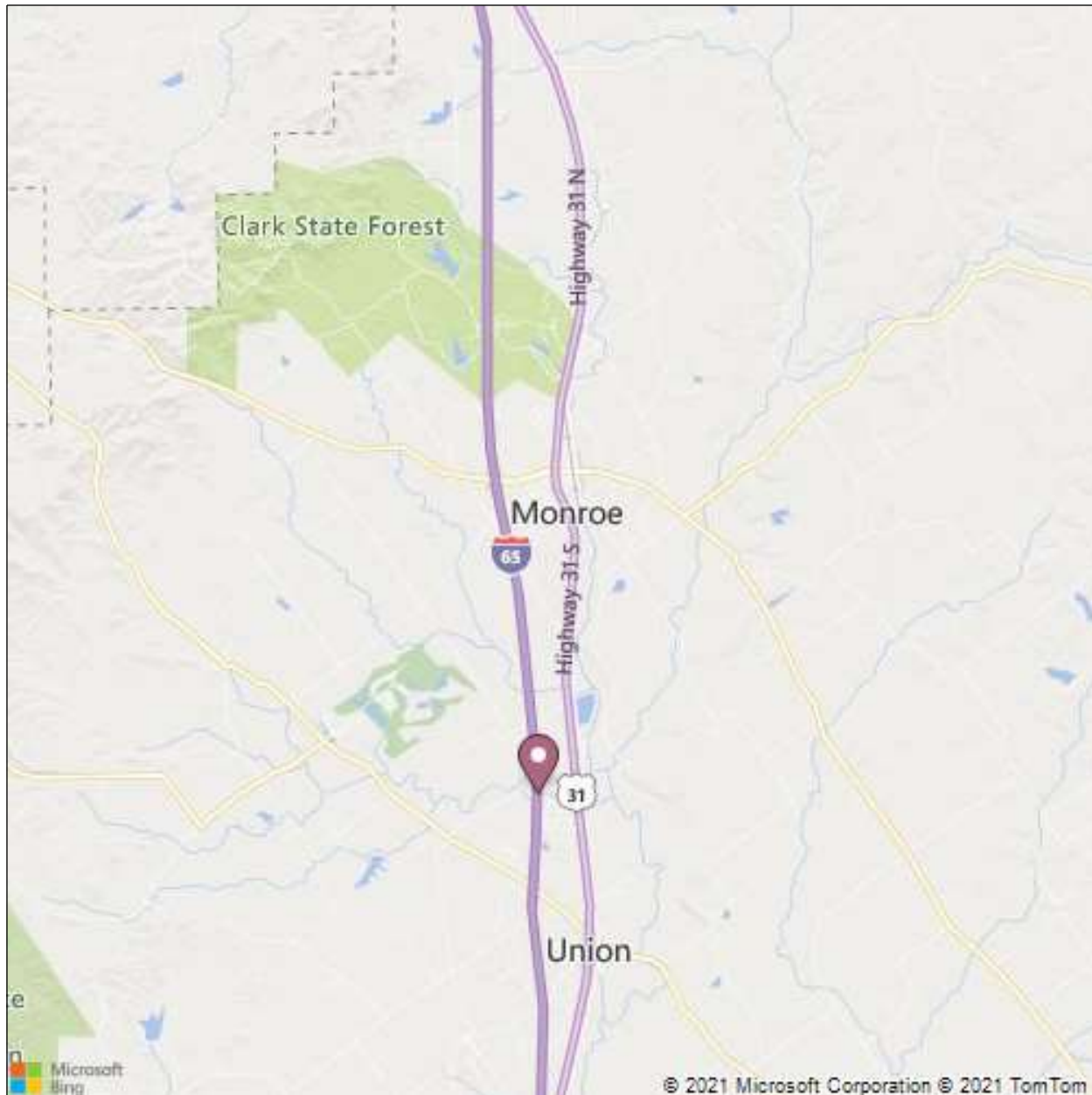


Latitude: 38.50167  
Longitude: -85.77097

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



Latitude: 38.50167  
Longitude: -85.77097

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report

General Inspection Notes: Overall the structure is in fair to satisfactory condition with the wearing surface in poor condition.

#### Bridge History:

1958 : New Bridge : DES # Unknown - Contract # 04444  
1978 : Rehab A : Railing Replace Or Repair : DES # Unknown - Contract # R-10734  
1981 : Rehab B : Bridge Deck Overlay 1 : DES # Unknown - Contract # B-12933  
1989 : Rehab C : Bridge Deck Barrier Wall : DES # 8763774 - Contract # R-17485  
2000 : Rehab D : Bridge Deck Overlay 2 : DES # 9614744 - Contract # R-24847  
2023 : Replace Superstructure : DES # 1600750 - Contract # R-41529  
There is no additional work scheduled in SPMS

#### Maintenance/Deficiencies:

A yellow deficiency was submitted for deck patching.

#### Beam end cracking and spalling:

##### Span A:

South abutment: Cracking in Beam 3 and 4. 2' spall in Beam 5.

Pier 2: Cracking in Beam 5. 2' spalls in Beam 1 and 6.

##### Span B:

Pier 2: Cracking in Beam 4.

Pier 3: Cracking in Beam 3. 1' spall in Beam 5.

##### Span C:

Pier 3: Cracking in Beam 1 and 4. 3' spall in Beam 2.

North abutment: 2' spalls in Beam 4 and 5.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034860	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.50167
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.77097
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	BLUE LICK CREEK	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 SB	B) PERCENT	%
(9) LOCATION:	02.68 S SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0016.570		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	3 - Latex Concrete or similar additive
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

**AGE OF SERVICE**

(27) YEAR BUILT:	1958	(28) LANES:	
(106) YEAR RECONSTRUCTED:	1989	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	020765
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2004
		(109) AVERAGE DAILY TRUCK TRAFFIC:	32 %
		(19) BYPASS DETOUR LENGTH:	001 MI

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0037.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00120.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.5 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.5 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 042.9 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 040.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: N
(34) SKEW: 27 DEG	B) MIN LATERAL UNDERCLEAR: 000.0 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 08/03/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 6 - Satisfactory Condition (minor deterioration)	(60) SUBSTRUCTURE: 5 - Fair Condition (minor section loss)
(58.01) WEARING SURFACE: 4 - Poor Condition	(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs
(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 6 - Satisfactory Condition (minor deterioration)  
 Comments:  
 There is minor cracking with efflorescence on deck underside around the joints.

(58.01) WEARING SURFACE: 4 - Poor Condition  
 Comments:  
 There are numerous concrete and bituminous patches around the joints. There is a 1'x1' spall in joint 3 in the passing lane.

Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

The girder ends have numerous areas of moderate cracking, delamination and spalling for a total of approximately 21 linear feet. See the Executive Summary for detailed list. The girder diaphragms at the joint areas have light cracking, delamination and spalling with a moderate amount of efflorescence present. There are minor cracks with efflorescence in both mud walls.

(60) SUBSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

Both pier caps have cracking and delamination with spalling. There are two large spalls in the pier cap on the north side of Pier 2. There is minor cracking in the bridge seats. There is minor erosion at the abutments. Both bent caps have cracking with minor delamination.

(61) CHANNEL/CHANNEL PROTECTION 7 - Bank protection needs minor repairs

Comments:

The channel is lined with shale. There is minor erosion at the banks. There is no scour at the piers.

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	5 - HS 20	(66) INVENTORY RATING:	49
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	3 - Load and Resistance Factor (LRFR)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	37
(64) OPERATING RATING:	59	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	3 - Load and Resistance Factor (LRFR)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	84.8	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	5	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	1
(71) WATERWAY ADEQUACY:	6 - Occasional Overtopping of Approaches - Insignificant Delays		
Comments:			
(72) APPROACH ROADWAY ALIGNMENT:	8 - Equal to present desirable criteria		
Comments:			



Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES: 3 - Foundations unstable for scour conditions

Comments:  
 Changed to 3 due to the Scour Letter dated 1/25/2019.

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale.  
 The 1958 Flow Line was @ 471.00'.  
 The bottom of the critical footing (Piers #2 & #3 ??) is @ 465.21'.  
 If further review indicates that the shale is not easily scoured away, this code could be changed to an '8'. [WTD, 04/16/2001]

Spread footings, NO piles, set on shale

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	L - Left structure (South or West)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	039132
		(115) YR OF FUTURE ADT:	2030

Inspector: Stephen F. Hurst  
 Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	5154	sq. ft.	5134	20	0	0
120.56' X 42.75' = 5153.94 SF							
510 - Wearing Surfaces		4763	sq. ft.	4678	84	1	0
120.56' X 39.50' = 4762.12 SF							
110 - Reinforced Concrete Open Girder/Beam	2 - Low	720	ft.	699	18	3	0
40.0' X 3 spans X 6 beams = 720.0'							
210 - Reinforced Concrete Pier Wall	2 - Low	57	ft.	49	8	0	0
28.25' X 2 piers = 56.50'							
215 - Reinforced Concrete Abutment	2 - Low	95	ft.	90	5	0	0
47.5' X 2 abutments = 95.0'							
234 - Reinforced Concrete Pier Cap	2 - Low	97	ft.	76	15	6	0
48.25' X 2 piers = 96.50'							
301 - Pourable Joint Seal	2 - Low	192	ft.	150	40	2	0
4 joints X 42.75'/cos 27° = 191.92'							
331 - Reinforced Concrete Bridge Railing	2 - Low	242	ft.	242	0	0	0
120.56' X 2 rails = 241.12'							

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report



PHOTO 1 Elevation, Condition  
Description West side.



PHOTO 2 Elevation, Condition  
Description East side.

Bridge Inspection Report



PHOTO 3 Condition  
Description Roadway north.



PHOTO 4 Condition  
Description Roadway south.

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report



PHOTO 5 Condition  
Description South joint.



PHOTO 6 Condition  
Description Joint 2 facing east.

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 7 Condition  
Description Joint 3 facing east.



PHOTO 8 Condition, Other, Maintenance - Bridge  
Description Joint 3 facing east.

Bridge Inspection Report



PHOTO 9    Condition  
Description    North joint.



PHOTO 10    Condition  
Description    Span A facing south.

Bridge Inspection Report



PHOTO 11 Condition  
Description Beam 5 in Span A at south abutment.



PHOTO 12 Condition  
Description Span B facing north.



Bridge Inspection Report



PHOTO 13 Condition  
Description Span C facing north.



PHOTO 14 Condition, Other  
Description Beam 2 in Span C at Pier 3.

Bridge Inspection Report



PHOTO 15 Condition  
Description South abutment.



PHOTO 16 Condition  
Description Pier 2 north side.

Bridge Inspection Report



PHOTO 17 Condition  
Description Pier 3 south side.



PHOTO 18 Condition  
Description Pier 3 north side.

Bridge Inspection Report



PHOTO 19 Condition  
Description North abutment.



PHOTO 20 Condition  
Description Channel facing west.

**Miscellaneous Asset Data**  
**Asset Management**

---

034860

**Load Rating 2:**

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection?

No - Load Rating Update Not Required

**Extended Frequency:**

Submittal Date:

Inspector:

INDOT Reviewer:

This bridge has been accepted into the Extended Frequency Program.

Approval Date:

**Joints:**      *\* Indicate location, type, and rating of lowest rated joint.*

Mid-Section

O - XJS

3 - Very Poor Condition, leaking, punctures

Comments:

The joints are leaking and have numerous patches. Joint 3 has a 1'x1' spall. The joints continually fail and develop spalls that require patching.

---

**Terminal Joints:**      *\*Rating of lowest rated terminal joint.*      N

Comments:

---

**Concrete Slopewall:**      *\*Rating of lowest rated slopewall.*      N

Comments:

---

**Bearings:**      *\* Indicate type, and rating of lowest rated bearing.*

N - No Bearing(s)

Comments:

---

**Approach Slabs:**      *\* Indicate if present & condition rating.*

2 - Approach Slab but paved over

Comments:

Both approach slabs have been paved over.

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

N - No Paint

N

Comments:

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:

**NBI Data come from National Inventory**

NBI 113: Scour Critical Bridges 3

NBI 113a Scour Critical Bridges Comments

Changed to 3 due to the Scour Letter dated 1/25/2019.

**To Be Completed by Hydraulics**

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale. The 1958 Flow Line was @ 471.00'. The bottom of the critical footing (Piers #2 & #3 ??) is @ 465.21'. If further review indicates that the shale is not easily scoured away, this code could be changed to an '8'. [WTD, 04/16/2001]

Spread footings, NO piles, set on shale

Scour Analysis Status	1-Scour Analysis on file	Scour Analysis Date	01/25/2019	Scour Analysis Determination	2 – Scour Analysis complete, bridge IS hydraulically scour critical by analysis
-----------------------	--------------------------	---------------------	------------	------------------------------	---

Hydraulics Comments

**To Be Completed by Bridge Inspection**

Scour Critical Safety Status	3-Bridge IS scour critical based on analysis findings and Scour POA is ON FILE	Date of Counter Measure Placed or Field Verified
------------------------------	--	--

Bridge Inspection Comments "The bridge footings are founded in shale per the plans and inspection report, but it is unknown if the shale is competent or scour resistant."

Scour Delineators installed

# LOAD RATING - BRADIN

Load Rating Date: 26-APR-19

## National Bridge Inventory (NBI):

(65) INVENTORY RATING METHOD:	3	(31) DESIGN LOAD:	5
(66) INVENTORY RATING:	49	(70) BRIDGE POSTING:	5
(63) OPERATING RATING METHOD:	3	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(64) OPERATING RATING:	59	(66C) TONS POSTED:	
		(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.46
EV3: LEGAL RF:	1.671

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.403
SU5: LEGAL RF:	1.815
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	2.268
ALTERNATE MILITARY: LEGAL RF:	1.805

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	2.565
LANE TYPE: LEGAL RF:	99

### 3-Axles:

HS20: LEGAL RF:	1.642
AASHTO TYPE 3: LEGAL RF:	2.213

SU6: LEGAL RF:	1.642
SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	1.541

### 4-Axles:

SU4: LEGAL RF:	1.927
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

## Other Configurations:

H20-44: DESIGN RF:	1.879	SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	1.889
NRL: LEGAL RF:	1.464	SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	2.142
		SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.603
		SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	2.154
		SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.693



Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

Asset Name: I65-016-04220  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report

Date Reported: 08/09/2021  
Priority: Yellow - 2  
Work Code: Deck Patch

Deficiency Description:  
There is a 1'x1' spall at Joint 3.  
Work Description:

Date Repairs Completed:  
Maintenance Comments:

Stage: Open



PHOTO 1 Description Joint 3 facing east.

Stage: Open



PHOTO 2 Description Joint 3 facing east.

Inspector: Stephen F. Hurst  
Inspection Date: 08/03/2021

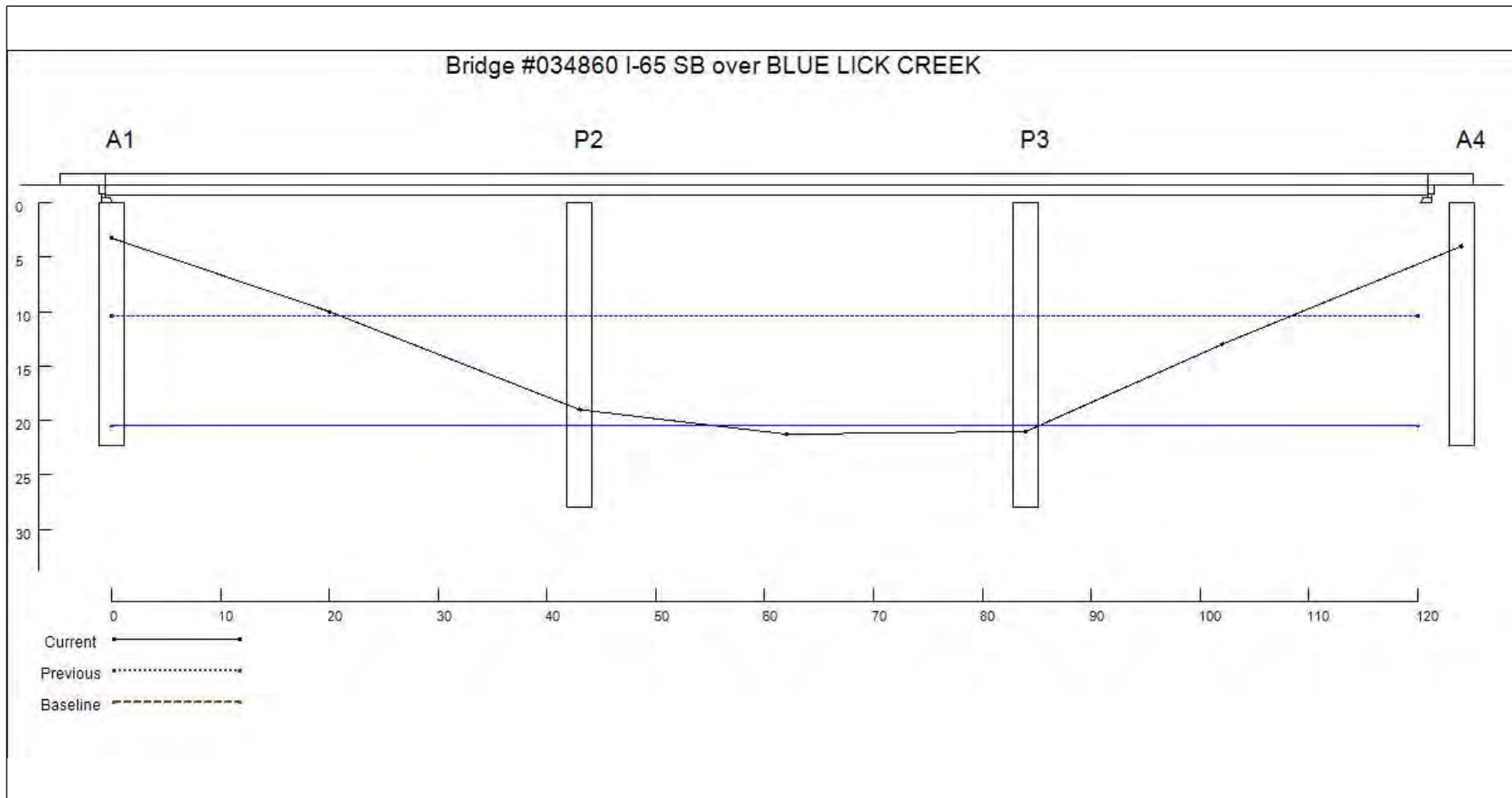
Structure Number: 034860  
Facility Carried: I-65 SB

Bridge Inspection Report

Channel Measurement

Date of Channel Measurements: 08/03/2021  
Distance Measured From: 0  
Depth Measured From: 0  
Number of Measurement Points Taken: 7

Number of Fixed Objects in Channel: 4  
Water Level: 20.5  
High Water Mark: 10.41  
Measurement Type: Depth from Reference Point



# INDOT BRIDGE INSPECTION DIVISION

## SCOUR PLAN OF ACTION

### GENERAL INFORMATION

District: 05

NBI Number: 034860

Facility Carried : I-65 SB

Feature Intersected: BLUE LICK CREEK

Location: 02.68 S SR 160

### SCOUR STATUS SUMMARY

Scour Critical Rating:	3	Substructure Rating:	5	Channel and Channel	7
Culvert Rating:	N	Waterway Adequacy	6	Protection Rating:	
		Appraisal:			

Scour/Flood History:

### INITIAL SCOUR INSPECTION

Bridge Scour Critical Components:

Piers and abutments.

Trigger:

2.5" of rainfall in a 24 hour period.

Initial Scour Inspection following Trigger(Date/Findings):

### MONITORING PLAN

Monitoring Required after Initial Scour Inspection (Y/N):

Reason for Bridge Monitoring:

***If monitoring is required after initial inspection, the Bridge Scour Monitoring Log shall be used.***

Person or Agency that will monitor the bridge:

INDOT Bridge Inspection Personnel.

Monitoring Methodology:

Inspect bridge for any scour around the abutments. Look for any sinking of the structure.

**Monitoring History/Comments:**

**Monitoring Termination Criteria:** Once the water level recedes to normal flow levels and no issues were noted the monitoring can be terminated.

**Bridge Owner Contact Information (Primary):**

Chris Everman (812) 524-3717

**COUNTERMEASURE INFORMATION AND RECOMMENDATIONS**

**Existence/Type of Countermeasures Present:**

Rip rap at the piers and abutments.  
The foundations are in shale.

**Countermeasures Observations:**

The original rip rap appears to remain in place.

**Countermeasures Recommendations:**

Class 1 riprap shall be used for the abutments, and class 2 riprap for the piers.

**EMERGENCY TRAFFIC INFORMATION AND RECOMMENDATIONS**

**Closure Plan:** Personnel from the Sellersburg Unit will close the bridge when the rainfall amount exceeds 2.5" in a 24 hour period, or if notified by the bridge inspection team.

**Suggested Detour Route:**

I-65 SB to SR 160 to US 31 to Memphis/Blue Lick Road to I-65 SB.

**Re-opening Procedures:**

The bridge will be reopened once the water level recedes enough to allow inspection of the substructure units by bridge inspection personnel. If no issues are found with the substructure and channel, the bridge will be reopened.

***Provide recommendations as needed, such as reduced routine inspection frequency, need for future underwater inspections, countermeasure recommendations, and other comments.***

None

**Scour POA Author (Name/Title)**    **Chris Everman, Seymour Bridge Inspection Engineer**    **Date** 08/12/2021

**Scour POA Approved (Name/Title)**    **Anthony Marino / Bridge Inspection Area Engineer**    **Date** 08/12/2021

**Scour POA Updated (Name/Title)**    **Date** 08/12/2021

# Bridge Inspection Report

I65-017-04222 DNBL

I-65 NB

over

CANEY FORK



**Inspection Date:** 08/03/2021

**Inspected By:** Chris Everman

**Inspection Type(s):** Routine

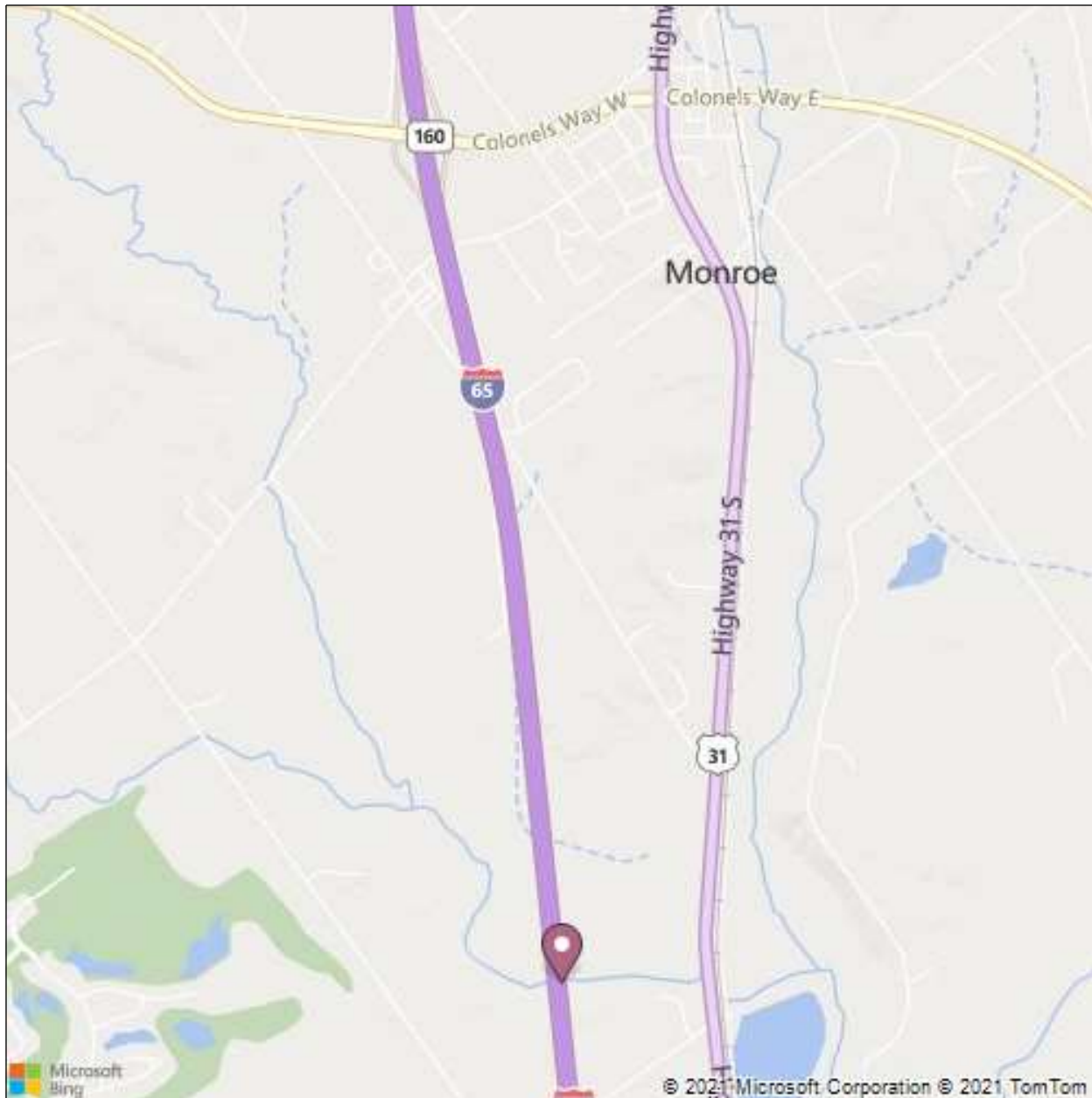
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Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

### Bridge Inspection Report



Latitude: 38.5144  
Longitude: -85.77215



Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



Latitude: 38.5144  
Longitude: -85.77215

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

### Bridge Inspection Report

#### **History:**

The bridge was built in 1958 under Contract B-4445.

The bridge rail was replaced in 1977 under Contract R-10734.

The bridge received a deck overlay in 1981 under Contract B-12933.

The bridge had the joints replaced, the approach slabs were widened, and new railings were installed in 1989 under Contract R-17485, Des # 8763775.

The joints were replaced in 2000 under Contract R-24847, Des # 9614745.

New bearings were installed under some of the beams in 2020 under IDIQ Contract B-41681, Des # 2001546.

The structure is to have a superstructure replacement under Contract R-41529, Des # 1600729, due to let on 7/12/2023.

#### **Condition:**

The wearing surface is in poor condition with cracking and spalling throughout the wearing surface. There are also numerous patches on the wearing surface. Some of the spalls in the wearing surface are deep enough to affect the deck. there is also minor cracking on the underside of the deck. There are a few spalls and cracking at the ends of the girders. New bearings were installed under some of the girders at the interior piers. There are some cracks and spalls on the piers and abutments.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034880	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.5144
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.77215
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	CANEY FORK	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 NB	B) PERCENT	%
(9) LOCATION:	01.81 S SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0017.440		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	3 - Latex Concrete or similar additive
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

**AGE OF SERVICE**

(27) YEAR BUILT:	1958	(28) LANES:	
(106) YEAR RECONSTRUCTED:	1989	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	020765
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2004
		(109) AVERAGE DAILY TRUCK TRAFFIC:	32 %
		(19) BYPASS DETOUR LENGTH:	001 MI

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DNBI  
 I-65 NB

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0045.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00136.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.6 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.6 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 043.0 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 039.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: N
(34) SKEW: 00 DEG	B) MIN LATERAL UNDERCLEAR: 000.0 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 08/03/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 5 - Fair Condition (minor section loss)	(60) SUBSTRUCTURE: 6 - Satisfactory Condition (minor deterioration)
(58.01) WEARING SURFACE: 4 - Poor Condition	(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs
(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 5 - Fair Condition (minor section loss)  
 Comments:  
 Longitudinal cracking in the deck underside. Also one spall with exposed rebar in span A on the east side.  
 There are several spalls in the wearing surface that are deep enough to begin to effect the top of the deck.

(58.01) WEARING SURFACE: 4 - Poor Condition  
 Comments:  
 There are several spalls, about 20 SF to 25 SF, on the wearing surface in all three spans. There are multiple patches around the joints at the approach slabs. There are also numerous patches throughout the wearing surface.

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DNBI  
 I-65 NB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

There are minor spalls at the ends of the beams. The diaphragms over piers 2 & 3 have cracking and spalls with exposed rebar. Both mudwalls have cracks with efflorescence.

The powder residue mentioned in the previous report indicating grinding in the bearing area is no longer there. New bearings were installed on some of the girders at piers #2 and 3. It seems that the deflection in span B as traffic traveled over the bridge was unusual for a reinforced concrete girder bridge, however I was not able to observe the deflection under the bridge.

(60) SUBSTRUCTURE: 6 - Satisfactory Condition (minor deterioration)

Comments:

There is staining, and spalling along the pier caps as well as several spalls with exposed rebar along the pier stems. Minor cracks in both bent caps with one spall in cap #4.

(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs

Comments:

The channel is in good condition.

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	6 - HS 20+Mod	(66) INVENTORY RATING:	41
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	1 - Load Factor (LF)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	32
(64) OPERATING RATING:	68	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	1 - Load Factor (LF)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	83.7	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	5	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	1

(71) WATERWAY ADEQUACY: 7 - Slight Chance of Overtopping Bridge

Comments:

(72) APPROACH ROADWAY ALIGNMENT: 8 - Equal to present desirable criteria

Comments:

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DNBL  
 I-65 NB

Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES: 5 - Scour within limits of footing or piles

Comments:

Minor scour @ P.#2 Left coded as an 8 = 'LOW Risk' for Vulnerability for Scour.

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale.

The 2000 Repair Plans show the Flow line @ 480.90'. [WTD, 04/17/2001]

Spread footings, NO piles, set in shale

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	R - Right structure (North or East)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	039641
		(115) YR OF FUTURE ADT:	2033

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DNBI  
 I-65 NB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	5793	sq. ft.	5771	18	4	0
135.50' X 42.75' = 5792.63 SF							
510 - Wearing Surfaces		5353	sq. ft.	5303	30	20	0
135.50' X 39.50' = 5352.25 SF							
110 - Reinforced Concrete Open Girder/Beam	2 - Low	819	ft.	789	30	0	0
(45.73' + 44.96' + 45.73') X 6 girders = 818.52'							
210 - Reinforced Concrete Pier Wall	2 - Low	84	ft.	66	18	0	0
41.75' X 2 piers = 83.50'							
215 - Reinforced Concrete Abutment	2 - Low	85	ft.	81	4	0	0
42.25' X 2 abutments = 84.50'							
234 - Reinforced Concrete Pier Cap	2 - Low	85	ft.	55	30	0	0
42.25' X 2 piers = 84.50'							
301 - Pourable Joint Seal	2 - Low	171	ft.	0	118	38	15
42.75' X 4 joints = 171.00'							
310 - Elastomeric Bearing	2 - Low	9	each	9	0	0	0
9 each							
331 - Reinforced Concrete Bridge Railing	2 - Low	271	ft.	271	0	0	0
135.50' X 2 rails = 271.0'							

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBL  
I-65 NB

Bridge Inspection Report



PHOTO 1 Condition  
Description South Approach facing West



PHOTO 2 Condition, Maintenance - Bridge  
Description South Joint facing West  
2' X 2' and 3' X 1' Spall



Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBL  
I-65 NB

Bridge Inspection Report



PHOTO 3 Condition  
Description Deck facing North



PHOTO 4 Condition  
Description Patches over Span A

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 5 Condition  
Description Joint over Pier #2 facing West



PHOTO 6 Condition, Maintenance - Bridge  
Description 4 Spalls (two 2' X 2' and two 1' X 1') over Span B

Bridge Inspection Report



PHOTO 7 Condition  
Description Excess Concrete on the East Shoulder near Joint #2



PHOTO 8 Condition  
Description Joint over Pier #3 facing West

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 9 Condition  
Description North Joint facing West



PHOTO 10 Condition  
Description North Approach facing West

Bridge Inspection Report



PHOTO 11 Elevation, Condition  
Description Side facing Northwest



PHOTO 12 Condition  
Description Underside Span A and Abutment #1 facing South

Bridge Inspection Report



PHOTO 13 Condition  
Description Pier #2 facing North



PHOTO 14 Condition  
Description Pier #2 facing South

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 15 Condition  
Description Underside Span B facing South



PHOTO 16 Condition  
Description Pier #3 facing North

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 17 Condition  
Description Pier #3 facing Southwest



PHOTO 18 Condition  
Description Temporary Bearings on Pier #3



Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report



PHOTO 19 Condition  
Description Underside Span C facing North



PHOTO 20 Condition  
Description Abutment #4 facing North

Bridge Inspection Report



PHOTO 21 Condition  
Description Channel facing West



PHOTO 22 Condition  
Description Channel facing East

**Miscellaneous Asset Data**  
**Asset Management**

034880

---

**Load Rating 2:**

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection?

No - Load Rating Update Not Required

---

**Extended Frequency:**

Submittal Date:

Inspector:

INDOT Reviewer:

This bridge has been accepted into the Extended Frequency Program.

Approval Date:

**Joints:**      *\* Indicate location, type, and rating of lowest rated joint.*

Transverse  
South/West

O - XJS

4

Comments:

Moderate patching around the joints. All 4 joints are leaking.

---

**Terminal Joints:**      *\*Rating of lowest rated terminal joint.*

N

Comments:

---

**Concrete Slopewall:**      *\*Rating of lowest rated slopewall.*

N

Comments:

---

**Bearings:**      *\* Indicate type, and rating of lowest rated bearing.*

2 - Elastmeric

8

Comments:

Bearings were installed on girder #4 on the south side of pier #2, on girders #2, 3, and 4 on the north side of pier #2 and girders #1, 2, 4, 5, and 6 on the north side of pier #3. These were installed in 2020 under an IDIQ Contract, Des # 2001546.

---

**Approach Slabs:**      *\* Indicate if present & condition rating.*

2 - Approach Slab but paved over

Comments:

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

N - No Paint

N

Comments:

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:

**NBI Data come from National Inventory**

NBI 113: Scour Critical Bridges 5

NBI 113a Scour Critical Bridges Comments

Minor scour @ P#2 Left coded as an 8 = 'LOW Risk' for Vulnerability for Scour.

**To Be Completed by Hydraulics**

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale. The 2000 Repair Plans show the Flow line @ 480.90'. [WTD, 04/17/2001]

Spread footings, NO piles, set in shale

Scour Analysis Status	1-Scour Analysis on file	Scour Analysis Date	11/02/2020	Scour Analysis Determination
-----------------------	--------------------------	---------------------	------------	------------------------------

Hydraulics Comments

**To Be Completed by Bridge Inspection**

Scour Critical Safety Status	1-Bridge is NOT scour Critical based on analysis findings	Date of Counter Measure Placed or Field Verified
------------------------------	---	--

Bridge Inspection Comments: Based on the depth the footings are placed into rock, we would suggest the bridge is not scour critical,

Scour Delineators installed

# LOAD RATING - BRADIN

Load Rating Date: 24-OCT-06

## National Bridge Inventory (NBI):

(65) INVENTORY RATING METHOD:	1	(31) DESIGN LOAD:	6
(66) INVENTORY RATING:	41	(70) BRIDGE POSTING:	5
(63) OPERATING RATING METHOD:	1	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(64) OPERATING RATING:	68	(66C) TONS POSTED:	
		(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.273
EV3: LEGAL RF:	1.549

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.807
SU5: LEGAL RF:	2.112
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	2.712
ALTERNATE MILITARY: LEGAL RF:	2.254

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	2.992
LANE TYPE: LEGAL RF:	

### 3-Axles:

HS20: LEGAL RF:	1.914
AASHTO TYPE 3: LEGAL RF:	2.57

SU6: LEGAL RF:	2.069
SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	2.055

### 4-Axles:

SU4: LEGAL RF:	2.302
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

## Other Configurations:

H20-44: DESIGN RF:	1.63
NRL: LEGAL RF:	1.973

SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	1.281
SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	1.457
SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.092
SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	1.466
SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.153

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

Bridge Inspection Report

Date Reported: 08/09/2021  
Priority: Yellow - 2  
Work Code: Deck Patch

Deficiency Description:

There are several spalls, about 20 SF to 25 SF, on the wearing surface in all three spans.  
I65 NB over Caney Fork at RP 17+48 1.81 miles South of SR 160

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description South Joint facing West  
2' X 2' and 3' X 1' Spall

Stage: Open



PHOTO 2 Description Patches over Span A

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DNBI  
I-65 NB

### Bridge Inspection Report

Stage: Open



PHOTO 3 Description 4 Spalls (two 2' X 2' and two 1' X 1')  
over Span B



Inspector: Chris Everman  
Inspection Date: 08/03/2021

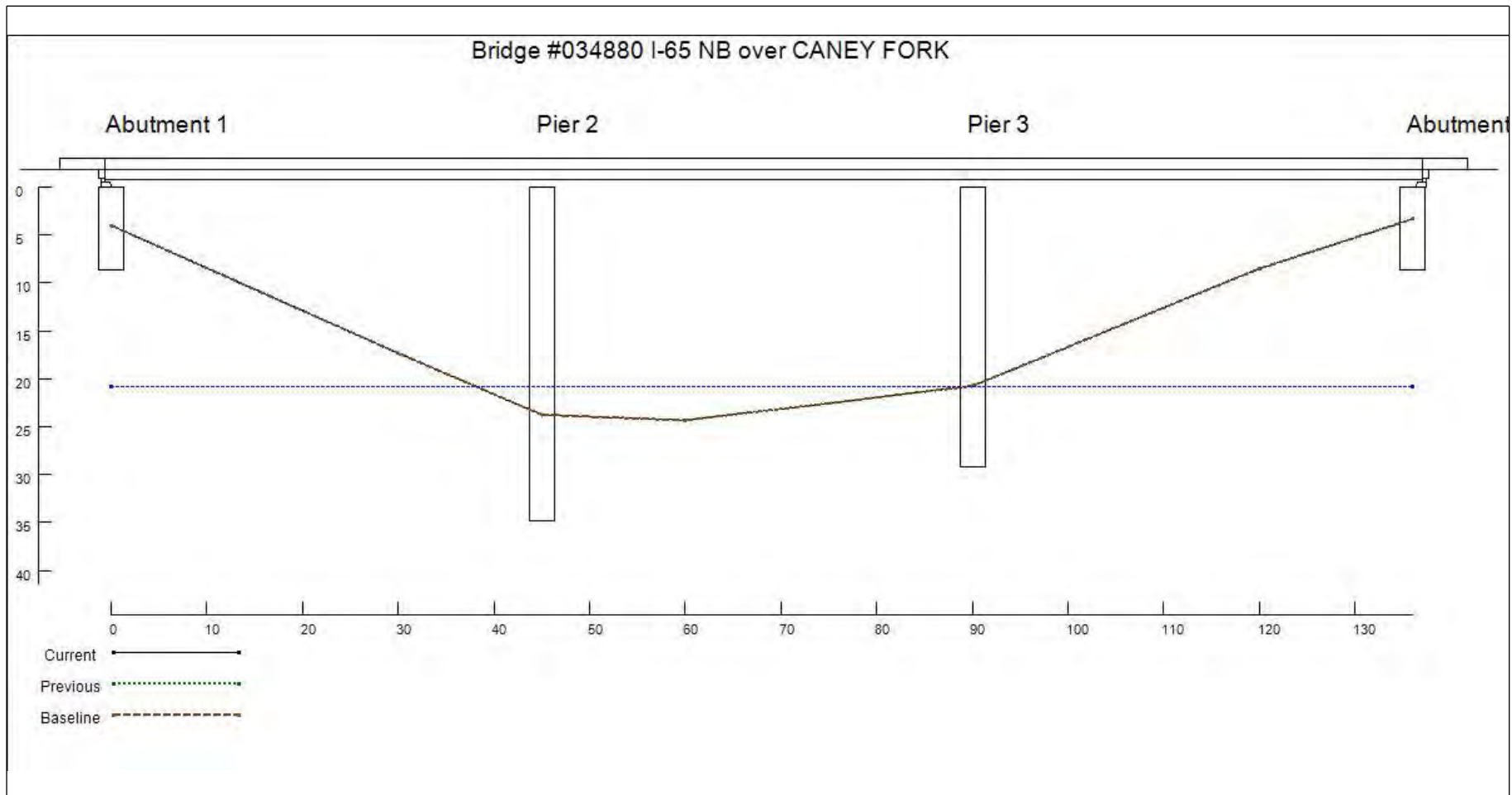
Structure Number: 034880  
Facility Carried: I-65 NB

Bridge Inspection Report

Channel Measurement

Date of Channel Measurements: 06/02/2017  
Distance Measured From: 0  
Depth Measured From: 0  
Number of Measurement Points Taken: 7

Number of Fixed Objects in Channel: 4  
Water Level:  
High Water Mark: 20.83  
Measurement Type: Depth from Reference Point



# Bridge Inspection Report

I65-017-04222 DSBL

I-65 SB

over

CANEY FORK



Inspection Date: 08/03/2021

Inspected By: Chris Everman

Inspection Type(s): Routine

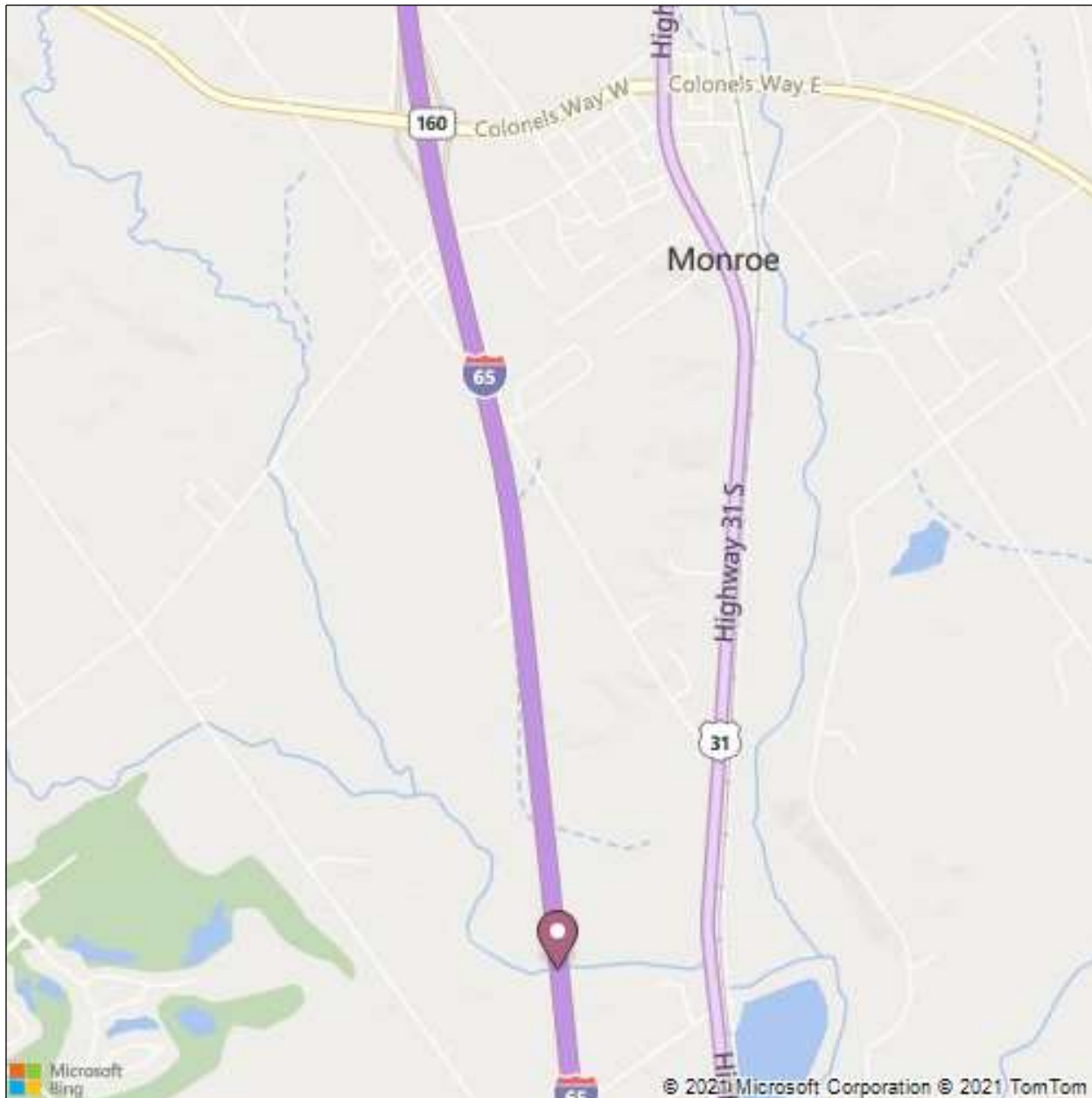
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SCOUR CHANNEL PROFILE	29

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report



Latitude: 38.51436  
Longitude: -85.77245

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



Latitude: 38.51436  
Longitude: -85.77245

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report

#### History:

The bridge was built in 1958 under Contract B-4445.

The bridge rail was replaced in 1977 under Contract R-10734.

The bridge received a deck overlay in 1981 under Contract B-12933.

The bridge had the joints replaced, the approach slabs were widened, and new railings were installed in 1989 under Contract R-17485, Des # 8763775.

The joints were replaced in 2000 under Contract R-24847, Des # 9614745.

New bearings were installed under some of the beams in 2020 under IDIQ Contract B-41681, Des # 2001547.

The structure is to have a superstructure replacement under Contract R-41529, Des # 1600733, due to let on 7/12/2023.

#### Condition:

The wearing surface has numerous patches and about 20 SF of spalls including a 3' X 3' spall in the passing lane over span B. There is cracking on the underside of the deck including an area of map cracking between girders #3 and 4 in span B at pier #3. There is cracking and spalling at the ends of the concrete girders. New bearings were installed under some of the girders at the interior piers. There are some cracks and spalls on the piers and abutments.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034890	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.51436
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.77245
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	CANEY FORK	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 SB	B) PERCENT	%
(9) LOCATION:	01.81 S SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0017.440		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	1 - Concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	3 - Latex Concrete or similar additive
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

**AGE OF SERVICE**

(27) YEAR BUILT:	1958	(28) LANES:	
(106) YEAR RECONSTRUCTED:	1989	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	020765
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2004
		(109) AVERAGE DAILY TRUCK TRAFFIC:	32 %
		(19) BYPASS DETOUR LENGTH:	001 MI

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0045.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00136.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.6 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.6 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 043.0 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 039.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: N
(34) SKEW: 00 DEG	B) MIN LATERAL UNDERCLEAR: 000.0 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 08/03/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 5 - Fair Condition (minor section loss)	(60) SUBSTRUCTURE: 6 - Satisfactory Condition (minor deterioration)
(58.01) WEARING SURFACE: 5 - Fair Condition	(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs
(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 5 - Fair Condition (minor section loss)  
 Comments:  
 Longitudinal cracking in the deck underside. Map cracking between girders #3 and 4 in span b at pier 3. The joint seals are pulling out.

(58.01) WEARING SURFACE: 5 - Fair Condition  
 Comments:  
 There is about 20 SF of spalls including a deep 3' X 3' spall in the passing lane over span B. There are numerous patches throughout the wearing surface with most of the patches over span A and B.



Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

The north end of girder 1 is spalling at pier 2 in the bearing area, and it also has a 4 ft spall and a 4 ft crack on the west side. Girders 5 & 6 in span C have small spalls on the east side. Hairline cracking in the beam ends throughout. Several diaphragms over the piers have cracks with delamination.

The powder residue mentioned in the previous report indicating grinding in the bearing area is no longer there. New bearings were installed on some of the girders at piers #2 and 3.

(60) SUBSTRUCTURE: 6 - Satisfactory Condition (minor deterioration)

Comments:

Moderate delamination and spalling with exposed rebar in the pier caps and pier walls. Minor cracks in both bent caps with efflorescence. A few spalls with exposed rebar in both pier stems.

(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs

Comments:

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	6 - HS 20+Mod	(66) INVENTORY RATING:	41
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD: 1 - Load Factor (LF)	
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	32
(64) OPERATING RATING:	68	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	1 - Load Factor (LF)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	83.7	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	5	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	1
(71) WATERWAY ADEQUACY:	9 - Bridge Above Flood Water Elevations		
Comments:			
(72) APPROACH ROADWAY ALIGNMENT:	8 - Equal to present desirable criteria		
Comments:			

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

(113) SCOUR CRITICAL BRIDGES: 5 - Scour within limits of footing or piles

Comments:

Minor scour @ P.#2 Left coded as an 8 = 'LOW Risk' for Vulnerability for Scour.

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale.

The 2000 Repair Plans show the Flow line @ 480.90'.

Minor localized scour has been noted around Pier #2.[WTD, 04/17/2001]

Spread footings, NO piles, set in shale

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	L - Left structure (South or West)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	039641
		(115) YR OF FUTURE ADT:	2033

Inspector: Chris Everman  
 Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
 Facility Carried: DSBI  
 I-65 SB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	5793	sq. ft.	5748	45	0	0
135.50' X 42.75' = 5792.63 SF							
510 - Wearing Surfaces		5353	sq. ft.	5072	272	9	0
135.50' X 39.50' = 5352.25 SF							
110 - Reinforced Concrete Open Girder/Beam	2 - Low	819	ft.	789	27	3	0
(45.73' + 44.96' + 45.73') X 6 girders = 818.52'							
210 - Reinforced Concrete Pier Wall	2 - Low	84	ft.	72	12	0	0
41.75' X 2 piers = 83.50'							
215 - Reinforced Concrete Abutment	2 - Low	85	ft.	80	5	0	0
42.25' X 2 abutments = 84.50'							
234 - Reinforced Concrete Pier Cap	2 - Low	85	ft.	63	22	0	0
42.25' X 2 piers = 84.50'							
301 - Pourable Joint Seal	2 - Low	171	ft.	1	146	12	12
42.75' X 4 joints = 171.00'							
310 - Elastomeric Bearing	2 - Low	14	each	14	0	0	0
14 bearings							
331 - Reinforced Concrete Bridge Railing	2 - Low	271	ft.	271	0	0	0
135.50' X 2 rails = 271.0'							

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 1 Condition  
Description South Joint facing East



PHOTO 2 Condition  
Description Patches on South end of the Deck

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 3 Condition  
Description Joint over Pier #2 facing East



PHOTO 4 Condition, Maintenance - Bridge  
Description 3' X 3' Spall in the Passing Lane over Span B

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 5 Condition  
Description Patches over Span B



PHOTO 6 Condition  
Description Excess Concrete in the West Shoulder

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 7 Condition  
Description Joint over Pier #3 facing East



PHOTO 8 Condition  
Description Deck facing South

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

### Bridge Inspection Report



PHOTO 9 Condition  
Description North Joint facing East



PHOTO 10 Elevation, Condition  
Description Side facing Northeast



Bridge Inspection Report



PHOTO 11 Condition  
Description Underside Span A and Abutment #1 facing South



PHOTO 12 Condition  
Description Concrete Pad at South Side Pier #2 facing East

Bridge Inspection Report



PHOTO 13 Condition  
Description Pier #2 facing Northeast



PHOTO 14 Condition  
Description Temporary Bearings on South Side Pier #2

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 15 Condition  
Description Pier #2 facing South



PHOTO 16 Condition  
Description Temporary Bearings on Pier #2 facing South

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 17 Condition  
Description Underside Span B facing North



PHOTO 18 Condition  
Description Pier #3 facing North

Bridge Inspection Report



PHOTO 19 Condition  
Description Pier #3 facing Southwest



PHOTO 20 Condition  
Description Temporary Bearing on Pier #3

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 21 Condition  
Description Underside Span C facing North



PHOTO 22 Condition  
Description Abutment #4 facing North

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 23 Condition  
Description Channel facing East



PHOTO 24 Elevation, Condition  
Description Channel facing West

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report



PHOTO 25 Condition  
Description South end beam 6 at pier 2 span b.



**Miscellaneous Asset Data**  
**Asset Management**

034890

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**Load Rating 2:**

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection?

No - Load Rating Update Not Required

---

**Extended Frequency:**

Submittal Date:

Inspector:

INDOT Reviewer:

This bridge has been accepted into the Extended Frequency Program.

Approval Date:

---

**Joints:**      *\* Indicate location, type, and rating of lowest rated joint.*

Mid-Section

O - XJS

4 - Poor Condition, leaking, noising damage, areas of adhesion loss

Comments:

Heavy patching around the joints. All 4 joints are leaking.

---

**Terminal Joints:**      *\*Rating of lowest rated terminal joint.*      N

Comments:

---

**Concrete Slopewall:**      *\*Rating of lowest rated slopewall.*      N

Comments:

---

**Bearings:**      *\* Indicate type, and rating of lowest rated bearing.*

2 - Elastmeric

8

Comments:

Bearings were installed on girders #1 through 6 on the south side of pier #2, on girders #1 and 3 on the north side of pier #2, girders #1 through 5 on the south side of pier #3, and girder #4 on the north side of pier #3. These were installed in 2020 under an IDIQ Contract, Des # 2001547.

---

**Approach Slabs:**      *\* Indicate if present & condition rating.*

2 - Approach Slab but paved over

4 - Poor condition, less than 2" of settlement, large crack < .4' spacing, spalls, voids

Comments:

Both approach slabs have a bituminous overlay.

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

N - No Paint

N

Comments:

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:

**NBI Data come from National Inventory**

NBI 113: Scour Critical Bridges 5

NBI 113a Scour Critical Bridges Comments

Minor scour @ P#2 Left coded as an 8 = 'LOW Risk' for Vulnerability for Scour.

**To Be Completed by Hydraulics**

The 2000 Repair Plans did not call for any scour countermeasures.

The footings are all set in shale. The 2000 Repair Plans show the Flow line @ 480.90'. Minor localized scour has been noted around Pier #2.[WTD, 04/17/2001]

Spread footings, NO piles, set in shale

Scour Analysis Status	1-Scour Analysis on file	Scour Analysis Date	11/02/2020	Scour Analysis Determination
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Hydraulics Comments

**To Be Completed by Bridge Inspection**

Scour Critical Safety Status	1-Bridge is NOT scour Critical based on analysis findings	Date of Counter Measure Placed or Field Verified
------------------------------	---	--

Bridge Inspector Comments: Based on the depth the footings are placed into rock, we would suggest the bridge is not scour critical,

Scour Delineators installed

# LOAD RATING - BRADIN

Load Rating Date: 24-OCT-06

## National Bridge Inventory (NBI):

(65) INVENTORY RATING METHOD:	1	(31) DESIGN LOAD:	6
(66) INVENTORY RATING:	41	(70) BRIDGE POSTING:	5
(63) OPERATING RATING METHOD:	1	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(64) OPERATING RATING:	68	(66C) TONS POSTED:	
		(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.273
EV3: LEGAL RF:	1.549

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.807
SU5: LEGAL RF:	2.112
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	2.712
ALTERNATE MILITARY: LEGAL RF:	2.254

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	2.992
LANE TYPE: LEGAL RF:	

### 3-Axles:

HS20: LEGAL RF:	1.914
AASHTO TYPE 3: LEGAL RF:	2.57

SU6: LEGAL RF:	2.069
SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	2.055

### 4-Axles:

SU4: LEGAL RF:	2.302
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

## Other Configurations:

H20-44: DESIGN RF:	1.63
NRL: LEGAL RF:	1.973

SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	1.281
SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	1.457
SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.092
SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	1.466
SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.153

Inspector: Chris Everman  
Inspection Date: 08/03/2021

Asset Name: I65-017-04222  
Facility Carried: DSBI  
I-65 SB

Bridge Inspection Report

Date Reported: 08/09/2021  
Priority: Yellow - 2  
Work Code: Deck Patch

Deficiency Description:

There are several spalls, about 20 SF wearing surface over spans A and B.  
I65 SB over Caney Fork at RP 17+48 1.81 miles South of SR 160

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Patches on South end of the Deck

Stage: Open



PHOTO 2 Description 3' X 3' Spall in the Passing Lane over Span B

Inspector: Chris Everman  
Inspection Date: 08/03/2021

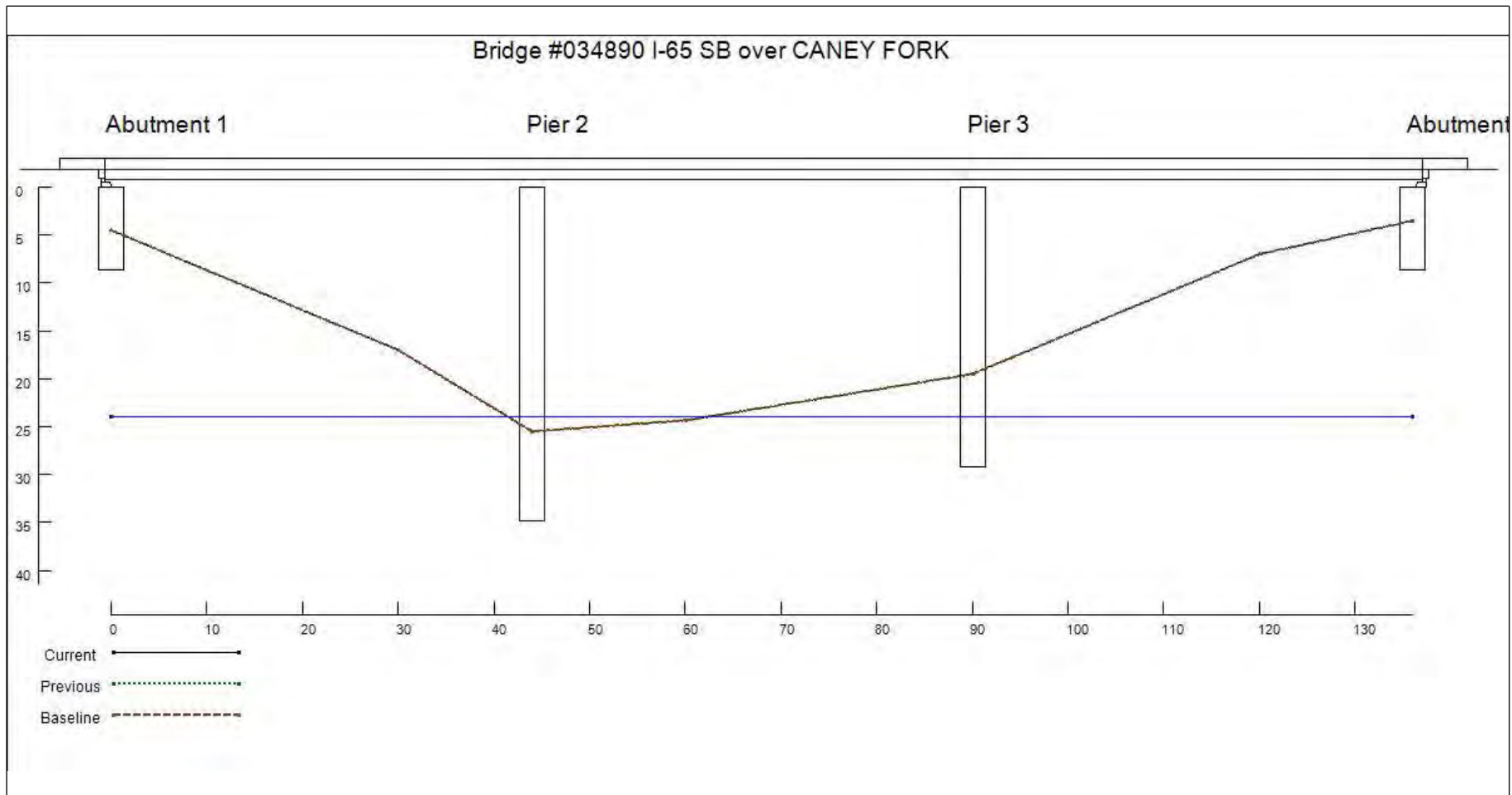
Structure Number: 034890  
Facility Carried: I-65 SB

Bridge Inspection Report

Channel Measurement

Date of Channel Measurements: 06/02/2017  
Distance Measured From: 0  
Depth Measured From: 0  
Number of Measurement Points Taken: 7

Number of Fixed Objects in Channel: 4  
Water Level: 24  
High Water Mark: 20.83  
Measurement Type: Depth from Reference Point



# Bridge Inspection Report

I65-021-09940 NB  
I-65 NB  
over  
BROWNSTOWN ROAD



Inspection Date: 04/14/2021

Inspected By: Stephen F. Hurst

Inspection Type(s): Routine

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LOAD RATING - BRADIN	17



Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report



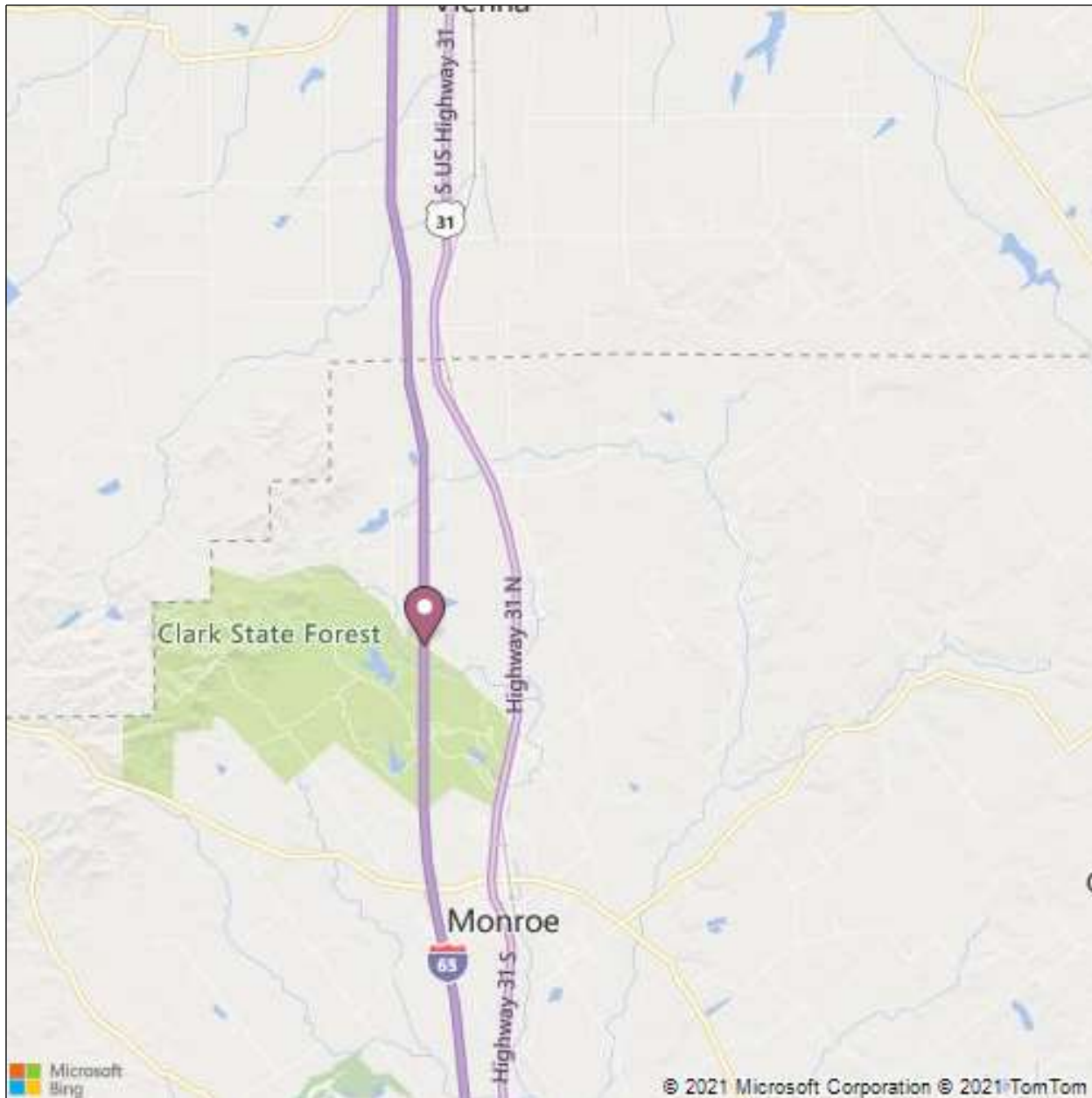
Latitude: 38.56999

Longitude: -85.7789

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report



Latitude: 38.56999

Longitude: -85.7789

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

### Bridge Inspection Report

General Inspection Notes: Overall the structure is in very good condition.

#### Bridge History:

2016 : New Bridge : DES # 1173617 - Contract # RS-37549

2020 : Bridge Widening : DES # 2001601 - Contract # R-41529 - Letting Date 7/12/2023

#### Miscellaneous:

This structure was built in 2016 under Contract RS-37549, Des #1173617, replacing structure I65-21-04225 DNBL, a 3 span reinforced concrete girder bridge built in 1958 and reconstructed in 2002.

#### Maintenance/Deficiencies:

There are no open maintenance items.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034911	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.56999
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.7789
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	BROWNSTOWN ROAD	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 NB	B) PERCENT	%
(9) LOCATION:	02.03 N SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0021.280		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 001 UNIT:	
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(46) NUMBER OF APPROACH SPANS:	0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	1 - Monolithic Concrete (concurrently placed with structural deck)
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	1 - Epoxy Coated Reinforcing

**AGE OF SERVICE**

(27) YEAR BUILT:	2016	(28) LANES:	
(106) YEAR RECONSTRUCTED:	0000	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	02
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	018681
B) UNDER BRIDGE:	1 - Highway, with or w/out pedestrian	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2014
		(109) AVERAGE DAILY TRUCK TRAFFIC:	39 %
		(19) BYPASS DETOUR LENGTH:	001 MI

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0075.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00076.8 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.3 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.3 FT	A) REFERENCE FEATURE: H
(52) DECK WIDTH, OUT-TO-OUT: 042.3 FT	B) MIN VERT UNDERCLEAR: 14.89 FT
(32) APPROACH ROADWAY 040.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: H
(34) SKEW: 31 DEG	B) MIN LATERAL UNDERCLEAR: 016.3 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 04/14/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 8 - Very Good Condition (no problems noted)	(60) SUBSTRUCTURE: 8 - Very Good Condition (no problems noted)
(58.01) WEARING SURFACE: 8 - Very Good Condition	(61) CHANNEL/CHANNEL PROTECTION: N - Not Applicable
(59) SUPERSTRUCTURE: 8 - Very Good Condition (no problems noted)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 8 - Very Good Condition (no problems noted)  
 Comments:  
 There is some minor transverse cracking on the underside of the deck.

Barrier wall: The east barrier wall has 15' of horizontal cracking due to improper slip forming techniques. There are minor scrapes due to collision damage along the west barrier rail.

(58.01) WEARING SURFACE: 8 - Very Good Condition  
 Comments:  
 The wearing surface is monolithic with the deck.

Inspector: Stephen F. Hurst  
 Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
 Facility Carried: I-65 NB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 8 - Very Good Condition (no problems noted)

Comments:  
 This structure was built in 2016 under Contract RS-37549, Des #1173617.  
 The superstructure is in good condition.

(60) SUBSTRUCTURE: 8 - Very Good Condition (no problems noted)

Comments:  
 This structure was built in 2016 under Contract RS-37549, Des #1173617.  
 The abutments are in good condition.

(61) CHANNEL/CHANNEL PROTECTION N - Not Applicable

Comments:

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	A - HL 93	(66) INVENTORY RATING:	67
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	3 - Load and Resistance Factor (LRFR)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	57
(64) OPERATING RATING:	70	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	3 - Load and Resistance Factor (LRFR)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	96.3	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	8	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	6	36D) APPROACH GUARDRAIL ENDS:	1

(71) WATERWAY ADEQUACY: N - Not Applicable  
 Comments:

(72) APPROACH ROADWAY ALIGNMENT: 8 - Equal to present desirable criteria  
 Comments:

(113) SCOUR CRITICAL BRIDGES: N - Not over waterway  
 Comments:

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	R - Right structure (North or East)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	N - Not applicable, no water way	(39) NAVIGATION VERTICAL CLEAR:	00.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	023878
		(115) YR OF FUTURE ADT:	2034

Inspector: Stephen F. Hurst  
 Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
 Facility Carried: I-65 NB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	3249	sq. ft.	3219	30	0	0
76.75' X 42.33' = 3248.83 SF							
107 - Steel Open Girder/Beam	2 - Low	432	ft.	432	0	0	0
Beams (75' -1.5' X2) X 6 beams = 432'							
515 - Steel Protective Coating		1576	sq. ft.	1576	0	0	0
(30.68" X 2 + 15.04" X 3 - 0.71" X 2)/12 = 8.755' 8.755' x 15' X 2 X 6 beams = 1575.9 SF The six beams are painted out to 15' away from the bearings.							
215 - Reinforced Concrete Abutment	2 - Low	99	ft.	99	0	0	0
49.40' X 2 = 99.00'							
321 - Reinforced Concrete Approach Slab	2 - Low	2543	sq. ft.	2543	0	0	0
(44.14' + 20.50') X 42.33' = 2736.21 SF							
331 - Reinforced Concrete Bridge Railing	2 - Low	154	ft.	139	15	0	0
76.75' X 2 = 153.50'							



Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

### Bridge Inspection Report



PHOTO 1 Elevation, Condition  
Description East side.



PHOTO 2 Condition  
Description West side.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report



PHOTO 3 Condition  
Description Roadway south.



PHOTO 4 Condition  
Description South joint and approach slab.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report



PHOTO 5 Condition  
Description North joint and approach slab.



PHOTO 6 Condition  
Description East barrier wall.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09940 NB  
Facility Carried: I-65 NB

Bridge Inspection Report



PHOTO 7 Condition  
Description Underside and north abutment.



PHOTO 8 Condition  
Description Underside and south abutment.

**Miscellaneous Asset Data**  
**Asset Management**

---

034911

**Load Rating 2:**

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection? No

---

**Extended Frequency:**

Submittal Date:

Inspector:

INDOT Reviewer:

This bridge has been accepted into the Extended Frequency Program.

Approval Date:

---

**Joints:** \* Indicate location, type, and rating of lowest rated joint.

No Joints Present

Comments:

---

**Terminal Joints:** \*Rating of lowest rated terminal joint. N

Comments:

---

**Concrete Slopewall:** \*Rating of lowest rated slopewall. N

Comments:

---

**Bearings:** \* Indicate type, and rating of lowest rated bearing.

N - No Bearing(s)

Comments:

---

**Approach Slabs:** \* Indicate if present & condition rating.

1 - Approach Slabs

8 - Very good condition, no significant cracks

Comments:

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

5 - Weathering Steel

8 - Very Good  
Condition – very  
minor surface dulling

2016

Comments:

The six beams are painted out to 15' away from the bearings.

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:

# LOAD RATING - BRADIN

Load Rating Date: 15-NOV-13

## National Bridge Inventory (NBI):

(66B) INVENTORY RATING (H):	57	(31) DESIGN LOAD:	A
(65) INVENTORY RATING METHOD:	3	(70) BRIDGE POSTING:	5
(66) INVENTORY RATING:	67	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(63) OPERATING RATING METHOD:	3	(66C) TONS POSTED:	
(64) OPERATING RATING:	70	(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.816
EV3: LEGAL RF:	1.845

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.389
SU5: LEGAL RF:	2.142
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	3.002
ALTERNATE MILITARY: LEGAL RF:	2.445

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	2.48
LANE TYPE: LEGAL RF:	99
SU6: LEGAL RF:	1.919

### 3-Axles:

HS20: LEGAL RF:	1.947
AASHTO TYPE 3: LEGAL RF:	2.659

SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	1.754

### 4-Axles:

SU4: LEGAL RF:	2.372
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

### Other Configurations:

H20-44: DESIGN RF:	2.874
NRL: LEGAL RF:	1.686

SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	2.149
SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	2.283
SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.651
SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	2.003
SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.631

# Bridge Inspection Report

I65-021-09939 SB  
I-65 SB  
over  
BROWNSTOWN ROAD



Inspection Date: 04/14/2021

Inspected By: Stephen F. Hurst

Inspection Type(s): Routine



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Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

Bridge Inspection Report

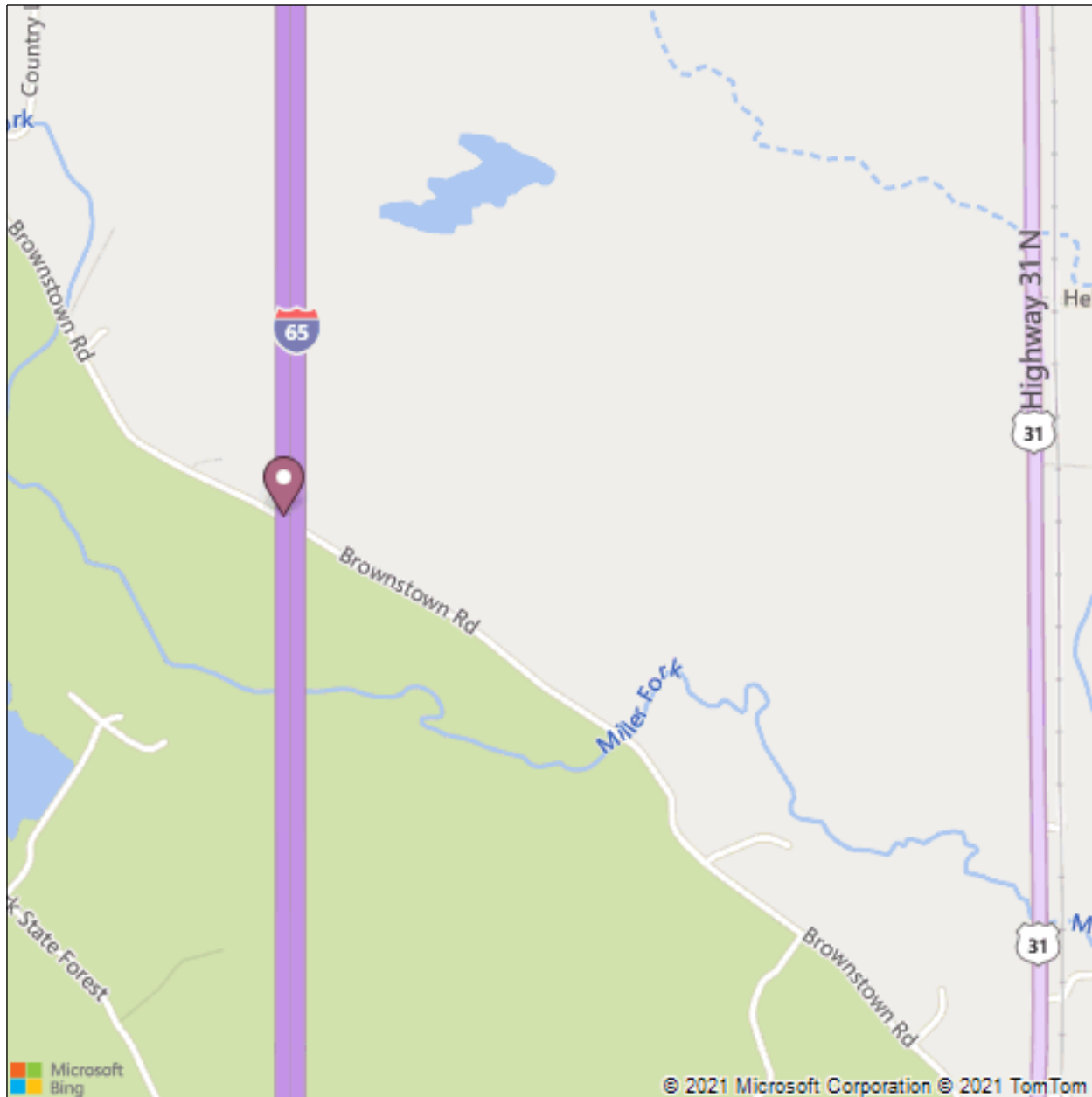


Latitude: 38.57014  
Longitude: -85.77898

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

Bridge Inspection Report



Latitude: 38.57014  
Longitude: -85.77898

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

### Bridge Inspection Report

General Inspection Notes: Overall the structure is in very good condition.

#### Bridge History:

2016 : New Bridge : DES # 1173615 - Contract # RS-37549

2024 : Bridge Widening : DES # 2001600 - Contract # R-41529 - Letting Date 7/12/2023

#### Miscellaneous:

This structure was built in 2016 under Contract RS-37549, Des #1173615, replacing structure I65-21-04225 DSBL, a 3 span reinforced concrete girder bridge built in 1958 and reconstructed in 2002.

#### Maintenance/Deficiencies:

There are no open maintenance items.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034921	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.57014
(3) COUNTY CODE:	010 - CLARK	(17) LONGITUDE:	-85.77898
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	BROWNSTOWN ROAD	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 SB	B) PERCENT	%
(9) LOCATION:	02.03 N SR 160	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0022.800		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 001 UNIT:	
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(46) NUMBER OF APPROACH SPANS:	0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	1 - Monolithic Concrete (concurrently placed with structural deck)
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	1 - Epoxy Coated Reinforcing

**AGE OF SERVICE**

(27) YEAR BUILT:	2016	(28) LANES:	
(106) YEAR RECONSTRUCTED:	0000	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	02
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	017948
B) UNDER BRIDGE:	1 - Highway, with or w/out pedestrian	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2014
		(109) AVERAGE DAILY TRUCK TRAFFIC:	39 %
		(19) BYPASS DETOUR LENGTH:	001 MI

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0075.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00076.8 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.3 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.3 FT	A) REFERENCE FEATURE: H
(52) DECK WIDTH, OUT-TO-OUT: 042.3 FT	B) MIN VERT UNDERCLEAR: 15.64 FT
(32) APPROACH ROADWAY 040.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: H
(34) SKEW: 31 DEG	B) MIN LATERAL UNDERCLEAR: 016.3 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 04/14/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 8 - Very Good Condition (no problems noted)	(60) SUBSTRUCTURE: 9 - Excellent Condition
(58.01) WEARING SURFACE: 8 - Very Good Condition	(61) CHANNEL/CHANNEL PROTECTION: N - Not Applicable
(59) SUPERSTRUCTURE: 9 - Excellent Condition	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 8 - Very Good Condition (no problems noted)  
 Comments:  
 The deck is in good condition.  
 Barrier wall: The east barrier wall has 15' of horizontal cracking due to improper slip forming techniques.

(58.01) WEARING SURFACE: 8 - Very Good Condition  
 Comments:  
 The wearing surface is monolithic with the deck.

Inspector: Stephen F. Hurst  
 Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
 Facility Carried: I-65 SB

Bridge Inspection Report

(59) SUPERSTRUCTURE: 9 - Excellent Condition

Comments:  
 This structure was built in 2016 under Contract RS-37549, Des #1173615.  
 The superstructure is in good condition.

(60) SUBSTRUCTURE: 9 - Excellent Condition

Comments:  
 This structure was built in 2016 under Contract RS-37549, Des #1173615.  
 The substructure is in good condition.

(61) CHANNEL/CHANNEL PROTECTION N - Not Applicable

Comments:

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	A - HL 93	(66) INVENTORY RATING:	67
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	3 - Load and Resistance Factor (LRFR)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	57
(64) OPERATING RATING:	70	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	3 - Load and Resistance Factor (LRFR)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	96.3	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	9	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	7	36D) APPROACH GUARDRAIL ENDS:	1
(71) WATERWAY ADEQUACY:	N - Not Applicable		
Comments:			
(72) APPROACH ROADWAY ALIGNMENT:	8 - Equal to present desirable criteria		
Comments:			
(113) SCOUR CRITICAL BRIDGES:	N - Not over waterway		
Comments:			

Inspector: Stephen F. Hurst  
 Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
 Facility Carried: I-65 SB

Bridge Inspection Report

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	L - Left structure (South or West)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	N - Not applicable, no water way	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	000000. FT 0	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	022942
		(115) YR OF FUTURE ADT:	2034



Inspector: Stephen F. Hurst  
 Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
 Facility Carried: I-65 SB

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	3249	sq. ft.	3249	0	0	0
76.75' X 42.33' = 3248.83 SF							
107 - Steel Open Girder/Beam	2 - Low	432	ft.	432	0	0	0
Beams (75' -1.5' X2) X 6 beams = 432'							
515 - Steel Protective Coating		1576	sq. ft.	1576	0	0	0
(30.68" X 2 + 15.04" X 3 - 0.71" X 2)/12 = 8.755' 8.755' x 15' X 2 X 6 beams = 1575.9 SF The six beams are painted out to 15' away from the bearings.							
215 - Reinforced Concrete Abutment	2 - Low	99	ft.	99	0	0	0
49.40' X 2 = 99.00'							
321 - Reinforced Concrete Approach Slab	2 - Low	2543	sq. ft.	2535	8	0	0
(44.14' + 20.50') X 42.33' = 2736.21 SF							
331 - Reinforced Concrete Bridge Railing	2 - Low	154	ft.	139	15	0	0
76.75' X 2 = 153.50'							

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

Bridge Inspection Report



PHOTO 1 Elevation, Condition  
Description West side.



PHOTO 2 Elevation, Condition  
Description East side.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

### Bridge Inspection Report



PHOTO 3    Condition  
Description    Roadway north.



PHOTO 4    Condition  
Description    South joint and approach slab.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

Bridge Inspection Report



PHOTO 5 Condition  
Description North joint and approach slab.



PHOTO 6 Condition  
Description East barrier wall.

Inspector: Stephen F. Hurst  
Inspection Date: 04/14/2021

Asset Name: I65-021-09939 SB  
Facility Carried: I-65 SB

### Bridge Inspection Report



PHOTO 7 Condition  
Description Underside and south abutment.



PHOTO 8 Condition  
Description Underside facing north.



There are some minor cracks in the approach slabs.

---

**Paint:** \* Indicate if paint present , year painted & condition rating.

5 - Weathering Steel

9 - Excellent  
Condition – new

2016

Comments:

The six beams are painted out to 15' away from the bearings.

**Endangered Species:** \* If yes, add one photo to the dropdown field

Bats: seen or heard under structure? \*

N - No evidence of bats

Birds/swallows/nests seen? Empty nests present? \*

N - No Birds and/or Nests Visi

---

**BRIDGE Culvert Geometry:**

Barrel Length:

Height:

Width:

# LOAD RATING - BRADIN

Load Rating Date: 15-NOV-13

## National Bridge Inventory (NBI):

(66B) INVENTORY RATING (H):	57	(31) DESIGN LOAD:	A
(65) INVENTORY RATING METHOD:	3	(70) BRIDGE POSTING:	5
(66) INVENTORY RATING:	67	(41) STRUCTURE OPEN/POSTED/CLOSED:	A
(63) OPERATING RATING METHOD:	3	(66C) TONS POSTED:	
(64) OPERATING RATING:	70	(66D) DATE POSTED/CLOSED:	

## Posting Configurations:

### Emergency Vehicles:

EV2: LEGAL RF:	2.816
EV3: LEGAL RF:	1.845

### 5-Axles:

AASHTO TYPE 3S2: LEGAL RF:	2.389
SU5: LEGAL RF:	2.142
TOLL ROAD LOADING NO. 1: ROUTINE PERMIT RF:	

### 2-Axles:

H20-44: LEGAL RF:	3.002
ALTERNATE MILITARY: LEGAL RF:	2.445

### 6+-Axles:

AASHTO TYPE 3-3: LEGAL RF:	2.48
LANE TYPE: LEGAL RF:	99
SU6: LEGAL RF:	1.919

### 3-Axles:

HS20: LEGAL RF:	1.947
AASHTO TYPE 3: LEGAL RF:	2.659

SPECIAL TOLL ROAD TRUCK: ROUTINE PERMIT RF:	
SU7: LEGAL RF:	1.754

### 4-Axles:

SU4: LEGAL RF:	2.372
TOLL ROAD LOADING NO. 2: ROUTINE PERMIT RF:	

MICHIGAN TRAIN TRUCK NO. 5: ROUTINE PERMIT RF:	
MICHIGAN TRAIN TRUCK NO. 8: ROUTINE PERMIT RF:	

### Other Configurations:

H20-44: DESIGN RF:	2.874
NRL: LEGAL RF:	1.686

SUPERLOAD-11 AXLES: SPECIAL PERMIT RF:	2.149
SUPERLOAD-13 AXLES: SPECIAL PERMIT RF:	2.283
SUPERLOAD-14 AXLES: SPECIAL PERMIT RF:	1.651
SUPERLOAD-19 AXLES (152.5T): SPECIAL PERMIT RF:	2.003
SUPERLOAD-19 AXLES (240.045T): SPECIAL PERMIT RF:	1.631



# Bridge Inspection Report

I65-024-04229 BNBL  
I-65 NB  
over  
PIGEON ROOST CREEK



Inspection Date: 04/14/2021

Inspected By: Stephen F. Hurst

Inspection Type(s): Routine

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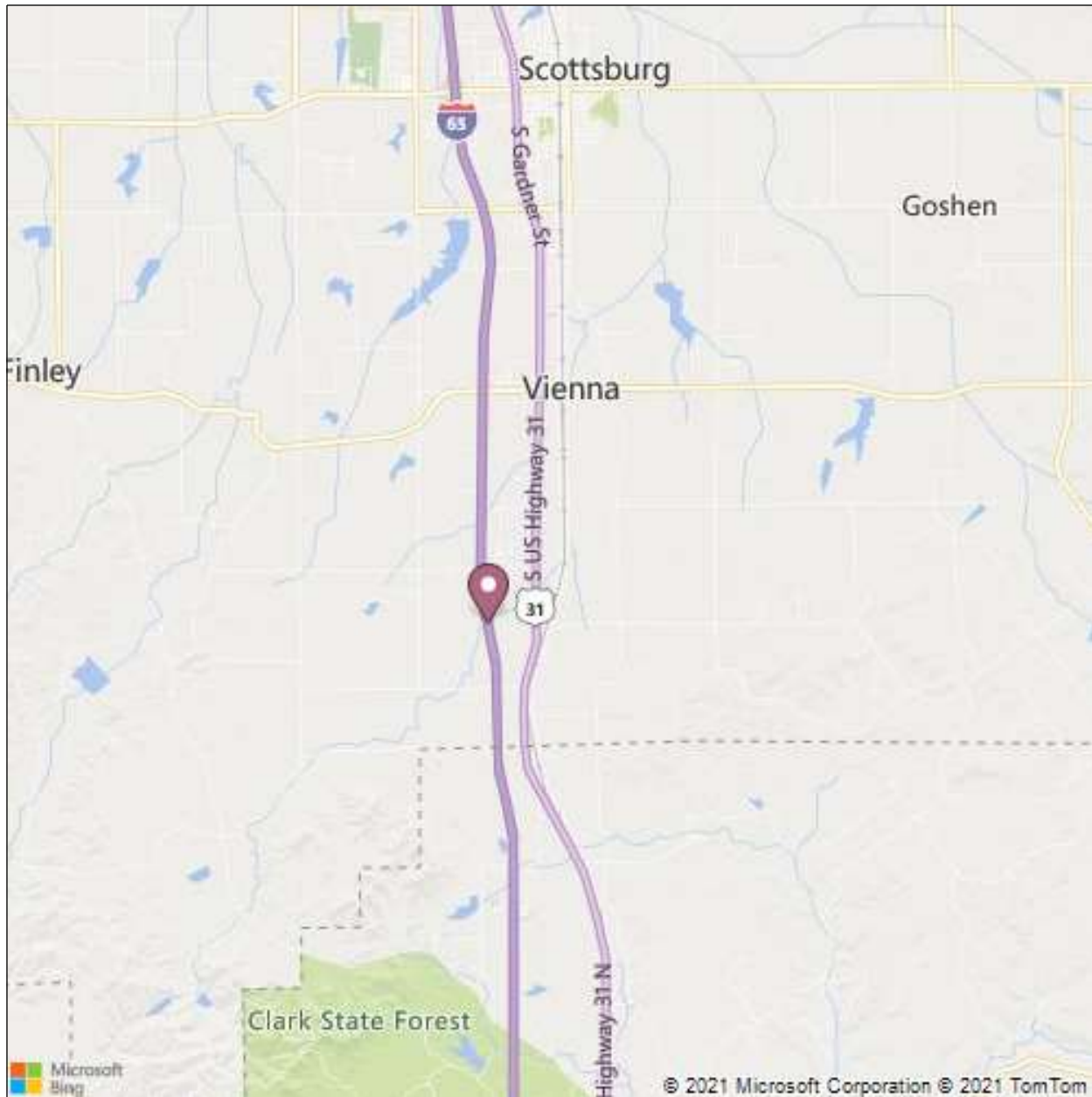
Asset Name: I65-024-04229  
Facility Carried: BNBI  
I-65 NB

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Latitude: 38.61998  
Longitude: -85.78283

Bridge Inspection Report



Latitude: 38.61998  
Longitude: -85.78283

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General Inspection Notes: Overall the structure is in fair to good condition. Superstructure is in fair condition: Span A at Abutment 1 (south): Spall 3' long on west side Beam 6. Span C at Abutment 4 (north): Crack 2' long on east side Beam 2. Crack 2' long on east side of Beam 3. Spall 2' long on west side Beam 4.

#### Bridge History:

1959 : New Bridge : DES # Unknown - Contract # B-4597  
1975 : Rehab A : Bridge Deck Overlay Prior : DES # Unknown - Contract # B-9858  
1991 : Rehab B : Replace Superstructure : DES # 8715965 - Contract # B-18469  
2023 : Bridge Deck Overlay 1 : DES # 2001604 - Contract # R-41529 - Letting Date 7/12/2023

#### Maintenance/Deficiencies:

A green deficiency was submitted for erosion control on the east shoulder at the north end.

Bridge Inspection Report

**IDENTIFICATION**

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	1
(8) STRUCTURE:	034940	(13A) INVENTORY ROUTE:	0000000001
(5 A-B-C-D-E) INV. ROUTE:	1 - 1 - 1 - 00065 - 0	(13B) SUBROUTE NUMBER:	01
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	38.61998
(3) COUNTY CODE:	072 - SCOTT	(17) LONGITUDE:	-85.78283
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	PIGEON ROOST CREEK	A) STATE NAME:	
(7) FACILITY CARRIED:	I-65 NB	B) PERCENT	%
(9) LOCATION:	04.58 S SR 56	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0024.740		

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 003 UNIT:	
A) KIND OF MATERIAL/DESIGN:	6 - Prestressed concrete continuous	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	06 - Box Beam or Girders - Single or Spread	(107) DECK STRUCTURE TYPE:	1 - Concrete Cast-in-Place
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	1 - Monolithic Concrete (concurrently placed with structural deck)
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	9 - Other

**AGE OF SERVICE**

(27) YEAR BUILT:	1959	(28) LANES:	
(106) YEAR RECONSTRUCTED:	1991	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	021299
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2004
		(109) AVERAGE DAILY TRUCK TRAFFIC:	10 %
		(19) BYPASS DETOUR LENGTH:	001 MI

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**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 0032.0 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00099.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 039.6 FT
A) LEFT 00.0 FT	(53) VERT CLEAR OVER BR RDWY: 99.99 FT
B) RIGHT: 00.0 FT	(54) MIN VERTICAL UNDERCLEARANCE:
(51) BRDG RDWY WIDTH CURB-TO-CURB: 039.6 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 042.6 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 040.0 FT	(55) LATERAL UNDERCLEARANCE RIGHT:
(33) BRIDGE MEDIAN: 0 - No median	A) REFERENCE FEATURE: N
(34) SKEW: 00 DEG	B) MIN LATERAL UNDERCLEAR: 000.0 FT
	(56) MIN LATERAL UNDERCLEAR ON LEFT: 00.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 04/14/2021	(91) DESIGNATED INSPECTION FREQUENCY: 24 MONTHS
(92) CRITICAL FEATURE INSPECTION:	(93) CRITICAL FEATURE INSPECTION DATE:
A) FRACTURE CRITICAL REQUIRED/FREQUENCY: N	A) FRACTURE CRITICAL DATE:
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY: N	B) UNDERWATER INSP DATE:
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY: N	C) OTHER SPECIAL INSP DATE:

**CONDITION**

(58) DECK: 7 - Good Condition (some minor problems)	(60) SUBSTRUCTURE: 7 - Good Condition (some minor problems)
(58.01) WEARING SURFACE: 7 - Good Condition	(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs
(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 7 - Good Condition (some minor problems)  
 Comments:  
 The underside of the deck is concealed by metal SIP forms. The copings are protected from runoff by concrete barrier walls. There is minor corrosion in the metal stay in place forms at the North abutment area under the north joint.

(58.01) WEARING SURFACE: 7 - Good Condition  
 Comments:  
 The wearing surface is monolithic with the deck. There is hairline longitudinal cracking in top of the deck.

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(59) SUPERSTRUCTURE: 5 - Fair Condition (minor section loss)

Comments:

Span A at Abutment 1 (south): Spall 3' long on west side Beam 6.

Span C at Abutment 4 (north): Crack 2' long on east side Beam 2. Crack 2' long on east side of Beam 3. Spall 2' long on west side Beam 4.

General: Minor cracks and delamination with minor spalls in a few of the curtain walls.

(60) SUBSTRUCTURE: 7 - Good Condition (some minor problems)

Comments:

There are minor cracks in both backwalls and bent caps.

(61) CHANNEL/CHANNEL PROTECTION: 7 - Bank protection needs minor repairs

Comments:

The channel flows from west to east through Span B and against Pier 3. The banks are well vegetated. There is a sinkhole on the east shoulder at the north end of the north approach slab.

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	6 - HS 20+Mod	(66) INVENTORY RATING:	51
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD:	3 - Load and Resistance Factor (LRFR)
(41) STRUCTURE OPEN/POSTED/CLOSED:	A - Open	(66B) INVENTORY RATING (H):	32
(64) OPERATING RATING:	68	(66C) TONS POSTED :	
(63) OPERATING RATING METHOD:	3 - Load and Resistance Factor (LRFR)	(66D) DATE POSTED/CLOSED:	

**APPRAISAL**

SUFFICIENCY RATING:	84.7	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	0	36A) BRIDGE RAILINGS:	1
(67) STRUCTURAL EVALUATION:	5	36B) TRANSITIONS:	1
(68) DECK GEOMETRY:	6	36C) APPROACH GUARDRAIL:	1
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	1

(71) WATERWAY ADEQUACY: 7 - Slight Chance of Overtopping Bridge

Comments:

(72) APPROACH ROADWAY ALIGNMENT: 8 - Equal to present desirable criteria

Comments:

(113) SCOUR CRITICAL BRIDGES: 8 - Stable for scour conditions

Comments:

Scour at Piers #2 and 3

Spread footings, NO piles, scour, poor channel details.



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**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	01 - State Highway Agency
(22) OWNER:	01 - State Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	01 - Rural - Principal Arterial - Interstate
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE:	R - Right structure (North or East)	(102) DIRECTION OF TRAFFIC:	1-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	1 - Structure/Route is on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route on National Truck Network
(112) NBIS BRIDGE LENGTH:	Yes		

**NAVIGATION DATA**

(38) NAVIGATION CONTROL:	0 - No navigation control on waterway (bridge permit not required)	(39) NAVIGATION VERTICAL CLEAR:	000.0 FT
(111) PIER OR ABUTMENT PROTECTION:		(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE:	FT
		(40) NAV HORIZONTAL CLEARANCE:	0000.0 FT

**PROPOSED IMPROVEMENTS**

(75A) TYPE OF WORK:		(95) ROADWAY IMPROVEMENT COST:	\$ 000000
(75B) WORK DONE BY:		(96) TOTAL PROJECT COST:	\$ 000000
(76) LENGTH OF IMPROVEMENT:	00000.0 FT	(97) YR OF IMPROVEMENT COST EST:	
(94) BRIDGE IMPROVEMENT COST:	\$ 000000	(114) FUTURE AVG DAILY TRAFFIC:	041354
		(115) YR OF FUTURE ADT:	2033

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	2 - Low	4197	sq. ft.	4194	3	0	0
98.75' X 42.50' = 4196.88 SF							
104 - Prestressed Concrete Closed Web/Box Girder	2 - Low	576	ft.	567	1	8	0
(0.5' + 31.5' + 32.0' + 31.5' + 0.5') X 6 beams = 576'							
210 - Reinforced Concrete Pier Wall	2 - Low	60	ft.	60	0	0	0
(42.0' - 12.0') X 2 = 60.0'							
215 - Reinforced Concrete Abutment	2 - Low	90	ft.	83	7	0	0
44.67' X 2 = 89.34'							
234 - Reinforced Concrete Pier Cap	2 - Low	84	ft.	84	0	0	0
42.0' X 2 piers = 84.0'							
302 - Compression Joint Seal	2 - Low	85	ft.	80	5	0	0
42.5' X 2 = 85.0'							
321 - Reinforced Concrete Approach Slab	2 - Low	1620	sq. ft.	1452	120	48	0
39.50' X 20.50' X 2 = 1619.50 SF							
331 - Reinforced Concrete Bridge Railing	2 - Low	198	ft.	198	0	0	0
98.75' X 2 = 197.50'							

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PHOTO 1 Elevation, Condition

Description West side.



PHOTO 2 Condition

Description East side.

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PHOTO 3 Condition  
Description Roadway south.



PHOTO 4 Condition  
Description Roadway north.

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PHOTO 5 Condition  
Description South joint and approach slab.



PHOTO 6 Condition  
Description North joint and approach slab.