

Posting Date: September 15, 2022

# Request for Proposals Notification

**Title:** Johnson County Highway Department Engineering Services for Replacement of County Bridge No. 85, County Road 500 North over Grassy Creek and Culvert P-004 County Road 500 North over East Grassy Creek (Des # 2211FFE) in the Seymour District.

**Response Due Date & Time:** October 14, 2022 at 12:00 noon

This Request for Proposals (RFP) is official notification of needed professional services. This RFP is being issued to solicit a letter of Interest (LOI) and other documents from firms qualified to perform engineering work on federal aid projects. A submittal does not guarantee the firm will be contracted to perform any services but only serves notice the firm desires to be considered.

**Contact for Questions:** Daniel Johnston, P.E./Highway Engineer  
1051 Hospital Road  
Franklin, Indiana 46131  
(317)346-4630  
djohnston@co.johnson.in.us

## Submittal Requirements:

1.  Letter of Interest – submitted electronically (pdf) to Daniel Johnston at email address djohnston@co.johnson.in.us.

AND

2.  One (1) signed Affirmative Action Certification and associated required documents for all items if the DBE goal is greater than 0% sent electronically (pdf) to Daniel Johnston at email address djohnston@co.johnson.in.us.

**Submit To:** Daniel Johnston, P.E./Highway Engineer  
1051 Hospital Road  
Franklin, Indiana 46131  
(317)346-4630  
djohnston@co.johnson.in.us

**Selection Procedures:**

Consultants will be selected for work further described herein, based on the evaluation of the Letter of Interest (LOI) and other required documents. The Consultant Selection Rating Form used to evaluate and score the submittals is included for your reference. Final selection ranking will be determined by:

- The weighted score totals with the highest score being the top ranked firm
- Rank totals with the lowest rank total being the top ranked firm

**Requirements for Letters of Interest (LOI)**

A. General instructions for preparing and submitting a Letter of Interest (LOI).

1. Provide the information, as stated in Item B below, in the same order listed and signed by an officer of the firm. Signed and scanned documents, or electronically applied signatures are acceptable. Do not send additional forms, resumes, brochures, or other material unless otherwise noted in the item description.
2. LOI's shall be limited to twelve (12) 8 ½" x 11" pages that include Identification, Qualifications, Key Staff, and Project Approach.
3. LOI's must be received no later than the "Response Due Date and Time"; as shown in the RFP header above. Responses received after this deadline will not be considered. Submittals must include all required attachments to be considered for selection.

B. Letter of Interest Content

1. Identification, Qualifications and Key Staff

- a. Provide the firm name, address of the responsible office from which the work will be performed and the name and email address of the contact person authorized to negotiate for the associated work.
- b. List all proposed sub consultants, their DBE status, and the percentage of work to be performed by the prime consultant and each sub consultant.
- c. List the Project Manager and other key staff members, including key sub consultant staff, and the percent of time the project manager will be committed for the contract, if selected. Include project engineers for important disciplines and staff members responsible for the work. Address the experience of the key staff members on similar projects and the staff qualifications relative to the required item qualifications.

- d. Describe the capacity of consultant staff and their ability to perform the work in a timely manner relative to present workload.

2. Project Approach

- a. Provide a description of your project approach relative to the advertised services. For project specific items confirm the firm has visited the project site. For all items address your firm's technical understanding of the project or services, cost containment practices, innovative ideas and any other relevant information concerning your firm's qualifications for the project.

## Work item details:

Local Public Agency: Johnson County Highway Department

Project Location: Bridge No. 85, County Road 500 North over Grassy Creek , in Pleasant Township in Johnson County, spans Grassy Creek; and Culvert P-004 County Road 500 North over East Grassy Creek.

Project Description: Full replacement of bridge with incidental roadway approach replacement.

MPO Des #: 2211FFE

Phases Included: PE, RW

Estimated Construction Amount: \$1,914,000 for Bridge 85; \$380,000 for Culvert P-004

Funding: 100% Local funds for PE, RW.

Term of Contract: Until Project Completion

DBE goal: 0%

### Required Prequalification Categories:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> 5.2 Environmental Document Preparation - CE | <input checked="" type="checkbox"/> 12.1 Project Management for Aquisition Services |
| <input checked="" type="checkbox"/> 6.1 Topographical Survey Data Collection    | <input checked="" type="checkbox"/> 12.2 Title Search                               |
| <input checked="" type="checkbox"/> 8.1 Non-Complex Roadway Design              | <input checked="" type="checkbox"/> 12.4 Appraisal                                  |
| <input checked="" type="checkbox"/> 9.1 Level 1 Bridge Design                   | <input checked="" type="checkbox"/> 12.5 Appraisal Review                           |
| <input checked="" type="checkbox"/> 11.1 Right of Way Plan Development          | <input type="checkbox"/> 13.1 Construction Inspection                               |
| <input checked="" type="checkbox"/> Additional Categories Listed Below:         |   |
| 5.4 Ecological Surveys  |   |
| 5.5 Stream and Wetland Mitigation   |   |
| 5.6 Waterway Permits  |   |
| 7.1 Geotechnical Engineering Services   |   |
| 9.2 Level 2 Bridge Design   |   |
| 12.3 Value Analysis   |   |
| 12.6 Negotiation  |   |
| 12.7 Closing  |   |
| 16.1 Utility Coordination   |   |
| 17.4 Bridge Hydraulic Design  |   |

# LPA Consultant Selection Rating Sheet

Sample:

<b>RFP Selection Rating for</b> _____				<b>Des. No.</b> _____	
(City, County, Town) or (Local Public Agency)					
<b>Services Description:</b> _____					
<b>Consultant Name:</b> _____					
Evaluation Criteria to be Rated by Scorers					
Category	Scoring Criteria	Scale	Score	Weight	Weighted Score
Past Performance	<b>Performance evaluation score averages from historical performance data.</b>				
	Quality score for similar work from performance database.			6	
	Schedule score from performance database.			3	
	Responsiveness score from performance database.			1	
Capacity of Team to do Work	<b>Evaluation of the team's personnel and equipment to perform the project on time.</b>			20	
	Availability of more than adequate capacity that results in added value.	1			
	Adequate capacity to meet the schedule.	0			
	Insufficient available capacity to meet the schedule.	-1			
Team's Demonstrated Qualifications	<b>Technical Expertise: Unique Resources that yield a relevant added value or efficiency to the deliverable.</b>			15	
	Demonstrated outstanding expertise and resources identified for required services for value added benefit.	2			
	Demonstrated high level of expertise and resources identified for required services for value added benefit.	1			
	Expertise and resources at appropriate level.	0			
	Insufficient expertise and/or resources.	-3			
Project Manager	<b>Predicted ability to manage the project, based on: experience in size, complexity, type, subs, documentation skills.</b>			20	
	Demonstrated outstanding experience in similar type and complexity.	2			
	Demonstrated high level of experience in similar type and complexity.	1			
	Experience in similar type and complexity shown in resume.	0			
	Experience in different type or lower complexity.	-1			
	Insufficient experience.	-3			
Approach to Project	<b>Project Understanding and Innovation that provides cost and/or time savings.</b>			15	
	High level of understanding and viable innovative ideas proposed.	2			
	High level of understanding of the project.	1			
	Basic understanding of the project.	0			
	Lack of project understanding.	-3			
<b>Weighted Sub-Total:</b>					
It is the responsibility of scorers to make every effort to identify the firm most capable of producing the highest deliverables in a timely and cost effective manner without regard to personal preference.					
I certify that I do not have any conflicts of interest associated with this consultant as defined in 49CFR118.36.					
I have thoroughly reviewed the letter of interest for this consultant and certify that the above scores represent my best judgment of this firm's abilities.					
Signature: _____					Print Name: _____
Title: _____					Date: _____
(Form Rev. 4-7-16)					



# Johnson County Highway Department

1051 Hospital Road  
Franklin, IN 46131

(317) 346-4630 Office  
(317) 738-5378 Fax

www.jchighway.com  
highway@co.johnson.in.us

Lucas M. Mastin  
Highway Supervisor

Daniel E. Johnston, P.E.  
Highway Engineer

## Request for Fee Proposal for Consulting Engineering Services

September 2022

### Project Purpose and Need

Project includes removal, design, and replacement of Johnson County Bridge 85 and Culvert P-004 due to deterioration of existing structures. Construction and inspection funding was awarded by the Indianapolis MPO for Bridge 85. Johnson County added Culvert P-004 to the project for efficiency in design and construction. Funding for Bridge 85 is 100% local for PE and RW phases, with MPO Federal Fund Exchange participation for CE and CN phases. Funding for Culvert P-004 is 100% local for all phases.

### Project Location and Limits

*Bridge 85:* Whiteland Road (CR500N) over Grassy Creek, 0.50mi W of Sawmill Rd, Pleasant Twp. (Approx. coordinates 39° 32' 57.7"N, 86° 06' 39.8"W). The existing structure type is a single-span (37.2ft) adjacent prestressed box beam bridge on vertical abutments.

*Culvert P-004:* Whiteland Road (CR500N) over East Grassy Creek, 0.32mi W of Sawmill Rd, Pleasant Twp. (Approx. coordinates 39° 32' 57.9"N, 86° 06' 27.9"W). The existing structure type is a 11'-2" x 7'-7" steel multi-plate pipe arch.

Project area is located on Whiteland Road west of Sawmill Road at both of the structures noted above. The roadway work between both structures shall only connect if needed for hydraulic purposes or other justifiable design reasons.

### General Design Criteria

- Current INDOT Standards Specifications and Special Provisions
- Indiana Design Manual: 3R Design Standards
- AASHTO LRFD Bridge Design Specifications, 8th Ed. and subsequent interims
- AASHTO Manual for Bridge Evaluation, 3rd Ed. and subsequent interims
- INDOT Bridge Inspection Manual, Ch. 3

### Project Information

#### 1. Field Survey

Limits of topographical survey shall be sufficient to thoroughly analyze structure hydraulics, roadway conditions, utilities, property boundaries, etc. Anticipated survey lengths are 350ft east of culvert P-004 to 350ft west of Bridge 85 (total length of approximately 1630ft).

#### 2. Hydraulics

Existing and replacement structures for Bridge 85 and P-004 shall be hydraulically modeled using HEC-RAS software. Proposed structures shall be in support of IDNR Construction in Floodway permitting requirements. Hydraulic data table shall be included in plan details. Shall include scour

analysis (if applicable based on replacement structure type) and/or provide recommendations on scour countermeasures.

### 3. Economic Analysis

Various structure types which meet criteria shall be considered to determine the most suitable replacement types, given life cycle costs. Proposed alternatives shall improve the existing roadway hydraulic serviceability within the estimated construction cost.

### 4. Environmental Document

Bridge 85 project development shall comply with the MPO's Federal Fund Exchange Guidance Document requirements. Culvert P-004 is funded with 100% Local funds and shall not be included in the Bridge 85 environmental document.

### 5. Structural Design

Replacement structures shall be designed according to current AASHTO LRFD design specifications and meet all INDOT Level One, Two, and Three criteria, unless otherwise identified and approved by the County. Design shall include a load rating analysis to certify structures are designed with sufficient capacity for design loads.

### 6. Roadway Design (Incidental)

Incidental roadway design (both full and partial depth pavement) shall be included as required to tie each structure's construction limits and guardrail into existing roadway. Roadway profile developed shall minimize ROW acquisition and road design limits. Roadway design shall meet all INDOT Level One, Two, and Three criteria, unless otherwise identified and approved by the County, including roadside safety elements. If requested, the Consultant will develop a pavement design for this project, otherwise, the pavement section shall be determined by Johnson County.

### 7. Geotechnical Investigation

Shall include boring sampling and analysis, foundation recommendations, wall recommendations, and all other geotechnical analysis required for design of proposed structures.

### 8. R/W Engineering

Includes title search, Plat No. 1, legal descriptions, parcel plats, etc.

### 9. R/W Services

Includes appraisals, appraisal review, R/W management, official offers, complete negotiations, partial mortgage releases, and closing. County may choose to self-perform R/W staking services.

### 10. Maintenance of Traffic (MOT)

Anticipated MOT scheme is a full closure and detour; however, phasing of construction for local traffic will be required so that access is provided for all entities located between Bridge 85 and Culvert P-004. Should staggering of each structure's construction be proposed, priority shall be given to addressing the replacement of Bridge 85 first.

### 11. Utility Coordination

All coordination with applicable utility companies and relocation plans furnished by Consultant. Consultant shall review and advise reimbursable utility agreements and cost estimates as necessary.

**Consultant shall provide utility coordination support throughout construction,** including issuance of Notice to Proceed, inspection, and verification that relocated facilities is complete.

12. Permitting

All coordination with permitting agencies and required assessment of project site shall be completed, including (but not limited to) IDNR, IDEM, USACE, etc.

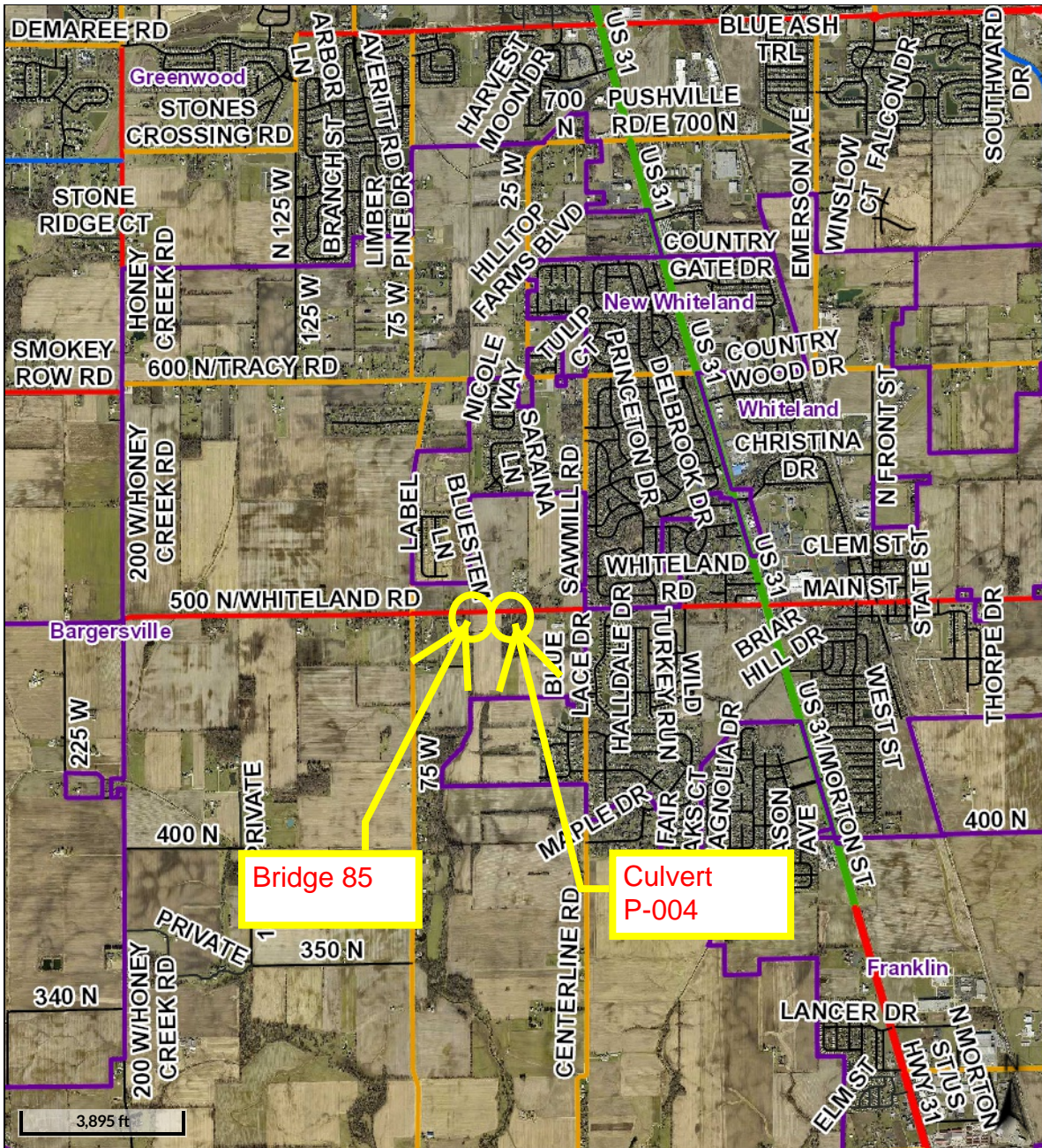
13. Complete Contract Bid Package Preparation

Shall include construction cost estimate, contract plans, specifications, and required contract language and forms. Consultant will handle bid document distribution and questions. Project bid will be public. Letting to occur in SFY 2025.

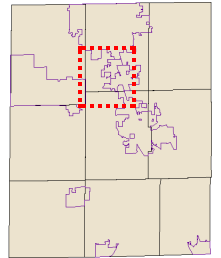
14. Post-Selection Coordination

Additional project scope details will be discussed with selected consultant prior to developing scope and fee estimates.





**Overview**



**Legend**

- Cities
- Parcels
- Roads**
  - ACCESS RAMP
  - HIGHWAY
  - INTERSTATE
  - LOCAL
  - MAJOR ARTERIAL
  - MAJOR COLLECTOR
  - MINOR ARTERIAL
  - MINOR COLLECTOR
  - PRIVATE ROAD

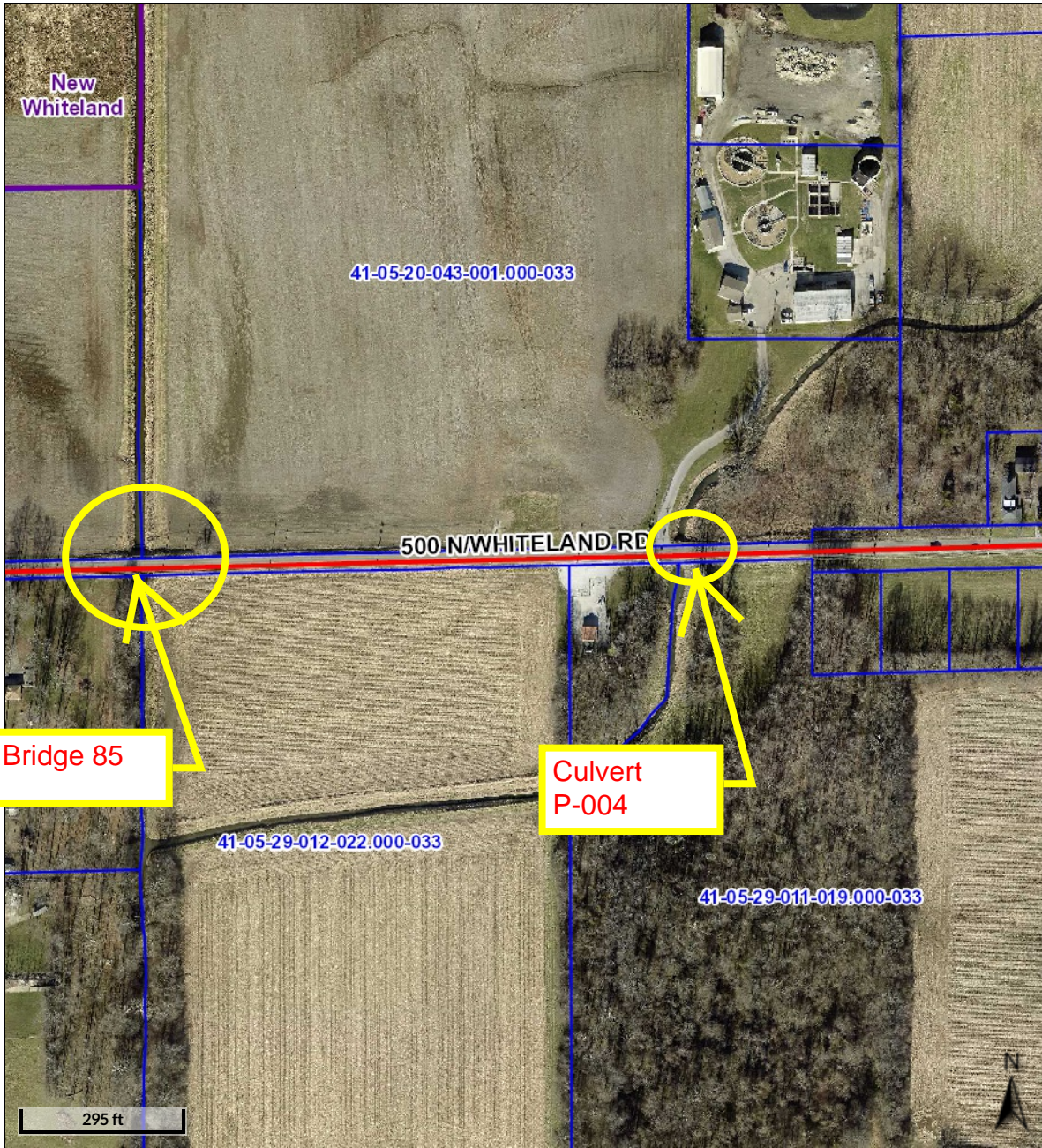
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Date created: 8/4/2022

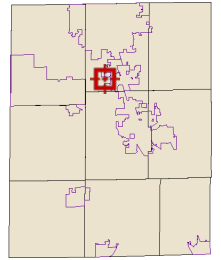
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Developed by **Schneider**  
GEOSPATIAL





**Overview**



**Legend**

-  Cities
-  Parcels
- Roads**
-  ACCESS RAMP
-  HIGHWAY
-  INTERSTATE
-  LOCAL
-  MAJOR ARTERIAL
-  MAJOR COLLECTOR
-  MINOR ARTERIAL
-  MINOR COLLECTOR
-  PRIVATE ROAD

Bridge 85

Culvert P-004

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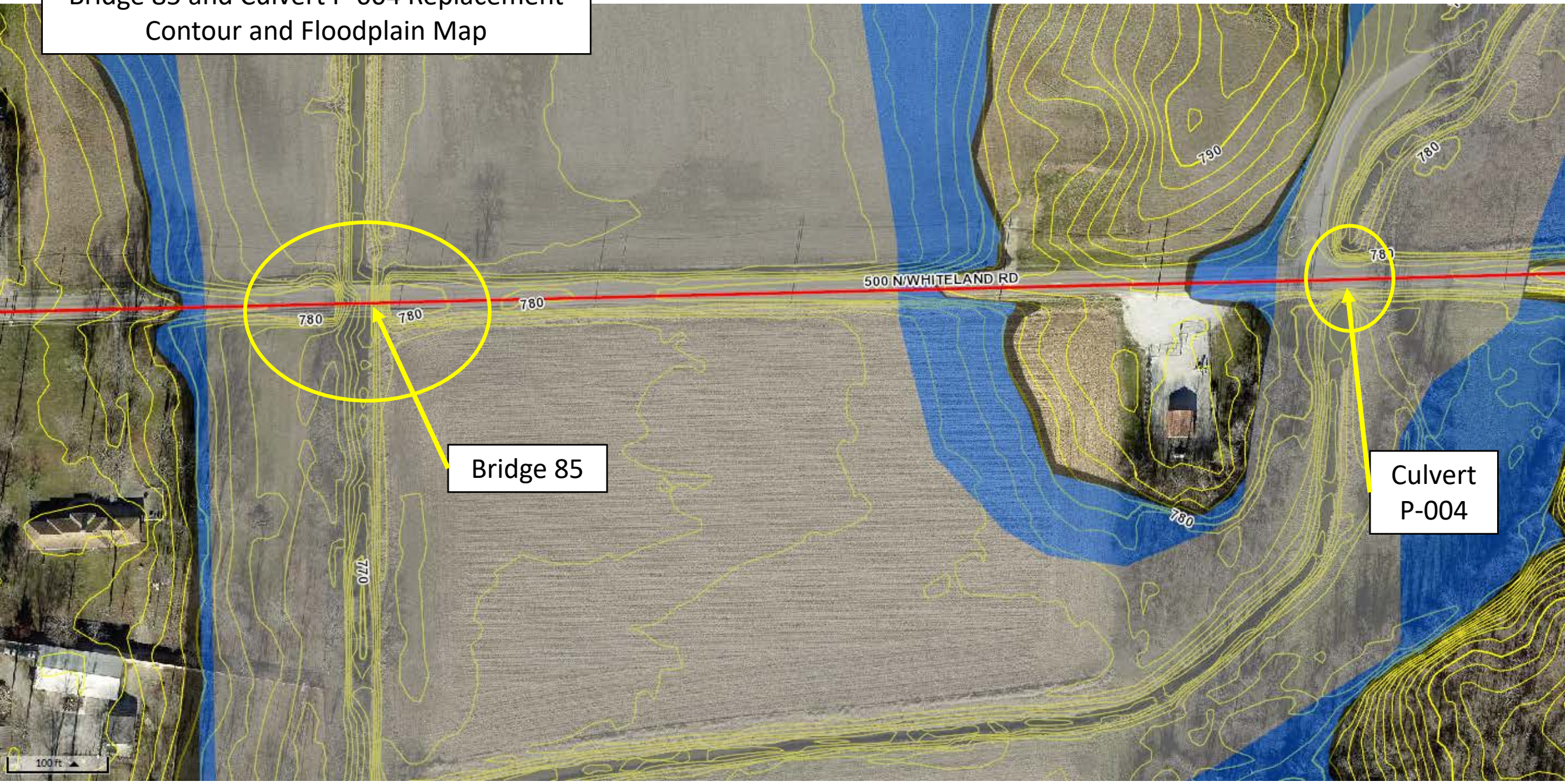
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Bridge 85 and Culvert P-004 Replacement  
Contour and Floodplain Map



Bridge 85

Culvert  
P-004

100 ft



## **Mastin, Lucas - Highway Dept**

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**From:** MiTIPHelp <mitiphelp@ecointeractive.com>  
**Sent:** Thursday, October 14, 2021 11:31 AM  
**To:** steve.cunningham@Indy.Gov; kristyn.sanchez@indympo.org; Mastin, Lucas - Highway Dept  
**Subject:** PROJECT IMPO1702165 in 22-01.4 - CFP 2021 has been SUBMITTED by LMASTIN

One of your submittals in 22-01.4 - CFP 2021 has been submitted by LMASTIN:

Project ID:IMPO1702165  
Version: 1  
Title: Bridge 85 Replacement  
Comments:

\* This email was automatically generated when your submittal was submitted. If you have specific questions regarding this project, please contact Kristyn Sanchez ( [kristyn.sanchez@indympo.org](mailto:kristyn.sanchez@indympo.org) )



DES NUM: IMPO1702165

VERSION: 1

STATUS: In Progress - Application

LAST MODIFIED BY: Luke Mastin LAST MODIFIED DATE: 10/14/2021

TIP Programming

Obligation

Map

Project IDS/Contacts

Documents

Amendment History

Project Delivery

Purchase Order

THIS VERSION IS READ-ONLY  
THIS IS THE LATEST APPROVED VERSION

Administrative Area

Detail

CALL FOR PROJECTS	CMP	MODEL	DES NUM	MPO	LRTP REQUIRED	REG SIG	CONTRACT #
22-01.4 CFP Indianapolis MPO 0 2021			IMPO1702165	Indianapolis MPO			N/A

GROUP PROJECT

ACTION PROPOSED

AMENDMENT NOTES

Project Information

Show/Hide CFP Forms

WHAT SUBSECTION OF FEDERAL EXCHANGE PROGRAM FUNDS ARE YOU APPLYING FOR THIS PROJECT (CHECK ALL THAT APPLY)?

CMAQ  HSIP  PLANNING  STBG  TAP

DES NUM L RTP #

IMPO1702165

PROJECT TITLE [Spell Check](#)

Bridge 85 Replacement

PROJECT DESCRIPTION [Spell Check](#)

Replacement of Bridge 85 on Whiteland Road over Grassy Creek

WORK TYPE	WORK CATEGORY	CAP INC	FUNCTIONAL CLASSIFICATION	AQ EXEMPT	BIKE/PED COMPONENT(S)	% OF FED FUNDS TOWARDS BIKE/PED
Bridge Replacement	Local Bridge Project	No	Minor Arterial	Exempt	Yes	1

LEAD AGENCY	COUNTY	INDOT DISTRICT	URBAN AREA
Johnson County	Johnson	Seymour	Y

DOES YOUR PROJECT COMPLY WITH THE COMPLETE STREETS POLICY?

Yes

SUFFICIENCY RATING*	38.1	32
FEDERAL FUNCTIONAL CLASSIFICATION	Minor Arterial	8
PROJECT IS LOCATED ON THE FREIGHT NETWORK as designated by the IMPO's Plan	NO	0
STRUCTURALLY DEFICIENT / FUNCTIONALLY OBSOLETE*	Structurally Deficient	25
EXISTING TRAFFIC VOLUMES (ADT)	6805	3

\*(Average of Segments for Corridors)

TOTAL STBG POINTS 68

\* Documentation is required to substantiate the scores; particularly those criteria identified by an asterisk (\*)

COMPLETE STREETS POLICY COMPLIANCE [-]

Is Project Area or Site Located Along an Existing or Proposed Fixed Transit Corridor?

\*\* SPONSORS WITH PROJECTS LOCATED ON FIXED TRANSIT CORRIDORS MUST CONTACT TRANSIT PROVIDERS FOR FEEDBACK \*\*

REFER TO [ONLINE MAP](#) TO IDENTIFY EXISTING AND PROPOSED FIXED TRANSIT CORRIDORS:

This Project Complies with the IMPO Regional Complete Streets Policy by Including:

PROJECT AREA ALREADY INCLUDES SIDEWALK ALONG ENTIRE LENGTH OF PROJECT CORRIDOR (ONE SIDE)



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PROJECT AREA ALREADY INCLUDES BIKE LANE(S) ALONG ENTIRE LENGTH OF PROJECT CORRIDOR (BOTH SIDES IF TWO-WAY TRAFFIC)

NEW SIDEWALK  
 SIDEWALK IS ON   
 TOTAL LENGTH:   
 FACILITY WIDTH:

NEW MULTI-USE PATH  
 PATH IS ON   
 TOTAL LENGTH:   
 FACILITY WIDTH:

NEW ON-STREET BIKE LANE(S) (MINIMUM FOUR FOOT WIDTH)  
 BIKE LANE IS ON   
 TOTAL LENGTH:   
 FACILITY WIDTH:

**This Project Also Includes the Following Optional Facilities:**

Information provided in this section will assist the MPO with federally and state mandated performance measure tracking.

OFF-STREET CYCLE TRACK / ETC.  
 TOTAL LENGTH:   
 FACILITY WIDTH:

BIKEWAY SHARROWS (ARROWS INDICATING SHARED BICYCLE / MOTOR VEHICLE ROUTE)  
 TOTAL LENGTH:

BICYCLE PARKING  
 TOTAL NUMBER OF PARKING SPACES:

DESIGNATED CROSSWALKS (SPECIAL PAVING / PAINTING / ETC.)  
 TOTAL NUMBER OF CROSSINGS:

PEDESTRIAN CROSSING SIGNALS  
 TOTAL NUMBER OF SIGNALS:

PEDESTRIAN-SCALED LIGHTING (LIGHT FIXTURE MOUNTED NO HIGHER THAN 16 FEET ABOVE GRADE)  
 TOTAL LENGTH ALONG CORRIDOR:

ADA ACCESSIBLE RAMPS  
 TOTAL NUMBER OF RAMPS:

DEDICATED TRANSIT FACILITY (ON-STREET DEDICATED TRANSIT-WAY)  
 TOTAL LENGTH OF LANE(S):

TRANSIT STOP / SHELTER / STATION  
 STOP(S) - TOTAL NUMBER:   
 SHELTER(S) - TOTAL NUMBER:   
 STATION(S) - TOTAL NUMBER:

MEDIAN REFUGE ISLAND FOR CROSSING PEDESTRIANS  
 TOTAL NUMBER:   
 TOTAL AREA (SF):

CURB EXTENSIONS (BUMPOUTS) AT INTERSECTION(S)  
 TOTAL NUMBER:   
 TOTAL AREA (SF):

ROAD DIET (REDUCING NUMBER OF TRAVEL LANES TO ACCOMMODATE OTHER MODES)  
 TRAVEL LANES BEFORE:   
 TRAVEL LANES AFTER:



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SYSTEM	2ND DES #	LOCATION TYPE	ROAD NAME	BRIDGE #	Map
Local		Bridge	Whiteland Road	85	

[ADD NEW LOCATION]

Proposed Funding Information (\$0)

Upload Cost Estimate Funding History

2ND DES #	SFY (JULY-JUNE)	FUND TYPE - FUND HELP	PE	RW	CN	CE	TOTAL
	2023	LOCAL - Other			\$0	\$0	
	2024	LOCAL - Other			\$0	\$0	
	2026	LOCAL - Other			\$382,613	\$37,892	
	2026	STATE - MPO Federal Exchange (STBG)			\$1,530,455	\$151,568	
		SFY 2023			\$0	\$0	
		SFY 2024			\$0	\$0	
		SFY 2026			\$1,913,068	\$189,460	
		LOCAL - Other			\$382,613	\$37,892	
		STATE - MPO Federal Exchange (STBG)			\$1,530,455	\$151,568	
		GRAND TOTAL			\$1,913,068	\$189,460	

CALCULATE FEDERAL MATCH : %

ESTIMATED TOTAL PROJECT COST IS EQUAL TO TOTAL PROGRAMMED \$

Schedule Info

CURRENT IMPLEMENTATION STATUS	EST LETTING DATE	ACTUAL LETTING DATE	ACTUAL CON LETTING AMT	OPEN TO TRAFFIC	TARGET FINANCIAL CLOSEOUT DATE
No Project Activity	11/05/2025		\$0	7/31/2026	12/31/2026

EST PHASE WORK BEGINS	PE MONTH YEAR	ROW MONTH YEAR	CON MONTH YEAR	CE MONTH YEAR
	DEC 2022	DEC 2023	DEC 2025	DEC 2025

Project Questions [Show all questions]

- None of the questions below apply to this project
- Project is split from another project. The TIP ID is
- Pavement Maintenance/Rehabilitate/Reconstruct:
  - Capital preventive maintenance (CPM)
  - Repave road
  - Rehabilitate road
  - Reconstruct road
  - Pave gravel road
- Bike/Pedestrian improvements (non-motorized) Non-motorized cost 
  - Sidewalk
  - Bike lane
  - Widen shoulder for non-motorized traffic use one side
  - Trail facility within the right of way of the road
- Adding new road. # of lanes:  Blvd (Physical median/divider separates opposing lanes of traffic)?
- Add travel lanes # lanes before:  # lanes after:  New lanes distance (miles):  Blvd (physical median/divider separates opposing lanes of traffic)?



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- Adding a new interchange / major intersection
- Reconfiguring an existing interchange/ major intersection
- Extension of interchange ramp accelaration/deceleration lane. Ramp lane distance (in miles):
- Add roundabout
- Add continuous left-turn lane (miles)
- Add dedicated intersection turn lanes
- Convert existing road to a boulevard
- Includes an ITS component?
- Bridge Project
  - Replace (Same # of lanes)
    - Replacement with additional lanes. # lanes before:  # lanes after:
    - Not replacement (new bridge) # of lanes:
    - Rehabilitation only
  - Road Project ADT Year:  Current ADT:  Current LOS:
  - Other Capacity Improvement
  - This project includes expansion/construction of a transit facility including: bus stops, park & ride, transit center, bike station, LRT/BRT station, etc.
    - This is a park & ride facility. a. Address of facility  b. # of parking spaces at park & ride
  - This project is a vehicle purchase for: # of vehicles purchased 
    - Replacement
    - Expansion - Route #  # of stop  Origin  Destination  Headways
  - This project is a purchase of administrative or operational supplies or equipment
  - This project does not fall into any category. This project is

Change Reason

[All Comments](#)

- COMPLETE PROJECT
- DELETE PROJECT
- DELAY PROJECT
- NEW PROJECT

NARRATIVE - LAST UPDATED: 10/13/2021 - [GUIDANCE](#)

This project will replace Bridge 85 on Whiteland Road, which is currently the second-highest priority bridge replacement project identified in our most recent bridge inspection cycle that is not currently under development. The existing bridge is a two lane, single span, concrete box beam bridge that has advanced deterioration of the deck, superstructure, substructure, and channel. The bridge is currently load posted and has a sufficiency rating of 38.1. Due to the advanced deterioration of the structure, it is requested to replace the structure. The proposed structure will most likely be a single span structure with a length of approximately 45 feet and a width of 44 feet, including 2 12 foot lanes, and 10 foot shoulders. This width is based on IDM Figure 53-7, Urban Arterial Suburban. CN estimate includes \$500k due to potential conflict with CenterPoint 16" high-pressure gas line within easement, though design exceptions will most likely be used to minimize structure width and subsequent impact on the line. Structure width will allow for striping of a bike lane on the north side, though no bike lane exists on the roadway currently.

PROJECT CHANGES (FROM PREVIOUS VERSION):

LOCAL - Other

- ▶ Add funds in SFY 23 in PE for
- ▶ Add funds in SFY 26 in CN for \$382,613 CE for \$37,892
- ▶ Add funds in SFY 24 in RW for

STATE - MPO Federal Exchange (STBG)

- ▶ Add funds in SFY 26 in CN for \$1,530,455 CE for \$151,568

Total project cost

ACCEPTANCE/DENY COMMENTS





Project Tools

Reports

Other Tools

48 12 169

Search Project ID...

Advanced



DES NUM: IMP01702165

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Project Tools

Reports

Other Tools

48 12 169

Search Project ID...

Advanced



DES NUM: IMP01702165

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LAST MODIFIED BY: Luke Mastin LAST MODIFIED DATE: 10/12/2021

TIP Programming

Obligation

Map

Project IDS/Contacts

Documents

Amendment History

Project Delivery

Purchase Order

Enter an address

MAP ADDRESS

Layer:  Roads  Bikeways and Pedestrian Trails

MPA Border  Urban Border



List Selected Routes Measure a Distance

Adjust Segment Start/End

Map Tutorial ?



\*Zoom in further to mark on the map.

SAVE LOCATION

RESET



RMap data ©2021



Project Tools

Reports

Other Tools

48 12 169

Search Project ID...

Advanced



DES NUM: IMP01702165

VERSION: 1

STATUS: In Progress - Application

LAST MODIFIED BY: Luke Mastin LAST MODIFIED DATE: 10/14/2021

TIP Programming

Obligation

Map

Project IDS/Contacts

Documents

Amendment History

Project Delivery

Purchase Order

Project Document

Upload

DOC DATE	DESCRIPTION	TYPE	FILE SIZE	UPLOADED BY	UPLOADED ON	
10/13/2021	Floodplain and Contour Map	Map	1964KB	LMASTIN	10/13/2021	
10/13/2021	Utility Design Ticket	Other	139KB	LMASTIN	10/13/2021	
10/13/2021	Score Sheet	Project Priority Worksheet	656KB	LMASTIN	10/13/2021	
10/13/2021	Commitment Letter	Letter of Local Match Commitment	285KB	LMASTIN	10/13/2021	
10/13/2021	Bridge Typical Section	Other	102KB	LMASTIN	10/13/2021	
10/13/2021	Bridge Inspection Report	Other	3376KB	LMASTIN	10/13/2021	
10/13/2021	Project Scoping and Cost Estimate Worksheet	Other	163KB	LMASTIN	10/13/2021	
10/14/2021	Cost Estimate BF&S	Itemized Cost Estimate	1209KB	LMASTIN	10/14/2021	

UPDATE TYPE(S)

**Indianapolis Regional Transportation Improvement Program  
Project Scoping and Cost Estimating Form**

Agency: Johnson County

Project Title: Bridge 85 Replacement

**1. GENERAL PROJECT INFORMATION**

<b>IMPO Project Number</b>	IMPO1702165
<b>Lead Agency</b>	Johnson County
<b>Project Title</b>	Bridge 85 Replacement
<b>Lead Agency Contact</b>	Lucas Mastin, Highway Supervisor
<b>Alternate Contact</b>	N/A
<b>Primary Project Type</b>	<input type="checkbox"/> Bicycle/Pedestrian <input checked="" type="checkbox"/> Bridge <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Rail <input type="checkbox"/> Road <input type="checkbox"/> Sign <input type="checkbox"/> Road Recons / Rehab / Resurface <input type="checkbox"/> Signal <input type="checkbox"/> Transit <input type="checkbox"/> Other (Describe)

**2. PROJECT DESCRIPTION (Include Project Map with Submittal)**

Project Limits:	1,000 feet (0.19 mi)
Major Project Features	New single-span bridge and related roadway approach work
Typical Section	2-lane bridge with required shoulder widths per IDM
Bicycle/Pedestrian Facilities	Width for bike lane striping on north side of structure
Project Need	Structurally-deficient bridge with a 38.1 sufficiency rating
Project Purpose	Replace structurally-deficient bridge with new structure designed to current standards
Project Scoping Completed ( <i>check items that have been uploaded to MiTIP</i> )	<input type="checkbox"/> Engineering Assessment or Scoping Study <input checked="" type="checkbox"/> Map of Proposed Alignment <input type="checkbox"/> Traffic Forecast <input type="checkbox"/> Traffic Analysis <input type="checkbox"/> Other (Describe)

**3. COST ESTIMATE DATA AND ASSUMPTIONS (Include Cost Estimate with Submittal)**

<b>Unit Cost Sources</b>	INDOT bid unit pricing
<b>Estimated Year of Construction</b>	2026
<b>Annual Escalation Rate</b> ( <i>explanation required if rate differs from that provided by MPO</i> )	2.5% as stipulated for this call
<b>Design Engineering Cost</b>	
<b>Construction Engineering and Testing Costs</b>	\$189,460
<b>Contingency Estimate</b>	\$146,700

**Indianapolis Regional Transportation Improvement Program  
Project Scoping and Cost Estimating Form**

Agency: Johnson County

Project Title: Bridge 85 Replacement

**4. BASE DATA COLLECTION AND SOURCES**

<b>Field Check/Site Visit</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>GIS Data</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Aerial Photography</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Elevation/Contour Mapping</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Field Survey</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Bridge Inspection Reports</b> <i>(include as attachments)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Traffic Counts</b> <i>(include as attachments)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">6,805 vpd, see bridge inspection report</a>

**5. RIGHT OF WAY**

<b>Existing Right of Way</b>	<b>30' total (15' half)</b>
<b>Description</b>	
<b>New Right of Way Required</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Anticipated Relocations</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Right of Way Data Sources</b>	<a href="#">County GIS</a>
<b>Right of Way Cost Sources</b>	<a href="#">Consultant Estimate</a>

**Indianapolis Regional Transportation Improvement Program  
Project Scoping and Cost Estimating Form**

Agency: Johnson County

Project Title: Bridge 85 Replacement

**6. MAJOR PROJECT COMPONENTS**

<b>Earthwork</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Asphalt Pavement</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Concrete Pavement</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Curb and Gutter</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Shoulders</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Enclosed Drainage</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Ditches</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Bridges</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Culverts</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Storm Water Detention</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Traffic Signals/ITS</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Retaining Walls</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Unknown
<b>Railroad Crossings</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Landscaping/Aesthetics</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Signing/Pavement Marking</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Roadway Lighting</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Pedestrian/Bicycle Facilities</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Drives and Access Points</b>	3
<b>Maintenance of Traffic</b>	Road closure with detour
<b>Other Significant Items</b>	Possible conflict with utilities within easements

**Indianapolis Regional Transportation Improvement Program  
Project Scoping and Cost Estimating Form**

Agency: Johnson County

Project Title: Bridge 85 Replacement

**7. ENVIRONMENTAL FEATURES AND ISSUES**

<b>Anticipated SEPA Document</b>	<input checked="" type="checkbox"/> Categorical Exemption Memo <input type="checkbox"/> Environmental Assessment <input type="checkbox"/> Environmental Impact Statement <input type="checkbox"/> Unknown
<b>SEPA Document Status</b>	<input type="checkbox"/> Complete <input type="checkbox"/> Finding of No Significant Impact <input type="checkbox"/> Underway <input checked="" type="checkbox"/> Not Started Actual or anticipated completion date: <a href="#">November 2023</a>
<b>Environmental Investigations Complete</b>	<input type="checkbox"/> Red Flag Investigation (attach if complete) <input type="checkbox"/> Archaeological Records Check <input type="checkbox"/> Historic Properties Records Check <input type="checkbox"/> Noise analysis <input type="checkbox"/> Waters of the US Report
<b>Anticipated Permits</b>	<input checked="" type="checkbox"/> Section 404 Department of the Army Corps of Engineers <input checked="" type="checkbox"/> IDEM Section 401 Water Quality Certification <input checked="" type="checkbox"/> IDEM Rule 5 Stormwater <input type="checkbox"/> IDEM State Isolated Wetlands <input checked="" type="checkbox"/> IDNR Certification of Approval for Construction in a Floodway <input type="checkbox"/> IDNR Certification for Alteration, Demolition, or Removal of Historic Resources <input type="checkbox"/> Local Historic Preservation Commission Approval <input type="checkbox"/> Local Drainage Board Approval <input type="checkbox"/> No permits are required <input type="checkbox"/> Unknown <input type="checkbox"/> Other:
<b>Streams, Wetlands, or Floodplains</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Historic Properties or Districts</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Public Parks or Recreation Areas</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Trails or Pedestrian Facilities</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Cemeteries Within 100 Feet</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Hazardous Materials Sites</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Community Resources</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<b>Environmental Mitigation Measures Defined?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Indianapolis Regional Transportation Improvement Program  
Project Scoping and Cost Estimating Form**

Agency: Johnson County

Project Title: Bridge 85 Replacement

**8. UTILITIES**

Source of Utility Location Information	Indiana 811 Design Ticket		
Have Utility Easements been Checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Source:	County Recorder records
Gas	<input type="checkbox"/> None <input type="checkbox"/> In R/W <input checked="" type="checkbox"/> In Easement	16" line on south side of road, \$500k in CN estimate	
Electric	<input type="checkbox"/> None <input checked="" type="checkbox"/> In R/W <input type="checkbox"/> In Easement		
Telecommunications	<input type="checkbox"/> None <input checked="" type="checkbox"/> In R/W <input type="checkbox"/> In Easement		
Water	<input type="checkbox"/> None <input checked="" type="checkbox"/> In R/W <input type="checkbox"/> In Easement		
Sanitary	<input type="checkbox"/> None <input type="checkbox"/> In R/W <input checked="" type="checkbox"/> In Easement	18" line on north side of road, \$150k in CN estimate	
Railroad	<input checked="" type="checkbox"/> None <input type="checkbox"/> In R/W <input type="checkbox"/> In Easement		
Other	<input checked="" type="checkbox"/> None <input type="checkbox"/> In R/W <input type="checkbox"/> In Easement		

**9. COST ESTIMATE EXCLUSIONS AND NOTES**

**Exclusions and Exceptions:** List items *not included* in the cost estimate; include things people may think are included but are not

**Risks and Uncertainty:** Describe threats and opportunities that could affect the cost estimate significantly.

**Coordination with Gas and Sewer utilities regarding easements.** Design exceptions will likely be used to limit impact on these utilities.

**Reconciliation:** How does the current cost estimate compare to the original planning level estimate provided by the MPO's estimating tool? Explain major differences between the results of the two cost estimates.

**Notes to Reviewer:** Are there additional cost estimating assumptions or conditions that you would like to document?

**10. FORM PREPARER**

Lucas Mastin  
Johnson County Highway Department  
lmastin@co.johnson.in.us  
(317) 346-4630  
10/13/2021





Alignment Looking East (20 Tons)



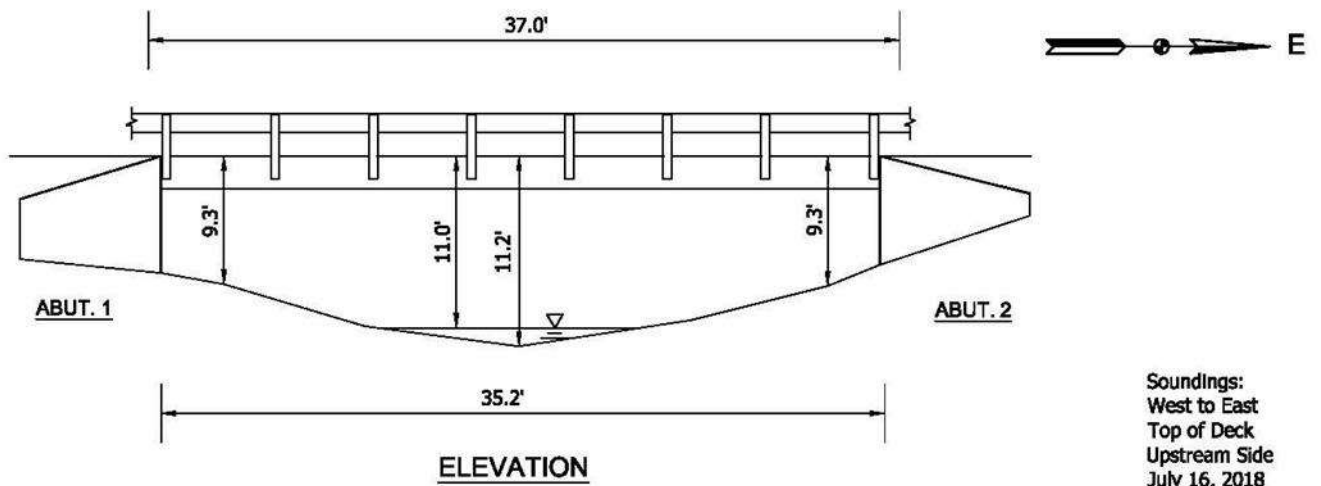
South Elevation



Exposing Steel in Beam 4



Spalling Along North Coping



**JOHNSON COUNTY - BRIDGE NO. 41-00085**  
 CR 500 NORTH over GRASSY CREEK

Inspector: Jonathan Olson  
Inspection Date: 07/07/2021

Asset Name: 41-00085  
Facility Carried: CR 500 NORTH

Bridge Inspection Report

BRIDGE IS POSTED 20 TONS. THE EAST 20 TON POSTING SIGN IS MISSING.

OVERALL THE STRUCTURE IS IN POOR CONDITION. BEAM 1 WAS PATCHED IN 2019 TO REPAIR SPALLS AND A LARGE VOID IN THE SIDE OF THE BEAM. PATCHING APPEARS TO BE HOLDING UP ADEQUATELY. BEAM 6 SPALLED DUE TO GUARDRAIL IMPACT. GUARDRAIL CONNECTIONS HAVE BEEN RETROFITTED WITH STEEL PLATES CONNECTING TO TOP OF BEAMS. ALL BEAMS WITH HEAVY DELAMINATIONS, SPALLS, AND EXPOSED STEEL STIRRUPS AS WELL AS LONGITUDINAL CRACKS. ABUTMENTS WITH MODERATELY SIZED VERTICAL CRACKS AND CORNER DIAGONAL CRACKS WITH LEACHING. HEAVY VEGETATION AROUND BRIDGE.

RECOMMEND REPLACING STRUCTURE WITH A WIDER BRIDGE DUE TO CRITICAL DECK GEOMETRY, BEAM DETERIORATION, AND HIGH ADT.

UNTIL STRUCTURE IS REPLACED, IT IS RECOMMENDED TO PLACE RIPRAP ALONG ABUTMENTS TO PREVENT FURTHER EROSION AND TO CUT BACK OR SPRAY VEGETATION AROUND BRIDGE. IT IS RECOMMENDED TO REPLACE THE EAST 20 TON POSTING SIGN.

Inspector: Jonathan Olson  
Inspection Date: 07/07/2021

Asset Name: 41-00085  
Facility Carried: CR 500 NORTH

Bridge Inspection Report

IDENTIFICATION

(1) STATE CODE:	185 - Indiana	(12) BASE HIGHWAY NETWORK:	0
(8) STRUCTURE:	4100066	(13A) INVENTORY ROUTE:	
(5 A-B-C-D-E) INV. ROUTE:	1 - 4 - 1 - 00038 - 0	(13B) SUBROUTE NUMBER:	
(2) HIGHWAY AGENCY DISTRICT:	05 - Seymour	(16) LATITUDE:	39.54936
(3) COUNTY CODE:	041 - JOHNSON	(17) LONGITUDE:	-86.11108
(4) PLACE CODE:	00000 - N/A	(98) BORDER	
(6) FEATURES INTERSECTED:	GRASSY CREEK	A) STATE NAME:	
(7) FACILITY CARRIED:	CR 500 NORTH	B) PERCENT	%
(9) LOCATION:	0.20 E OF CR 75 W	(99) BORDER BRIDGE STRUCT. NO:	
(11) MILEPOINT:	0000.000		

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN:		(45) NUMBER OF SPANS IN MAIN 001 UNIT:	
A) KIND OF MATERIAL/DESIGN:	5 - Prestressed concrete	(46) NUMBER OF APPROACH SPANS:	0000
B) TYPE OF DESIGN/CONSTR:	05 - Box Beam or Girders - Multiple	(107) DECK STRUCTURE TYPE:	2 - Concrete Precast Panels
(44) STRUCTURE TYPE, APPROACH SPANS:		(108) WEARING SURFACE/PROT SYS:	
A) KIND OF MATERIAL/DESIGN:	0 - Other	A) WEARING SURFACE:	6 - Bituminous
B) TYPE OF DESIGN/CONSTR:	00 - Other	B) DECK MEMBRANE:	0 - None
		C) DECK PROTECTION:	0 - None

AGE OF SERVICE

(27) YEAR BUILT:	1985	(28) LANES:	
(106) YEAR RECONSTRUCTED:	0000	A) ON BRIDGE:	02
(42) TYPE OF SERVICE:		B) UNDER BRIDGE:	00
A) ON BRIDGE:	1 - Highway	(29) AVERAGE DAILY TRAFFIC:	006805
B) UNDER BRIDGE:	5 - Water way	(30) YEAR OF AVERAGE DAILY TRAFFIC:	2016
		(109) AVERAGE DAILY TRUCK TRAFFIC:	05 %
		(19) BYPASS DETOUR LENGTH:	002 MI

Inspector: Jonathan Olson  
 Inspection Date: 07/07/2021

Asset Name: 41-00085  
 Facility Carried: CR 500 NORTH

Bridge Inspection Report

**GEOMETRIC DATA**

(48) LENGTH OF MAX SPAN: 00035.2 FT	(35) STRUCTURE FLARED: 0 - No flare
(49) STRUCTURE LENGTH: 00037.0 FT	(10) INV RTE, MIN VERT CLEARANCE: 99.99 FT
(50) CURB/SIDEWALK WIDTHS:	(47) TOT HORIZ CLEARANCE: 023.6 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: 023.6 FT	A) REFERENCE FEATURE: N
(52) DECK WIDTH, OUT-TO-OUT: 024.1 FT	B) MIN VERT UNDERCLEAR: 0 FT
(32) APPROACH ROADWAY 023.0 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: 000.0 FT

**INSPECTIONS**

(90) INSPECTION DATE: 07/07/2021	(91) DESIGNATED INSPECTION FREQUENCY: 12 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: 4 - Poor Condition (advanced deterioration)	(60) SUBSTRUCTURE: 5 - Fair Condition (minor section loss)
(58.01) WEARING SURFACE: 5 - Fair Condition	(61) CHANNEL/CHANNEL PROTECTION: 5 - Bank eroded.. major damage
(59) SUPERSTRUCTURE: 4 - Poor Condition (advanced deterioration)	(62) CULVERTS: N - Not Applicable

**CONDITION COMMENTS**

(58) DECK: 4 - Poor Condition (advanced deterioration)  
 Comments:  
 SEE SUPERSTRUCTURE COMMENTS.  
 Material:  
 6 - 17" x 48" PRESTRESSED CONCRETE BOX BEAMS

(58.01) WEARING SURFACE: 5 - Fair Condition  
 Comments:  
 HEAVY MAP CRACKING. THICK WEARING SURFACE WHICH IS CRUMBLING AT THE EDGES  
 Material:  
 ASPHALT, 6"

Inspector: Jonathan Olson  
 Inspection Date: 07/07/2021

Asset Name: 41-00085  
 Facility Carried: CR 500 NORTH

Bridge Inspection Report

(59) SUPERSTRUCTURE: 4 - Poor Condition (advanced deterioration)

Comments:

HEAVY SEEPAGE AND LEACHING BETWEEN BEAMS. BEAM 1 WAS SPALLED IN NUMEROUS LOCATIONS BUT WAS PATCHED IN 2019. PATCHES ARE HOLDING UP. BEAM 6 ALSO SPALLED DUE TO GUARDRAIL IMPACT. ALL BEAMS WITH DELAMINATIONS, SPALLS, AND EXPOSED STEEL STIRRUPS AS WELL AS MODERATE LONGITUDINAL CRACKS.

Material:

6 - 17" x 48" PRESTRESSED CONCRETE BOX BEAMS

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

Comments:

NUMEROUS MODERATELY SIZED VERTICAL CRACKS WITH LEACHING IN BOTH ABUTMENTS. DIAGONAL CRACKS AT THE CORNERS.

Material:

CONCRETE ABUTMENTS

(61) CHANNEL/CHANNEL PROTECTION: 5 - Bank eroded.. major damage

Comments:

LITTLE TO NO ABUTMENT PROTECTION. POSSIBLE OLD UNDERPIN VISIBLE AT BOTH ABUTMENTS. NO UNDERMINE.

Material:

NATURAL

(62) CULVERTS: N - Not Applicable

Comments:

**LOAD RATING AND POSTING**

(31) DESIGN LOAD:	0 - Unknown	(66) INVENTORY RATING:	25
(70) BRIDGE POSTING	5 - Equal to or above legal loads	(65) INVENTORY RATING METHOD: 1 - Load Factor (LF)	
(41) STRUCTURE OPEN/POSTED/CLOSED:	P - Posted for Load	(66B) INVENTORY RATING (H):	18
(64) OPERATING RATING:	42	(66C) TONS POSTED :	20
(63) OPERATING RATING METHOD:	1 - Load Factor (LF)	(66D) DATE POSTED/CLOSED:	20-NOV-18

**APPRAISAL**

SUFFICIENCY RATING:	38.1	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	1	36A) BRIDGE RAILINGS:	0
(67) STRUCTURAL EVALUATION:	4	36B) TRANSITIONS:	0
(68) DECK GEOMETRY:	2	36C) APPROACH GUARDRAIL:	0
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	N	36D) APPROACH GUARDRAIL ENDS:	0

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

Comments:

APPEARS ADEQUATE

Inspector: Jonathan Olson  
 Inspection Date: 07/07/2021

Asset Name: 41-00085  
 Facility Carried: CR 500 NORTH

Bridge Inspection Report

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

Comments:  
 STRAIGHT, SLIGHT HUMP AT THE STRUCTURE

(113) SCOUR CRITICAL BRIDGES: 4 - Action is required to protect exposed foundations

Comments:  
 MINOR SCOUR WITH OLDER UNDERPIN EXPOSED, NO PROTECTION.

**CLASSIFICATION**

(20) TOLL:	3 - On Free Road	(21) MAINT. RESPONSIBILITY:	02 - County Highway Agency
(22) OWNER:	02 - County Highway Agency	(26) FUNCTIONAL CLASS OF INVENTORY RTE:	16 - Urban - Minor Arterial
(37) HISTORICAL SIGNIFICANCE:	5 - Not eligible	(100) STRAHNET HIGHWAY:	Not a STRAHNET route
(101) PARALLEL STRUCTURE:	N - No parallel structure	(102) DIRECTION OF TRAFFIC:	2-way traffic
(103) TEMPORARY STRUCTURE:		(104) HIGHWAY SYSTEM OF INVENTORY ROUTE:	0 - Structure/Route is NOT on NHS
(105) FEDERAL LANDS HIGHWAYS:	0-Not Applicable	(110) DESIGNATED NATIONAL NETWORK:	Inventory route not on 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:	31 - Replacement - Load/Geometry	(95) ROADWAY IMPROVEMENT COST:	\$ 000400
(75B) WORK DONE BY:	1 - Work to be done by contract	(96) TOTAL PROJECT COST:	\$ 000800
(76) LENGTH OF IMPROVEMENT:	000060 FT	(97) YR OF IMPROVEMENT COST EST:	2021
(94) BRIDGE IMPROVEMENT COST:	\$ 000400	(114) FUTURE AVG DAILY TRAFFIC:	009251
		(115) YR OF FUTURE ADT:	2036