FHWA-Indiana Environmental Document

CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM

GENERAL PROJECT INFORMATION

Road No./County:	Wells County, State Route (SR) 3
Designation Number(s):	1800051
Project Description/Termini:	This project is a bridge replacement with a 90 feet long single span prestressed concrete girder bridge on SR 3, 2.46 miles north of SR 18. The logical termini of the project extend to the limits of the full depth pavement replacement at either side of the existing bridge.

X	**Categorical Exclusion, Level 2** – Required Signatories: INDOT DE and/or INDOT ESD
	Categorical Exclusion, Level 3 – Required Signatories: INDOT ESD
	Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA
	Environmental Assessment (EA) – Required Signatories: INDOT ESD and FHWA
	Additional Investigation (AI) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority

Approval

INDOT DE Signature and Date

INDOT ESD Signature and Date

FHWA Signature and Date

Release for Public Involvement

INDOT DE Initials and Date

INDOT ESD Initials and Date

Certification of Public Involvement

INDOT Consultant Services Signature and Date

INDOT DE/ESD Reviewer Signature and Date: Madeline Mottler **6/7/2021**

Name and Organization of CE/EA Preparer: Kirk Roth; Corradino, LLC

Note: Refer to the most current INDOT CE Manual, guidance language, and other ESD resources for further guidance regarding any section of this form.

Part I – Public Involvement

Every Federal action requires some level of public involvement, providing for early and continuous opportunities throughout the project development process. **The level of public involvement should be commensurate with the proposed action.**

	Yes	No
Does the project have a historic bridge processed under the Historic Bridges PA*?		X
If No, then:		
Opportunity for a Public Hearing Required?	X	

**A public hearing is required for all historic bridges processed under the Historic Bridges Programmatic Agreement between INDOT, FHWA, SHPO, and the ACHP.*

Discuss what public involvement activities (legal notices, letters to affected property owners and residents (i.e. notice of entry), meetings, special purpose meetings, newspaper articles, etc.) have occurred for this project.

Notice of Entry letters were mailed to potentially affected property owners near the project area on May 1, 2019 notifying them about the project and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Entry letter is included in Appendix G-2 to G-3.

The project will meet the minimum requirements described in the current Indiana Department of Transportation (INDOT) Public Involvement Manual which requires the project sponsor to offer the public an opportunity to submit comments and/or request a public hearing. Therefore, a legal notice will appear in a local publication contingent upon the release of this document for public involvement. This document will be revised after the public involvement requirements are fulfilled.

Public Controversy on Environmental Grounds

Discuss public controversy concerning community and/or natural resource impacts, including what is being done during the project to minimize impacts.

At this time, there is no substantial public controversy concerning impacts to the community or to natural resources.

Part II - General Project Identification, Description, and Design Information

Sponsor of the Project: Indiana Department of Transportation (INDOT) INDOT District: Fort Wayne

Local Name of the Facility: SR 3

Funding Source (*mark all that apply*): Federal [X] State [X] Local [ ] Other* [ ]

*If other is selected, please indentify the funding source: _____

PURPOSE AND NEED:

The need should describe the specific transportation problem or deficiency that the project will address. The purpose should describe the goal or objective of the project. The solution to the traffic problem should NOT be discussed in this section.

Need: The need for this project is due to the deteriorated condition of the existing bridge (003-90-01420C). The superstructure is rated at 4 (poor) and substructure has rating of 5 (fair) on a scale from 0 (failed condition) to 9 (excellent condition) according to the Indiana Department of Transportation (INDOT) Bridge Inspection Report dated April 01, 2019 (Appendix I-2 to I-29). The superstructure is in poor condition with advanced signs of deterioration of beams due to spalling with exposed reinforcing and prestressed strands. The north and south abutments have several vertical cracks throughout. The wooden wingwalls and begun to rot and break. The approach pavement is in good condition, with minor rutting in the wheel paths. The channel flows from SW to NE, and is tree lined on all the sides with moderate erosion along the banks.

Purpose: The purpose of this project is to have a long-term structure with a condition rating of good (7 or above).

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Wells Municipality: Dillman

Limits of Proposed Work: Limits of the full depth pavement replacement at either side of the existing bridge.

Total Work Length: 0.11 Mile(s) Total Work Area: 1.5 Acre(s)

	Yes[1]	No
Is an Interstate Access Document (IAD)[1] required?		X
If yes, when did the FHWA provide a Determination of Engineering and Operational Acceptability?	Date:	

[1] *If an IAD is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IAD.*

Describe location of project including township, range, city, county, roads, etc. Existing conditions should include current conditions, current deficiencies, roadway description, surrounding features, etc. Preferred alternative should include the scope of work, anticipated impacts, and how the project will meet the Purpose and Need. Logical termini and independent utility also need discussed.

Location: The bridge (003-90-01420C) carries SR 3 over Prairie Creek, 2.46 miles north of SR 18. The project is located in Jackson Township near Dillman, Wells County, Indiana, in Section 26 & 27, Township 25 North, Range 10 East (Appendix B-4).

Existing Conditions: The bridge is 37 feet wide by 62 feet span single span pre-stressed concrete box bridge with wooden wingwalls. Structural deficiencies include heavy cracking, spalling, and efflorescence. Prairie Creek flows southwest to northwest through the bridge. The bridge is in a forested area with adjacent agricultural property. Photographs of the bridge are in Appendix B-15 to B-17. The existing typical section for SR 3 at this location is comprised of two 11 feet wide travel lanes, one in each direction, with a 6.5 feet wide paved shoulder. Approximately 125 feet from the structure, the paved shoulder tapers to 1 foot wide. The functional class of SR 3 is a Rural Collector.

Preferred Alternative: The preferred alternate was determined to be a bridge replacement with a 90 feet long, single span prestressed concrete girder bridge. The scope of work includes raising the grade by 1 foot at the structure to maintain the existing structure freeboard. A 34 feet bridge clear roadway width will be provided with 11 feet wide travel lanes and 6 feet wide shoulders. Outside the limits of structure, the shoulder withs will be 6 feet 4 inches in accordance with IDM. Scour protection will be placed on the slope walls of the new structure. Guardrail runs will be updated to current standards in all the quadrants. Prairie Creek will have a temporary cofferdam and dewatering will take place.

The project will require SR 3 to be closed to traffic during construction and a detour will be used for up to 9 months. See the Maintenance of Traffic (MOT) During Construction section of this CE document for specific detour information.

This alternative meets the project's purpose and need by providing a structurally sufficient bridge with a rating of 7 (good) or above. The project demonstrates independent utility because it will improve the function of the bridge as an independent project. The logical termini of the bridge replacement extend to the limits of the full depth pavement replacement at either end of the existing bridge structure, in order to tie the new pavement into the existing pavement. Stage 1 design plans provide details regarding the proposed project improvements (Appendix B-5 to B-12).

OTHER ALTERNATIVES CONSIDERED:

Provide a header for each alternative. Describe all discarded alternatives, including the No Build Alternative. Explain why each discarded alternative was not selected. Make sure to state how each alternative meets or does not meet the Purpose and Need and why.

Structure Replacement (Three Span): Replacing the existing structure with an 80 feet three span slab bridge was considered. However, this alternative was eliminated due to higher construction cost than the preferred alternative. This alternative would have a similar amount of impact to Waters of the U.S. as the preferred alternative.

Rehabilitation Alternative: Rehabilitation of the bridge involving a superstructure replacement and patching of the substructure was considered but eliminated because it was not able to address the structural deficiency of the existing bridge and therefore does not meet the stated purpose. The rehabilitation alternative would have the similar amount of impact to Waters of the U.S. as the preferred alternative.

No-build Alternative: The no-build alternative was considered. The no-build alternative would not impact Waters of the U.S.; however, it does not meet the identified need of the project because it does not provide a bridge with a structure rating of 7 (good).

The No Build Alternative is not feasible, prudent or practicable because (*Mark all that apply*)

It would not correct existing capacity deficiencies;	X
It would not correct existing safety hazards;	
It would not correct the existing roadway geometric deficiencies;	
It would not correct existing deteriorated conditions and maintenance problems; or	X
It would result in serious impacts to the motoring public and general welfare of the economy.	
Other (Describe):	

ROADWAY CHARACTER:

If the proposed action includes multiple roadways, complete and duplicate for each roadway.

Name of Roadway	SR 3				
Functional Classification:	Rural Collector				
Current ADT:	2,989	VPD (2019)	Design Year ADT:	3,606	VPD (2043)
Design Hour Volume (DHV):	337	Truck Percentage (%)	20.54		
Designed Speed (mph):	55	Legal Speed (mph):	55		

	Existing		Proposed	
Number of Lanes:	2		2	
Type of Lanes:	Vehicular – 1 NB, 1 SB		Vehicular – 1 NB, 1 SB	
Pavement Width:	24	ft.	26	ft.
Shoulder Width:	1	ft.	2	ft.
Median Width:	N/A	ft.	N/A	ft.
Sidewalk Width:	N/A	ft.	N/A	ft.

Setting:		Urban		Suburban	X	Rural
Topography:	X	Level		Rolling		Hilly

BRIDGES AND/OR SMALL STRUCTURE(S):

If the proposed action includes multiple structures, complete and duplicate for each bridge and/or small structure. Include both existing and proposed bridge(s) and/or small structure(s) in this section.

Structure/NBI Number(s): 003-90-01420C; NBI Number 001230 Sufficiency Rating: 67.8, 2020 Bridge Inspection Report
(Rating, Source of Information)

	Existing		Proposed	
Bridge/Structure Type:	Concrete Box Bridge		Concrete Girder Bridge	
Number of Spans:	1		1	
Weight Restrictions:	N/A	ton	N/A	ton
Height Restrictions:	N/A	ft.	N/A	ft.
Curb to Curb Width:	35.0	ft.	34.0	ft.
Outside to Outside Width:	37.0	ft.	37.0	ft.
Shoulder Width:	6.5	ft.	6.0	ft.

Describe impacts and work involving bridge(s), culvert(s), pipe(s), and small structure(s). Provide details for small structure(s): structure number, type, size (length and dia.), location and impacts to water. Use a table if the number of small structures becomes large. If the table exceeds a complete page, put it in the appendix and summarize the information below with a citation to the table.

The existing bridge (003-90-01420C; National Bridge Inventory Number 001230), is a 37 feet wide by 60 feet span single span prestressed concrete box bridge with wooden wingwalls. The bridge was built in 1933 and rehabilitated in 1967 and 1979. The latest Historic Bridge Inventory (http://www.in.gov/indot/2531.htm) identified the bridge as non-historic. The project will include the complete removal and replacement of the existing bridge. The existing bridge will be replaced with an 80 feet long, single span prestressed concrete girder bridge.

No additional structures are located within the project area.

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

	Yes	No
Is a temporary bridge proposed?		X
Is a temporary roadway proposed?		X
Will the project involve the use of a detour or require a ramp closure? (describe below)	X	
Provisions will be made for access by local traffic and so posted.	X	
Provisions will be made for through-traffic dependent businesses.	X	
Provisions will be made to accommodate any local special events or festivals.	X	
Will the proposed MOT substantially change the environmental consequences of the action?		X
Is there substantial controversy associated with the proposed method for MOT?		X

Discuss closures and/or facilities (if any) that will be provided for maintenance of traffic. Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wetlands. Any local concerns about access and traffic flow should be detailed as well.

The MOT for the project will require SR 3 to be closed during construction for this project, and a detour route will be signed to maintain traffic. The likely route will include SR 18, SR 5 and SR 218, which adds 15.5 miles or 20 minutes to the route (Appendix B-7 to B-9). The detour is expected to be in place 9 months.

Prairie Creek will be closed for boat traffic. Construction closure signage will be added to the waterway and banks upstream and downstream of project.

The closure will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences such as travel delays will cease upon project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: $ 234,820 (2020) Right-of-Way: $ 20,000 (2022) Construction: $ 977,498 (2023)

Anticipated Start Date of Construction: Spring 2023

RIGHT OF WAY:

Land Use Impacts	Amount (acres) Permanent	Temporary
Residential	0	0
Commercial	0	0
Agricultural	0.06	0
Forest	0.475	0
Wetlands	0.045	0
Other: Stream	0.10	0
Other:		
TOTAL	0.68	0

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition, reacquisition or easements, either known or suspected, and their impacts on the environmental analysis should be discussed.

South of the project, the existing right-of-way is approximately 50 feet east and 50 feet west of centerline SR 3. Within project limits, the existing right-of-way transitions to 35 feet east and 35 feet west of centerline and continues as 70-foot wide to the north. The project requires approximately 0.68 acre of permanent ROW. The proposed permanent ROW will be 70 feet east and 75 feet west of

centerline SR 3. This consists of 0.10 acre of stream, 0.045 acre of wetland, 0.475 acre of wooded, and 0.06 acre of agricultural areas along the existing ROW east and west of SR 3. The project requires no temporary right-of-way. See Appendix B-10 for proposed ROW details.

If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

Part III – Identification and Evaluation of Impacts of the Proposed Action

SECTION A - EARLY COORDINATION:

List the date(s) coordination was sent and all resource agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received.

Early coordination letters were sent to most agencies on July 3, 2019, the U.S. Coast Guard on November 11, 2020, and the Wells County Surveyor on February 26, 2021 (Appendix C-2 to C-4). The INDOT Department of Aviation responded to Section 106 Coordination sent on December 24, 2019.

Agency	Date Sent	Date Response Received	Appendix
Federal Highway Administration	7/3/19	No Response Received	N/A
Indiana Geological and Water Survey (IGWS)	7/3/19	7/3/19	C-11 to C-13
Indiana Department of Natural Resources – Division of Fish and Wildlife (IDNR-DFW)	7/3/19	8/2/19	C-7 to C-10
Indiana Department of Environmental Management (IDEM)	7/3/19	7/3/19	C-19 to C-26
National Park Service	7/3/19	No Response Received	N/A
Indiana Department of Environmental Management – Groundwater Division	7/3/19	7/3/19	N/A
U.S. Department of Housing and Urban Development (HUD)	7/3/19	No Response Received	N/A
Indiana Department of Transportation (INDOT) – Fort Wayne District	7/3/19	No Response Received	N/A
INDOT – Public Involvement Office	7/3/19	7/15/19	C-16
INDOT - Aviation	12/24/19	12/30/19	C-17 to C-18
U.S. Fish and Wildlife Service (USFWS)	7/3/19	7/9/19	C-5 to C-6
Natural Resource Conservation Service (NRCS)	7/3/19	7/16/19	C-14 to C-15
U.S. Army Corps of Engineers (USACE)	7/3/19	No Response Received	N/A
U.S. Coast Guard	11/11/20	No Response Received	N/A
Wells County Surveyor	2/26/21	No Response Received	N/A

All applicable recommendations are included in the Environmental Commitments section of this CE document.

SECTION B – ECOLOGICAL RESOURCES:

	Presence	Impacts	
		Yes	No
Streams, Rivers, Watercourses & Other Jurisdictional Features	X	X	
Federal Wild and Scenic Rivers			
State Natural, Scenic or Recreational Rivers			
Nationwide Rivers Inventory (NRI) listed			
Outstanding Rivers List for Indiana			
Navigable Waterways			

Total stream(s) in project area: 290 Linear feet Total impacted stream(s): 290 Linear feet

Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the US, appendix reference)
Prairie Creek	Perennial	130	130	At project structure; flowing northeast; likely Water of the US; Appendix F-5
UNT to Prairie Creek	Ephemeral	160	160	Northwest quadrant, 25 feet east of Prairie Creek, flowing south; not a likely Water of the US, Appendix F-5

Describe all streams, rivers, watercourses and other jurisdictional features adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if the streams or rivers are listed on any federal or state lists for Indiana. Include if features are subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on a desktop review, the aerial map of the project area (Appendix B-3) and RFI report (Appendix E-3), there is one stream segment located within the 0.5 mile search radius. That number was updated to two stream segments by the site visit on September 13, 2019 by Corradino, LLC. There are two stream segments within the project area.

A Waters of the U.S. Determination report was completed for the project by Corradino, LLC on March 25, 2020. Please refer to Appendix F for the Waters of the U.S. Determination report. It was determined that two streams, Prairie Creek and an unnamed tributary (UNT) to Prairie Creek, located within the project area are apparent jurisdictional Waters of the U.S. (Appendix F-5).

Prairie Creek is a perennial channel that flows southwest through the project bridge and has an ordinary high water mark (OHWM) of approximately 45.0 feet in width and 2.5 feet in depth. The upstream drainage area is 28.7 square miles at the project location (Appendix F-5). Up to 130 linear feet of permanent and 10 linear feet of temporary impacts to Prairie Creek are anticipated. Prairie Creek is a mapped United States Geological Survey (USGS) blue line perennial stream. UNT to Prairie Creek is an ephemeral tributary which encounters Prairie Creek approximately 25 feet east of the Prairie Creek bridge. And has an OHWM of approximately 1.0 foot wide and 0.5 foot deep. Up to 150 linear feet of permanent and 10 linear feet of temporary impacts to UNT to Prairie Creek are anticipated. INDOT acknowledges that UNT to Prairie Creek would likely not meet the definition of a jurisdictional stream, due to its ephemeral status. However, INDOT is requesting that USACE take jurisdiction of this stream. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.

There are no Federal, Wild and Scenic Rivers, State Natural, Scenic and Recreational Rivers, Outstanding Rivers for Indiana, navigable waterways or National Rivers Inventory waterways present within or adjacent to the project area. Therefore, no impacts to these resources are expected.

USFWS responded to early coordination on July 9, 2019 (Appendix C-5 to C-6) and IDNR-DFW responded on August 2, 2019 (Appendix C-7 to C-10). USFWS recommended restrictions to low-water work, utilization of natural substrate if possible, evaluation of wildlife crossing, restriction of channel work to the minimum necessary, minimization to the extent of riprap, and avoidance of all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30). IDNR-DFW recommended measures to minimize impacts to fish, wildlife, and botanical resources or compensate for impacts, including: utilization of natural substrate if possible, bank stabilization, evaluation of wildlife crossing, restriction of channel work to the minimum necessary, minimization to the extent of riprap, mitigation of riparian habitat, avoidance or minimization of impacts due to coffer dams, minimization of channel disturbance due to tree and brush removal, avoidance of excavation in the low flow area if possible, avoidance of construction of temporary structures, operate equipment from the existing roadway, minimum of 6 inch riprap grade for aquatic organism habitat, avoidance of broken concrete used as riprap, soil protection under the riprap, minimization of resuspended sediment, avoidance of materials or debris in the waterway, sediment control at streams, and avoidance of all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30). All applicable recommendations are included in the Environmental Commitments section of this CE document.

Open Water Feature(s)	**Presence**	**Impacts**	
		Yes	**No**
Reservoirs			
Lakes			
Farm Ponds			
Retention/Detention Basin			
Storm Water Management Facilities			
Other: _____			

Describe all open water feature(s) identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area, and the RFI report (Appendix E-3) there are two open water features within the 0.5 mile search radius. That number was confirmed by the site visit on September 13, 2019 by Corradino, LLC. No open water features are present within or adjacent to the project area, therefore, no impacts are expected.

USFWS responded to early coordination on July 9, 2019 (Appendix C-5 to C-6) and IDNR-DFW responded on August 2, 2019 (Appendix C-7 to C-10). USACE did not respond to the early coordination letter. The agencies did not provide recommendations regarding open water features. All applicable recommendations are included in the Environmental Commitments section of this CE document.

	Presence	Impacts Yes	Impacts No
Wetlands	X	X	

Total wetland area: 0.045 Acre(s) Total wetland area impacted: 0.045 Acre(s)

(If a determination has not been made for non-isolated/isolated wetlands, fill in the total wetland area impacted above.)

Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments (i.e. location, likely Water of the US, appendix reference)
1	Palustrine Emergent	0.022	0.022	Southeast quadrant; likely Water of US, Appendix F-6
2	Palustrine Forested	0.023	0.023	Southwest quadrant; likely Water of US, Appendix F-6

Wetlands (*Mark all that apply*)	Documentation	ESD Approval Dates
Wetland Determination	X	**March 25, 2021**
Wetland Delineation	X	**March 25, 2021**
USACE Isolated Waters Determination		

Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain):

Substantial adverse impacts to adjacent homes, business or other improved properties;	
Substantially increased project costs;	
Unique engineering, traffic, maintenance, or safety problems;	
Substantial adverse social, economic, or environmental impacts, or	
The project not meeting the identified needs.	X

Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area, and the RFI report (Appendix E-3), there are nine National Wetland Inventory (NWI) wetlands and, eleven NWI lines located within the 0.5 mile search radius of the project area. That number was confirmed by the site visit on September 13, 2019 by Corradino, LLC. There are two wetlands present within or adjacent to the project area.

A Waters of the U.S. Determination report was completed for the project on March 25, 2021 Please refer to Appendix F for the Waters of the U.S. Determination report. It was determined that there are two wetlands within the project area. Wetland 1 is a palustrine emergent wetland in and adjacent to a ditch in the southeast quadrant. It was dominated by reed canarygrass (*Phalaris arundinacea*), exhibited hydric soil indicator F6 (Redox Dark Surface), and hydrology indicators including water-stained leaves, drainage pattern, and geomorphic position. Wetland 1 is considered a poor quality wetland due to its small size and presence of invasive exotic vegetation. Wetland 1 extends from Prairie Creek at its southeast wingwall southward outside the project area. Approximately 0.022 acre of Wetland 1 may be impacted. Wetland 2 is a palustrine forested depression in the southwest quadrant of the project area. It was dominated by green ash (*Fraxinus pennsylvanica*), boxelder (*Acer negundo*), and scouringrush horsetail (*Equisetum hyemale*), exhibited hydric soil indicator F6 (Redox Dark Surface), and hydrology indicators including water-stained leaves, drainage pattern, geomorphic position, and FAC-neutral test. Wetland 2 is considered an average quality wetland due to its large size and presence of canopy cover but limited botanical diversity and hydrologic function. Wetland 2 extends from Prairie Creek to the tow of the slope to SR 3. Approximately 0.023 acre of Wetland 2 may be impacted. Impacts to wetlands have been reduced to the extent practicable while still achieving the need of the project. The USACE makes all final determinations regarding jurisdiction.

There is no practicable alternative to the proposed new construction in wetlands and the proposed action includes all practicable measures to minimize harm to wetlands which may result from such use. FHWA approval of this document will constitute approval of the adverse impacts to wetlands.

USFWS responded to early coordination on July 9, 2019 (Appendix C-5 to C-6) and IDNR-DFW responded on August 2, 2019 (Appendix C-7 to C-10). USFWS did not include recommendations for wetlands. IDNR-DFW recommended avoidance of excavation or fill in riparian wetlands and coordination with the Indiana Department of Environmental Management (IDEM) and USACE for any wetland impacts. All applicable recommendations are included in the Environmental Commitments section of this CE document.

	Presence	Impacts	
		Yes	No
Terrestrial Habitat	X	X	

Total terrestrial habitat in project area: 1.5 Acre(s) Total tree clearing: 0.70 Acre(s)

Describe types of terrestrial habitat (i.e. forested, grassland, farmland, lawn, etc.) adjacent or within the project area. Include whether or not impacts will occur to habitat identified. Include total terrestrial habitat impacted and total tree clearing that will occur. Discuss measure to avoid, minimize, and mitigate if impacts will occur.

Based on a desktop review, a site visit by Corradino, LLC on September 13, 2019, the aerial map of the project area (Appendix B-3) there are woodlands within the project area. Dominant species include green ash (*Fraxinus pensylvanica*), boxelder (*Acer negundo*), common pawpaw (*Asimina triloba*) and scouringrush horsetail (*Equisetum hyemale*). Approximately 0.70 acres of impacts, including tree clearing, are expected to this habitat. Disturbance to wooded areas have been reduced to the extent practicable and mitigation is not anticipated. There is also grassy roadside habitat within the project area. Dominant species include tall fescue (*Schedonorus arundinaceus*), Japanese bristlegrass (*Setaria faberi*) and common dandelion (*Taraxacum officinale*). Approximately 0.40 acres of impacts are expected to this habitat. Approximately 1.50 acre of total soil disturbance is expected.

USFWS responded to early coordination on July 9, 2019 (Appendix C-5 to C-6) and did not give recommendations regarding terrestrial habitat. IDNR-DFW responded on August 2, 2019 (Appendix C-7 to C-10) with recommendations to minimize clearing of trees and brush and to revegetate using native species. IDNR-DFW provided recommendations regarding tree clearing, mitigation, and erosion control. Online coordination with IDEM occurred on July 9, 2019 (Appendix C-19 to C-26) and no recommendations regarding terrestrial habitat were included. All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this CE document.

Protected Species

Federally Listed Bats	**Yes**	**No**
Information for Planning and Consultation (IPaC) determination key completed	X	
Section 7 informal consultation completed (IPaC cannot be completed)		X
Section 7 formal consultation Biological Assessment (BA) required		X

Determination Received for Listed Bats from USFWS: NE [ ] NLAA [X] LAA [ ]

Other Species not included in IPaC	**Yes**	**No**
Additional federal species found in project area (based on IPaC species list)		X
State species (not bird) found in project area (based upon consultation with IDNR)		X

Migratory Birds	**Yes**	**No**
Known usage or presence of birds (i.e. nests)		X
State bird species based upon coordination with IDNR		X

Discuss IDNR coordination and species identified. Describe USFWS Section 7 consultation and determination received for Indiana bat and northern long-eared bat impacts. Discuss if other federally listed species were identified. If so, include consultation that has occurred and the determination that was received. Discuss if migratory birds have been observed and any impacts.

Based on a desktop review and the RFI report (Appendix E-2), completed by Corradino, LLC on September 16, 2019, the IDNR Wells County Endangered, Threatened and Rare (ETR) Species List has been checked and is included in Appendix E-11. The highlighted species on the list reflect the federal and state identified ETR species located within the county. According to the IDNR-DFW early coordination response letter dated August 2, 2019 (Appendix C-7), the Natural Heritage Program's Database has been checked and no ETR species or High-Quality natural areas were found within 0.5 mile of the project area. IDNR-DFW recommends that work either not take place between May 7 and September 7 nesting season for species protected under the Migratory Bird Treaty Act (MBTA) or that bridges be surveyed for nests during those dates prior to construction and repairs be put on hold until the nest cycle is completed. IDNR-DFW also recommends restricting bridge maintenance activities to the period between November 1 and March 1 to avoid the summer roosting period for bats and that the bridge be inspected for bat use to confirm bat absence before any work. IDNR-DFW recommends not cutting trees suitable for Indiana bat (*Myotis sodalis*) or northern long-eared bat (NLEB) (*Myotis septentrionalis*) roosting from April 1 through September 30.

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C-27 to C-31). The project is within range of the federally endangered Indiana bat and the federally threatened NLEB. No additional species were found within or adjacent to the project area other than the Indiana Bat and NLEB.

The project qualifies for the Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB), dated May 2016 (revised February 2018), between the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and USFWS. A bridge inspection occurred on March 22, 2021 and no bats or evidence of bats was observed on the structure (Appendix C-45-47). An effect determination key was completed on March 25, 2021, and based on the responses provided, the project was found to "may affect – not likely to adversely affect" the Indiana bat and/or the NLEB (Appendix C-32). INDOT reviewed and verified the effect finding on March 25, 2021 and requested USFWS's review of the finding. No response was received from USFWS within the 14-day review period; therefore, it was concluded they concur with the finding. Avoidance and Mitigation Measures (AMMs) are included as firm commitments in the Environmental Commitments section of this document.

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act, as amended. If new information on endangered species at the site becomes available, or if project plans are changed, USFWS will be contacted for consultation.

Geological and Mineral Resources	**Yes**	**No**
Project located within the Potential Karst Features Area of Indiana		X
Karst features identified within or adjacent to the project area		X
Oil/gas or exploration/abandoned wells identified in the project area		X

Date Karst Study/Report reviewed by INDOT EWPO (if applicable): _____

Discuss if project is located in Potential Karst Features Area of Indiana and if any karst features have been identified in the project area (from RFI). Discuss response received from IGWS coordination. Discuss if any mines, oil/gas, or exploration/abandoned wells were identified and if impacts will occur. Describe if any impacts will occur to any karst features. Include discussion of karst study/report was completed and results. (Karst investigation must comply with the current Karst MOU and coordinated and reviewed by INDOT EWPO)

Based on a desktop review, the proposed project is located outside the designated karst region of Indiana as outlined in the October 13, 1993 Memorandum of Understanding (MOU). According to the topographic map of the project area (Appendix B-4) and the RFI report (Appendix E-3), there are no karst features identified within the project area. In the early coordination response on July 3, 2019, the IGWS did not indicate that karst features exist in the project area (Appendix C-11 to C-13). IGWS identified the project area as having moderate liquefaction potential, a high potential as a bedrock resource, low potential as a sand and gravel resource, and having petroleum exploration wells nearby (Appendix C-11). The features will not be affected because the project does not to have excavation deep enough to impact bedrock or liquefaction potential and is far enough from any mineral resources to not have an impact. Response from IGWS has been communicated with the designer on July 3, 2019. No impacts are expected.

SECTION C – OTHER RESOURCES

Drinking Water Resources	Presence	Impacts Yes	Impacts No
Wellhead Protection Area(s)			
Source Water Protection Area(s)			
Water Well(s)			
Urbanized Area Boundary			
Public Water System(s)			

	Yes	No
Is the project located in the St. Joseph Sole Source Aquifer (SSA):		X
If Yes, is the FHWA/EPA SSA MOU Applicable?		
If Yes, is a Groundwater Assessment Required?		

Check the appropriate boxes and discuss each topic below. Provide details about impacts and summarize resource-specific coordination responses and any mitigation commitments. Reference responses in the Appendix.

The project is located in Wells County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/U.S. Environmental Protection Agency (EPA) Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project. Therefore, a detailed groundwater assessment is not needed and no impacts are expected.

IDEM's Wellhead Protection Proximity Determinator website (http://www.in.gov/idem/cleanwater /pages/wellhead/) was accessed on February 17, 2021 by Corradino, LLC. This project is not located within a Wellhead Protection Area or Source Water Area. No impacts are expected.

The Indiana Department of Natural Resources Water Well Record Database Website (https://www.in.gov/dnr/water/3595.htm) was accessed on February 17, 2021 by Corradino, LLC. The nearest well is 0.2 mile outside the project area. The features will not be affected because no wells are located within this project and water and soil impacts are to be contained within the project area. Therefore, no impacts are expected. Should it be determined during the right-of-way phase that these wells are affected, a cost to cure will likely be included in the appraisal to restore the wells.

Based on a desktop review of the INDOT Municipal Separate Storm Sewer Systems (MS4) website (https://entapps.indot.in.gov/MS4/) by Corradino, LLC on April 15, 2019 and the RFI report; this project is not located in an Urban Area Boundary location. No impacts are expected.

Based on a desktop review, a site visit on September 13, 2019 by Corradino, LLC, the aerial map of the project area (Appendix B-3), no public water systems were identified. Therefore, no impacts are expected.

Floodplains	Presence	Impacts Yes	Impacts No
Project located within a regulated floodplain	X	X	
Longitudinal encroachment			
Transverse encroachment	X	X	
Homes located in floodplain within 1000' up/downstream from project			

If applicable, indicate the Floodplain Level?

Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [X] Level 5 [ ]

Use the IDNR Floodway Information Portal to help determine potential impacts. Include floodplain map in appendix. Discuss impacts according to the classification system. If encroachment on a flood plain will occur, coordinate with the Local Flood Plain Administrator during design to insure consistency with the local flood plain planning.

Based on the desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (http://dnrmaps.dnr.in.gov/appsphp/fdms/) by Corradino, LLC on January 27, 2020, and the RFI report (Appendix E-3), this project is located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F-14). An early coordination letter was sent on February 26, 2021 to the local Floodplain Administrator, the Wells County Surveyor and no response was received during the 30 day coordination period. This project qualifies as a Category 4 per the INDOT CE Manual which states "No homes are located within the base floodplain within 1,000 feet upstream and no homes are located within the base floodplain within 1,000 feet downstream. The proposed structure will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial adverse impacts on natural and beneficial floodplain values; there will be no substantial change in flood risks; and there will be no substantial increase in potential for interruption or termination of emergency service or emergency evacuation routes; therefore, it has been determined that this encroachment is not substantial. A hydraulic design study that addresses various structure size alternates will be completed during the preliminary design phase. A summary of this study will be included with the Field Check Plans."

	Presence	Impacts	
Farmland		Yes	No
Agricultural Lands	X	X	
Prime Farmland (per NRCS)	X	X	

Total Points (from Section VII of CPA-106/AD-1006*) **64**

**If 160 or greater, see CE Manual for guidance.*

Discuss existing farmland resources in the project area, impacts that will occur to farmland, and mitigation and minimization measures considered.

Based on a desktop review, a site visit on September 13, 2019 by Corradino, LLC, the aerial map of the project area (Appendix B-3) the project will convert 0.06 acre of farmland as defined by the Farmland Protection Policy Act. An early coordination letter was sent on July 3, 2019 to Natural Resources Conservation Services (NRCS). Coordination with NRCS resulted in a score of 64 on the NRCS AD-1006 form (Appendix C-15). Note that at the time of coordination, ROW requirements had not been refined and so 1.3 acre of impacts was assumed. NRCS's threshold score for significant impacts to farmland that result in the consideration of alternatives is 160. Since this project score is less than the threshold, no significant loss of prime, unique, statewide, or local important farmland will result from this project. No alternatives other than those previously discussed in this document will be investigated without reevaluating impacts to prime farmland.

SECTION D – CULTURAL RESOURCES

	Category(ies) and Type(s)	INDOT Approval Date(s)	N/A
Minor Projects PA	B-4; B-12	January 15, 2020	

Full 106 Effect Finding

No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect ☐

Eligible and/or Listed Resources Present

NRHP Building/Site/District(s) ☐ Archaeology ☐ NRHP Bridge(s) ☐

Indiana Department of Transportation

County Wells Route State Route 3 Des. No. 1800051

Documentation Prepared (mark all that apply)		**ESD Approval Date(s)**	**SHPO Approval Date(s)**
APE, Eligibility and Effect Determination			
800.11 Documentation			
Historic Properties Report or Short Report			
Archaeological Records Check and Assessment			
Archaeological Phase Ia Survey Report			
Archaeological Phase Ic Survey Report			
Other:			

		MOA Signature Dates (List all signatories)
Memorandum of Agreement (MOA)		

If the project falls under the MPPA, describe the category(ies) that the project falls under and any approval dates. If the project requires full Section 106, use the headings provided. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of the paper(s) and the comment period deadline. Include any further Section 106 work which must be completed at a later date, such as mitigation from a MOA or avoidance commitments.

On January 15, 2020, the INDOT Cultural Resources Office (CRO) determined that this project falls within the guidelines of Category B, Types 4 and 12 under the Minor Projects Programmatic Agreement. Category B-4 is for installation of new safety appurtenances under the conditions that work that occurs in previously disturbed soils and the work does not occur adjacent to or within a National Register listed or eligible district or individual above-ground resource. Category B-12 is for replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed) under the condition that work occurs in undisturbed soils and an archaeological investigation determines that no Natural Register listed or eligible archaeological resources are present within the area and that the bridge was built after 1945 and is a common type as defined in Section V of the Program Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges issued by the Advisory Council on Historic Preservation on November 2, 2012 (Appendix D-4).

The project area was previously examined for archaeological resources by INDOT CRO in 2009. No archaeological sites were identified and no further work was recommended (Appendix D-4). No archaeological sites have been recorded in or adjacent to the project area since the 2009 investigation. Therefore, there are no archaeological concerns.

No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.

SECTION E – SECTION 4(f) RESOURCES/ SECTION 6(f) RESOURCES

	Presence	Use	
Parks and Other Recreational Land		Yes	No
Publicly owned park			
Publicly owned recreation area			
Other (school, state/national forest, bikeway, etc.)			
Wildlife and Waterfowl Refuges			
National Wildlife Refuge			
National Natural Landmark			
State Wildlife Area			
State Nature Preserve			
Historic Properties			
Site eligible and/or listed on the NRHP			

	Evaluations Prepared
Programmatic Section 4(f)	
"De minimis" Impact	
Individual Section 4(f)	
Any exception included in 23 CFR 774.13	

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the discussion below. Individual Section 4(f) documentation must be included in the appendix and summarized below. Discuss proposed alternatives that satisfy the requirements of Section 4(f). FHWA has identified various exceptions to the requirement for Section 4(f) approval. Refer to 23 CFR § 774.13 - Exceptions.

Section 4(f) of the U.S. Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife/waterfowl refuges, and NRHP eligible or listed historic properties regardless of ownership. Lands subject to this law are considered Section 4(f) resources.

Based on a desktop review, a site visit on September 13, 2019 by Corradino, LLC, the aerial map of the project area (Appendix B-3), and the RFI report (Appendix E-3) there are no Section 4(f) resources within or adjacent to the project area. Therefore, no impacts are expected.

Section 6(f) Involvement	Presence	Use	
		Yes	No
Section 6(f) Property			

Discuss Section 6(f) resources present or not present. Discuss if any conversion would occur as a result of this project. If conversion will occur, discuss the conversion approval.

The U.S. Land and Water Conservation Fund Act of 1965 established the Land and Water Conservation Fund (LWCF), which was created to preserve, develop, and assure accessibility to outdoor recreation resources. Section 6(f) of this Act prohibits conversion of lands purchased with LWCF monies to a non-recreation use.

A review of 6(f) properties on the Land and Water Conservation Fund (LWCF) property list dated July 2020 revealed a total of 12 properties in Wells County (Appendix I-30). None of these properties are located within or adjacent to the project area. Therefore, there will be no impacts to 6(f) resources.

SECTION F – Air Quality

STIP/TIP and Conformity Status of the Project	Yes	No
Is the project in the most current STIP/TIP?	X	
Is the project located in an MPO Area?		X
Is the project in an air quality non-attainment or maintenance area?		X
If Yes, then:		
Is the project in the most current MPO TIP?		
Is the project exempt from conformity?		
If No, then:		
Is the project in the Transportation Plan (TP)?	X	
Is a hot spot analysis required (CO/PM)?		X

Location in STIP: Initial 2020-2024 STIP

Name of MPO (if applicable):

Location in TIP (if applicable):

Level of MSAT Analysis required?

Level 1a [X] Level 1b [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] Level 5 [ ]

Describe if the project is listed in the STIP and if it is in a TIP. Describe the attainment status of the county(ies) where the project is located. Indicate whether the project is exempt from a conformity determination. If the project is not exempt, include information about the TP and TIP. Describe if a hot spot analysis is required and the MSAT Level.

The project is included in the Fiscal Year (FY) 2020-2024 Statewide Transportation Improvement Program (STIP) (Appendix H-2).

This project is located in Wells County which is currently in attainment for all criteria pollutants according to IDEM (https://www.in.gov/idem/airquality/files/nonattainment_areas_map.pdf). Therefore, the conformity procedures of 40 CFR Part 93 do not apply.

This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c), or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such, a Mobile Source Air Toxics analysis is not required.

SECTION G - NOISE

Noise	Yes	No
Is a noise analysis required in accordance with FHWA regulations and INDOT's traffic noise policy?		X

Date Noise Analysis was approved/technically sufficient by INDOT ESD:

Describe if the project is a Type I or Type III project. If it is a Type I project, describe the studies completed to date and if noise impacts were identified. If noise impacts were identified, describe if abatement is feasible and reasonable and include a statement of likelihood.

This project is a Type III project. In accordance with 23 CFR 772 and the current Indiana Department of Transportation Traffic Noise Analysis Procedure, this action does not require a formal noise analysis.

SECTION H – COMMUNITY IMPACTS

Regional, Community & Neighborhood Factors	Yes	No
Will the proposed action comply with the local/regional development patterns for the area?	X	
Will the proposed action result in substantial impacts to community cohesion?		X
Will the proposed action result in substantial impacts to local tax base or property values?		X
Will construction activities impact community events (festivals, fairs, etc.)?		X
Does the community have an approved transition plan?	X	
If No, are steps being made to advance the community's transition plan?		
Does the project comply with the transition plan? (explain in the discussion below)	X	

Discuss how the project complies with the area's local/regional development patterns; whether the project will impact community cohesion; and impact community events. Discuss how the project conforms with the ADA Transition Plan.

The road closure will cause temporary impacts for approximately 9 months. SR 3 will be subject to a signed detour and commuters may be affected by temporary impacts such as added travel time A likely route will include SR 18, SR 5 and SR 218, which adds 15.5 miles or 20 minutes to the route (Appendix B-7 to B-9). Disruptions to services such as school transport and emergency services may occur due to this project. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction activity that would block or limit access.

The project is expected to result in positive community impacts by improving the deteriorated condition of the existing structure and thereby alleviating a potential drainage and safety issue. The proposed action is not expected to conflict with development patterns or have substantial impacts to property values. The project is not expected to affect American Disabilities Act (ADA) facilities in any way.

Public Facilities and Services

Discuss what public facilities and services are present in the project area and impacts (such as MOT) that will occur to them. Include how the impacts have been minimized and what coordination has occurred. Some examples of public facilities and services include health facilities, educational facilities, public and private utilities, emergency services, religious institutions, airports, transportation or public pedestrian and bicycle facilities.

Based on a desktop review, the aerial map of the project area (Appendix B-3), and the Red Flag Investigation (RFI) report (Appendix E-3) there are one recreational facility and one cemetery within the 0.5 mile search radius. That number was confirmed by a site visit on May 27, 2020 by Corradino, LLC. There are no public facilities within or adjacent to the project area, therefore no impacts are expected. Access to all properties will be maintained during construction.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

Environmental Justice (EJ) (Presidential EO 12898)	Yes	No
During the development of the project were EJ issues identified?		
Does the project require an EJ analysis?	X	
If YES, then:		
Are any EJ populations located within the project area?		X
Will the project result in adversely high and disproportionate impacts to EJ populations?		X

Indicate if EJ issues were identified during project development. If an EJ analysis was not required, discuss why. If an EJ analysis was required, describe how the EJ population was identified. Include if the project has a disproportionately high and adverse effect on EJ populations and explain your reasoning. If yes, describe actions to avoid, minimize and mitigate these effects.

Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will 0.68 acre of additional permanent right-of-way. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, the COC is Wells County. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tract 407. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the U.S. Census Bureau 2011-2015 American Community Survey was obtained from the U.S. Census Bureau website (https://data.census.gov/cedsci) on April 9, 2021 by Corradino, LLC. The data collected for minority and low-income populations within the AC are summarized in the below table.

	COC – Wells County, Indiana	AC – Census Tract 407
Percent Minority	5.65%	4.91%
125% of COC	7.06%	AC < 125% COC
EJ Population of Concern		No
Percent Low-Income	8.42%	3.29%
125% of COC	10.52%	AC < 125% COC
EJ Population of Concern		No

The AC Census Tract 407 has a percent minority of 4.91% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain minority populations of EJ concern.

The AC Census Tract 407 has a percent low-income of 3.29% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain low income populations of EJ concern.

The census data sheets, map, and calculations can be found in Appendix I-31 to I-32. No further environmental justice analysis is warranted.

Relocation of People, Businesses or Farms	**Yes**	**No**
Will the proposed action result in the relocation of people, businesses or farms?		X
Is a BIS or CSRS required?		X

Number of relocations: Residences: 0 Businesses: 0 Farms: 0 Other: 0

Discuss any relocations that will occur due to the project. If a BIS or CSRS is required, discuss the results in the discussion below.

No relocations of people, businesses, or farms will take place as a result of this project.

SECTION I – HAZARDOUS MATERIALS & REGULATED SUBSTANCES

Hazardous Materials & Regulated Substances (Mark all that apply)	**Documentation**
Red Flag Investigation (RFI)	X
Phase I Environmental Site Assessment (Phase I ESA)	
Phase II Environmental Site Assessment (Phase II ESA)	
Design/Specifications for Remediation required?	

Date RFI concurrence by INDOT SAM (if applicable): October 2, 2019

Include a summary of the potential hazardous material concerns found during review. Discuss in depth sites found within, directly adjacent to, or ones that could impact the project area. Refer to current INDOT SAM guidance. If additional documentation (special provisions, pay quantities, etc.) will be needed, include in discussion. Include applicable commitments.

Based on a review of Geographic Information System (GIS) and available public records from IDEM's Virtual File Cabinet (https://vfc.idem.in.gov/DocumentSearch.aspx), a RFI report was completed on September 16, 2019 by Corradino, LLC (Appendix E). No sites with hazardous material concerns (hazmat sites) or sites involved with regulated substances were identified in or within 0.5 mile of the project area. Further investigation for hazmat sites or regulated substances is not required at this time.

Part IV – Permits and Commitments

PERMITS CHECKLIST

Permits (mark all that apply)	**Likely Required**
Army Corps of Engineers (404/Section10 Permit)	
Nationwide Permit (NWP)	
Regional General Permit (RGP)	X
Individual Permit (IP)	
Other	
IN Department of Environmental Management (401/Rule 5)	
Nationwide Permit (NWP)	X
Regional General Permit (RGP)	
Individual Permit (IP)	
Isolated Wetlands	
Rule 5	X
Other	
IN Department of Natural Resources	
Construction in a Floodway	
Navigable Waterway Permit	
Other	
Mitigation Required	
US Coast Guard Section 9 Bridge Permit	
Others (Please discuss in the discussion below)	

List the permits likely required for the project and summarize why the permits are needed, including permits designated as "Other."

Prairie Creek, UNT to Prairie Creek, Wetland 1, and Wetland 2 were identified as jurisdictional waterways in the Waters of the U.S. Determination report. INDOT acknowledges that UNT to Prairie Creek would likely not meet the definition of a jurisdictional stream, due to its ephemeral status. However, INDOT is requesting that USACE take jurisdiction of this stream. A Section 404 Permit from USACE and a Section 401 Water Quality Certification from IDEM will be required for approximately 300 linear feet of stream impact (280 linear feet permanent and 20 linear feet temporary) and 0.045 acre of wetland impact.

An IDEM Rule 5 Storm Water Runoff permit will be required for 1.5 acre of soil disturbance.

Applicable recommendations provided by resource agencies are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

ENVIRONMENTAL COMMITMENTS

List all commitments and include the name of agency/organization requesting/requiring the commitment(s). Listed commitments should be numbered.

Firm:

1. If the scope of work and/or permanent or temporary right-of-way amounts change, INDOT Environmental Services Division and the Fort Wayne District Design/Environmental Manager will be contacted immediately. (INDOT ESD and INDOT Fort Wayne District)
2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction activity that would block or limit access. (INDOT ESD)
3. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)
4. Bridge 001-24-00041A has not shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the September 13, 2019 inspection. However, the structure is located over or near water which is preferred habitat for migratory birds. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 – April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 – September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure USP." (INDOT ESD)
5. USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after September 13, 2021, an inspection of the structure by a qualified individual, must be performed. Inspection of the structure should check for presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds. If signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately (USFWS)
6. General AMM1 – Ensure all employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
7. Lighting AMM1 – Direct temporary lighting away from suitable habitat during the active season. (USFWS)
8. Tree Removal AMM1 – Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
9. Tree Removal AMM2 - Apply time of year restrictions (September 30 through April 1) for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS)
10. Tree Removal AMM3 - Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
11. Tree Removal AMM4 - Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)

For Consideration:

1. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap (USFWS).
2. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If rip rap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS).
3. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below the Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
4. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)
5. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Riprap may be used only at the toe of the side slopes up to the ordinary high water mark (OHWM). The banks above the OHWM must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Wells County and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR-DFW).
6. Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10 inches dbh or greater (5:1 mitigation based on the number of large trees). (IDNR-DFW)
7. If possible, the project design should avoid inclusion of a cofferdam. If a cofferdam is deemed critical for the construction to occur, please submit a justification for the necessity of the cofferdam with any permit application. (IDNR-DFW)
8. Do not cut any trees suitable for Indiana bat or northern long-eared bat roosting from April 1 through September 30. [RSP 107-B-040] (IDNR-DFW)
9. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure. (IDNR-DFW)
10. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR-DFW)
11. Do not construct any temporary runarounds or causeways. (IDNR-DFW)
12. Operate equipment used to replace the bridge from the existing roadway. (IDNR-DFW)

Table of Contents for Appendix Items

APPENDIX A

INDOT Supporting Documentation

DES 1800051

Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4[1]
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement[2]
Stream Impacts	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way[3]	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs[4] or with AMMs required for all projects[5])	"Not likely to Adversely Affect" (With any other AMMs)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	"No Effect", ""Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential[6]
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	-	-	-	Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes[7]
Approval Level • **District Env. Supervisor** • **Env. Services Division** • **FHWA**	Concurrence by INDOT District Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes

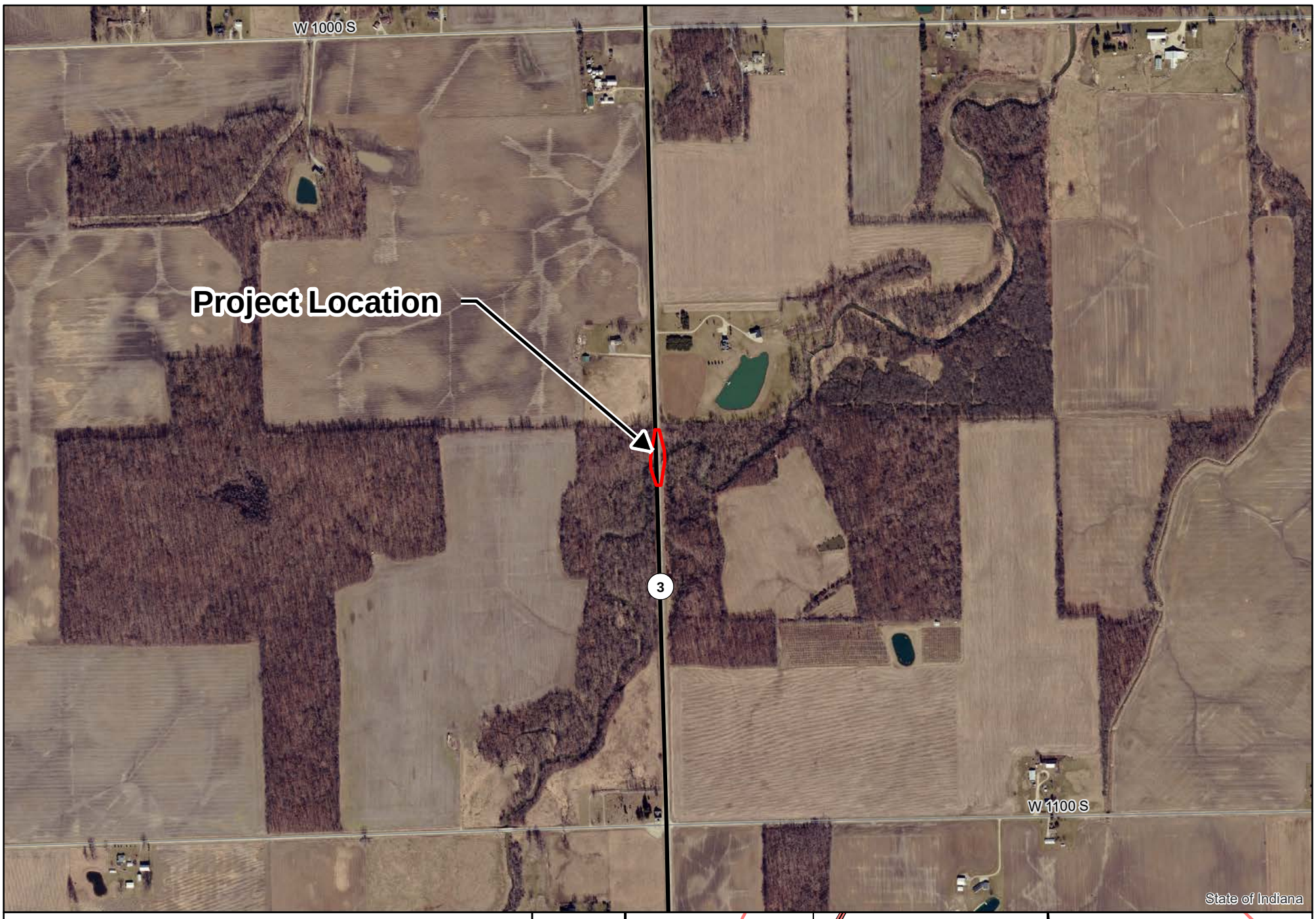
[1]Coordinate with INDOT Environmental Services. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.
[2]Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.
[3]Permanent and/or temporary right-of-way.
[4]AMMs = Avoidance and Mitigation Measures.
[5]AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation for Indiana bat and Northern long-eared bat* as "required for all projects".
[6]Potential for causing a disproportionately high and adverse impact.
[7]Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.
*Substantial public or agency controversy may require a higher-level NEPA document.

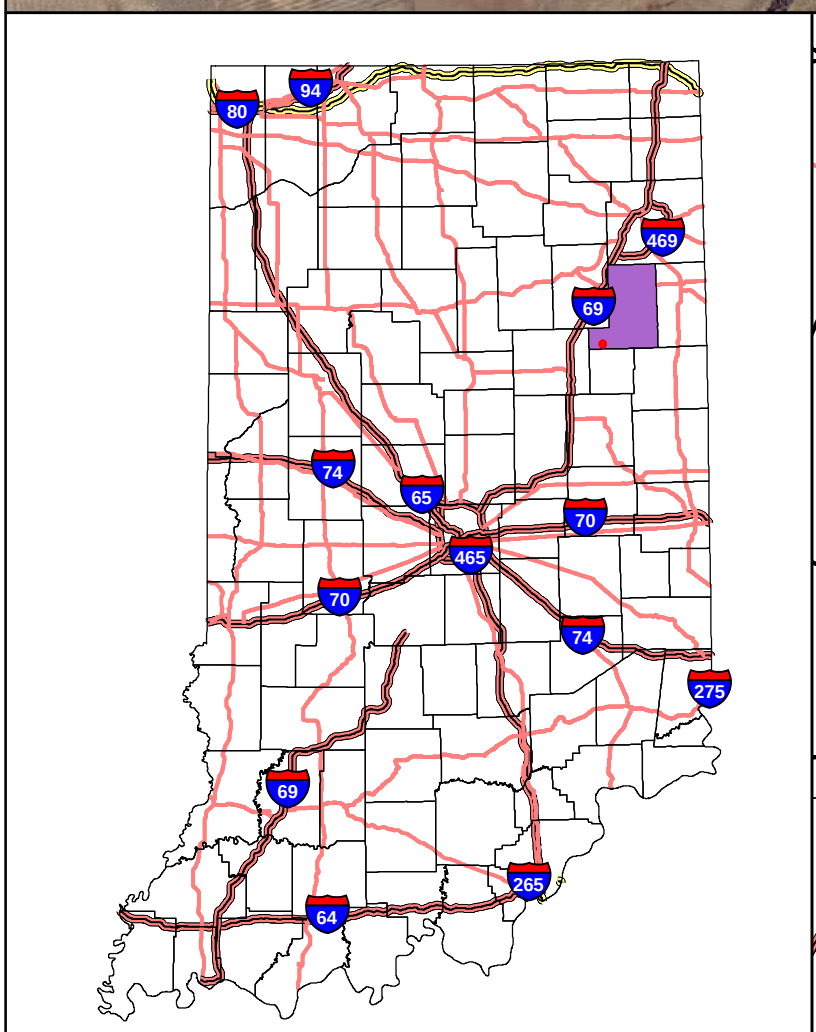
APPENDIX B

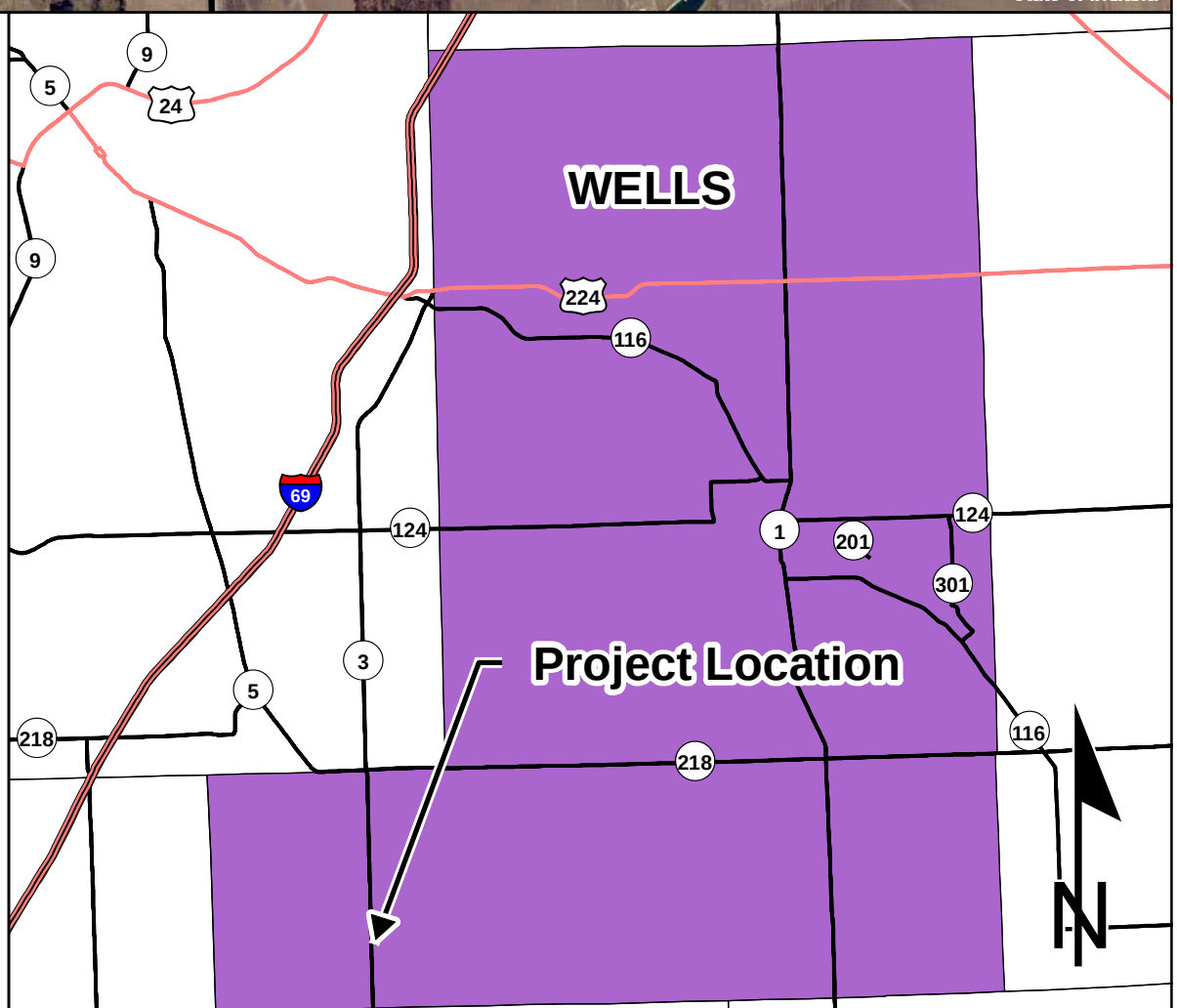
Graphics

DES 1800051

Project Location Map
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana







0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA
STATEWIDE
GIS DATA

Aerial Map
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana

350 175 0 350 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

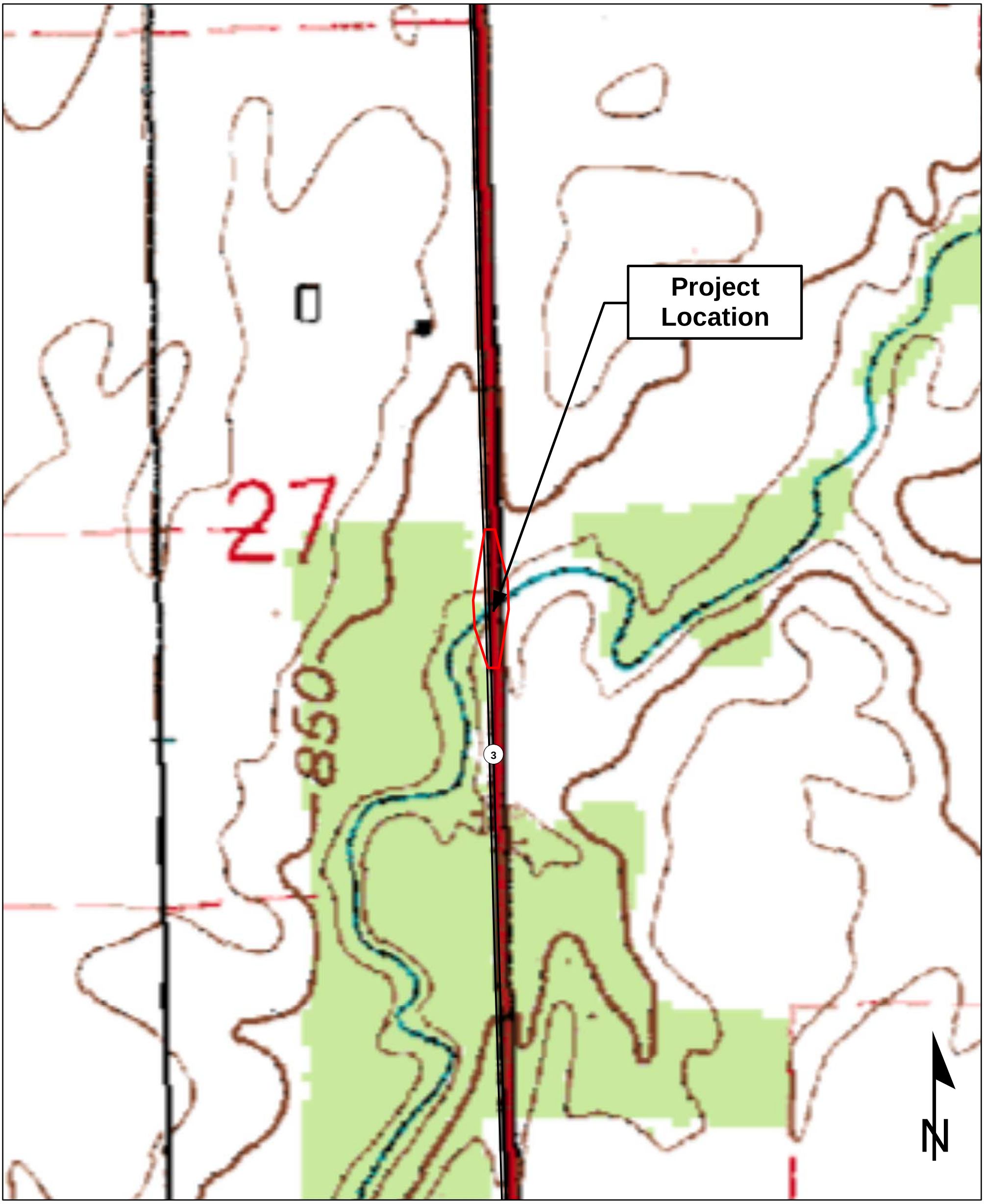
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- Flow Direction
- Tributary
- Roadside Ditch
- Investigative Area

USGS Topographic Map
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



350 175 0 350 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

MONTPELIER QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

PROJECT	DESIGNATION
1800051	1800051
CONTRACT	BRIDGE FILE
B-41561	003-90-01420

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
003-90-01420	PRESTRESSED CONCRETE BULB-TEE-BEAM BRIDGE	1 SPAN: 90'-0" SKEW: 24°06'59" LT.	PRAIRIE CREEK	140+20.00 "A"

INDIANA DEPARTMENT OF TRANSPORTATION

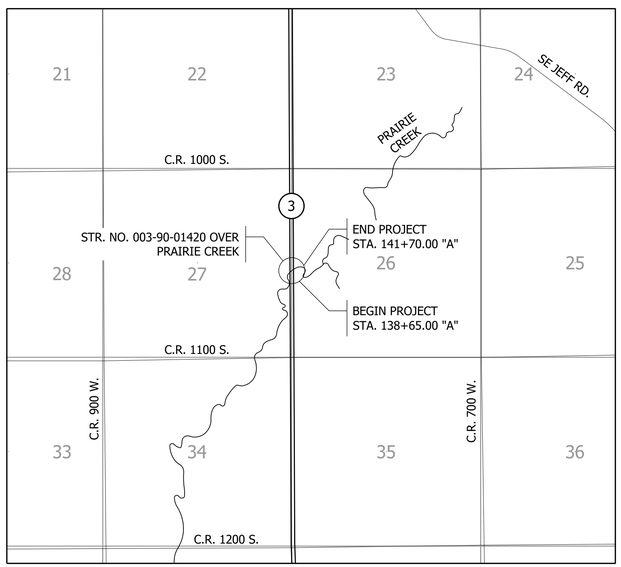
BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: S.R. 3 AT: RP 161+62

PROJECT NO. 1800051 P.E.
1800051 R/W
1800051 CONST.

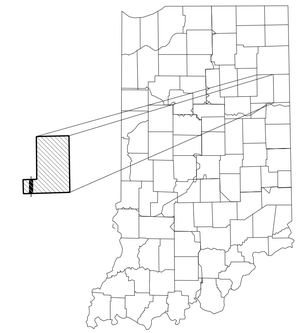
BRIDGE REPLACEMENT ON S.R. 3 OVER PRAIRIE CREEK, LOCATED APPROXIMATELY 2.46 MILES NORTH OF S.R. 18 IN SECTIONS 26 AND 27, T-25-N, R-10-E, JACKSON TOWNSHIP, WELLS COUNTY, INDIANA



STAGE 1 PLANS
OCTOBER 5, 2020

SCALE:
1" = 2000'

TRAFFIC DATA	S.R. 3
A.A.D.T. (2023)	3092 V.P.D.
A.A.D.T. (2043)	3606 V.P.D.
D.H.V. (2043)	337 V.P.H.
DIRECTIONAL DISTRIBUTION	50.62% (NORTH)
TRUCKS	16.49% D.H.V.
	20.54% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY ▬
WELLS COUNTY

LATITUDE: 40°35'17.7" N LONGITUDE: 85°22'18.3" W

BRIDGE LENGTH: 0.017 MI.
ROADWAY LENGTH: 0.041 MI.
TOTAL LENGTH: 0.058 MI.
MAX. GRADE: 0.70 %

H.U.C. 05120102030050

CORRADINO
ENGINEERS ♦ PLANNERS ♦ CONSTRUCTORS

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS.

PRELIMINARY

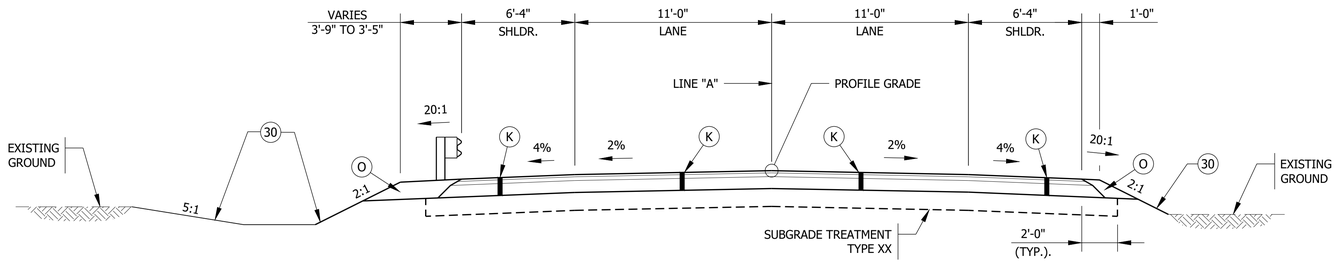
PLANS
PREPARED BY: CORRADINO, LLC 317-488-2363
PHONE NUMBER

CERTIFIED BY: ../../....
DATE

APPROVED
FOR LETTING:
INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE
003-90-01420
DESIGNATION
1800051

SURVEY BOOK	SHEETS
.	1 of 13
CONTRACT	PROJECT
B-41561	1800051



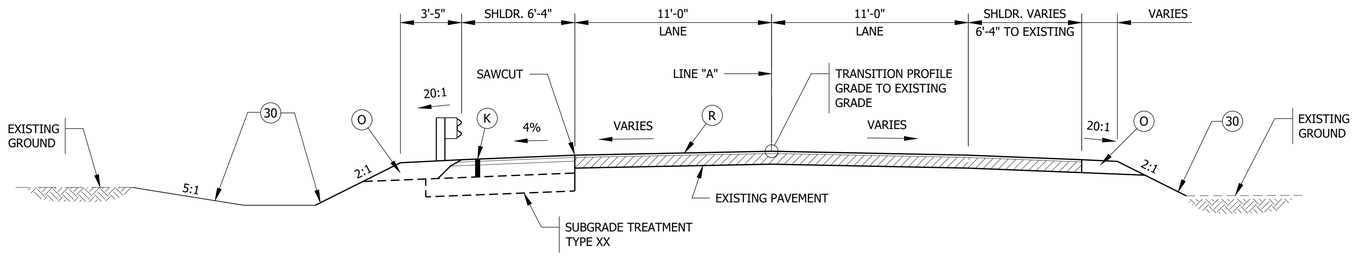
HALF SECTION WITH GUARDRAIL AND DITCH

HALF SECTION WITHOUT GUARDRAIL AND DITCH

FULL DEPTH TYPICAL SECTION FOR S.R. 3

STA. 138+65.00 "A" TO STA. 139+43.77 "A"
STA. 140+96.23 "A" TO STA. 141+70.00 "A"
SCALE: 1/4" = 1'-0"

PAVING EXCEPTION
STA. 139+43.77 "A" TO STA. 140+96.23 "A"

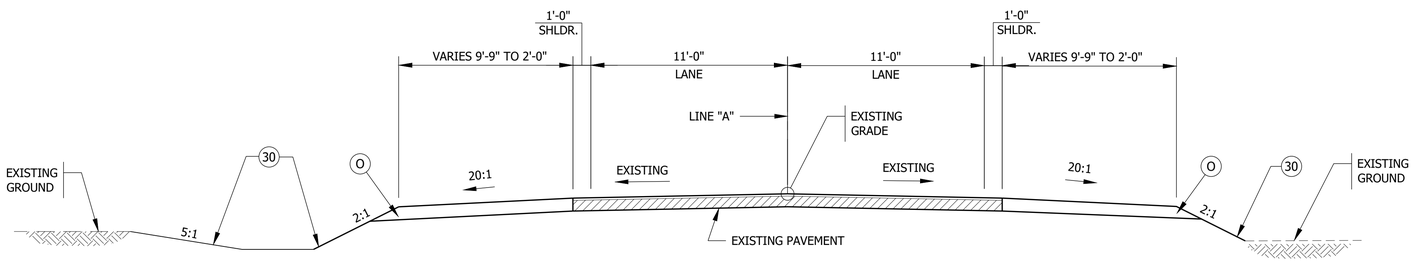


HALF SECTION WITH GUARDRAIL AND DITCH

HALF SECTION WITHOUT GUARDRAIL AND DITCH

INCIDENTAL CONSTRUCTION - WIDENING AND RESURFACE

STA. 137+75.83 "A" TO STA. 138+65.00 "A"
STA. 141+70.00 "A" TO STA. 142+57.92 "A"
SCALE: 1/4" = 1'-0"



HALF SECTION WITH DITCH

HALF SECTION WITHOUT DITCH

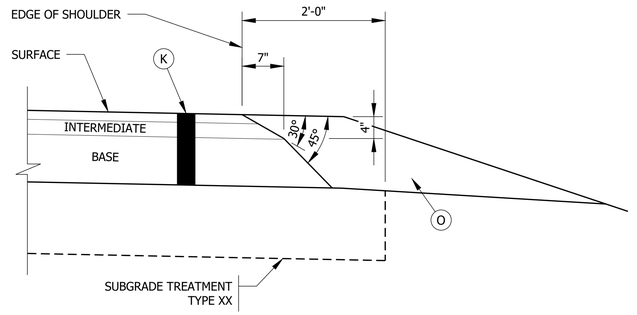
GRADING TYPICAL SECTION

STA. 137+25.00 "A" TO STA. 137+75.83 "A"
STA. 142+57.92 "A" TO STA. 143+00.00 "A"
SCALE: 1/4" = 1'-0"

LEGEND

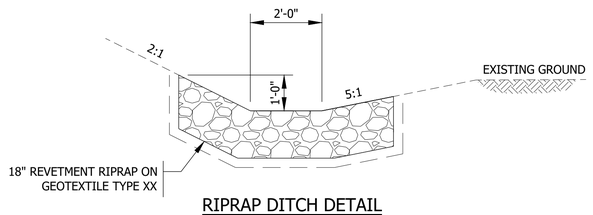
- (K) XXX/SYD QC/QA HMA, 3, 70, SURFACE, 9.5MM ON XXX/SYD QC/QA HMA, 3, 70, INTERMEDIATE, 19.0MM ON XXX/SYD QC/QA HMA, 3, 64, BASE, 25.0MM

  TACK COAT TO BE PLACED BETWEEN HMA LAYERS. JOINT ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL JOINTS IN THE SURFACE AND INTERMEDIATE LAYER. LIQUID ASPHALT SEALANT TO BE PLACED CENTERED ON THE LONGITUDINAL JOINTS THAT HAVE JOINT ADHESIVE INSTALLED.
- (O) XX" COMPACTED AGGREGATE, NO. 53
- (30) EROSION CONTROL BLANKET
- (R) XXX/SYD QC/QA HMA, 3, 70, SURFACE, 9.5MM ON TRANSITION MILLING



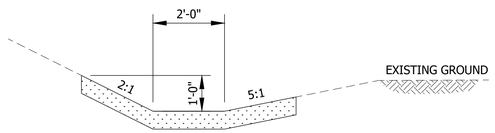
SAFETY EDGE ON HMA PAVEMENT

SCALE: 1" = 1'-0"



RIPRAP DITCH DETAIL

NOT TO SCALE



SODDED DITCH DETAIL

NOT TO SCALE

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October 15, 2020 2:29:05 PM / Stacey Johnson

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Modified / By:
Plotted / By:

PRELIMINARY

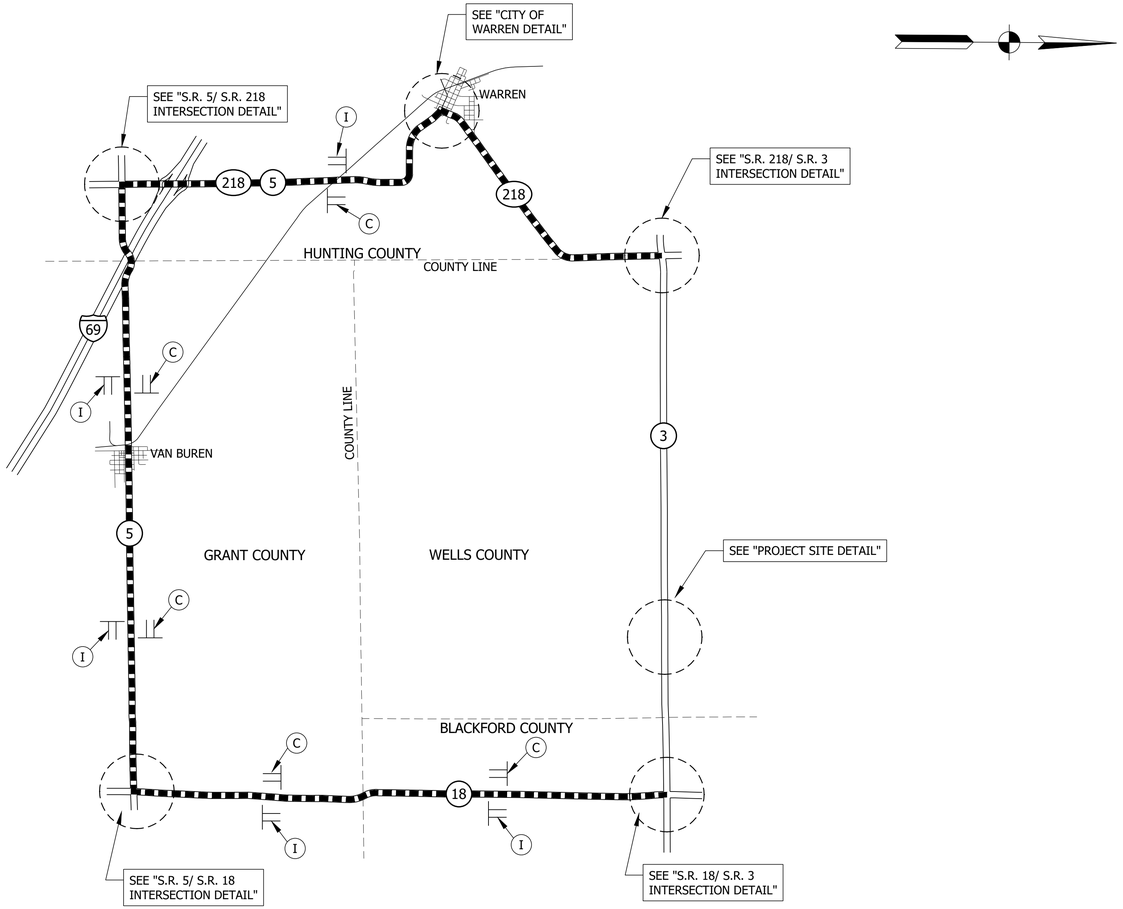
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

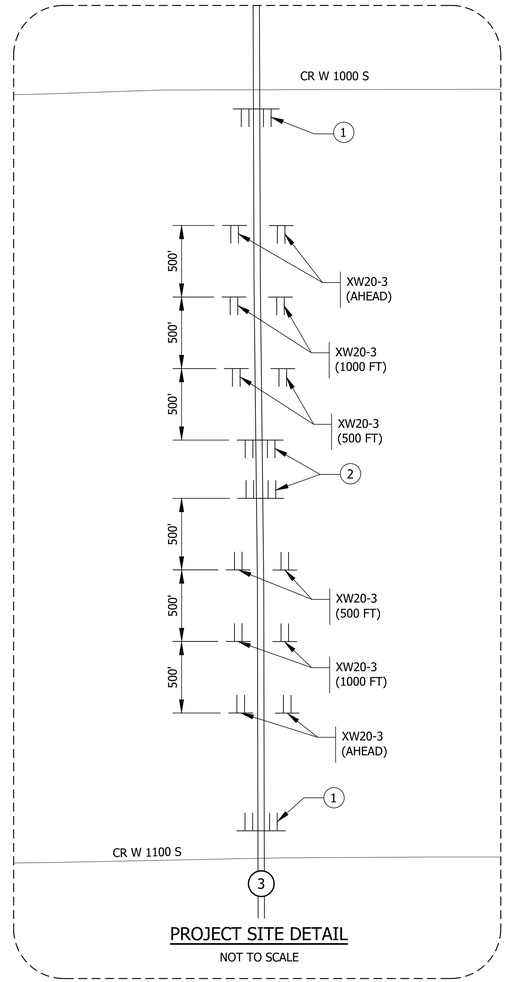
DESIGNED: BJM | DRAWN: SEJ | CHECKED: SSB | CHECKED: BJM

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	003-90-01420
VERTICAL SCALE	DESIGNATION
	1800051
	SHEET 3 of 13
CONTRACT	PROJECT
B-41561	1800051





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NOT TO SCALE

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April 28, 2021 10:58:30 AM / Paige Kingsley

File Name:
Modified / By:
Plotted / By:

PRELIMINARY

RECOMMENDED FOR APPROVAL _____ .
DESIGN ENGINEER DATE

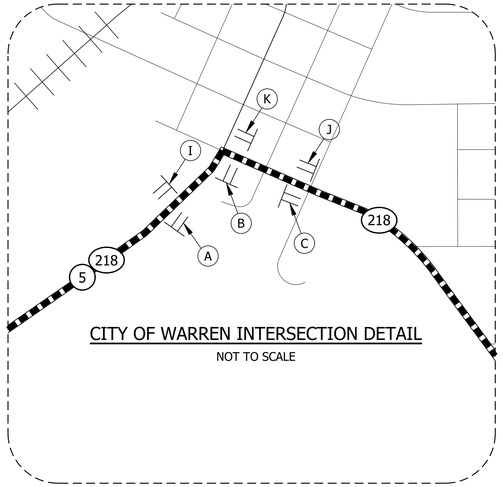
DESIGNED: . DRAWN: SEJ

CHECKED: . CHECKED: .

INDIANA DEPARTMENT OF TRANSPORTATION

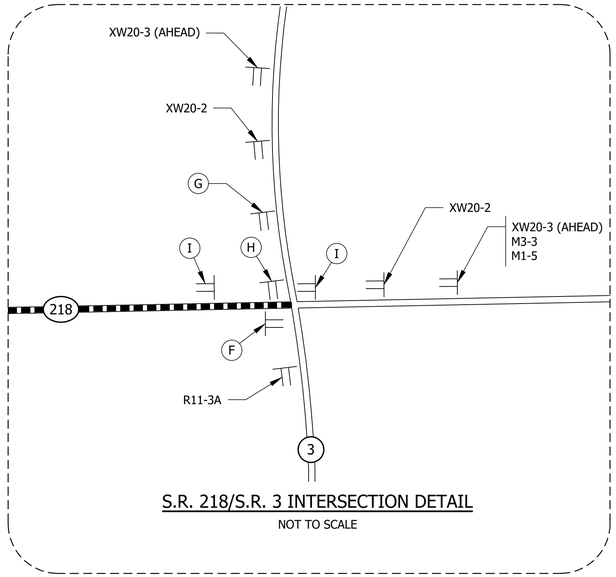
TITLE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'-0" UNLESS NOTED	003-90-01420
VERTICAL SCALE	DESIGNATION
	1800051
	SHEET 7 of 13
CONTRACT	PROJECT
B-41561	1800051



CITY OF WARREN INTERSECTION DETAIL

NOT TO SCALE



S.R. 218/S.R. 3 INTERSECTION DETAIL

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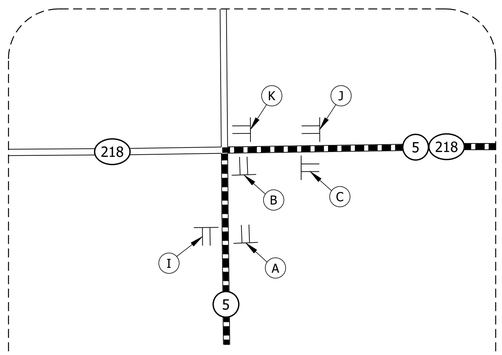

S.R. 5/S.R. 218 INTERSECTION DETAIL

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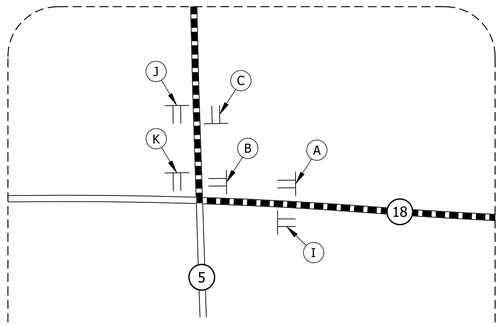

S.R. 5/S.R. 18 INTERSECTION DETAIL

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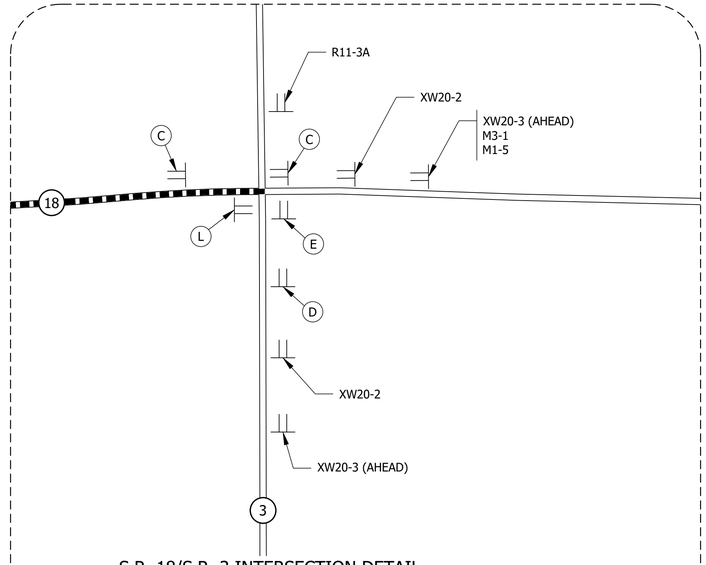

S.R. 18/S.R. 3 INTERSECTION DETAIL

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Plotted / By: April 28, 2021 10:38:45 AM / Paige Kingsley

PRELIMINARY

RECOMMENDED FOR APPROVAL _____ . DESIGN ENGINEER DATE

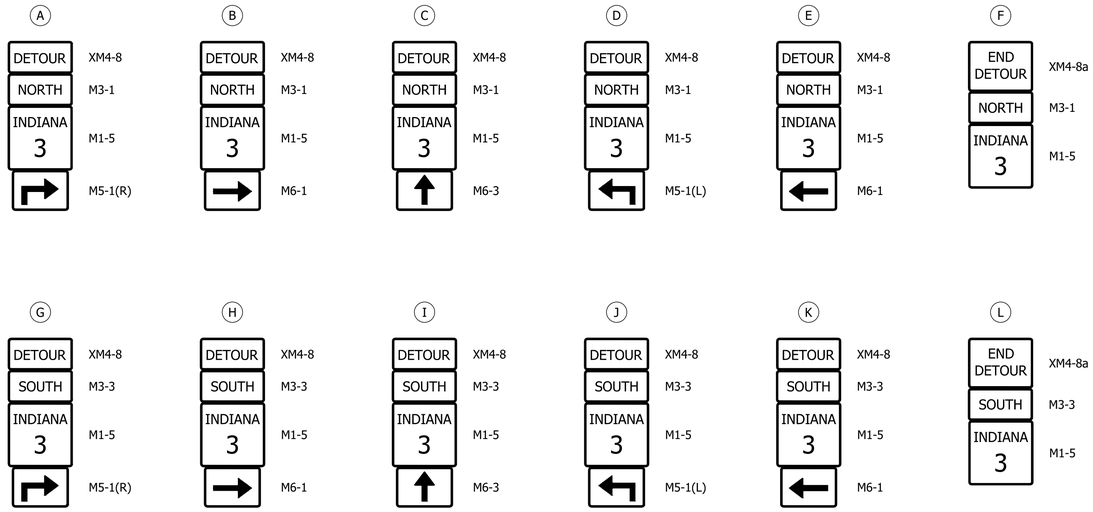
DESIGNED: . DRAWN: SEJ

CHECKED: . CHECKED: .

INDIANA DEPARTMENT OF TRANSPORTATION

TITLE

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'-0" UNLESS NOTED	003-90-01420
VERTICAL SCALE	DESIGNATION
	1800051
	SHEET
	7 of 13
CONTRACT	PROJECT
B-41561	1800051



CONSTRUCTION SIGN SCHEDULE

SIGN NO.	DESCRIPTION	SIZE (FT.)	TYPE	EST. QTY.
XG20-5	S.R. 3 CLOSED ON OR AFTER XX	5 X 3	A	2
XW20-2	DETOUR AHEAD	4 X 4	A	4
XW20-3	ROAD CLOSED XXXX	4 X 4	A	16
M1-5	STATE ROUTE SIGN	2.5 X 2	B	2
M3-1	CARDINAL DIRECTION (NORTH)	2 X 1	B	1
M3-3	CARDINAL DIRECTION (SOUTH)	2 X 1	B	1
R11-2	ROAD CLOSED	4 X 2.5	-	2
R11-3A	ROAD CLOSED XX MILES	5 X 2.5	-	2
R11-4	ROAD CLOSED TO THRU TRAFFIC	5 X 2.5	-	2

DETOUR ROUTE MARKER ASSEMBLIES: 38 REQ'D
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 48 LFT.

TOTAL TYPE "A" SIGNS	22
TOTAL TYPE "B" SIGNS	4
ROAD CLOSURE SIGN ASSEMBLIES	6

* DETOUR ROUTE MARKER ASSEMBLIES SHALL BE IN ACCORDANCE WITH STD. DWG. 801-TCDT-04.

* TYPE B CONSTRUCTION WARNING LIGHTS SHALL BE USED WITH ALL SIGNS LOCATED ON BARRICADES AND AS SHOWN. TYPE A CONSTRUCTION WARNING LIGHTS SHALL BE USED ON ALL OTHER CONSTRUCTION SIGNS. (NOT PAY ITEMS.)

* TWO XG20-5 SIGNS TO BE PLACED AS DIRECTED BY THE ENGINEER.

LEGEND

(1) 24 LFT. OF TYPE III-B BARRICADES, STAGGERED WITH ROAD CLOSURE SIGN ASSEMBLY R11-4.

(2) 24 LFT. OF TYPE III-A BARRICADES WITH ROAD CLOSURE SIGN ASSEMBLY R11-2.

■■■ DETOUR ROUTE

SIGN ASSEMBLY

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Plotted / By: April 28, 2021 10:38:38 AM / Paige Kingsley

PRELIMINARY

RECOMMENDED FOR APPROVAL _____. DESIGN ENGINEER DATE

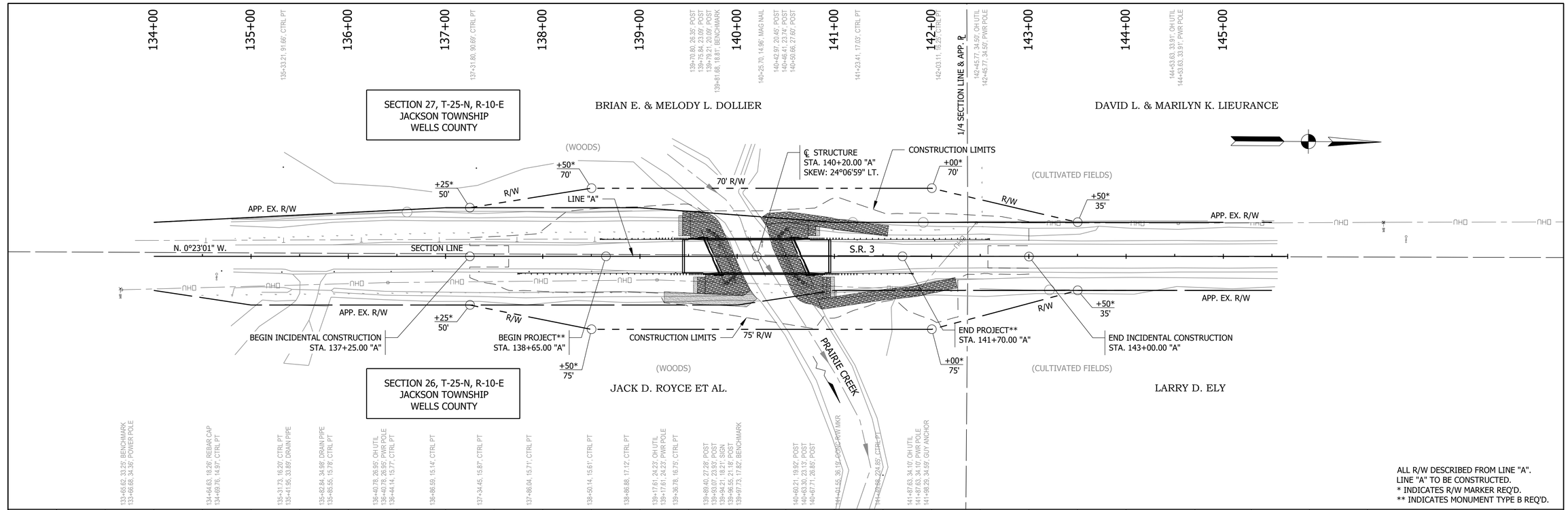
DESIGNED: . DRAWN: SEJ

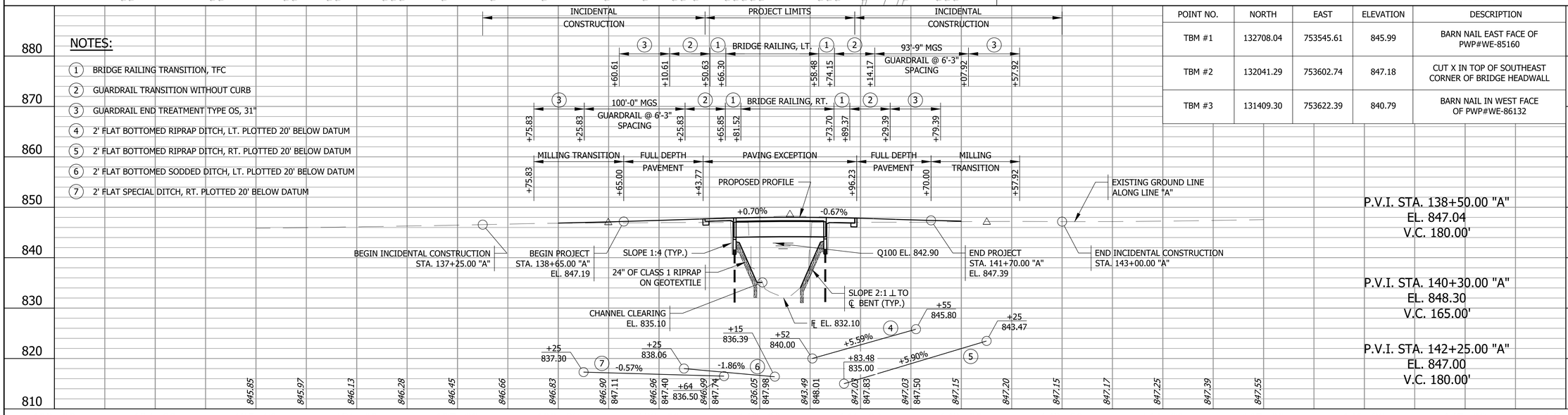
CHECKED: . CHECKED: .

INDIANA DEPARTMENT OF TRANSPORTATION

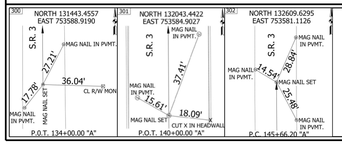
TITLE

HORIZONTAL SCALE	1" = 30'-0" UNLESS NOTED
VERTICAL SCALE	
CONTRACT	B-41561
BRIDGE FILE	003-90-01420
DESIGNATION	1800051
SHEET	7 of 13
PROJECT	1800051





POINT NO.	NORTH	EAST	ELEVATION	DESCRIPTION
TBM #1	132708.04	753545.61	845.99	BARN NAIL EAST FACE OF PWP#WE-85160
TBM #2	132041.29	753602.74	847.18	CUT X IN TOP OF SOUTHEAST CORNER OF BRIDGE HEADWALL
TBM #3	131409.30	753622.39	840.79	BARN NAIL IN WEST FACE OF PWP#WE-86132



PRELIMINARY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: BJM DRAWN: SSB

CHECKED: ZZH CHECKED: BJM

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'-0" UNLESS NOTED	003-90-01420
VERTICAL SCALE	DESIGNATION
1" = 10'-0" UNLESS NOTED	1800051
	SHEET 4 of 13
CONTRACT	PROJECT
B-41561	1800051

File Name:
Modified / By:
Plotted / By:

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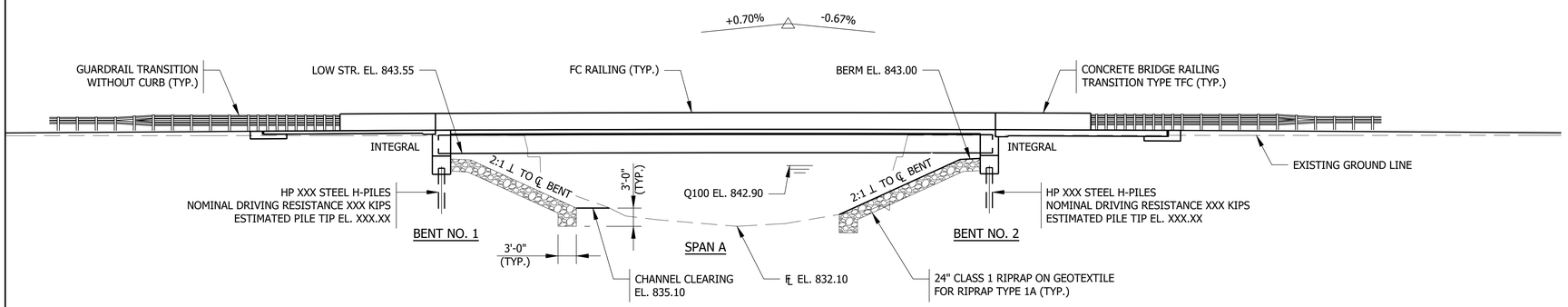
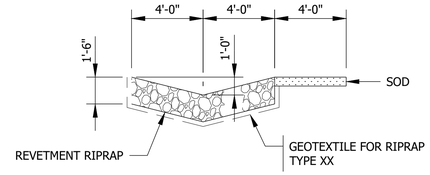
October 15, 2020 2:49:28 PM / sjohnson
October 15, 2020 4:08:01 PM / Bruce Mahlie

STRUCTURE TO BE BUILT ON A 165' VERTICAL CURVE

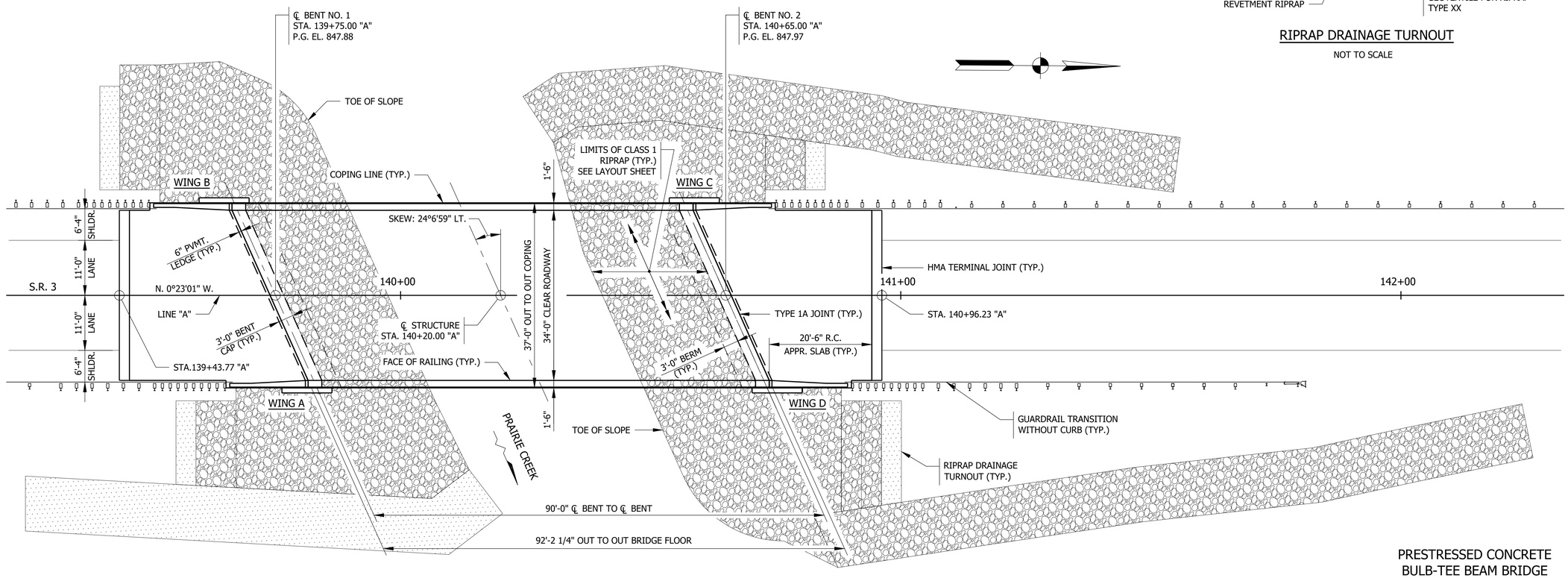


ELEVATION



RIPRAP DRAINAGE TURNOUT

NOT TO SCALE



PLAN

PRESTRESSED CONCRETE
BULB-TEE BEAM BRIDGE
1 SPAN: 90'-0"
34'-0" CLEAR ROADWAY
SKEW: 24°06'59" LT.
S.R. 3 OVER PRAIRIE CREEK
WELLS COUNTY

File Name: F:\4528-FtWayne4Bridges\A-1800051\50 Plans\30 Sheet Drawings\10 Bridge Sheets\S-GENPLAN-01.dwg - Layout1
Modified / By: October 15, 2020 1:44:55 PM / sbath
Plotted / By: October 15, 2020 2:29:37 PM / Stacey Johnson

PRELIMINARY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

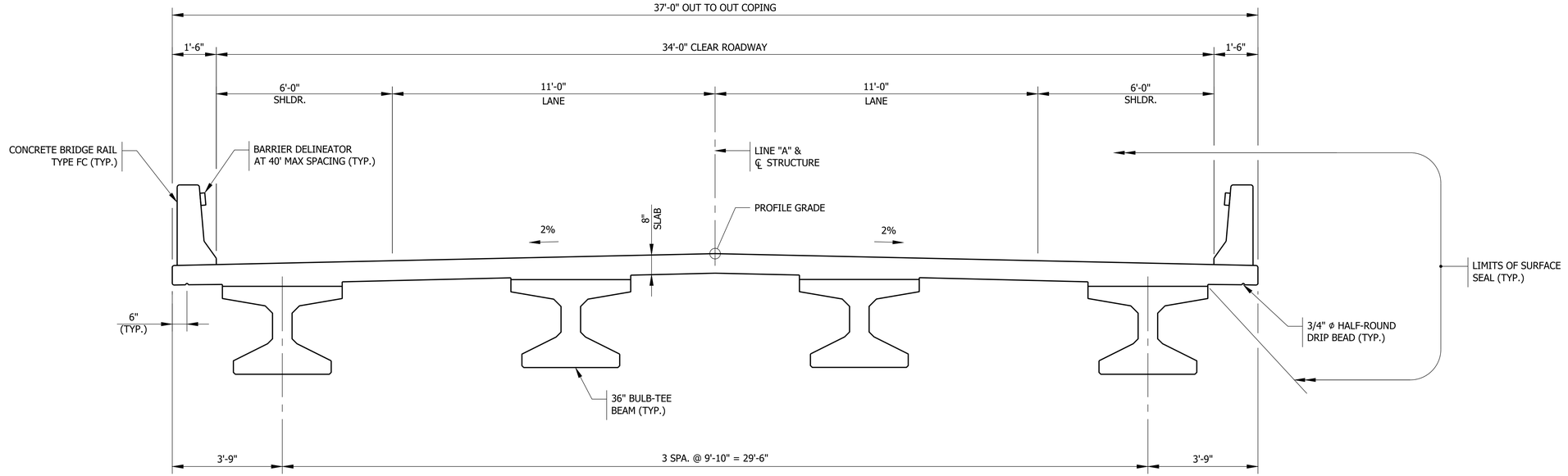
DESIGNED: BJM DRAWN: SEJ

CHECKED: SSB CHECKED: BJM

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
3/32" = 1'-0" UNLESS NOTED	003-90-01420
VERTICAL SCALE	DESIGNATION
	1800051
	SHEET 6 of 13
CONTRACT	PROJECT
B-41561	1800051



TYPICAL SECTION

GENERAL NOTES

REINFORCING STEEL COVER SHALL BE 2 1/2" IN TOP AND 1" MINIMUM IN BOTTOM OF FLOOR SLAB, 3" IN FOOTINGS, EXCEPT BOTTOM STEEL WHICH SHALL BE 4", AND 2" IN ALL OTHER PARTS, UNLESS NOTED.

DESIGN DATA

LIVE LOAD

DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, AND SUBSEQUENT INTERIM SPECIFICATIONS.

DEAD LOAD

ACTUAL WEIGHT PLUS 35 LBS/SFT FOR FUTURE WEARING SURFACE AND 15 LBS/SFT FOR PERMANENT METAL DECK FORMS.

FLOOR SLAB

DESIGNED WITH A 7 1/2" STRUCTURAL DEPTH PLUS 1/2" SACRIFICIAL WEARING SURFACE.

DESIGN STRESSES

CONCRETE

CLASS C	F'C = 4000 PSI
CLASS B	F'C = 3000 PSI
CLASS A	F'C = 3500 PSI

REINFORCING STEEL

GRADE 60 F'Y = 60,000 PSI

CONSTRUCTION LOADING

THE EXTERIOR GIRDER HAS BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING THE CONSTRUCTION LOADS SHOWN BELOW. CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF THE EXTERIOR GIRDER. FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 IN. OUTSIDE THE VERTICAL COPING FORM. THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 IN. PAST THE EDGE OF THE VERTICAL COPING FORM. THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE GIRDER BOTTOM FLANGE AND WEB.

DECK FALSEWORK LOADS

DESIGNED FOR 15 LB/SFT FOR PERMANENT METAL STAY-IN-PLACE DECK FORMS, REMOVABLE DECK FORMS, AND 2-FT EXTERIOR WALKWAY.

CONSTRUCTION LIVE LOAD

DESIGNED FOR 20 LB/SFT EXTENDING 2 FT PAST THE EDGE OF COPING AND 75 LB/FT VERTICAL FORCE APPLIED AT A DISTANCE OF 6 IN. OUTSIDE THE FACE OF COPING OVER A 30-FT LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

FINISHING MACHINE LOAD

4500 LB DISTRIBUTED OVER 10 FT ALONG THE COPING.

WIND LOAD

DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH LRFD 3.8.1.

SEISMIC DESIGN DATA

SEISMIC PERFORMANCE ZONE	ZONE 1
ACCELERATION COEFFICIENT	0.012
SEISMIC SOIL PROFILE TYPE	CLASS D

PRESTRESSED CONCRETE
BULB-TEE BEAM BRIDGE
1 SPAN: 90'-0"
34'-0" CLEAR ROADWAY
SKEW: 24°06'59" LT.
S.R. 3 OVER PRAIRIE CREEK
WELLS COUNTY

PRELIMINARY

RECOMMENDED FOR APPROVAL _____ .
DESIGN ENGINEER DATE

DESIGNED: BJM DRAWN: SEJ
CHECKED: ZZH CHECKED: BJM

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	1/2" = 1'-0" UNLESS NOTED
VERTICAL SCALE	
CONTRACT	B-41561

BRIDGE FILE	003-90-01420
DESIGNATION	1800051
SHEET	7 of 13
PROJECT	1800051

File Name: F:\4528-FtWayne4Bridges\A-1800051\50 Plans\30 Sheet Drawings\10 Bridge Sheets\S-GENPLAN-02.dwg - Layout1
Modified / By: October 14, 2020 11:18:24 AM / sbath
Plotted / By: October 15, 2020 2:29:45 PM / Stacey Johnson

Photos from August 1, 2019 Field Check

Figure 1: SR 3 northbound shoulder looking south

Figure 2: SR 3 northbound shoulder looking north over bridge

Figure 3: Timber wingwall

Figure 4: Under bridge, looking west (upstream) at Prairie Creek

Figure 5: Prestressed box beam spalling and moisture between girders

Figure 6: Looking at south abutment.

Figure 7: East Side of Bridge

Figure 8: Top of bridge, looking east (downstream) at Prairie Creek

Figure 9: East side of bridge, looking at east coping line.

Figure 10: Utility attached to structure

APPENDIX C

Early Coordination

DES 1800051

CORRADINO

July 3, 2019

Indiana Department of Transportation
Fort Wayne District
5333 Hatfield Rd.
Fort Wayne, IN 46808

Re: Des. No.: 1800051, SR 3, Bridge Replacement, Wells County, Indiana
Environmental Early Coordination

Dear Environmental Coordinator:

The Indiana Department of Transportation (INDOT) intends to proceed with the aforementioned bridge replacement project in Wells County, Indiana. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply.** We will incorporate your comments into a study of the project's environmental impacts.

This project is being developed by the Indiana Department of Transportation (INDOT) with federal aid. The existing bridge is a prestressed concrete box beam bridge located 2.46 miles north of SR 18 that carries SR 3 over Prairie Creek in Wells County, Indiana. See Attachment A for project location maps. Existing SR 3 within the project area is classified as Major Collector with a posted speed limit of 55 mph. The INDOT Traffic Count Database System (TCDS) estimates 5,088 vehicles per day in 2032. The current land use in the project area is wooded property.

The need for this project is based on the deteriorating condition of the crossing, as stated in the Bridge Inspection Report. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting, and the bridge has timber wingwalls that are deteriorating. The northwest wingwall has erosion holes at the base of the wingwall and the northwest abutment wall. All four corners at the bridge deck have erosion holes. The structural evaluation rating from the bridge inspection report is a 4 (poor).

The purpose of this project is to improve the structural condition of the crossing as defined in the Bridge Inspection Report. Other goals of the project that are not central to the purpose and need include addressing safety concerns identified during project development and improving the hydraulic performance of the crossing.

The project will not change the vertical or horizontal alignment or the existing lanes and widths. It is anticipated that temporary and permanent right of way will be required. A maximum of 1.5 acre of

permanent and 0.3 acre temporary right of way may be required. This project is currently scheduled for July 2022 letting.

The project will impact the stream flowing under the structure and in the immediate area. Mitigation of impacts will be determined during the project development. There are no other anticipated environmental impacts or planned mitigation associated with this project.

Should we not receive your response **within thirty (30) calendar days** from the date of this letter, it will be assumed that your agency feels that there will be no adverse effects incurred as a result of the proposed project. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Bruce Mahlie of Corradino LLC, at 317-744-9852 or bmahlie@corradino.com. Thank you in advance for your input.

Sincerely,

Bruce Mahlie

Bruce Mahlie
Corradino LLC
200 South Meridian Street, Suite 330
Indianapolis, IN 46225

Attachments:
A. Project Location Maps
B. Site Photos

The following agencies received Early Coordination Letters:

U.S. Fish and Wildlife Service
Bloomington Indiana Field Office
620 South Walker Street
Bloomington, IN 47403-2121

State Conservationist
Natural Resource Conservation Service
6013 Lakeside Boulevard
Indianapolis, IN 46278

Environmental Coordinator
IDNR - Division of Fish and Wildlife
402 West Washington Street, Room W273
Indianapolis, IN 46204

Indiana Department of Transportation
Fort Wayne District
5333 Hatfield Rd.
Fort Wayne, IN 46808

Field Environmental Officer
Chicago Regional Office
U.S. Department of Housing and Urban Dev
77 West Jackson Boulevard, Room 2401
Chicago, IL 60604

US. Army Corps. of Engineers
Louisville District
ATTNL CELRL-RDN
P.O. Box 59

Federal Highway Administration
Federal Office Building, Room 254
575 North Pennsylvania Street
Indianapolis, IN 46204

Indiana Geological Survey
611 North Walnut Grove
Bloomington, IN 47405

IDEM
Automatic coordination website

IDEM - Groundwater Section
Electronic submittal

Manager, Public Hearings
Indiana Department of Transportation
100 N. Senate Avenue, Rm. 642
Indianapolis, IN 46250

Regional Environmental Coordinator
Midwest Regional Office
National Park Service
601 Riverfront Drive
Omaha, Nebraska 68102

Rachel Pluckebaum

From: McWilliams, Robin <robin_mcwilliams@fws.gov>
Sent: Tuesday, July 9, 2019 2:40 PM
To: Rachel Pluckebaum
Subject: Re: [EXTERNAL] Early Coordination Letter DES 1800051

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Rachel,

This responds to your recent letter, requesting our comments on the aforementioned project.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (l6 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of l969, the Endangered Species Act of l973, and the U. S. Fish and Wildlife Service's Mitigation Policy.

The project is within the range of the Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) and should follow the new Indiana bat/northern long-eared bat programmatic consultation process, if applicable (*i.e*. a federal transportation nexus is established). We will review that information once it is received.

Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objections to the project as currently proposed. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinitiate consultation. Standard recommendations are provided below.

We appreciate the opportunity to comment at this early stage of project planning. If project plans change such that fish and wildlife habitat may be affected, please recoordinate with our office as soon as possible. If you have any questions about our recommendations, please call (812) 334-4261 x. 207.

Sincerely,
Robin McWilliams Munson

Standard Recommendations:

1. Do not clear trees or understory vegetation outside the construction zone boundaries. (**This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat.)**

2. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap.

Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottomed culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community.

3. Restrict channel work and vegetation clearing to the minimum necessary for installation of the stream crossing structure.

4. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If rip rap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat.

5. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications.

6. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams.

7. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing.

Robin McWilliams Munson

U.S. Fish and Wildlife Service
620 South Walker Street
Bloomington, Indiana 46403
812-334-4261 x. 207 Fax: 812-334-4273

Monday, Tuesday - 7:30a-3:00p
Wednesday, Thursday - telework 8:30a-3:00p

On Wed, Jul 3, 2019 at 10:39 AM Rachel Pluckebaum <rpluckebaum@corradino.com> wrote:

> Hello Robin,
>
> Attached for your review is the Early Coordination Letter for DES 1800051, SR 3, Bridge Replacement, Wells County, Indiana. If you have comments or commitments for the project, please respond within 30 days. Thanks in advance
>
> Sincerely,
>
> Rachel Pluckebaum
>
> Corradino LLC
>
> 200 S. Meridian Street, Suite 330
>
> Indianapolis, IN 46225
>
> P. 317.744.9860
>
> F. 317.488.2373
>
> rpluckebaum@corradino.com

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

DNR #: ER-21660 **Request Received:** July 3, 2019

Requestor: The Corradino Group, Inc.
Bruce Mahlie
200 South Meridian Street, Suite 330
Indianapolis, IN 46225

Project: SR 3 bridge replacement over Prairie Creek, 2.46 miles north of SR 18; Des #1800051

County/Site info: Wells

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment: This proposal will require the formal approval of our agency for construction in a floodway pursuant to the Flood Control Act (IC 14-28-1), unless it qualifies for a bridge exemption (see enclosure). Please include a copy of this letter with the permit application if the project does not meet the bridge exemption criteria.

Natural Heritage Database: The Natural Heritage Program's data have been checked.
To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments: Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

1) Crossing Structure:
For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Wide culverts are better than narrow culverts, and culverts with shorter through lengths are better than culverts with longer through lengths. If box or pipe culverts are used, the bottoms should be buried a minimum of 6" (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum of 2') below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should: span the entire channel width (a minimum of 1.2 times the OHWM width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width / length) of 0.25; and have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel.

2) Bank Stabilization & Wildlife Passage:
The new, replacement, or rehabbed structure, and any bank stabilization under the structure, should not create conditions that are less favorable for wildlife passage under the structure compared to current conditions. Minimize the use of riprap and use alternative erosion protection materials whenever possible. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Where riprap must be used, we recommend placing only enough riprap to provide stream bank toe protection, such as from the toe of the bank up to the ordinary

Attachments: A - Bridge Exemption Criteria

high water mark (OHWM). The banks above the OHWM must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to the area and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion.

While hard armoring alone (e.g. riprap or glacial stone) may be needed in certain instances, soft armoring and bioengineering techniques should be considered first. In many instances, one or more methods are necessary to increase the likelihood of vegetation establishment. Combining vegetation with most bank stabilization methods can provide additional bank protection and help reduce impacts upon fish and wildlife. If hard armoring is needed, wildlife passage can be facilitated by using a smooth-surfaced armoring material instead of riprap, such as articulated concrete block mats, fabric-formed concrete mats, or other similar smooth-surfaced material.

Information about bioengineering techniques can be found at http://www.in.gov/legislative/iac/20120404-IR-312120154NRA.xml.pdf. Also, the following is a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization: http://directives.sc.egov.usda.gov/17553.wba.

3) Riparian Habitat:
We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Floodway Habitat Mitigation guidelines (and plant lists) can be found online at: http://www.in.gov/legislative/iac/20190130-IR-312190041NRA.xml.pdf.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees).

4) Wetland Habitat:
Due to the presence or potential presence of wetland habitat on site, we recommend contacting and coordinating with the Indiana Department of Environmental Management (IDEM) 401 program and also the US Army Corps of Engineers (USACE) 404 program. Impacts to wetland habitat should be mitigated at the appropriate ratio according to the 1991 INDOT/IDNR/USFWS Memorandum of Understanding.

5) Cofferdams:
The project design should avoid inclusion of a cofferdam, if possible. Such features result in impacts to the stream and surrounding habitat. If a cofferdam is deemed critical for the construction to occur, justification should be provided with the permit application, if required. Any proposed dewatering should be detailed using the following guidelines:
a. Dewatering should be limited to one streambank or side of the creek (at the bridge construction site) at a time so at least half of the creek is always flowing naturally. On larger streams, both sides can be dammed at once as long as the center of the channel is allowed to flow naturally.
b. Do not dewater directly into the stream. Dewater into a sediment bag, into a roll off box, and onto a riprap apron or similar system.
c. Cofferdam materials and methods can vary. Self-contained and encapsulated materials and methods are recommended. Anything filled with water is better than soil-filled where there is a potential for leaking or failure of the system due to length of use or accidents.
d. Dewatering pumps should incorporate filters or bypasses to avoid injuring or killing

Attachments: A - Bridge Exemption Criteria

fish and other aquatic organisms.

6) Nesting Birds/Roosting Bats:
Repairs to the bridge could affect any nesting birds or roosting bats. Cliff and Barn Swallows, among other species, often nest on the underside of road bridges and many bat species roost in expansion joints and other concrete crevices on road bridges. Survey the bridges for any bird nests prior to construction. Nest surveys should occur between May 7 and September 7, which denotes the main nesting season for most bird species. If nests are found with eggs, chicks, or parents actively attending to the nest (building the nest and visiting often), then repairs should be put on hold until the nests complete their nesting cycle (to fledging) or fail (by natural causes).

The Division of Fish and Wildlife (DFW) recommends bridge maintenance activities be restricted to the period between November 1 and March 1 to avoid the summer roosting period for most bats in the central part of the State. However, some endangered bats could use a bridge to roost between November and March. No matter when work is proposed, the bridge must be inspected for the presence of bats. If there is no evidence of active bat use, work can proceed. If there is evidence of active bat use, work must not occur until either the bats leave the structure for the season or a separate permit is issued to remove the bats. Please contact Linnea Petercheff (lpetercheff@dnr.in.gov) regarding permits to handle bats. If bats are present, a more formal survey to determine what species are present may be required.

The DFW recommends consulting with the State Mammologist or the US Fish and Wildlife Service before scheduling a bridge maintenance, repair, or replacement project where evidence of bat use of the structure has been observed. Information about bat use of transportation structures as well as avoidance and exclusion measures can be found at https://www.batcon.org/pdfs/bridges/BatsBridges2.pdf and https://www.whitenosesyndrome.org/mmedia-education/acceptable-management-practices-for-bat-species-inhabiting-transportation-infrastructure.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:
1. Revegetate all bare and disturbed areas that will not be mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in regularly mowed areas only.
2. Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
4. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
5. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure.
6. Do not construct any temporary runarounds or causeways.
7. Operate equipment used to replace the bridge from the existing roadway.
8. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
9. Do not use broken concrete as riprap.
10. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
11. Minimize the movement of resuspended bottom sediment from the immediate

Attachments: A - Bridge Exemption Criteria

THIS IS NOT A PERMIT

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Fish and Wildlife
Early Coordination/Environmental Assessment

project area.
12. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.
13. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
14. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
15. Do not excavate or place fill in any riparian wetland.

Contact Staff: Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Christie L Stanifer **Date:** August 2, 2019

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

Attachments: A - Bridge Exemption Criteria

INDIANA
GEOLOGICAL SURVEY

Organization and Project Information

Project ID:	1800051
Des. ID:	4528
Project Title:	1800051, SR 3, 2.46 Miles North of SR 18, Wells County, Indiana
Name of Organization:	Corradino, LLC
Requested by:	Rachel Pluckebaum

Environmental Assessment Report

1. Geological Hazards:
   - Moderate liquefaction potential
   - 1% Annual Chance Flood Hazard
2. Mineral Resources:
   - Bedrock Resource: High Potential
   - Sand and Gravel Resource: Low Potential
3. Active or abandoned mineral resources extraction sites:
   - Petroleum Exploration Wells

*All map layers from Indiana Map (maps.indiana.edu)

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This information was furnished by Indiana Geological Survey
Address: 420 N. Walnut St., Bloomington, IN 47404
Email: IGSEnvir@indiana.edu
Phone: 812 855-7428

Date: July 03, 2019

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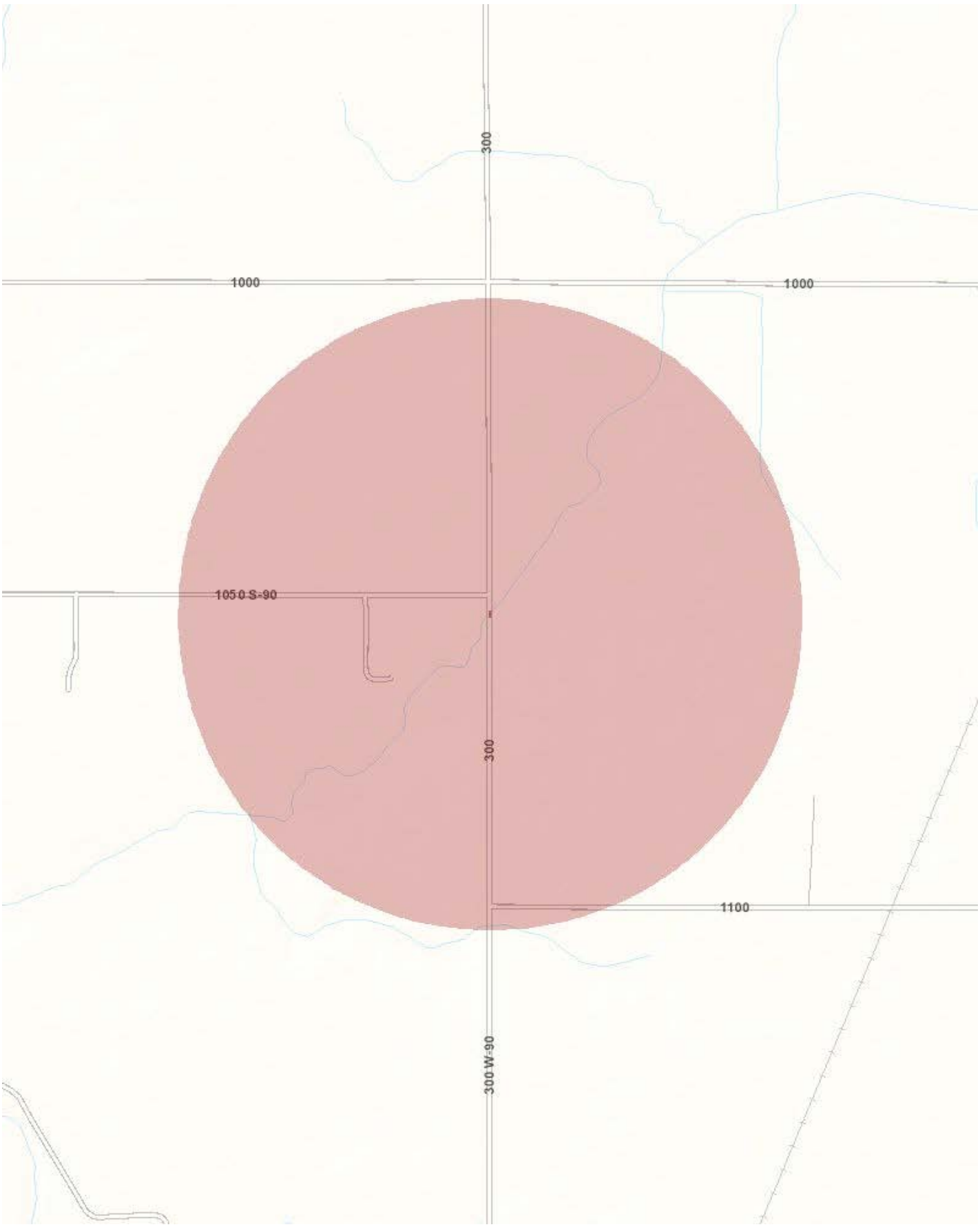

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Metadata:

- https://maps.indiana.edu/metadata/Geology/Petroleum_Wells.html
- https://maps.indiana.edu/metadata/Geology/Seismic_Earthquake_Liquefaction_Potential.html
- https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html
- https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html
- https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html

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USDA
United States Department of Agriculture

Natural Resources Conservation Service
Indiana State Office
6013 Lakeside Boulevard
Indianapolis, IN 46278
317-290-3200

July 16, 2019

Bruce Mahlie
Corradino, LLC
200 South Meridian Street, Suite 330
Indianapolis, Indiana 46225

Dear Mr. Mahlie:

The proposed project to replace the bridge on State Road 3 in Wells County, Indiana (Des No. 1800051), as referred to in your letter received July 3, 2019, will cause a conversion of prime farmland.

The attached packet of information is for your use completing Parts VI and VII of the AD-1106. After Completion, the federal funding agency needs to forward one copy to NRCS for our records.

If you need additional information, please contact Daniel Phillips at 317-295-5871.

Sincerely,

JERRY RAYNOR Digitally signed by JERRY RAYNOR
Date: 2019.07.18 10:21:33 -04'00'

JERRY RAYNOR
State Conservationist

Enclosures

USDA is an equal opportunity provider, employer and lender.

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*		Date Of Land Evaluation Request July 5, 2019	
Name of Project Des.1800051, SR 3 over Prairie Creek		Federal Agency Involved FHWA	
Proposed Land Use Bridge Replacement		County and State Wells County, Indiana	
PART II *(To be completed by NRCS)*		Date Request Received By NRCS 7/3/2019	Person Completing Form: DP
Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☑ NO ☐	Acres Irrigated	Average Farm Size 193 Ac
Major Crop(s) Corn	Farmable Land In Govt. Jurisdiction Acres: 233,733 % 99	Amount of Farmland As Defined in FPPA Acres: 225,946 % 95	
Name of Land Evaluation System Used LESA	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS 7/16/2019	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	1.03			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	1.3			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	1.03			
B. Total Acres Statewide Important or Local Important Farmland	0			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	<0.001			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	101			
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	0			

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)	15			
2. Perimeter In Non-urban Use	(10)	10			
3. Percent Of Site Being Farmed	(20)	0			
4. Protection Provided By State and Local Government	(20)	0			
5. Distance From Urban Built-up Area	(15)	15			
6. Distance To Urban Support Services	(15)	15			
7. Size Of Present Farm Unit Compared To Average	(10)	9			
8. Creation Of Non-farmable Farmland	(10)	0			
9. Availability Of Farm Support Services	(5)	0			
10. On-Farm Investments	(20)	0			
11. Effects Of Conversion On Farm Support Services	(10)	0			
12. Compatibility With Existing Agricultural Use	(10)	0			
TOTAL SITE ASSESSMENT POINTS	160	64			
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	0			
Total Site Assessment *(From Part VI above or local site assessment)*	160	64			
TOTAL POINTS ***(Total of above 2 lines)***	260	64			

Site Selected: Site A	Date Of Selection July 5, 2019	Was A Local Site Assessment Used? YES ☐ NO ☑

Reason For Selection:

Missing farm land is unavoidable.

Name of Federal agency representative completing this form:	Date:

(See Instructions on reverse side) **Form AD-1006 (03-02)**

Kirk Roth

From: Bruce Mahlie
Sent: Monday, July 15, 2019 10:51 AM
To: Rachel Pluckebaum
Subject: FW: 1800051 SR 3 Bridge Replc Wells Co Early Coordination

Follow Up Flag: Follow up
Flag Status: Flagged

From: Wright, Mary <MWRIGHT@indot.IN.gov>
Sent: Monday, July 15, 2019 10:44 AM
To: Bruce Mahlie <bmahlie@CORRADINO.com>
Subject: RE: 1800051 SR 3 Bridge Replc Wells Co Early Coordination

Early Coordination and Creating a Public Involvement Plan (PIP)

We have received your early coordination notification packet for the above referenced project(s). Our office prefers to be notified at the early coordination stage in order to encourage early and ongoing public involvement aside from the specific legal requirements as outlined in our Public Involvement Manual http://www.in.gov/indot/2366.htm . Seeking the public's understanding of transportation improvement projects early in the project development stage can allow the opportunity for the public to express their concerns, comments, and to seek buy-in. Early coordination is the perfect opportunity to examine the proposed project and its impacts to the community along with the many ways and or tools to inform the public of the improvements and seek engagement. A good public involvement plan, or PIP, should consider the type, scope, impacts, and the level of public awareness that should, or could, be implemented. In other words, although there are cases where no public involvement is legally required, sometimes it is simply the right thing to do in order to keep the public informed.

The public involvement office is always available to provide support and resources to bolster any public involvement activities you may wish to implement or discuss. Please feel free to contact our office anytime should you have any questions or concerns. Thank you for notifying our office about your proposed project. We trust you will not only analyze the appropriate public involvement required, but also consider the opportunity to do go above and beyond those requirements in creating a good PIP.

Rickie Clark, Manager
100 North Senate Avenue, Room N642
Indianapolis, IN 46204
Phone: 317-232-6601
Email: rclark@indot.in.gov

Mary Wright, Hearing Examiner
Phone: 317-234-0796
Email: mwright@indot.in.gov

Kirk Roth

From: Courtade, Julian <JCourtade@indot.IN.gov>
Sent: Monday, December 30, 2019 8:18 AM
To: Rachel Pluckebaum
Subject: RE: MPPA Request_FortWayne_District_Des. No. 1800051_SR 3, 2.46 Miles North of SR 18

Follow Up Flag: Follow up
Flag Status: Flagged

Hello –

I reviewed the ECL and found no issues with surrounding airspace or airports. This is due to the project meeting the required 100:1 glideslope to the nearest airport within 5 nautical miles. Please let me know if you have any questions!

Thanks,

Julian L. Courtade
Chief Airport Inspector
INDOT, Office of Aviation
IGCN Room N955
100 North Senate Avenue
Indianapolis, IN 46204
Office: (317) 232-1477
Email: jcourtade@indot.in.gov

From: Rachel Pluckebaum [mailto:rpluckebaum@CORRADINO.com]
Sent: Tuesday, December 24, 2019 8:01 AM
To: Kumar, Anuradha <akumar@indot.IN.gov>; Miller, Shaun (INDOT) <smiller@indot.IN.gov>; Branigin, Susan <SBranigin@indot.IN.gov>
Cc: Blake, Martin <MaBlake@indot.IN.gov>; Bruce Mahlie <bmahlie@CORRADINO.com>; Kirk Roth <kroth@CORRADINO.com>
Subject: MPPA Request_FortWayne_District_Des. No. 1800051_SR 3, 2.46 Miles North of SR 18

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Anuradha, Susan and Shaun:

Attached is the Section 106 MPPA request for the above-noted project. The following items are attached.

- MPPA Request (body only) in Word format
- MPPA Request (full document) in PDF format

- Associated shapefiles

Please let me know if you need any additional information.

Thank you,

Rachel Pluckebaum
Corradino LLC
200 S. Meridian Street, Suite 330
Indianapolis, IN 46225
P. 317.956.5047
F. 317.488.2373
rpluckebaum@corradino.com

Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204
(800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

Corradino, LLC
Rachel Pluckebaum
200 S. Meridian St. Suite 330
Indianapolis , IN 46225

5333 Hatfield Rd.
Fort Wayne , IN 46808
Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The project is located in Wells County, Indiana on SR 3, 2.46 Miles North of SR 18. The bridge carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: http://www.in.gov/idem/5283.htm (http://www.in.gov/idem/5283.htm).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other

waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf /default.asp (http://www.lrl.usace.army.mil/orf/default.asp)) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Starke, Marshall , Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at http://www.in.gov/idem/4396.htm (http://www.in.gov/idem/4396.htm). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).

3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana . A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.

4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should

seek additional input from the OWQ Wetlands Program staff. Consult the Web at: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm) for the appropriate staff contact to further discuss your project.

5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
    - IC 14-26-2 Lakes Preservation Act 312 IAC 11
    - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
    - IC 14-28-1 Flood Control Act 310 IAC 6-1
    - IC 14-29-1 Navigable Waterways Act 312 IAC 6
    - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6
    - IC 14-29-4 Construction of Channels Act No related code

    For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: http://www.in.gov/dnr/water/9451.htm (http://www.in.gov/dnr/water/9451.htm) . Contact the DNR Division of Water at 317-232-4160 for further information.

    The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
    - http://www.in.gov/idem/4902.htm (http://www.in.gov/idem/4902.htm)

    To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (http://www.in.gov/idem/4917.htm#constreq (http://www.in.gov/idem/4917.htm#constreq)), and as described in 327 IAC 15-5-6.5 (http://www.in.gov/legislative/iac/T03270/A00150 [PDF] (http://www.in.gov/legislative/iac/T03270/A00150.PDF), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (http://www.in.gov/isda/soil/contacts/map.html (http://www.in.gov/isda/soil/contacts/map.html)).

    Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: http://www.in.gov/idem/4900.htm (http://www.in.gov/idem/4900.htm).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317/232-4080) for addition project input.

8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.

9. For projects involving effluent discharges to waters of the State of Indiana , contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.

10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (http://www.in.gov/idem/4148.htm (http://www.in.gov/idem/4148.htm)) under specific conditions. You also can seek an open burning variance from IDEM.

   However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you

must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus Histoplasma capsulatum, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm).)

   The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

   To learn more about radon, radon risks, and ways to reduce exposure visit: http://www.in.gov/isdh/regsvcs/radhealth/radon.htm (http://www.in.gov/isdh/regsvcs/radhealth/radon.htm), http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm), or http://www.epa.gov/radon/index.html (http://www.epa.gov/radon/index.html).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or

asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at http://www.in.gov/icpr/webfile/formsdiv/44593.pdf (http://www.in.gov/icpr/webfile/formsdiv/44593.pdf).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of $150 per project; projects below these amounts will be billed a fee of $50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: http://www.in.gov/idem/4983.htm (http://www.in.gov/idem/4983.htm).

4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978 , or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: http://www.in.gov/isdh/19131.htm (http://www.in.gov/isdh/19131.htm).

5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2 , Asphalt Paving Rule (http://www.ai.org/legislative/iac/T03260/A00080.PDF (http://www.ai.org/legislative/iac/T03260/A00080.PDF)).

6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.

7. For more information on air permits visit: http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ)at 317-308-3103.

2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).

3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.

4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.

5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).

6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that is it the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at http://www.in.gov/idem/5284.htm (http://www.in.gov/idem/5284.htm), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

The project is located in Wells County, Indiana on SR 3, 2.46 Miles North of SR 18. The bridge carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date: 10/03/2019

Signature of the INDOT
Project Engineer or Other Responsible Agent
John Langmaid

Date: 8/7/19

Signature of the
For Hire Consultant Rachel Pluckebaum

Rachel Pluckebaum

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
Phone: (812) 334-4261 Fax: (812) 334-4273
http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

In Reply Refer To: March 25, 2021
Consultation Code: 03E12000-2019-SLI-1279
Event Code: 03E12000-2021-E-04784
Project Name: 1800051 Bridge Project, 2.46 Miles North of SR 18

Subject: Updated list of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/s7process/index.html. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act *(*16 U.S.C. 703 *et seq*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
(812) 334-4261

Project Summary

Consultation Code: 03E12000-2019-SLI-1279
Event Code: 03E12000-2021-E-04784
Project Name: 1800051 Bridge Project, 2.46 Miles North of SR 18
Project Type: TRANSPORTATION
Project Description: The project is located in Wells County, Indiana on SR 3, 2.46 Miles North of SR 18. The bridge (structure (003-90-01420C) carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement. Tree clearing is expected to be 0.75 acre and will be within 75 feet from pavement. Construction is expected to begin in February 2023 and last 4 months. On July 10, 2019 the USFWS did not indicate the presence of federally endangered species within 0.5 mile of the project area. A bridge inspection on April 3, 2019 found unspecified evidence of bat use but inspections on September 13, 2019, April 1, 2020, and March 22, 2021 did not. No permanent lighting will be installed. It is the contractor's decision whether temporary lighting will be needed, thus temporary lighting will be assumed.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.586878677019726,-85.37172055304936,14z

Counties: Wells County, Indiana

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403-2121
Phone: (812) 334-4261 Fax: (812) 334-4273
http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

In Reply Refer To: March 25, 2021
Consultation code: 03E12000-2019-I-1279
Event Code: 03E12000-2021-E-04806
Project Name: 1800051 Bridge Project, 2.46 Miles North of SR 18

Subject: Concurrence verification letter for the '1800051 Bridge Project, 2.46 Miles North of SR 18' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **1800051 Bridge Project, 2.46 Miles North of SR 18** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

1800051 Bridge Project, 2.46 Miles North of SR 18

Description

The project is located in Wells County, Indiana on SR 3, 2.46 Miles North of SR 18. The bridge (structure (003-90-01420C) carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement. Tree clearing is expected to be 0.75 acre and will be within 75 feet from pavement. Construction is expected to begin in February 2023 and last 4 months. On July 10, 2019 the USFWS did not indicate the presence of federally endangered species within 0.5 mile of the project area. A bridge inspection on April 3, 2019 found unspecified evidence of bat use but inspections on September 13, 2019, April 1, 2020, and March 22, 2021 did not. No permanent lighting will be installed. It is the contractor's decision whether temporary lighting will be needed, thus temporary lighting will be assumed.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat[1]?

   [1] See Indiana bat species profile

   Automatically answered
   Yes

2. Is the project within the range of the Northern long-eared bat[1]?

   [1] See Northern long-eared bat species profile

   Automatically answered
   Yes

3. Which Federal Agency is the lead for the action?

   A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

   [1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

   No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/ rail surfaces[1]?

   [1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

   No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum[1]?

   [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

   No

7. Is the project located **within** a karst area?

   No

8. Is there *any* suitable[1] summer habitat for Indiana Bat or NLEB **within** the project action area[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

   [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

   [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the national consultation FAQs.

   Yes

9. Will the project remove *any* suitable summer habitat[1] and/or remove/trim any existing trees **within** suitable summer habitat?

   [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

   Yes

10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?

    No

11. Have presence/probable absence (P/A) summer surveys[1][2] been conducted[3][4] **within** the suitable habitat located within your project action area?

    [1] See the Service's summer survey guidance for our current definitions of suitable habitat.

    [2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

    [3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

    [4] Negative presence/probable absence survey results obtained using the summer survey guidance are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

    No

12. Does the project include activities **within documented Indiana bat habitat**[1][2]?

    [1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

    [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

    No

13. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

    Yes

14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur[1]?

    [1] Coordinate with the local Service Field Office for appropriate dates.

    B) During the inactive season

15. Does the project include activities **within documented NLEB habitat**[1][2]?

    [1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

    [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

    No

16. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

    Yes

17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

    B) During the inactive season

18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces?

    Yes

19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

    No

20. Are *all* trees that are being removed clearly demarcated?

    Yes

21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

    No

22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

    No

23. Does the project include slash pile burning?

    No

24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

    Yes

25. Is there *any* suitable habitat[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

    [1] See the Service's current summer survey guidance for our current definitions of suitable habitat.

    Yes

26. Has a bridge assessment[1] been conducted **within** the last 24 months[2] to determine if the bridge is being used by bats?

    [1] See User Guide Appendix D for bridge/structure assessment guidance

    [2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

    Yes

    SUBMITTED DOCUMENTS

    - *003-90-01420 C Inspection Report 2020_excerpt.pdf https://ecos.fws.gov/ipac/project/4J5F7TGFDNCLJH27AS222P7JAU/projectDocuments/100571050*
    - *Bridges 3-90-01420 C and 19112-20-02021_Inspection email.pdf https://ecos.fws.gov/ipac/project/4J5F7TGFDNCLJH27AS222P7JAU/projectDocuments/100571051*

27. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)[1]?

    [1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

    Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

    No

28. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

    No

29. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

    No

30. Will the project involve the use of **temporary** lighting *during* the active season?

    Yes

31. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

    Yes

32. Will the project install new or replace existing **permanent** lighting?

    No

33. Does the project include percussives or other activities (**not including tree removal/ trimming or bridge/structure work**) that will increase noise levels above existing traffic/ background levels?

    No

34. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

    Examples: lining roadways, unlighted signage , rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

    Yes

35. Will the project raise the road profile **above the tree canopy**?

    No

36. Are the project activities that are not associated with habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

    Automatically answered

    Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

37. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

    Automatically answered

    Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

38. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

    Automatically answered

    Yes, because the tree removal/trimming that occurs outside of the NLEB's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

39. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

    Automatically answered

    Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

40. **General AMM 1**

    Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

    Yes

41. **Tree Removal AMM 1**
    Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal[1] in excess of what is required to implement the project safely?

    Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

    [1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat.

    Yes

42. **Tree Removal AMM 3**
    Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

    Yes

43. **Tree Removal AMM 4**
    Can the project avoid cutting down/removal of *all* (1) **documented**[1] Indiana bat or NLEB roosts[2] (that are still suitable for roosting), (2) trees **within** 0.25 miles of roosts, and (3) documented foraging habitat any time of year?

    [1] The word documented means habitat where bats have actually been captured and/or tracked.

    [2] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

    Yes

44. **Lighting AMM 1**
    Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

    Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

   N/A

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

   N/A

3. How many acres[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

   [1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0.75

4. Please describe the proposed bridge work:

   The project is located in Wells County, Indiana on SR 3, 2.46 Miles North of SR 18. The bridge (structure (003-90-01420C) carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement. Tree clearing is expected to be 0.75 acre and will be within 75 feet from pavement. No permanent lighting will be installed. It is the contractor's decision whether temporary lighting will be needed, thus temporary lighting will be assumed.

5. Please state the timing of all proposed bridge work:

   February 2023, lasting 4 months.

6. Please enter the date of the bridge assessment:

   April 3, 2019, September 13, 2019, April 1, 2020, and March 22, 2021

Avoidance And Minimization Measures (AMMs)

This determination key result includes the committment to implement the following Avoidance and Minimization Measures (AMMs):

TREE REMOVAL AMM 1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

TREE REMOVAL AMM 2

Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed.

TREE REMOVAL AMM 3

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or
documented foraging habitat any time of year.

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

Determination Key Description: FHWA, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on December 29, 2020. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

APPENDIX D: Bridge/Structure Assessment Form

This form will be completed and submitted to the District Environmental Manager by the Contractor prior to conducting any work below the deck surface either from the underside; from activities above that bore down to the underside; from activities that could impact expansion joints; from deck removal on bridges; or from structure demolition for bridges/structures within 1000 feet of suitable bat habitat.

DOT Project #	Water Body	Date/Time of Inspection	Within 1,000ft of suitable bat habitat (circle one)
1800051	Prairie Creek	13 Sep '19 9:30 AM	(Yes) / No

Route	County	Federal Structure ID
SR 3	Wells	003-90-1420 C

If the bridge/structure is 1,000 feet or more from suitable bat habitat (e.g., an urban or agricultural area without suitable foraging habitat or corridors linking the bridge to suitable foraging habitat), check box and STOP HERE. No assessment required. ☐
Please submit to the U.S. Fish and Wildlife Service.

Areas Inspected (Check all that apply)

Bridges		Culverts/Other Structures		Summary Info (circle all that apply)			
All vertical crevices sealed at the top and 0.5-1.25" wide & ≥4" deep	✓	Crevices, rough surfaces or imperfections in concrete		Human disturbance or traffic under bridge/in culvert or at the structure	High	(Low)	None
All crevices >12" deep & not sealed	✓	Spaces between walls, ceiling joists		Possible corridors for netting	None/poor	Marginal	(Excellent)
All guardrails	✓						
All expansion joints	✓						
Spaces between concrete end walls and the bridge deck	✓						

Last Revised May 31, 2017

Vertical surfaces on concrete I-beams	N/A						

Evidence of Bats (Circle all that apply) Presence of one or more indicators is sufficient evidence that bats may be using the structure.

(None) Previous bridge inspection notes BATS with no comment. I inspected all spans with spotlight + binoculars (8x) and only found a RAT SNAKE + expected insects + WASP NESTS. All staining was from water & corrosion.

Visual (e.g. survey, thermal, emergent etc.)
- Live __number seen
- Dead __number seen

Photo documentation Y/N

Guano
Odor Y/N
Photo documentation Y/N

Staining definitively from bats
Photo documentation Y/N

Audible

Assessment Conducted By: Kirk Roth, Corradino LLC **Signature(s):** _____

District Environmental Use Only: Date Received by District Environmental Manager: _____

DOT Bat Assessment Form Instructions

1. Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges, regardless of whether assessments have been conducted in the past.
2. Any bridge/structure suspected of providing habitat for any species of bat will be removed from work schedules until such time that the DOT has coordinated with the USFWS. Additional studies may be undertaken by the DOT to determine what species may be utilizing each structure identified as supporting bats prior to allowing any work to proceed.
3. Any questions should be directed to the District Environmental Manager.

Last Revised June 2017

From:	Holzinger, Linda
To:	Mettler, Madeline
Subject:	Bridges 3-90-01420 C and (19)112-20-02021
Date:	Thursday, March 25, 2021 6:49:10 AM
Attachments:	image002.png image003.png image004.png image005.png image006.png

---

Madeline,

I returned to both of the following bridges 03-90-01420 C (over Prairie Creek) and (19)112-20-07007 (over Christiana creek) on March 22. I could not find any bats or evidence of bats at that time.

Thank You

Linda Holzinger

LINDA HOLZINGER

BRIDGE INSPECTION

5333 Hatfield Road

Fort Wayne, IN 46808

Office: (260) 969-8203 ext. 14203

Cell: (260) 442-2677

Email: LHolzinger@indot.IN.gov

APPENDIX D

Section 106 of the NHPA

DES 1800051

Minor Projects PA Project Assessment Form– Category B Projects with Archaeology Work

Date: 1/15/2020

Project Designation Number: 1800051

Route Number: SR 3

Project Description: Bridge Replacement Project, 2.46 miles north of SR 18

The project is located in Wells County, Indiana SR 3, 2.46 miles north of SR 18. The bridge crosses Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting; in addition, the bridge has timber wingwalls that are deteriorating.

This project will involve complete removal of the existing structure and replacement with a similarly sized (slightly longer) structure. Guardrail will be installed in all 4 quadrants of the structure. The vertical profile of SR 3 in the project area may be raised as much as one (1) foot. The horizontal alignment of SR 3 is not expected to change. A total of 1.6 acres of right-of-way (r/w) will be required for this project.

Feature crossed (if applicable): Prairie Creek

Township: Jackson Township

City/County: Wells County

Information reviewed (please check all that apply):

☑ General project location map ☑ USGS map ☑ Aerial photograph ☑ Interim Report

☐ Written description of project area ☐ General project area photos ☑ Soil survey data

☐ Previously completed historic property reports ☑ Previously completed archaeology reports

☑ Bridge Inspection Information

Other (please specify): SHAARD GIS; SHAARD; online street-view imagery; Indiana Historic Building, Bridges, and Cemeteries Map (IHBBCM); Bridge Inspection Application System (BIAS); County GIS data (accessed via https://beacon.schneidercorp.com/); 2010 INDOT-sponsored *Historic Bridge Inventory* (HBI); project information provided by Corradino, LLC, dated 12/24/2019 and on file at INDOT-CRO;

Greenlee, Rachel J.
2009 An Archaeological Records Check and Phase Ia Field Reconnaissance: A Bridge Replacement on SR 3 over Prairie Cree (INDOT Des. No. 0800030), in Jackson Township, Wells County, Indiana. Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, In.

Results of the Records Review for Above-Ground Resources:

With regard to above-ground resources, an INDOT-Cultural Resources Office (CRO) historian, who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Wells County. No listed resources are present within 0.25 mile of the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

The *Wells County Interim Report* (2010; Jackson Township) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The SHAARD information was checked against the Interim Report hard-copy maps. No IHSSI sites are recorded within 0.25 mile of the project.

Land surrounding the project area is rural. Wooded areas are present on either side of the roadway with agricultural fields beyond the woods and north of the project area. Two (2) above-ground residential properties are within 0.25 mile of the project, north of the project area. Both residential properties were constructed in the late-twentieth century and will not be 50 years old or older by the time of project letting in 2023. Therefore, neither property is considered eligible to the National Register for the purposes of this determination.

The subject bridge (Bridge #003-90-01420 C; NBI #1230) is a single-span, pre-stressed concrete box beam bridge originally built in 1932, and reconstructed in 1979. The bridge length is 62 feet and the deck width, out-to-out, is 36.5 feet. The bridge was not included in the INDOT-sponsored *Historic Bridge Inventory* due to its post-1965 construction the cutoff year for inclusion in the inventory. On November 2, 2012, the Advisory Council on Historic Preservation (ACHP) issued the *Program Comment for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges* (*Program Comment*). The *Program Comment* relieves federal agencies from the Section 106 requirement to consider the effects of undertakings on most concrete and steel bridges built after 1945. On March 19, 2013, federal agencies were approved to use the *Program Comment* for Indiana projects.

The *Program Comment* applies for this bridge because it has not been previously listed in or determined eligible for listing in the National Register of Historic Places and it is not located in or adjacent to a historic district (Section IV.A of the *Program Comment*). As an example of a box beam bridge, this bridge is also not one of the types to which the *Program Comment* does not apply (arch bridges, truss bridges, bridges with movable spans, suspension bridges, cable-stayed bridges, or covered bridges [Section IV.B]). Additionally, this bridge has not been identified as having exceptional significance for association with a person or event, being a very early or particularly important example of its type in the state or the nation, having distinctive engineering or architectural features that depart from standard designs, or displaying other elements that were engineered to respond to a unique environmental context (Section IV.C). This bridge also has not been identified as having some exceptional quality. Because the above criteria from the *Program Comment* have been met, no individual consideration under Section 106 is required for Bridge #003-90-01420 C; NBI #1230.

Based on the available information, as summarized above, no above-ground concerns exist as long as the project scope does not change.

Archaeology Report Author/Date:

Rachel J. Greenlee/2009

Summary of Archaeology Investigation Results:

With regard to archaeological resources, the proposed project is limited to replacing the bridge carrying SR 3 over Prairie Creek. The proposed project area was previously examined for archaeological recourse by INDOT, CRO in 2009 (Greenlee 2009). This survey investigated a 3.75 acre project area effectively covering the proposed r/w needed for this project. No archaeological sites were identified and no further work was recommended (Greenlee 2009). According to SHAARD GIS, no archaeological sites have been recorded in or adjacent to the project area since the 2009 investigation. Therefore, there are no archaeological concerns.

Does the project appear to fall under the Minor Projects PA? yes ☒ no ☐

If yes, please specify category and number (applicable conditions are highlighted):

B-4. Installation of new safety appurtenances, including but not limited to, guardrails, barriers, glare screens, and crash attenuators, under the following conditions ***[BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]***:

Condition A (Archaeological Resources)
One of the two conditions listed below must be met *(EITHER Condition i or Condition ii must be satisfied)*:

i. Work occurs in previously disturbed soils; *OR*
ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE**.**

Condition B (Above-Ground Resources)
Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

B-12. Replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed), under the following conditions ***[BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]***:

Condition A (Archaeological Resources)
One of the two conditions listed below must be met *(EITHER Condition i or Condition ii must be satisfied)*:

i. Work occurs in previously disturbed soils; *OR*
ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the

SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE**.**

Condition B (Above-Ground Resources)

The conditions listed below must be met ***(BOTH Condition i and Condition ii must be satisfied)***

i. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*

ii. With regard to the subject bridge, at least one of the conditions listed below is satisfied *(AT LEAST one of the conditions a, b or c, must be fulfilled)*:

   a. The latest Historic Bridge Inventory identified the bridge as non-historic (see https://www.in.gov/indot/2531.htm);

   b. The bridge was built after 1945, and is a common type as defined in Section V. of the *Program Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges* issued by the Advisory Council on Historic Preservation on November 2, 2012 for so long as that Program Comment remains in effect AND the considerations listed in Section IV of the Program Comment do not apply;

   c. The bridge is part of the Interstate system and was determined not eligible for the National Register under the Section 106 Exemption Regarding Effects to the Interstate Highway System adopted by the Advisory Council on Historic Preservation on March 10, 2005, for so long as that Exemption remains in effect.

If no, please explain:

Additional comments: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, construction in the immediate area of the find will be stopped and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

INDOT Cultural Resources staff reviewer(s): Kelyn Alexander and Shaun Miller

****Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*

APPENDIX E

Red Flag and Hazardous Materials

DES 1800051

INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-5113
FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness, Commissioner

Date: September 16, 2019

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Rachel Pluckebaum
Corradino, LLC
200 S. Meridian St., Suite #330
Indianapolis, IN 46225
rpluckebaum@corradino.com

Re: RED FLAG INVESTIGATION
DES #1800051, State Project
Project description: Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The project is located in Wells County, Indiana on SR 3, 2.46 miles north of SR 18. The bridge carries SR 3 over Prairie Creek. The bridge's adjacent box beams are significantly deteriorated with several spalls. The box beam strands are exposed and rusting. The bridge also has timber wingwalls that are deteriorating. Due to the severity of the deterioration of the bridge, the proposed scope for this project is a full structure replacement.
Bridge and/or Culvert Project: Yes ☒ No ☐ Structure # 003-90-01420 C
If this is a bridge project, is the bridge Historical? Yes ☐ No ☒ , Select ☐ Non-Select ☐
Proposed right of way: Temporary ☒ # Acres: 0.3 Permanent ☒ # Acres: 1.5, Not Applicable ☐
Type of excavation: 15 feet maximum at the site of the existing bridge.
Maintenance of traffic: Detour
Work in waterway: Yes ☒ No ☐ Below ordinary high water mark: Yes ☐ No ☒
State Project: ☒ LPA: ☐
Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	**1**	Recreational Facilities	**N/A**
Airports[1]	**N/A**	Pipelines	**N/A**
Cemeteries	**1**	Railroads	**N/A**
Hospitals	**N/A**	Trails	**N/A**
Schools	**N/A**	Managed Lands	**N/A**

[1]In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

Explanation:
Cemeteries: One (1) cemetery is located within the 0.5 mile search radius. The cemetery, associated with Asbury Chapel, is 0.41 mile south of the project area. No impact is expected.

Religious Facilities: One (1) religious facility is located within the 0.5 mile search radius. The religious facility, Asbury Chapel, is 0.43 mile south of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	**N/A**	Canal Routes - Historic	**N/A**
Karst Springs	**N/A**	NWI - Wetlands	**9**
Canal Structures – Historic	**N/A**	Lakes	**2**
NPS NRI Listed	**N/A**	Floodplain - DFIRM	**1**
NWI-Lines	**11**	Cave Entrance Density	**N/A**
IDEM 303d Listed Streams and Lakes (Impaired)	**N/A**	Sinkhole Areas	**N/A**
Rivers and Streams	**1**	Sinking-Stream Basins	**N/A**

Explanation:
NWI – Lines: Eleven (11) NWI-lines are located within the 0.5 mile search radius. The nearest NWI-line is located within the project limits. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Rivers and Streams: One (1) stream segment is located within the search radius. The stream segment, Prairie Creek, is located within the project limits. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

NWI – Wetlands: Nine (9) wetlands are located within the 0.5 mile search radius. The nearest NWI – Wetland is adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Lakes: Two (2) lakes are located within the 0.5 mile search radius. The nearest lake is 0.47 mile from the project area. No impact is expected.

Floodplain – DFIRM: One (1) floodplain polygon is located within the 0.5 mile search radius. The project area is located within one of the floodplain polygons. Coordination with INDOT Ecology and Waterway Permitting will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	**45**	Mineral Resources	**N/A**
Mines – Surface	**N/A**	Mines – Underground	**N/A**

Explanation:
Petroleum Wells: Forty-five (45) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well is 0.04 mile east of the project area. No impact is expected.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	**N/A**	Manufactured Gas Plant Sites	**N/A**
RCRA Generator/ TSD	**N/A**	Open Dump Waste Sites	**N/A**
RCRA Corrective Action Sites	**N/A**	Restricted Waste Sites	**N/A**
State Cleanup Sites	**N/A**	Waste Transfer Stations	**N/A**
Septage Waste Sites	**N/A**	Tire Waste Sites	**N/A**
Underground Storage Tank (UST) Sites	**N/A**	Confined Feeding Operations (CFO)	**N/A**
Voluntary Remediation Program	**N/A**	Brownfields	**N/A**
Construction Demolition Waste	**N/A**	Institutional Controls	**N/A**
Solid Waste Landfill	**N/A**	NPDES Facilities	**N/A**
Infectious/Medical Waste Sites	**N/A**	NPDES Pipe Locations	**N/A**
Leaking Underground Storage (LUST) Sites	**N/A**	Notice of Contamination Sites	**N/A**

Explanation: N/A

ECOLOGICAL INFORMATION SUMMARY

The Wells County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of endangered species within the 0.5 mile search radius.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by farm fields. The April 3, 2019, inspection report for bridge #003-90-01420 C states that evidence of bats was seen or heard under the bridge. Additional coordination with

INDOT ES will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFW's IPaC System for Listed Bat Consultation for INDOT Projects."

An inquiry using the USFWS Information for Planning and Consultation (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumble Bee, in or within 0.5 mile of the project area. No impact is expected.

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE: N/A

WATER RESOURCES:
The presence of following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

One (1) NWI – Line is located within the project area.

One (1) stream segment, Prairie Creek, is located within the project area.

One (1) wetland is located within the project area.

The project area is located within a floodplain.

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

ECOLOGICAL INFORMATION: Bats were reported beneath the structure. Additional coordination with INDOT ES will be necessary. Coordination with USFW and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared bat will be completed according to "Using the USFW's IPaC System for Listed Bat Consultation for INDOT Projects."

INDOT Environmental Services concurrence: Nicole Fohey-Breting Digitally signed by Nicole Fohey-Breting Date: 2019.10.02 09:40:47 -04'00' _____(Signature)

Prepared by:
Rachel Pluckebaum
Environmental Specialist
Corradino, LLC

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

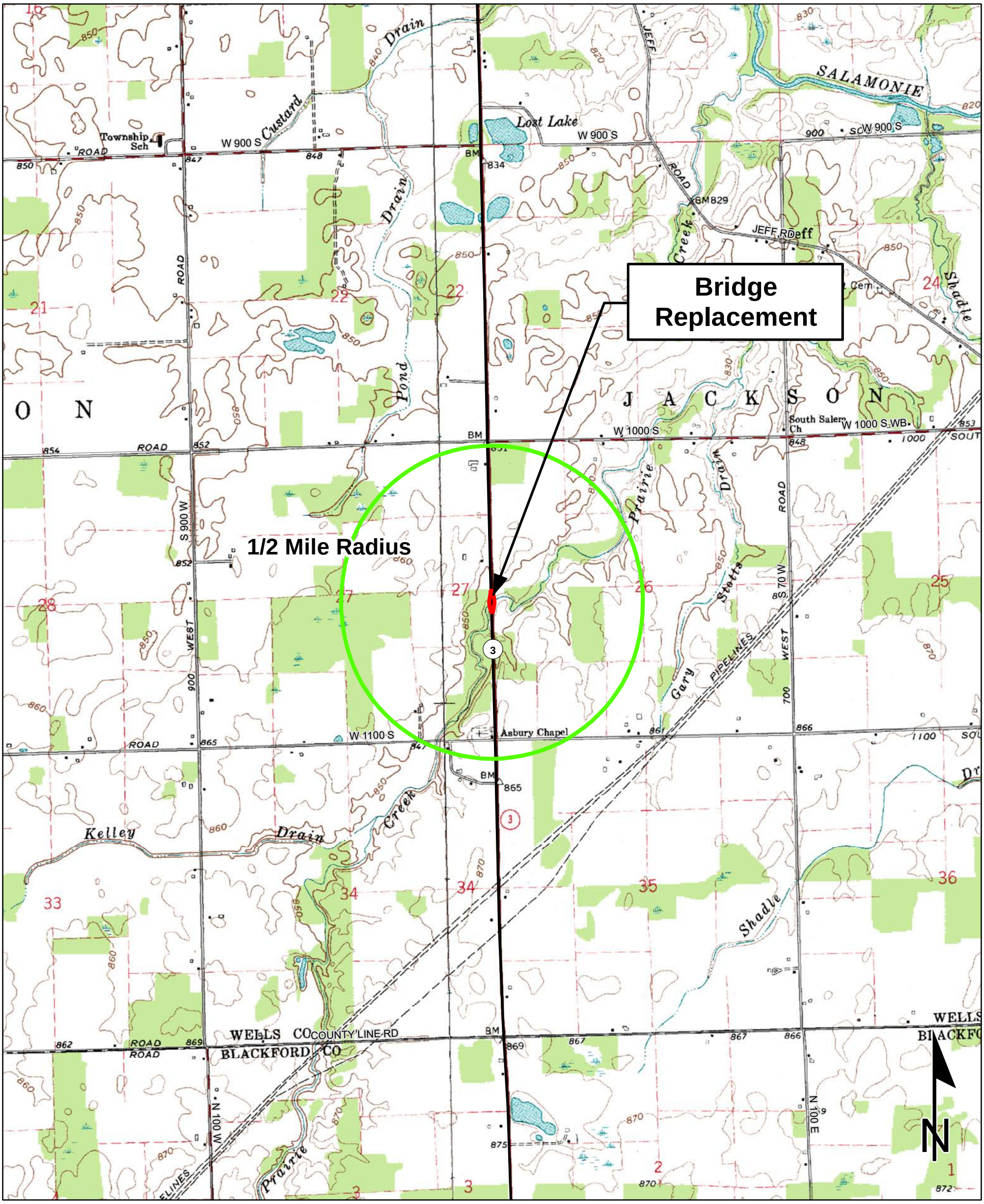
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: YES

HAZMAT CONCERNS: N/A

Red Flag Investigation - Site Location
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



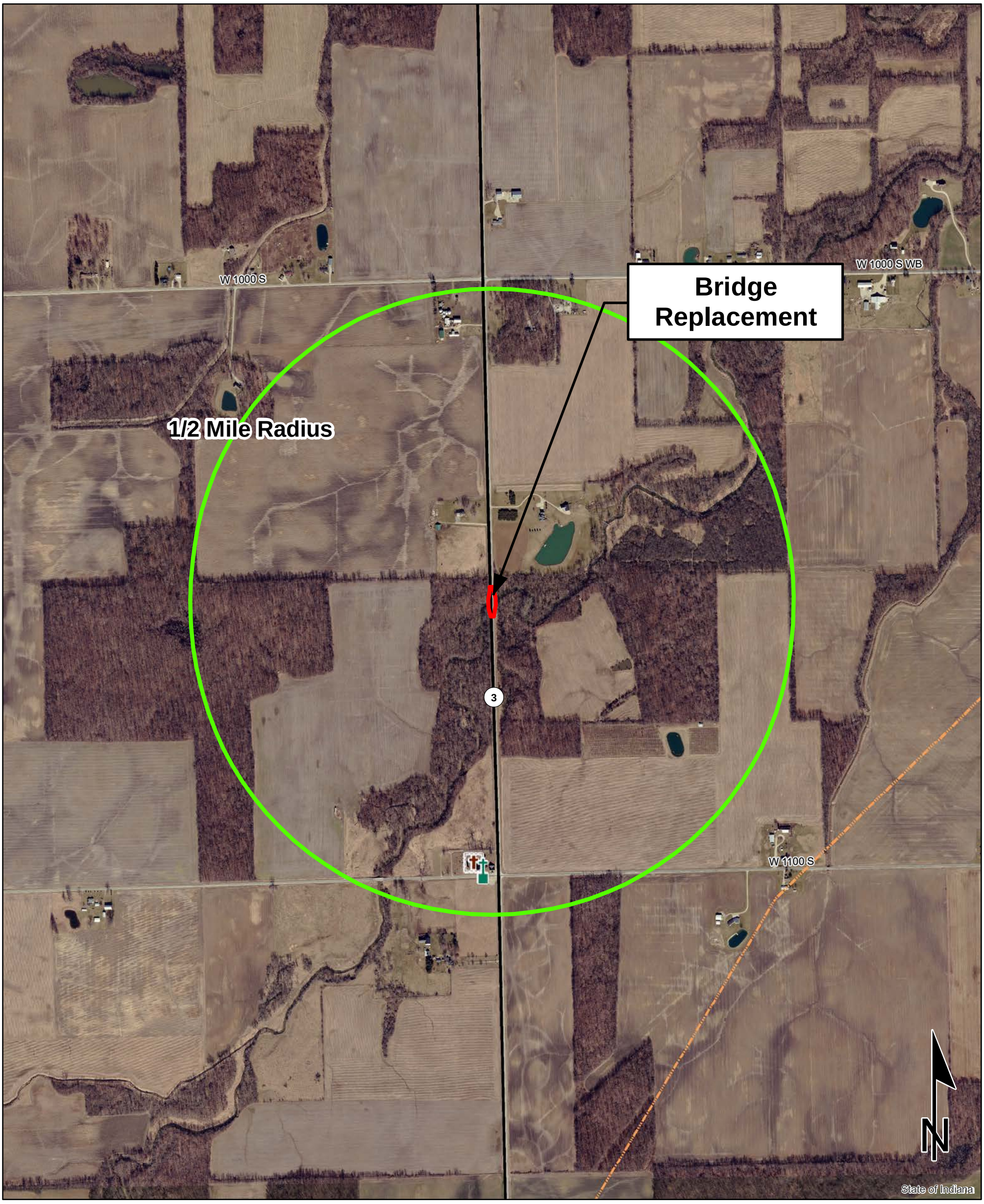
0.4 0.2 0 0.4 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

ALAMO QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

Red Flag Investigation - Infrastructure
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



0.2 0.1 0 0.2 Miles

Sources:

Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library

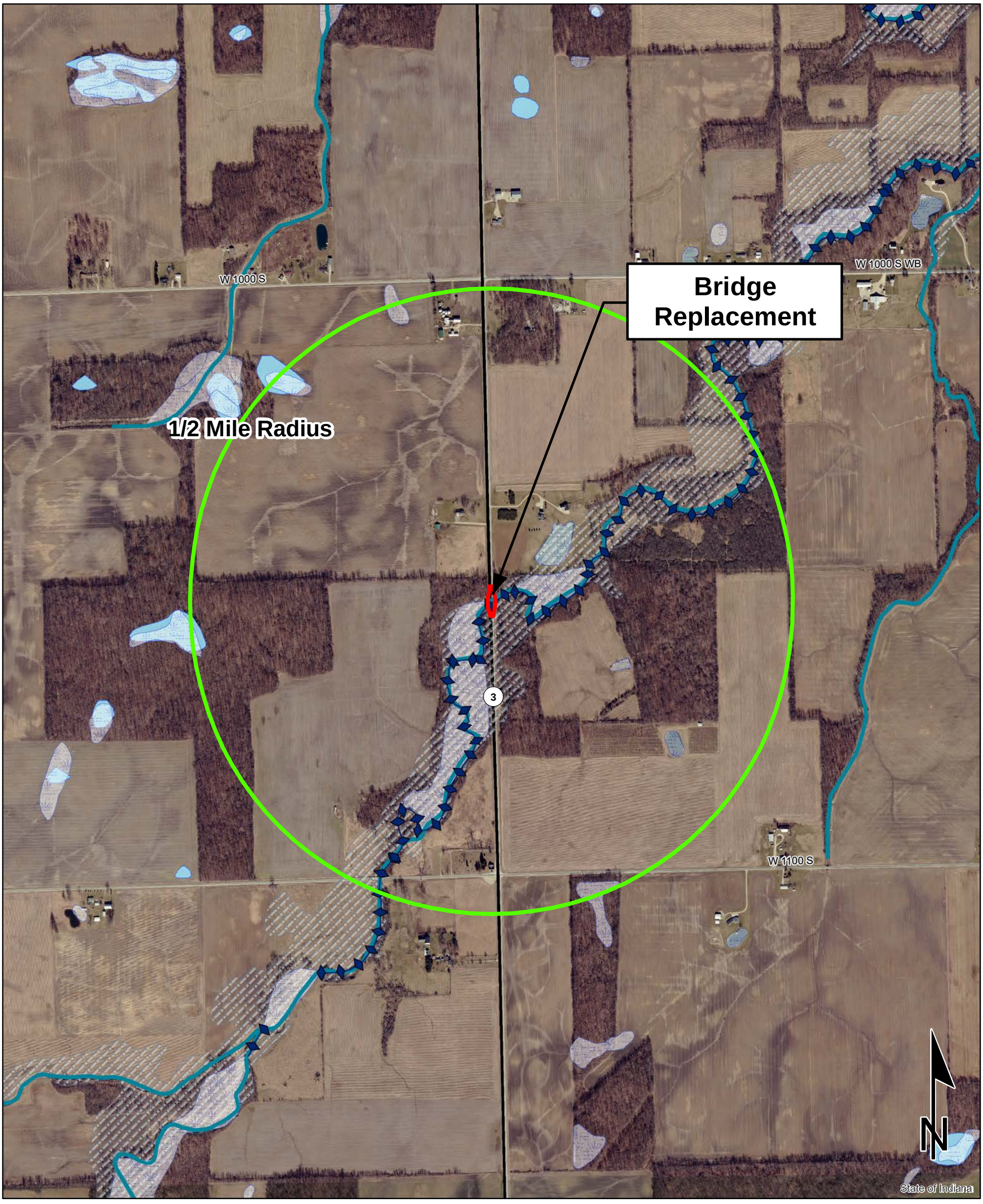
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

- Religious Facility
- Airport
- Cemeteries
- Hospital
- School
- Recreation Facility
- Pipeline
- Railroad
- Trails
- Managed Lands
- County Boundary
- Project Area
- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Water Resources
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



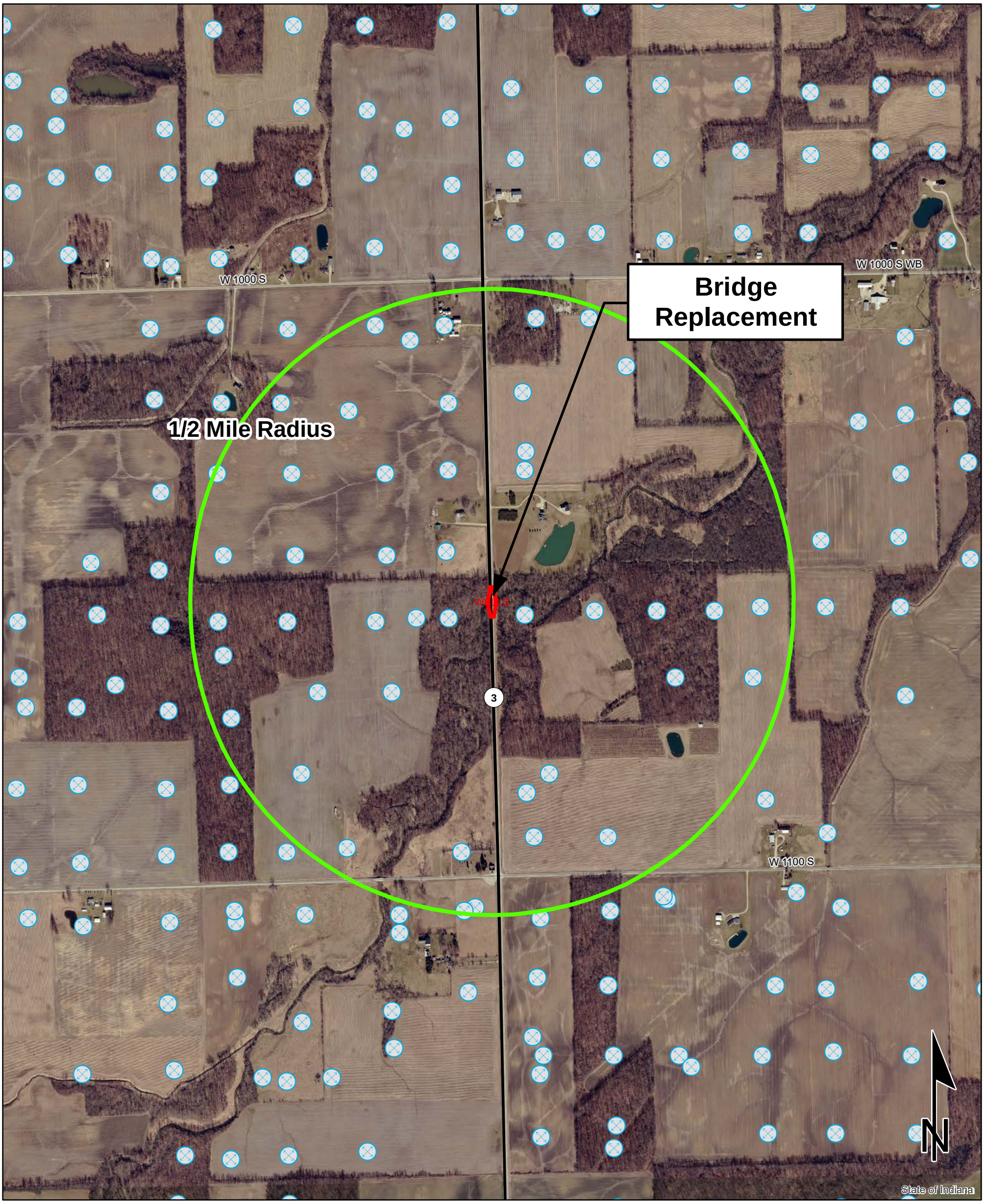
0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

- NWI - Point
- Karst Spring
- NWI- Line
- Impaired_Stream_Lake
- NPS NRI listed
- River
- Canal Structure - Historic
- Canal Route - Historic
- Wetlands
- Lake
- Floodplain - DFIRM
- Cave Entrance Density
- Sinkhole Area
- Sinking-Stream Basin
- County Boundary
- Project Area
- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Mining & Mineral Exploration
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

- Oil and Gas Wells
- Mineral Resources
- Mine - Surface
- Mine - Underground
- County Boundary
- Project Area
- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Indiana County Endangered, Threatened and Rare Species List

County: Wells

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Epioblasma rangiana	Northern Riffleshell	LE	SE	G2	S1
Epioblasma triquetra	Snuffbox	LE	SE	G3	S1
Obovaria subrotunda	Round Hickorynut	C	SE	G4	S1
Pleurobema clava	Clubshell	LE	SE	G1G2	S1
Ptychobranchus fasciolaris	Kidneyshell		SSC	G4G5	S2
Quadrula cylindrica cylindrica	Rabbitsfoot	LT	SE	G3G4T3	S1
Toxolasma lividus	Purple Lilliput	C	SSC	G3Q	S2
Villosa fabalis	Rayed Bean	LE	SE	G2	S1
Insect: Odonata (Dragonflies & Damselflies)					
Macromia wabashensis	Wabash River Cruiser		SE	G1G3Q	S1
Reptile					
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Nerodia erythrogaster neglecta	Copperbelly Water Snake	PS:LT	SE	G5T3	S2
Sistrurus catenatus	Eastern Massasauga	LT	SE	G3	S2
Bird					
Bartramia longicauda	Upland Sandpiper		SE	G5	S3B
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Mammal					
Myotis sodalis	Indiana Bat	LE	SE	G2	S1
Vascular Plant					
Andromeda glaucophylla	Bog Rosemary		ST	G5T5	S2
Arethusa bulbosa	Swamp-pink		SX	G5	SX
Carex arctata	Black Sedge		ST	G5	S2
Carex echinata	Little Prickly Sedge		SE	G5	S1
Carex limosa	Mud Sedge		SE	G5	S1
Dactylorhiza viridis	Long-bract Green Orchis		SE	G5	S1
Eriophorum gracile	Slender Cotton-grass		ST	G5	S2
Fragaria vesca var. americana	Woodland Strawberry		SE	G5T5	S1
Panax quinquefolius	American Ginseng		WL	G3G4	S3
Plantago cordata	Heart-leaved Plantain		SE	G4	S1
Platanthera orbiculata	Large Roundleaf Orchid		SX	G5	SX
Poa alsodes	Grove Meadow Grass		SR	G4G5	S3
Rorippa aquatica	Lake Cress		SE	G4?	S1
Viburnum opulus var. americanum	Highbush-cranberry		SE	G5T5	S1
Xyris difformis	Carolina Yellow-eyed Grass		ST	G5	S2
High Quality Natural Community					
Forest - flatwoods central till plain	Central Till Plain Flatwoods		SG	G3	S2
Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	G3?	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting

State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list

GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank

SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Wells

Species Name	Common Name	FED	STATE	GRANK	SRANK
Forest - upland mesic Central Till Plain	Central Till Plain Mesic Upland Forest		SG	GNR	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting

State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list

GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank

SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

APPENDIX F

Water Resources

DES 1800051

Waters of the U.S. Determination

SR 3 in Wells County, Indiana
Bridge Replacement, 2.46 miles north of SR 18
Designation Number 1800051
Asset Name: 003-90-01420 C

Prepared by:

Kirk Roth
kroth@corradino.com
317-488-2363
Corradino, LLC

March 25, 2021

1. Project Information

Dates of Field Reconnaissance:

Field work for this report was conducted on September 13, 2019 by Corradino, LLC.

Project Location:

Montpelier Quadrangle
Section 26 & 27, Township 25 North, Range 10 East
Wells County, Indiana
Coordinates: 40.58825 -85.37175

Project Description:

This project is located on SR 3, 2.46 miles north of SR 18, at structure 003-90-01420 C. SR 3 crosses Prairie Creek in the investigated area, which is surrounded by wooded terrain. The project will be a complete removal and replacement of the existing structure with a 90-foot long single span prestressed concrete girder bridge. A 1 foot raise in the profile grade at the structure is included in this design, in order to maintain the existing structure freeboard. The replacement structure will be sized with a similar bridge width to that of the existing structure. Scour protection (riprap on geotextiles) will be placed on the slope walls of the new structure. New guardrail will be placed in all quadrants. The preferred maintenance of traffic method is a full closure with a signed detour.

Due to its current deteriorating condition, the small structure will be replaced by a hydraulically adequate and sufficient structure. The water that passes through the structure will be maintained during the construction, with appropriate erosion and sediment control techniques, to ensure that sediment does not enter the waterway and flow into waters outside the project limits.

2. Desktop Reconnaissance

Soils

According to the Soil Survey Geographic (SSURGO) Database for Wells County, Indiana, the investigated area does contain soil areas with nationally listed hydric soils. The soil within the investigated area is primarily Saranac Silty Clay Loam (Se) and a small portion of the investigated area is Glynwood Clay Loam (GlpC3) at the north end. Saranac Silty Clay Loam is 100% hydric. Glynwood Clay Loam is 7% hydric.

National Wetland Inventory Information

Wetland/Water Feature Name	Location
Prairie Creek (PFO1A)	Investigated Area
PFO1A	Adjacent west of Investigated Area
PFO1A	0.03 mile east
PUBGx	0.09 mile northeast

National Hydrography Dataset Information

12-digit Hydrologic Unit – 051201020302

The National Hydrography Dataset (NHD) identifies two NHD flowlines which flow in or near the project area. Reach Code 05120102000042 is Prairie Creek, which flows through the project structure. Reach Code 05120102013374 is an unnamed tributary (UNT) to Prairie Creek which encounters Prairie Creek approximately 65 feet southwest of the project bridge and does not encounter any other features delineated in this report.

Reach Code	Flowline Type	Location
05120102000042	Stream/River	Project structure, extending southwest and northeast
05120102013374	Unclassified	65 feet southwest of project structure, extending northwest

Attached Documents:

- Project Location
- Topographic Map
- Aerial Map
- Water Resources
- FEMA/FIRM Map
- Soil Map
- Photo Key and Photo Log
- Wetland Datasheets
- Preliminary Jurisdictional Determination

3. Field Reconnaissance

Site reconnaissance was conducted on September 13, 2019 by Corradino, LLC.

Stream Analysis

Prairie Creek

The project structure is associated with the perennial Prairie Creek. Prairie Creek encounters Salamonie River. Salamonie River then encounters the Wabash River. Within the investigated area, Prairie Creek flows northeast and drains the surrounding wooded area. During the site inspection, flowing water was present, as well as an Ordinary High Water Mark (OHWM). Stream quality is considered average due to the mostly natural condition and large size, but high turbidity and lack of extensive cover for a stream of its size. The StreamStats website (https://streamstats.usgs.gov/ss/) show the drainage area of Prairie Creek to be 28.7 square miles at the investigated area.

Prairie Creek is a USGS blue line stream and reach code 05120102000042 in the National Hydrography Dataset. It is likely that Prairie Creek is a Water of the U.S. due to its apparent connectivity with a navigable water, the Wabash River. The OHWM was approximately 45 feet wide and 2.5 feet deep in a location 35 feet east of the project structure. The linear feet in the investigated area for Prairie Creek is 130 linear feet.

UNT to Prairie Creek

In the northwest quadrant of the investigated area, an ephemeral UNT encounters Prairie Creek. For the purposes of this report, this tributary is referred to as UNT to Prairie Creek. UNT to Prairie Creek encounters Prairie Creek approximately 25 feet east of the Prairie Creek bridge and drains the adjacent roadside and wooded area. During site inspection, shallow flowing water and an OHWM were present. Stream quality is considered poor due to its small size, lack of cover, and occurrence in a modified, ditch-like state. UNT to Prairie Creek could not be delineated using the StreamStats website, so its drainage is assumed to be less than a square mile. The drainage for UNT to Prairie Creek is included in the 28.7 square mile basin of Prairie Creek as mapped in StreamStats.

UNT to Prairie Creek does not appear on USGS Topographic Maps or the National Hydrography Dataset. INDOT acknowledges that UNT to Prairie Creek would likely not meet the definition of a jurisdictional stream, due to its ephemeral status. However, INDOT is requesting that USACE take jurisdiction of this stream. The OHWM was approximately 1.0 foot wide and 0.5 foot deep at a location approximately 50 feet upstream of Prairie Creek. The linear feet in the investigated area for UNT to Prairie Creek is 160 linear feet.

Table 1 – Stream Summary, SR 3, Wells County, Indiana, Designation Number 1800051

Stream Name	Photos	Lat/Long	OHW Width (feet)	OHW Depth (feet)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
Prairie Creek	1-6	40.58825 -85.37175	45	2.5	Yes (Perennial)	Yes (few)	Silt, Sand, Pebbles, Cobbles, Boulders	Average	Yes
UNT to Prairie Creek	7-12	40.588551 -85.371637	1.0	0.5	No (Ephemeral)	No	Silt, Sand, Pebbles	Poor	Yes

Wetland Analysis

Wetland 1

The ditch in the southeast quadrant of the investigated area was dominated extensively by the facultative wetland plant *Phalaris arundinacea*, and a small but dominant amount of the facultative upland *Juglans nigra* in the shrub stratum. Soils exhibited hydric soil indicator F6 – Redox Dark Surface. Wetland hydrology indicators were present including water-stained leaves and the secondary indicators drainage patterns and geomorphic position. These data are documented in wetland delineation Sample Point 1A. The adjacent area outside the ditch was dominated with the facultative upland *Setaria faberi* and *Schedonorous arundinaceus*. Soil and hydrology observations did not support wetland status outside the ditch. These data are documented in wetland delineation Sample Point 1B.

For the purposes of this report, this wetland is referred to as Wetland 1. Wetland 1 is considered a poor quality wetland due to small size and presence of invasive exotic vegetation. Wetland 1 is approximately 0.022 acre within the investigated area and is a palustrine emergent wetland. The wetland area is best defined by the ditch-like topography and the vegetation regime. Wetland 1 has a dominance of *Phalaris arundinacea* and absence of *Schedonorus arundinaceus* and *Setaria faberi*, although it must be noted that Phalaris occurs in non-dominant density outside of the wetland. Within the investigated area Wetland 1 extends from Prairie Creek south outside of the investigated area within the southeast quadrant. Wetland 1 ends just before the wingwall of the Prairie Creek Bridge. Due to its adjacency to Prairie Creek, Wetland 1 is a likely Water of the U.S.

Wetland 2

The area within the site boundaries was investigated for potential wetland characteristics. The depression in the southwest quadrant of the investigated area was dominated by the facultative wetland plants *Fraxinus pennsylvanica* and *Equisetum hyemale*, as well as the facultative *Acer negundo*. Soils exhibited hydric soil indicator F6 –Redox Dark Surface. Wetland hydrology indicators were present including drift deposits and water-stained leaves and the secondary indicators drainage patterns, geomorphic position and FAC-Neutral Test. These data are documented in wetland delineation Sample Point 2A. The adjacent slope and roadside was dominated primarily with the facultative upland *Schedonorous arundinaceus*. Soil and hydrology observations did not support wetland status. These data are documented in wetland delineation Sample Point 2B.

For the purposes of this report, this wetland is referred to as Wetland 2. Wetland 2 is considered an average quality wetland due to large size and presence of canopy cover, but limited botanical diversity or hydrologic function. Wetland 2 is approximately 0.023 acre within the investigated area and is a palustrine forested wetland. The wetland area is best defined by the depression in topography. Within the investigated area it extends from Prairie Creek to the toe of the slope of SR 3. Wetland 1 contacts Prairie Creek at the creek bank. Due to its connectivity with Prairie Creek, Wetland 1 is a likely Water of the U.S.

Table 2 – Wetland Point Summary, SR 3, Wells County, Indiana, Designation Number 1800051

Data Point	Vegetation	Soils	Hydrology	Wetland
1A	Yes	Yes	Yes	Yes
1B	No	Yes	No	No
2A	Yes	Yes	Yes	Yes
2B	No	Yes	No	No

Table 3 – Wetland Summary, SR 3, Wells County, Indiana, Designation Number 1800051

Wetland Name	Photo Number	Coordinates	Cowardin Type	Quality	Total Acreage	Likely Water of U.S.?
Wetland 1	13-20	40.588084 -85.371642	PEM	Poor	0.022	Yes
Wetland 2	21-28	40.588054 -85.371840	PFO	Average	0.023	Yes

Roadside Ditch Analysis

RSD1 (photos 29-31)

A roadside ditch occurs in the northwest quadrant of the investigated area and is referred to as RSD1 in this document. RSD1 does not exhibit an OHWM. RSD1 is dominated by facultative upland plants such as *Schedonorus arundinacea*. The vegetation present does not support wetland status. No signs of wetland hydrology were noted. RSD1 drains the nearby roadside and agricultural field. RSD1 ends to the south where it encounters Prairie Creek.

Due to the lack of an OHWM, RSD1 does not exhibit characteristics of a tributary. Because RSD1 is not a wetland or tributary, it is not likely a Water of the U.S.

4. Summary and Conclusions

As a running waterway directly traceable to the Wabash River, Prairie Creek and UNT to Prairie Creek within the investigated area are apparent jurisdictional Waters of the U.S. As wetlands adjacent to these waters, Wetland 1 and Wetland 2 are also apparent jurisdictional Waters of the U.S.

The jurisdictional area in the investigated area would extend to the limits of the OHWM of the channel on all banks of Prairie Creek and UNT to Prairie Creek. The jurisdictional area also includes Wetland 1, best defined as the ditch and adjacent areas in the southeast quadrant which include dominant *Phalaris arundinacea* and does not have *Schedonorus arundinaceus* or *Setaria faberi*. The jurisdictional area also includes Wetland 2, best defined as the low area in the southwest quadrant between Prairie Creek and the toe of the slope toward SR 3.

RSD1 is a non-jurisdictional feature within the study area.

No bat or bird use of the bridge was detected during the September 13, 2019 survey.

This waterway is a likely Water of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Acknowledgement:

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of Engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.

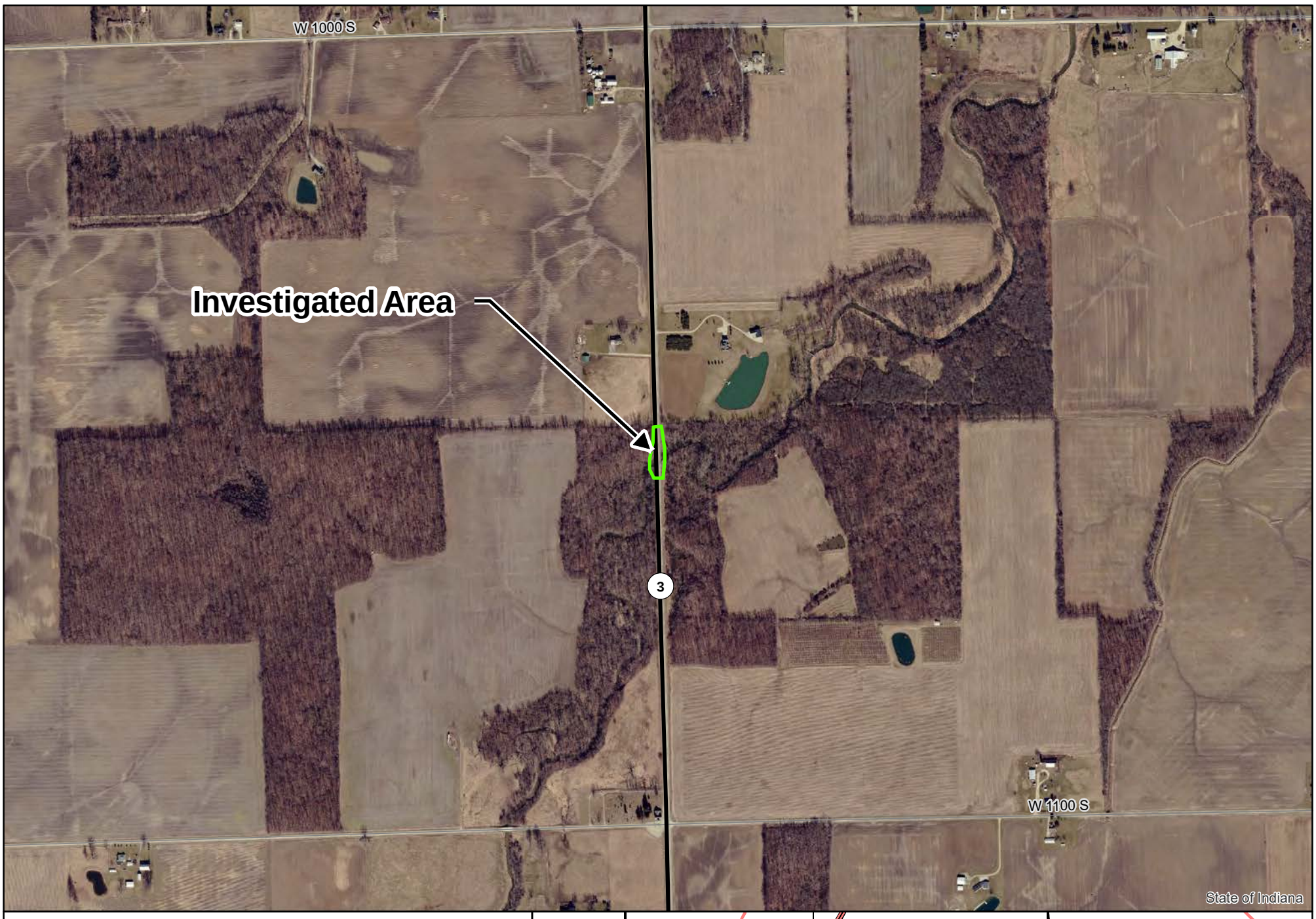
Kirk Roth

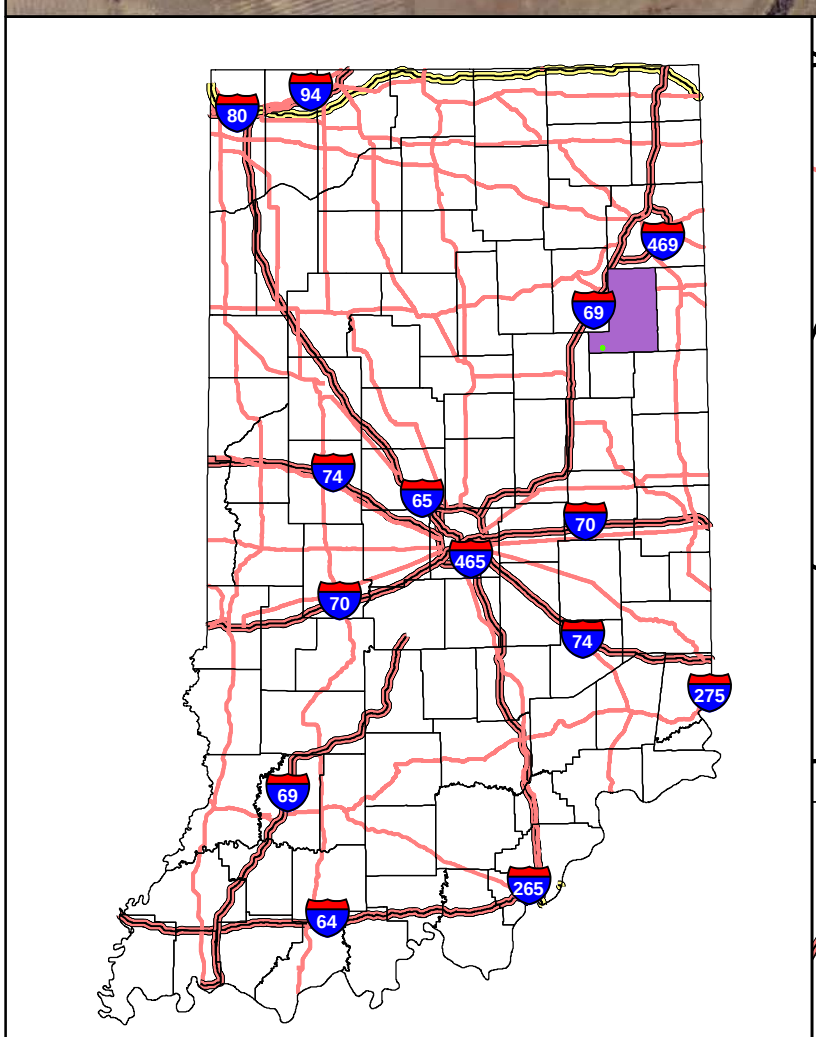
Environmental Scientist

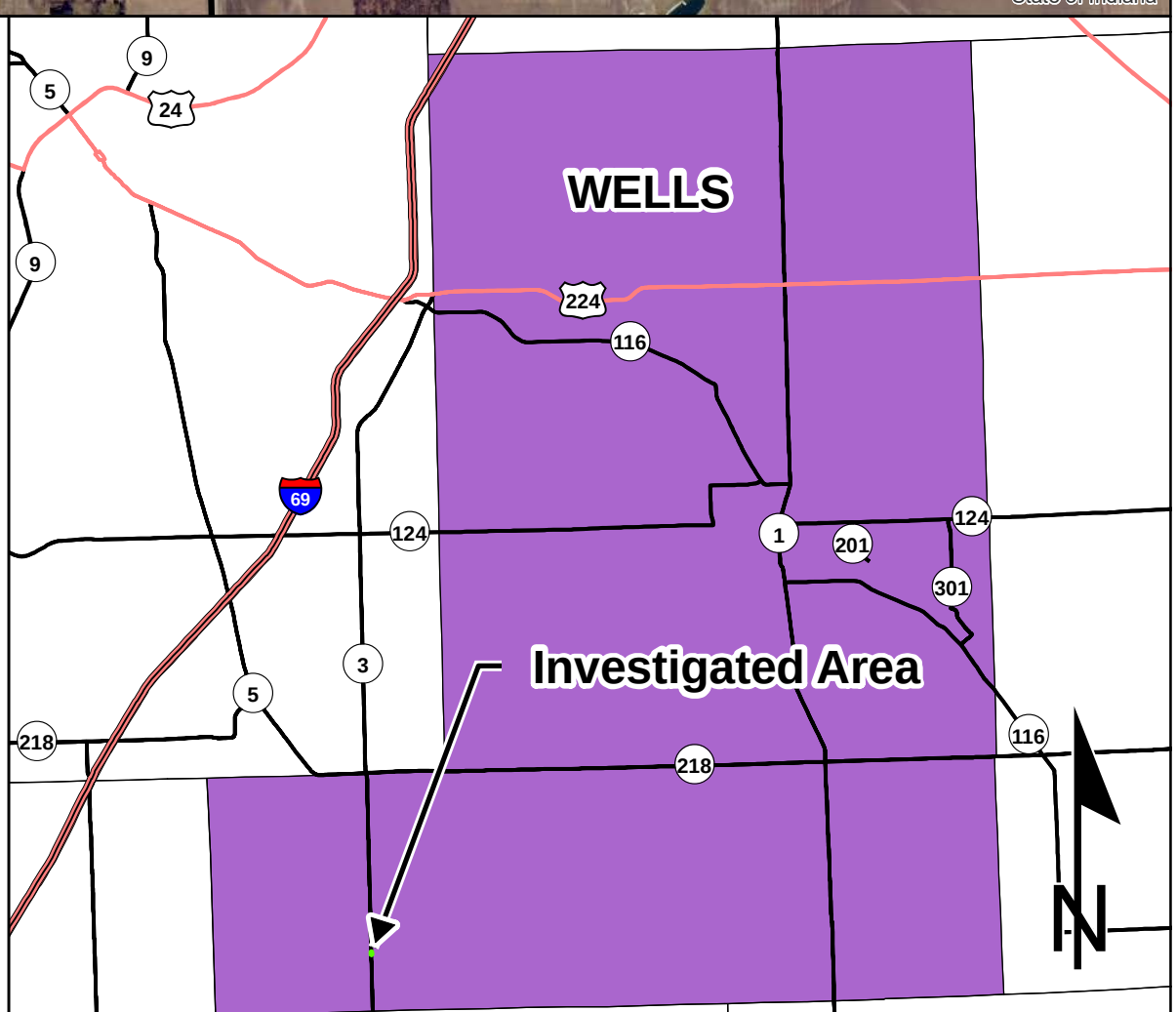
Corradino, LLC

March 25, 2021

Investigated Area Map
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana







0.2 0.1 0 0.2 Miles

Sources:

Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library

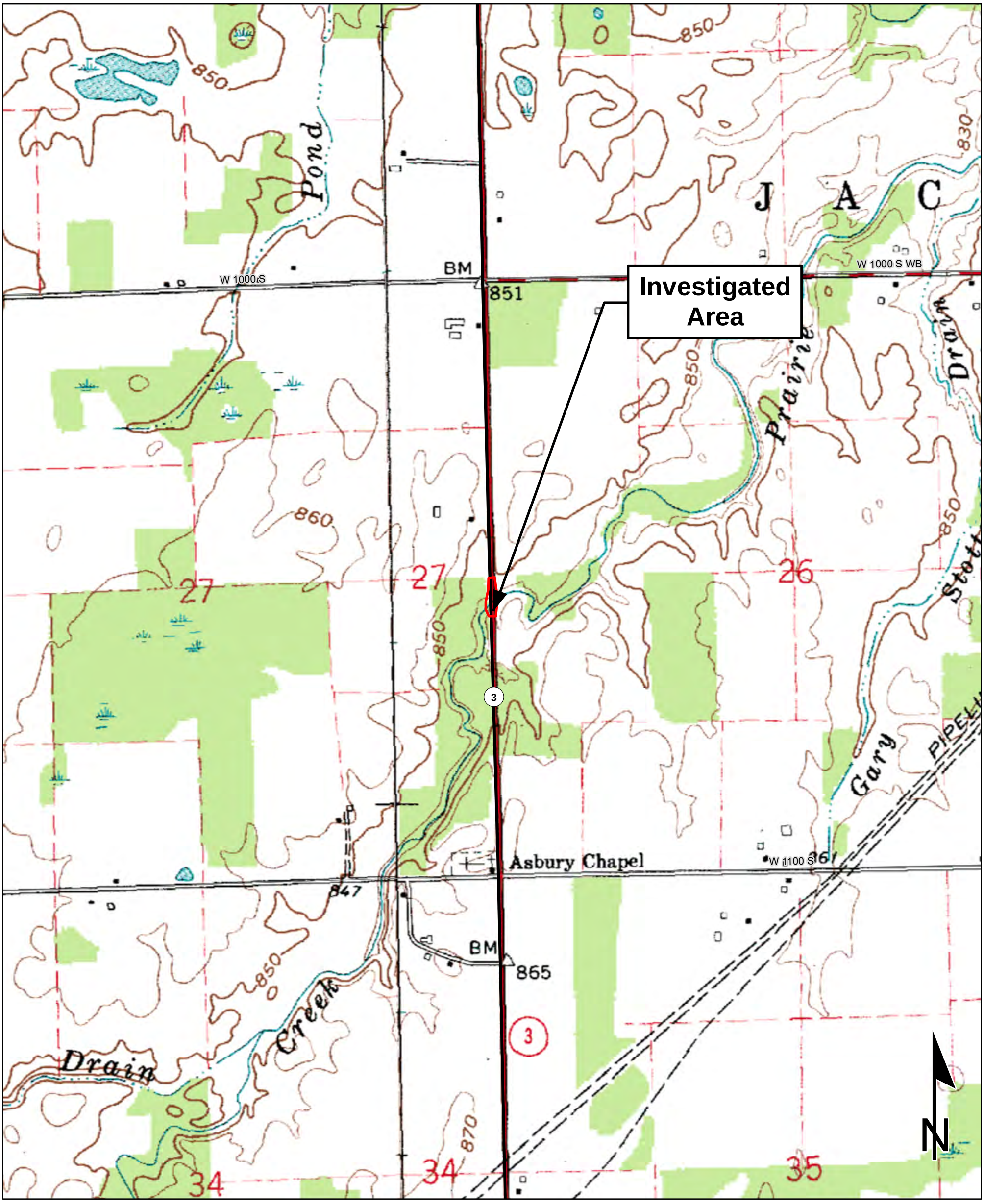
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA
STATEWIDE
GIS DATA

USGS Topographic Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



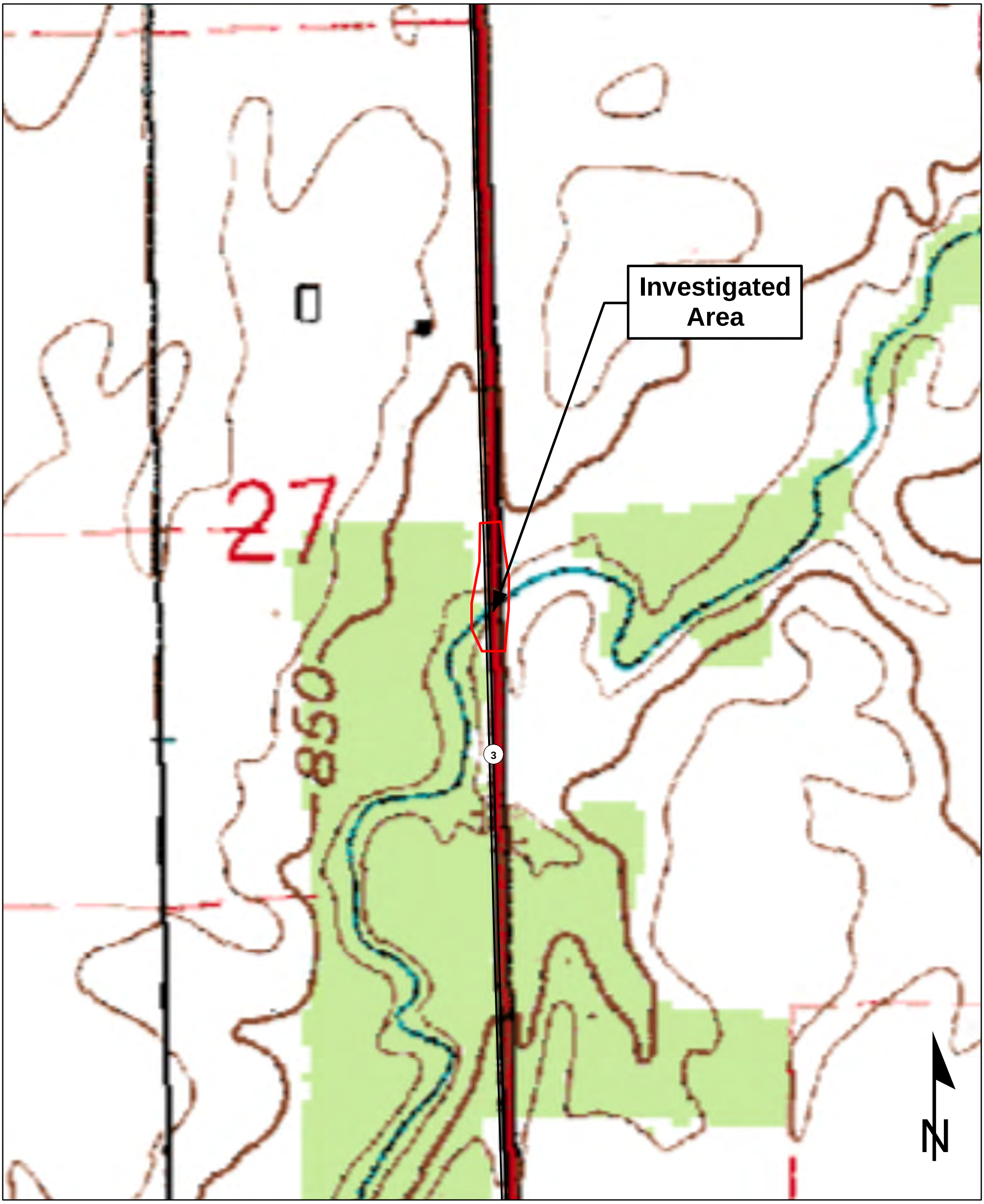
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

1,100 550 0 1,100 Feet

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

MONTPELIER QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

USGS Topographic Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



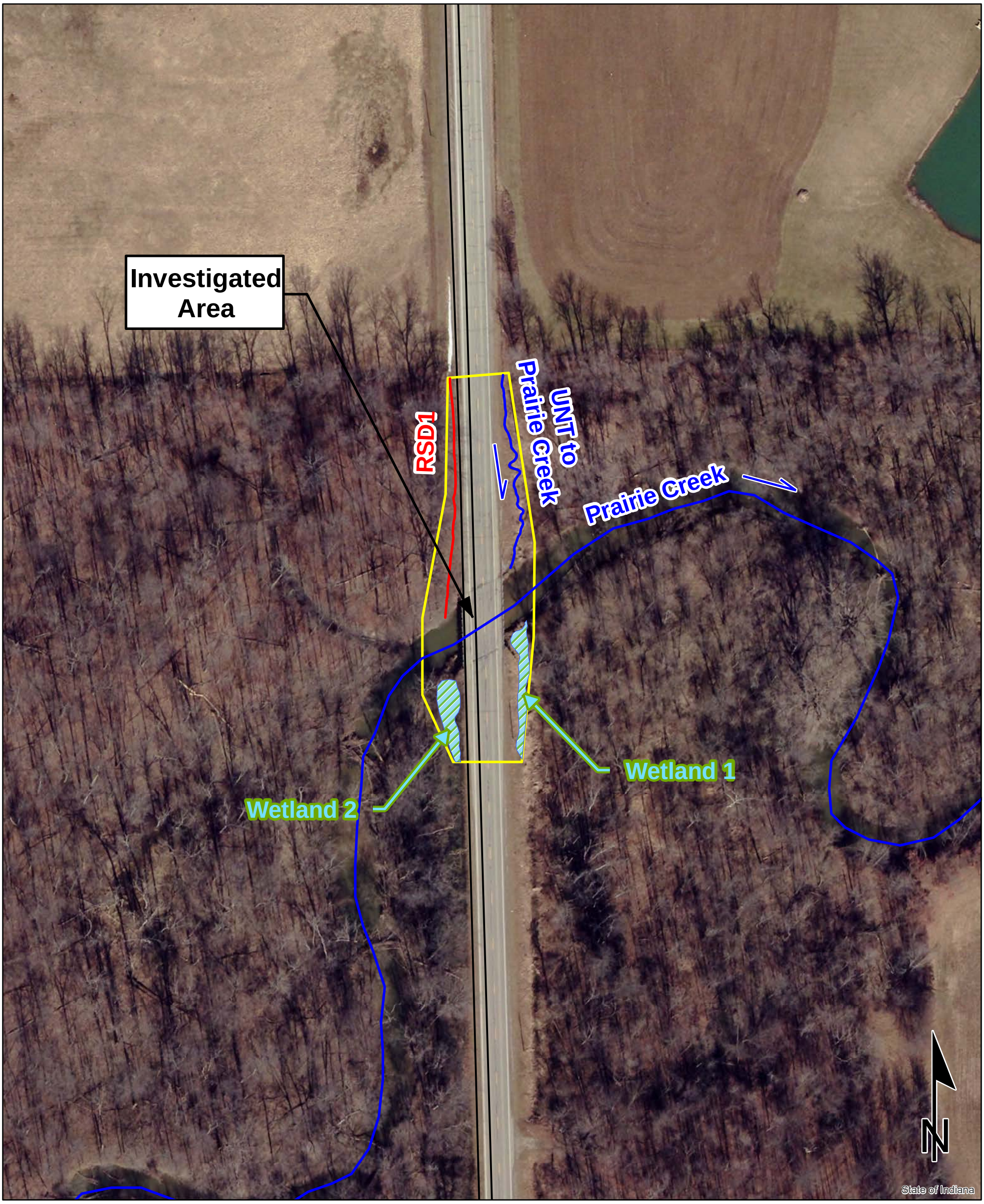
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

350 175 0 350 Feet

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

MONTPELIER QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

Aerial Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



110 55 0 110 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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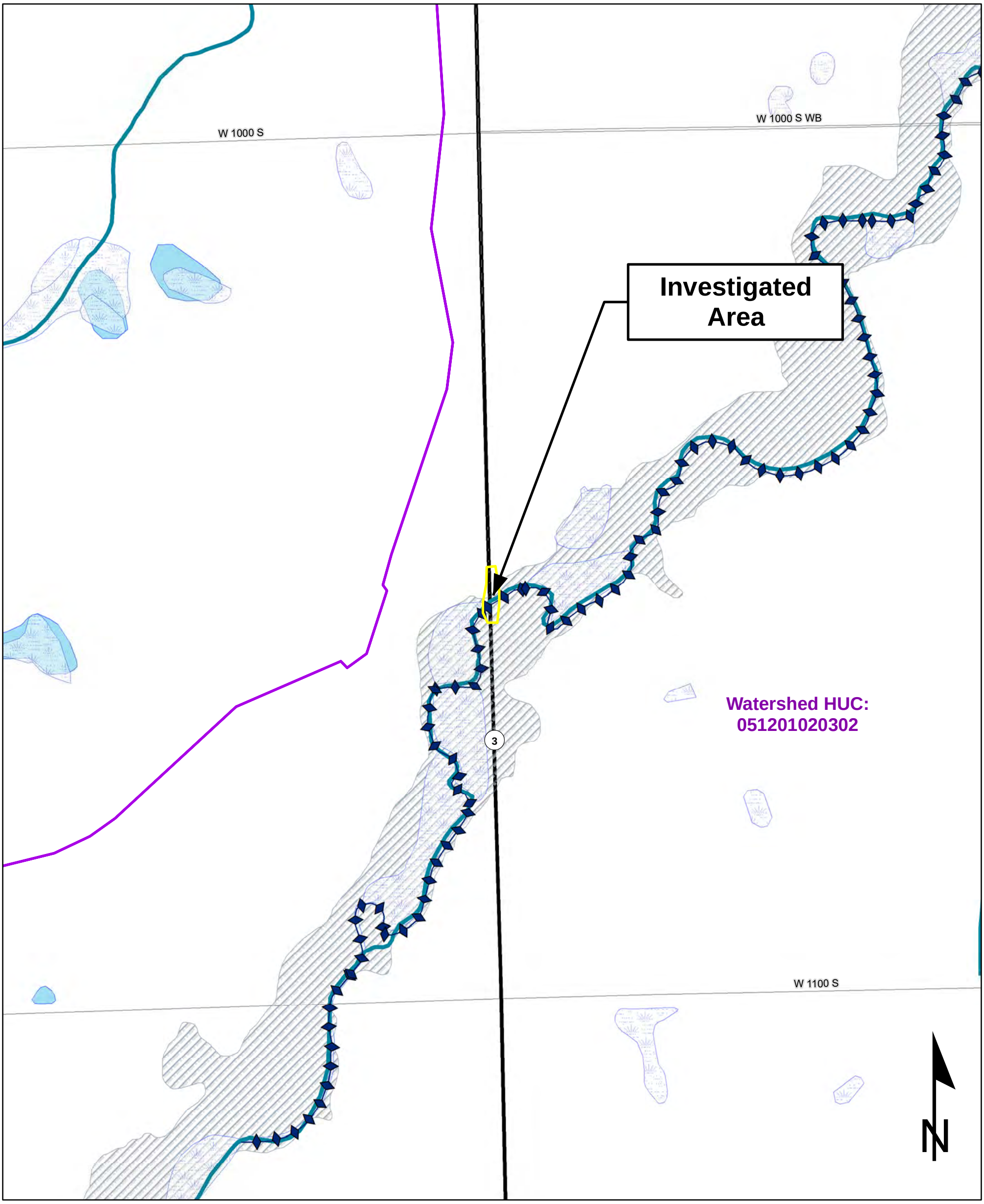
INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- Flow Direction
- Tributary
- Wetlands
- Roadside Ditch
- Investigative Area

Water Resources
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



790 395 0 790 Feet

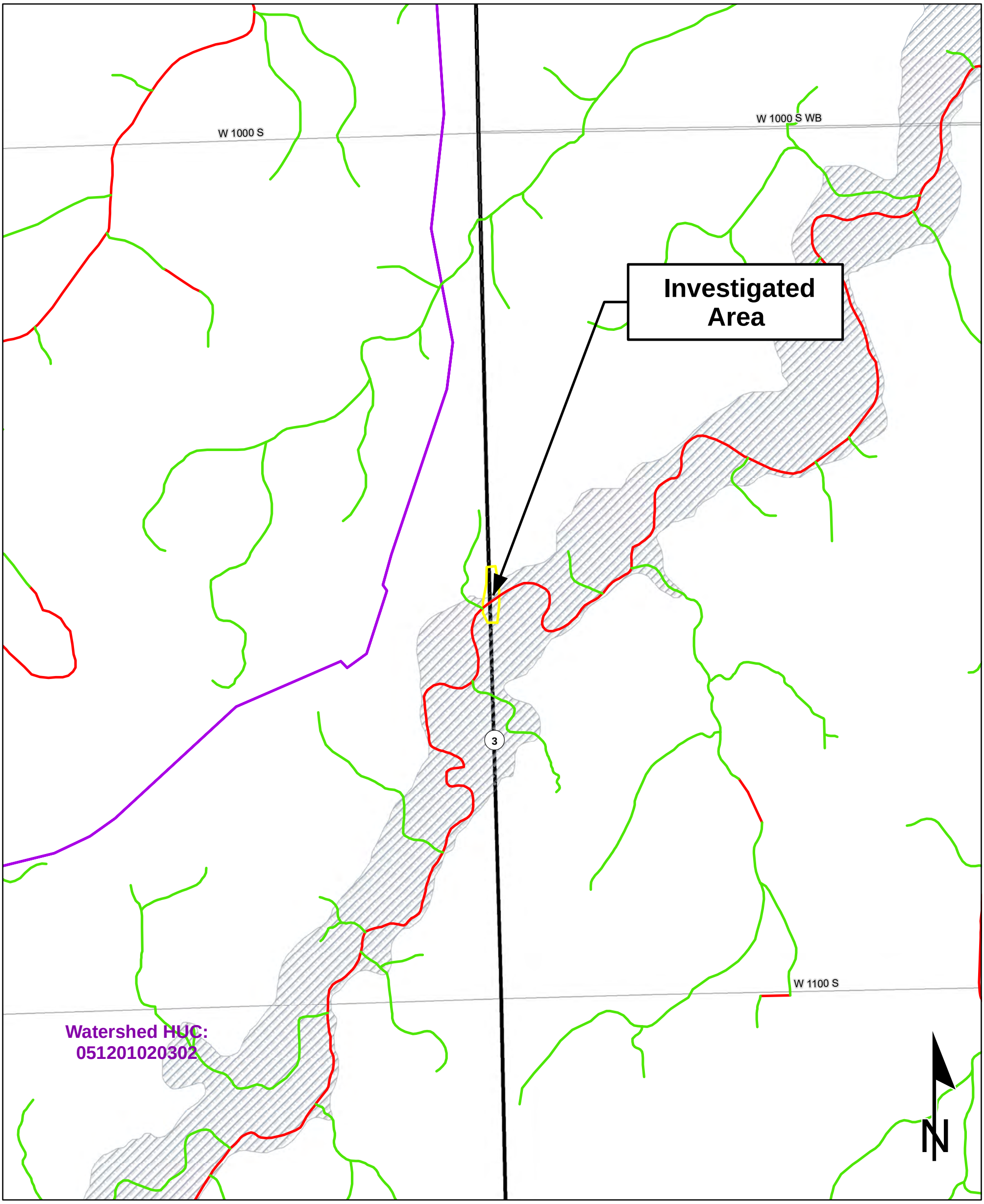
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Map Author: Corradino LLC

- NWI - Point
- Karst Spring
- NWI- Line
- Impaired_Stream_Lake
- NPS NRI listed
- River
- Canal Structure - Historic
- Canal Route - Historic
- Wetlands
- Lake
- Floodplain - DFIRM
- Cave Entrance Density
- Sinkhole Area
- Sinking-Stream Basin
- County Boundary
- Toll
- Interstate
- State Route
- US Route
- Local Road
- Watershed Boundary

FEMA / FIRM Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



790 395 0 790 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Map Author: Corradino LLC

Legend

- Toll
- Interstate
- State Route
- US Route
- Local Road
- Floodplain - DFIRM
- Watershed Boundary
- NHD Flowline Classified
- NHD Flowline Unclassified

Soils Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana

250 125 0 250 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

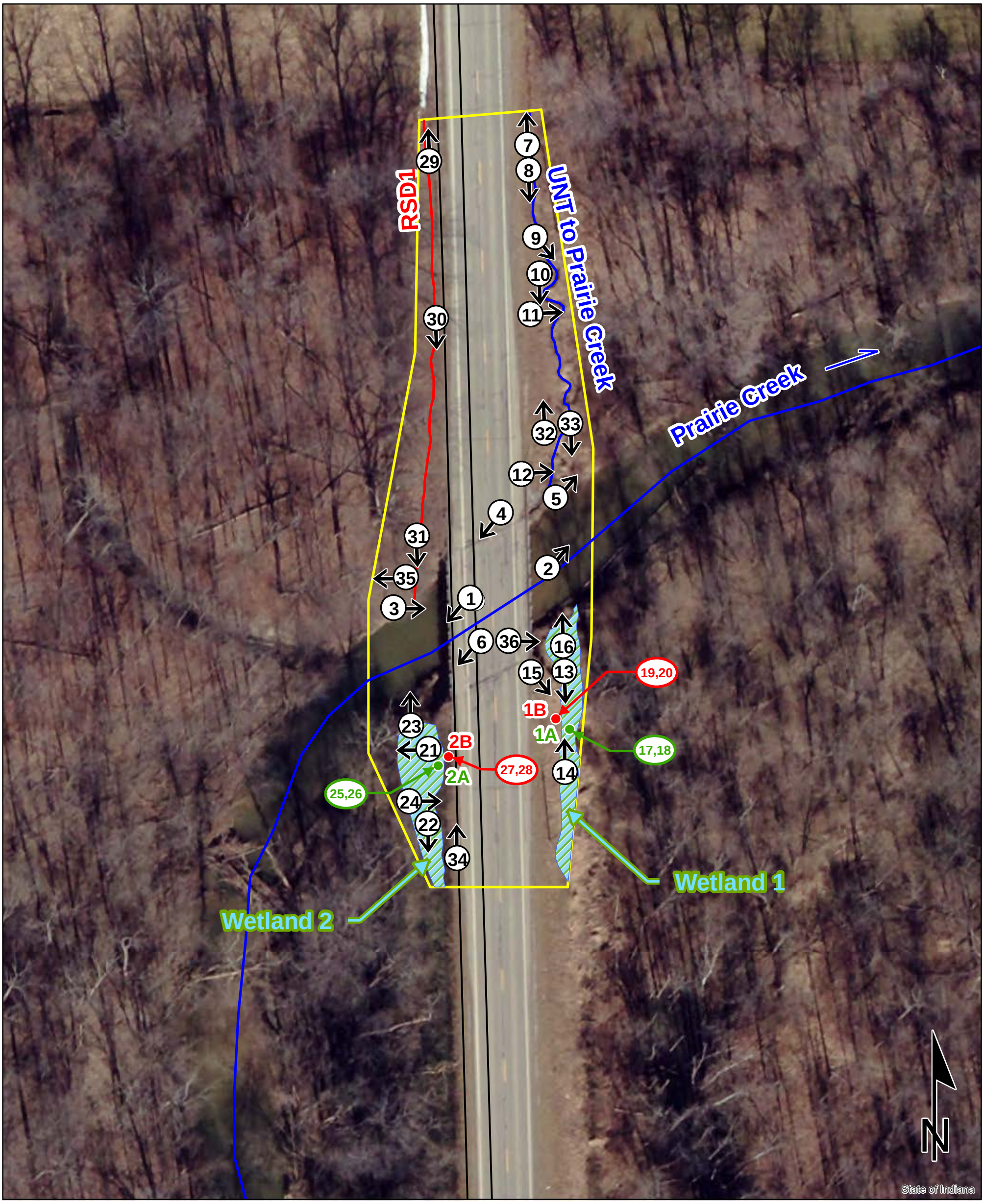
Map Author: Corradino LLC

NRCS SOILS DATA

Legend

GlpC3 - Glynwood Clay Loam (7.0% Hydric)
Se - Saranac Silty Clay Loam (100% Hydric)

Photo Key Map
Des. No. 1800051, Bridge Project
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



60 30 0 60 Feet

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

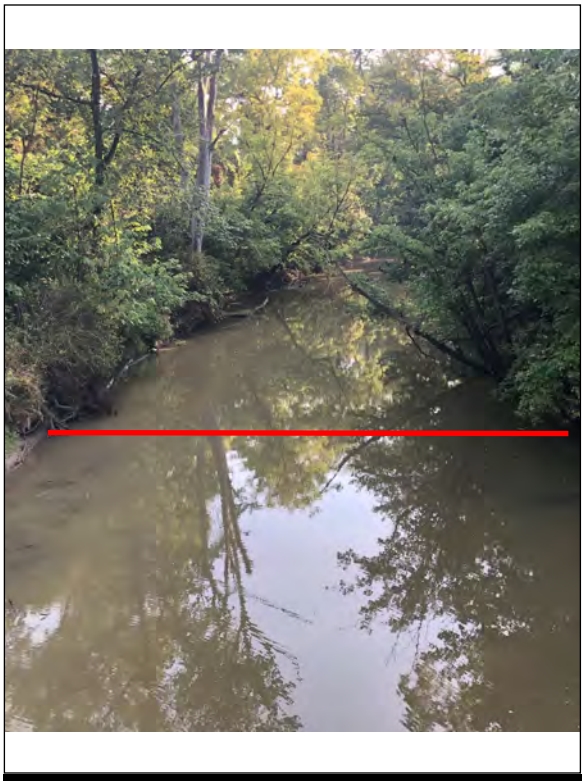
Map Author: Corradino LLC

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- Flow Direction
- Tributary
- Wetlands
- Roadside Ditch
- Investigative Area
- Wetland Point
- Upland Point

Picture 1—Prairie Creek upstream, southwest view; 13 SEP 2019.



Picture 2— Prairie Creek downstream; northeast view; 13 SEP 2019.

OHWM location: 40.588334; -85.371576

Picture 3—Prairie Creek downstream and structure 003-90-01420 C; east view; 13 SEP 2019.

Picture 4—Prairie Creek uptream and structure 003-90-01420 C; southwest view; 13 SEP 2019.

Picture 5—Prairie Creek downstream; northeast view; 13 SEP 2019.

Picture 6—Prairie Creek upstream from structure 003-90-01420 C; southwest view; 13 SEP 2019.

Picture 7—UNT to Prairie Creek upstream outside project area; north view; 13 SEP 2019.

Picture 8—UNT to Prairie Creek downstream at project edge; south view; 13 SEP 2019.

Picture 9—UNT to Prairie Creek downstream; southeast view; 13 SEP 2019.

Picture 10—UNT to Prairie Creek downstream; south view; 13 SEP 2019.

OHWM Location: 40.588551; -85.371637

Picture 11—UNT to Prairie Creek; east view; 13 SEP 2019.

Picture 12—Junction of UNT to Prairie Creek and Prairie Creek; east view; 13 SEP 2019.

Picture 13—Wetland 1; south view; 13 SEP 2019.

Picture 14—Wetland 1; north view; 13 SEP 2019.

Picture 15—Wetland 1; southeast view; 13 SEP 2019.

Picture 16—Wetland 1 at Prairie Creek and structure 003-90-01420 C; north view; 13 SEP 2019.

Picture 17—Wetland 1—wetland data point 1A; south view; 13 SEP 2019.

Picture 18—Wetland 1—wetland soil sample 1A; 13 SEP 2019.

Picture 19—Wetland 1—upland data point 1B; south view; 13 SEP 2019.

Picture 20—Wetland 1—upland soil sample 1B; 13 SEP 2019.

Picture 21—Wetland 2; west view; 13 SEP 2019.

Picture 22—Wetland 2; south view; 13 SEP 2019.

Picture 23—Wetland 2 at Prairie Creek and structure 003-90-01420 C; north view; 13 SEP 2019.

Picture 24—Wetland 2; east view; 13 SEP 2019.

Picture 25—Wetland 2—wetland data point 2A; north view; 13 SEP 2019.

Picture 26—Wetland 2—wetland soil sample 2A ; 13 SEP 2019.

Picture 27—Wetland 2—upland data point 2B; south view; 13 SEP 2019.

Picture 28—Wetland 2—upland soil sample 2B; northwest view; 13 SEP 2019.

Picture 29—RSD1; north view; 13 SEP 2019.

Picture 30—RSD1; south view; 13 SEP 2019.

Picture 31—RSD1 at Prairie Creek bridge; south view; 13 SEP 2019.

Picture 32—Northeast quadrant; north view; 13 SEP 2019.

Picture 33—Northeast quadrant; south view; 13 SEP 2019.

Picture 34—Southwest quadrant; north view; 13 SEP 2019.

Picture 35—Northwest quadrant wooded area; west view; 13 SEP 2019.

Picture 36—Wetland 1 and erosion at southeast quadrant under the structure 003-90-01420 C; east view; 13 SEP 2019.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: DES 1800051 City/County: Wells Sampling Date: 13SEP19

Applicant/Owner: INDOT State: IN Sampling Point: 1A

Investigator(s): Kirk Roth Section, Township, Range: Sec 26 T 25N, R 10E

Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave

Slope (%): 5 Lat: 40.588084 Long: -85.371642 Datum: NAD 83

Soil Map Unit Name: Saranac silty clay loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes * No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	
Hydric Soil Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Wetland Hydrology Present?	Yes X	No	

Remarks: Vegetative, soil, and hydrology characteristics indicate wetland status.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 feet)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 feet)			
1. Juglans nigra	5	Yes	FACU
2.			
3.			
4.			
5.			
	5 = Total Cover		
Herb Stratum (Plot size: 5 feet)			
1. Phalaris arundinacea	95	Yes	FACW
2. Polygonum punctatum	3	No	NI
3. Laportea canadensis	2	No	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 feet)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species 95	x 2 =	190
FAC species 2	x 3 =	6
FACU species 5	x 4 =	20
UPL species	x 5 =	
Column Totals: 102 (A)		216 (B)

Prevalence Index = B/A = 2.12

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

The Prevalence Index supports hydrophytic vegetation status.

SOIL

Sampling Point: 1A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 3/2	88	7.5 YR 4/6	7	C	M	Loam	
			10YR 4/1	5	D	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

Soil indicator F6 supports hydric soil status.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Indicator B9 and the combination of Indicators B10 and D2 support wetland hydrology status.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: DES 1800051 City/County: Wells Sampling Date: 13SEP19

Applicant/Owner: INDOT State: IN Sampling Point: 1B

Investigator(s): Kirk Roth Section, Township, Range: Sec 26 T 25N, R 10E

Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): convex

Slope (%): 2 Lat: 40.588081 Long: -85.371666 Datum: NAD 83

Soil Map Unit Name: Saranac silty clay loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes * No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	

Remarks: Vegetative, soil, and hydrology characteristics do not indicate wetland status.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 feet)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 feet)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 feet)			
1. Setaria faberi	45	Yes	FACU
2. Schedonorus arundinaceus	30	Yes	FACU
3. Phalaris arundinacea	10	No	FACW
4. Solidago candensis	2	No	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	87 = Total Cover		
Woody Vine Stratum (Plot size: 30 feet)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species 10	x 2 =	20
FAC species	x 3 =	
FACU species 77	x 4 =	308
UPL species	x 5 =	
Column Totals: 87 (A)		328 (B)

Prevalence Index = B/A = 3.77

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

The Dominance Test and Prevalence Index do not support hydrophytic vegetation status.

SOIL

Sampling Point: 1B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/3	100					Loam	
12-20	10YR 4/4	97	5YR 4/6	3	C	M	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Soil characteristics do not support hydric soil status.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Observations do not support wetland hydrology status.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: DES 1800051 City/County: Wells Sampling Date: 13SEP19

Applicant/Owner: INDOT State: IN Sampling Point: 2A

Investigator(s): Kirk Roth Section, Township, Range: Sec 27 T 25N, R 10E

Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave

Slope (%): 5 Lat: 40.588054 Long: -85.371840 Datum: NAD 83

Soil Map Unit Name: Saranac silty clay loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes * No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks: Vegetative, soil, and hydrology characteristics indicate wetland status.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 feet)	Absolute % Cover	Dominant Species?	Indicator Status
1. Fraxinus pennsylvanica	30	Yes	FACW
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 feet)			
1. Fraxinus pennsylvanica	30	Yes	FACW
2. Acer negundo	15	Yes	FAC
3. Smilax rotundifolia	5	No	FAC
4.			
5.			
	50 = Total Cover		
Herb Stratum (Plot size: 5 feet)			
1. Equisetum hyemale	50	Yes	FACW
2. Impatiens sp.	10	No	FACW
3. Laportea canadensis	10	No	FAC
4. Verbesina alternifolia	5	No	FACW
5.			
6.			
7.			
8.			
9.			
10.			
	75 = Total Cover		
Woody Vine Stratum (Plot size: 30 feet)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species 125	x 2 = 250
FAC species 30	x 3 = 90
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: 155 (A)	340 (B)

Prevalence Index = B/A = 2.19

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

The Dominance Test and Prevalence Index support hydrophytic vegetation status.

SOIL

Sampling Point: 2A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 3/2	92	10YR 5/8	8	C	M	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

Soil indicator F6 supports hydric soil status.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- X Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Indicators B3, B9 and the combination of Indicators B10, D2, and D5 support wetland hydrology status.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: DES 1800051 City/County: Wells Sampling Date: 13SEP19

Applicant/Owner: INDOT State: IN Sampling Point: 2B

Investigator(s): Kirk Roth Section, Township, Range: Sec 27, T 25N, R 10E

Landform (hillslope, terrace, etc.): slope Local relief (concave, convex, none): convex

Slope (%): 2 Lat: 40.588018 Long: -85.371817 Datum: NAD 83

Soil Map Unit Name: Saranac silty clay loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes * No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks: Vegetative, soil, and hydrology characteristics do not indicate wetland status.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 feet)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15 feet)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5 feet)			
1. Schedonorus arundinaceus	60	Yes	FACU
2. Equisetum hyemale	15	No	FACW
3. Poa pratensis	15	No	FAC
4. Setaria faberi	10	No	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 feet)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species 15	x 2 =	30
FAC species 15	x 3 =	45
FACU species 70	x 4 =	280
UPL species	x 5 =	
Column Totals: 100 (A)		355 (B)

Prevalence Index = B/A = 3.55

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

The Dominance Test and Prevalence Index do not support hydrophytic vegetation status.

SOIL

Sampling Point: 2B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 5/3	90	10YR 2/1	10	D	M	sandy loam	disturbance - gravel and glass present

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Soil characteristics do not support hydric soil status.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Observations do not support wetland hydrology status.

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 3/25/21

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Kirk Roth, 200 S. Meridian St, Ste 330, Indianapolis, IN 46225

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The project (DES 1800051) is on SR 3, 2.46 miles north of SR 18, at structure 003-90-01420 C and is a replacement of the existing bridge with an 90 foot long single span prestressed concrete girder bridge. A 1 foot raise in the profile grade will occur. Scour protection (riprap on geotextiles) will be placed on the slope walls of the new structure. New guardrail will be placed in all quadrants. The project work will require permenent right-of-way. Construction is expected to begin in 2023 and last approximately 4 months. Water that passes through the structure will be maintained during construction with appropriate erosion and sediment control techniques.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Indiana County/parish/borough: Wells City: Dillman

Center coordinates of site (lat/long in degree decimal format):

Lat.: 40.58825 Long.: -85.37175

Universal Transverse Mercator: 16T 637789 m E 4494324 m N

Name of nearest waterbody: Prairie Creek

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Prairie Creek	40.58825	-85.37175	130 l.f.	non-wetland waters	Section 404, non-wetland
UNT to Prairie Creek	40.588551	-85.371637	160 l.f.	non-wetland waters	Section 404, non-wetland
Wetland 1	40.588084	-85.371642	0.022 acre	wetland	Section 404, wetland
Wetland 2	40.588054	-85.371840	0.023 acre	wetland	Section 404, wetland

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there *"may be"* waters of the U.S. and/or that there *"may be"* navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
  Map: Corradino, LLC.
- ☒ Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - ☐ Office concurs with data sheets/delineation report.
  - ☐ Office does not concur with data sheets/delineation report. Rationale: _____.
- ☐ Data sheets prepared by the Corps: _____.
- ☐ Corps navigable waters' study: _____.
- ☐ U.S. Geological Survey Hydrologic Atlas: _____.
  - ☐ USGS NHD data.
  - ☐ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: 1:20,000 Montpelier.
- ☒ Natural Resources Conservation Service Soil Survey. Citation: NRCS Soil Survey - Wells County.
- ☒ National wetlands inventory map(s). Cite name: USFWS-NWI V2 Wetland Mapping for SR 3, 2.46 miles north of SR 18.
- ☐ State/local wetland inventory map(s): _____.
- ☒ FEMA/FIRM maps: Wells County, Indiana.
- ☐ 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): Indiana Statewide Aerial Imagery, 2016.
  or ☒ Other (Name & Date): Corradino, LLC - September 13, 2019.
- ☐ Previous determination(s). File no. and date of response letter: _____.
- ☐ Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

_____	Kirk Roth Digitally signed by Kirk Roth Date: 2021.03.25 09:42:17 -04'00'
Signature and date of Regulatory staff member completing PJD	Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

APPENDIX G

Public Involvement

DES 1800051

SJCA P.C.
ENGINEERS & SURVEYORS

Certified MBE, State of Indiana; City of Indianapolis

INDOT Certified DBE

Job #19SU017

NOTICE OF SURVEY

May 1, 2019

RE: PROJECT: S.R. 3
Bridge Improvement Project
Montpelier, Indiana

Dear Property Owner:

Our information indicates that you own or occupy property near this proposed Bridge improvement Project. Our employees will be doing a survey of the project area in the near future. It may be necessary for them to come onto your property to complete this work. This is allowed by Indiana Code IC 8-23-7-26. They will show you their identification, if you are available, before coming onto your property. If you have sold this property, or someone else occupies it, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.

At this stage we generally do not know what effect, if any, our project may eventually have on your property. If we determine later your property is involved, we will contact you with additional information.

The survey work will include mapping the location of features such as buildings, trees, fences, and drives, and obtaining ground elevations. This work is necessary for the proper planning and design of the Bridge improvement Project. Please be assured of our sincere desire to cause you as little inconvenience as possible during the survey. If any problems do occur, please contact our field crew or contact me at the phone number or address shown below.

We do appreciate your input regarding any issues that this project may encounter during the design phase. Included with this notice is a short questionnaire that you can fill out and return to us in the enclosed self-addressed stamped envelope. Thank you, in advance, for your participation in this process.

Sincerely,

SJCA P.C.

Christopher H. Phillips, PLS

9102 N. Meridian Street, Suite 200 • Indianapolis, IN • Phone 317-566-0629 • Fax 317-566-0633 • www.sjca-pc.com

Job #19SU017

SURVEY QUESTIONNAIRE

May 1, 2019

RE: PROJECT: S.R. 3
Bridge Improvement Project
Montpelier, Indiana

Name of person completing questionnaire: _____

Have you received the Notice of Survey letter? (yes or no): _____

If different from the letter, the correct occupant's name and address should be:

Name: _____

Address: _____

If you have any special requests (instructions to close gates, beware of dog, etc.), please list here:

_____

_____

Please describe any areas where you feel there may be stormwater problems (e.g. flooding, clogged pipes, standing water, etc.)

_____

_____

If the property utilizes water wells and/or septic systems, please describe their location: _____

_____

Please describe any facilities that are underground and not visible: _____

_____

Any other issues we should be aware of? _____

_____

APPENDIX H

Air Quality

DES 1800051

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTRACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
Indiana Department of Transportation	41084 / 1601020	M 07	SR 301	HMA Overlay Minor Structural	From SR 116 to SR 124.	Fort Wayne	3.53	STBG	$7,576,798.00	Road Construction	CN	-$1,190,953.60	-$297,738.40		($1,488,692.00)			
Comments:No MPO. Reducing the CN for FY 2021 by -$1,488,692 for a total remaining of $7,576,798.																		
Wells County	41155 / 1702735	Init.	IR 1015	Bridge Maintenance And Repair	Bridge 106 on CR 100N over Rock Creek	Fort Wayne	.2	STPBG		Local Funds	CN	$0.00	$313,200.00				$313,200.00	
										Local Bridge Program	CN	$1,252,800.00	$0.00				$1,252,800.00	
Wells County	41155 / 1702735	A 04	IR 1015	Bridge Maintenance And Repair	Bridge 106 on CR 100N over Rock Creek	Fort Wayne	.2	STBG	$1,566,000.00	Local Funds	RW	$0.00	$36,000.00		$36,000.00			
										Local Bridge Program	RW	$144,000.00	$0.00		$144,000.00			
Comments:Add ROW to STIP. No MPO																		
Wells County	41155 / 1702735	M 10	IR 1015	Bridge Maintenance And Repair	Bridge 106 on CR 100N over Rock Creek	Fort Wayne	.2	STBG	$1,746,000.00	Local Funds	RW	$0.00	$0.00		($36,000.00)	$36,000.00		
										Local Bridge Program	RW	$0.00	$0.00		($144,000.00)	$144,000.00		
Comments:Move ROW from FY ?22 to ?23. NO MPO																		
Indiana Department of Transportation	41553 / 1800222	Init.	SR 116	Slide Correction	From 4.08 Miles East of SR 1 to 4.46 Miles East of SR 1	Fort Wayne	.396	STPBG		Road Construction	CN	$250,120.80	$62,530.20				$312,651.00	
										Road ROW	RW	$48,000.00	$12,000.00		$60,000.00			
Indiana Department of Transportation	41561 / 1800051	Init.	SR 3	Bridge Replacement, Other Construction	Bridge Over Prairie Creek, 2.46 Miles North of SR 18.	Fort Wayne	.1	STPBG		Bridge Construction	CN	$781,998.40	$195,499.60				$977,498.00	
										Bridge ROW	RW	$16,000.00	$4,000.00			$20,000.00		
Indiana Department of Transportation	41569 / 1800049	Init.	SR 301	Small Structure Replacement	Carried Eight Mile Creek, 1.85 Miles North of SR 124.	Fort Wayne	.1	STPBG		Bridge Construction	CN	$340,473.60	$85,118.40				$425,592.00	
										Bridge ROW	RW	$16,000.00	$4,000.00			$20,000.00		
Indiana Department of Transportation	41569 / 1800049	A 01	SR 301	Small Structure Replacement	Carried Eight Mile Creek, 1.85 Miles North of SR 124.	Fort Wayne	.1	STPBG	$0.00	Bridge Construction	CN	-$340,473.60	-$85,118.40				($425,592.00)	
										Bridge ROW	RW	-$16,000.00	-$4,000.00			($20,000.00)		
Comments:No MPO. Removing CN																		
Indiana Department of Transportation	41824 / 1600289	Init.	SR 124	Bridge Replacement, Other Construction	Bridge over Rock Creek, 3.48 miles E of SR 3	Fort Wayne	0	STPBG		Bridge Construction	CN	$1,392,028.00	$348,007.00	$1,740,035.00				
Wells County	41852 / 1801917	Init.	IR 1285	Railroad Crossing Removal	Rerouting of Hoosier Highway in Wells County to connect to Adams Street at Bluffton City	Fort Wayne	1.5	STPBG		Local Funds	RW	$38,192.00	$9,548.00	$47,740.00				

Report Created:1/14/2021 10:36:04AM

*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

APPENDIX I

Additional Information

DES 1800051

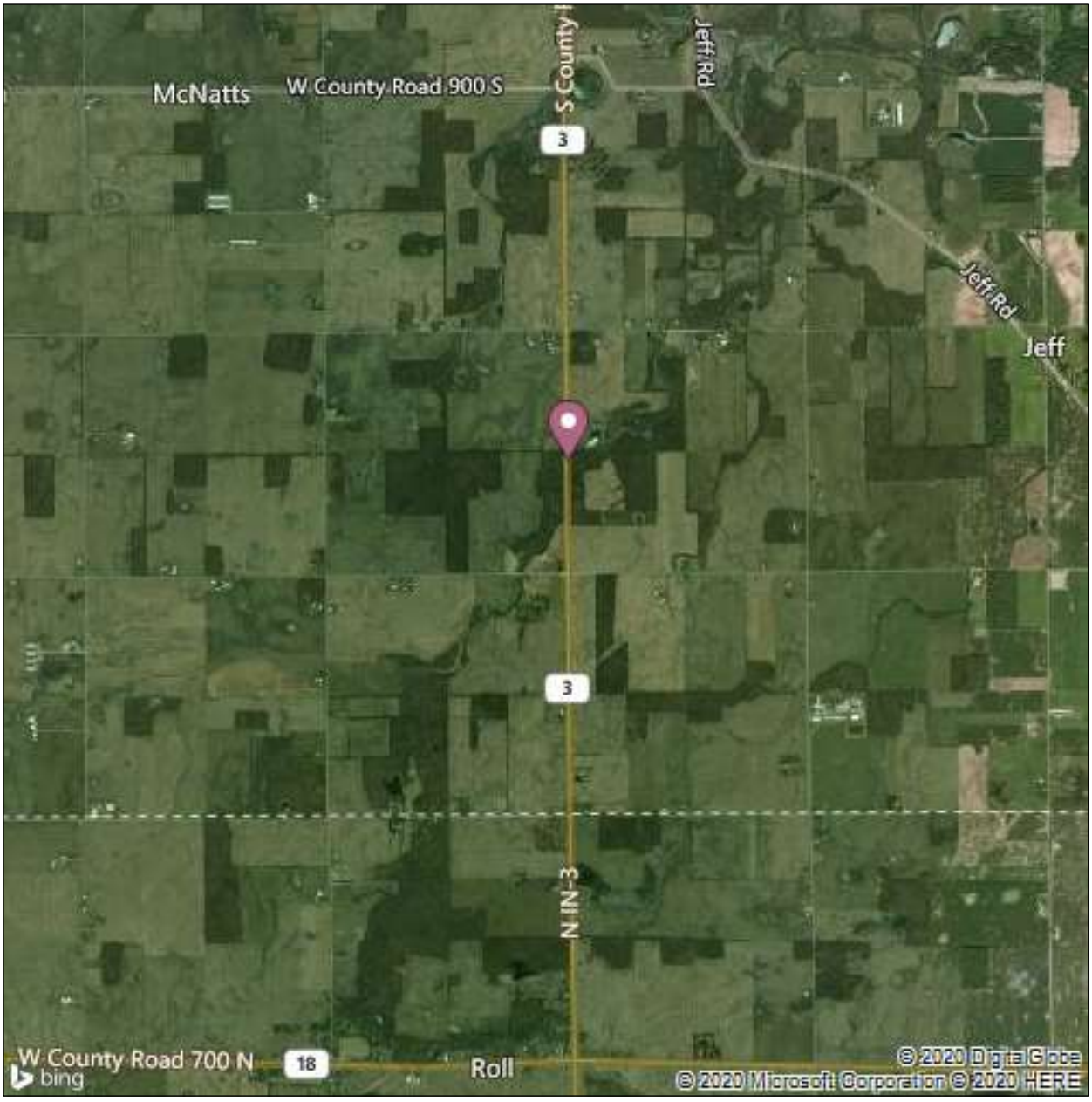
Bridge Inspection Report

003-90-01420 C
SR 3
over
PRAIRIE CREEK

Inspection Date: 04/01/2020

Inspected By: Joshua Biller

Inspection Type(s): Routine



Latitude: 40.58825

Longitude: -85.37175

SR 3 over Prairie Creek (RP 161+62)

Single-span, pre-stressed concrete (side-by-side) box beam bridge; orginally built in 1933 {B-556; warren pony truss}. "A" Rehab {unknown date and contract}. "B" Rehab in 1967 {MX-7494; widening, new superstructure}. "C" Rehab in 1979 {B-12126; superstructure inspection and repair}. Bridge is programmed for replacement {B-41561, DES. 1800051, letting 10-13-2022}.

Bridge is NOT considered to be a temporary structure. Item 103 was changed from "T" to a blank. Item 41 was changed from "D" to "A" (open).

Roadway: chip & seal over HMA; light rutting; dips on shoulders near ends of bridge deck; minor-to-moderate erosion at all 4 corners of deck; Fair Condition;
Guardrail & Bridge Rails: w-beam rails with posts attached to fascia on each side; buried end sections at all four corners of bridge; no guardrail beyond bridge; Moderate rust on both W-beams and bolts.
Wing Walls: wood piling with timber lagging boards; all 4 corners have rotting piles and lagging boards; backfill leaking through or below the lagging boards; creek is also attacking bases of NW & NE wings (cut banks over 4');

Live Load Observation {performed on 03-28-16 by Corey Schamberger } {no changes during 2020; JTB}

A few notes:

1. - The bridge does not have enough deflection to be seen with the naked eye under live loading.
2. - The bridge does have some vibration under live loading, the vibration seems to be normal for a bridge of its type(adjacent boxes) and span length(58').
3. - No unusual noises were observed under live loading.
4. - The chip and seal/HMA overlay does not show any reflective longitudinal cracking. Under live loading it appears the adjacent box beams are acting as one unit. The bottoms of the box beams are all flush.

- The concrete abutments show horizontal and vertical cracking with some wetness, however under live load there is no movement.
6. -The timber wing walls show some rot at the ends of planks and tops of piles, however they are not affected by live loading.

It would appear that the bridge is functioning normally without any signs of

severe distress.

IDENTIFICATION

(1) STATE CODE:	**185 - Indiana**
(8) STRUCTURE:	**001230**
(5 A-B-C-D-E) INV. ROUTE:	**1 - 3 - 1 - 00003 - 0**
(2) HIGHWAY AGENCY DISTRICT:	**02 - Fort Wayne**
(3) COUNTY CODE:	**090 - WELLS**
(4) PLACE CODE:	**00000 - N/A**
(6) FEATURES INTERSECTED:	**PRAIRIE CREEK**
(7) FACILITY CARRIED:	**SR 3**
(9) LOCATION:	**02.46 N SR 18**
(11) MILEPOINT:	**0001.460**
(12) BASE HIGHWAY NETWORK:	**0**
(13A) INVENTORY ROUTE:	
(13B) SUBROUTE NUMBER:	
(16) LATITUDE:	**40.58825**
(17) LONGITUDE:	**-85.37175**
(98) BORDER	
A) STATE NAME:	
B) PERCENT	**%**
(99) BORDER BRIDGE STRUCT. NO:	

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN:	
A) KIND OF MATERIAL/DESIGN:	**5 - Prestressed concrete**
B) TYPE OF DESIGN/CONSTR:	**05 - Box Beam or Girders - Multiple**
(44) STRUCTURE TYPE, APPROACH SPANS:	
A) KIND OF MATERIAL/DESIGN:	**0 - Other**
B) TYPE OF DESIGN/CONSTR:	**00 - Other**
(45) NUMBER OF SPANS IN MAIN UNIT:	**001**
(46) NUMBER OF APPROACH SPANS:	**0**
(107) DECK STRUCTURE TYPE:	**1 - Concrete Cast-in-Place**
(108) WEARING SURFACE/PROT SYS:	
A) WEARING SURFACE:	**6 - Bituminous**
B) DECK MEMBRANE:	**0 - None**
C) DECK PROTECTION:	**1 - Epoxy Coated Reinforcing**

AGE OF SERVICE

(27) YEAR BUILT:	**1933**
(106) YEAR RECONSTRUCTED:	**1979**
(42) TYPE OF SERVICE:	
A) ON BRIDGE:	**1 - Highway**
B) UNDER BRIDGE:	**5 - Waterway**
(28) LANES:	
A) ON BRIDGE:	**02**
B) UNDER BRIDGE:	**00**
(29) AVERAGE DAILY TRAFFIC:	**002763**
(30) YEAR OF AVERAGE DAILY TRAFFIC:	**2019**
(109) AVERAGE DAILY TRUCK TRAFFIC:	**21 %**
(19) BYPASS DETOUR LENGTH:	**004 MI**

GEOMETRIC DATA

(48) LENGTH OF MAX SPAN:	**00058.0 FT**
(49) STRUCTURE LENGTH:	**00062.0 FT**
(50) CURB/SIDEWALK WIDTHS:	
A) LEFT	**01.0 FT**
B) RIGHT:	**01.0 FT**
(51) BRDG RDWY WIDTH CURB-TO-CURB:	**034.6 FT**
(52) DECK WIDTH, OUT-TO-OUT:	**036.5 FT**
(32) APPROACH ROADWAY	**031.0 FT**
(33) BRIDGE MEDIAN:	**0 - No median**
(34) SKEW:	**25 DEG**

(35) STRUCTURE FLARED:	**0 - No flare**
(10) INV RTE, MIN VERT CLEARANCE:	**99.99 FT**
(47) TOT HORIZ CLEARANCE:	**034.6 FT**
(53) VERT CLEAR OVER BR RDWY:	**99.99 FT**
(54) MIN VERTICAL UNDERCLEARANCE:	
A) REFERENCE FEATURE:	**N**
B) MIN VERT UNDERCLEAR:	**00.00 FT**
(55) LATERAL UNDERCLEARANCE RIGHT:	
A) REFERENCE FEATURE:	**N**
B) MIN LATERAL UNDERCLEAR:	**000.0 FT**
(56) MIN LATERAL UNDERCLEAR ON LEFT:	**000.0 FT**

INSPECTIONS

(90) INSPECTION DATE:	**04/01/2020**
(92) CRITICAL FEATURE INSPECTION:	
A) FRACTURE CRITICAL REQUIRED/FREQUENCY:	**N**
B) UNDERWATER INSPECTION REQUIRED/FREQUENCY:	**N**
C) OTHER SPECIAL INSPECTION REQUIRED/FREQUENCY:	**N**

(91) DESIGNATED INSPECTION FREQUENCY:	**12 MONTHS**
(93) CRITICAL FEATURE INSPECTION DATE:	
A) FRACTURE CRITICAL DATE:	
B) UNDERWATER INSP DATE:	
C) OTHER SPECIAL INSP DATE:	

CONDITION

(58) DECK:	**6 - Satisfactory Condition (minor deterioration)**
(58.01) WEARING SURFACE:	**6 - Satisfactory Condition**
(59) SUPERSTRUCTURE:	**4 - Poor Condition (advanced deterioration)**

(60) SUBSTRUCTURE:	**5 - Fair Condition (minor section loss)**
(61) CHANNEL/CHANNEL PROTECTION:	**6 - Bank slump. widespread minor damage**
(62) CULVERTS:	**N - Not Applicable**

CONDITION COMMENTS

(58) DECK: **6 - Satisfactory Condition (minor deterioration)**

Comments:
Top side see Wearing Surface:
Underside: underside of deck not visible due to adjacent pre-stressed concrete box beams; Box Beams 1 & 12 {fascia beams} have two 4" metal deck drains cast through middle of each beam; drains were cast flush with underside of beams, with no extensions; leaking water visible in a few gaps between beams (unable to tell if it is wicking from ends, or from cracks above);

(58.01) WEARING SURFACE: **6 - Satisfactory Condition**

Comments:
chip & seal over HMA overlaid across entire deck; HMA overlay covers reinforced concrete deck; short concrete curbs along both edges; no part of deck is visible; light rutting of HMA in lane; both the north and south ends of deck are slightly higher than adjacent roadway;

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

Comments:
12 pre-stressed concrete box beams. Some light efflorescence (and concrete slurry from last rehab) at gaps between box beams; a few areas of wetness and/or water stains at gaps.
Box Beam 1 {west fascia}: spalls and surface delaminations at both drains (2' x 3' at SW; 2' x 4' at NW; at least one rebar visible; no strands visible); outside face has a couple of 1'x1' spalls with exposed rebar;
Box Beam 4: spall with exposed stirrup 19' from South Abutment (18" x 6");
Box Beam 6: 15 delaminations or spalls with exposed stirrups along length (roughly 1 SFT each); no strands visible;
Box Beam 7: edge delamination near north end (roughly 5 LFT);
Box Beam 12 {east fascia}: spalls and surface delaminations at both drains (2' x 3' at SE; 3' x 8' at NE); stirrups and strands visible in NE corner (5 strands have section loss, 1 is only exposed);

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

Comments:
Abutments: original concrete breast walls with extensions above and to each side (for widening and superstructure replacement);

Wing Walls: wood piling with timber lagging boards; all 4 corners have rotting piles and lagging boards; backfill leaking through or below the lagging boards; creek is also attacking bases of NW & NE wings (cut banks over 4');

North Abutment: several hairline vertical cracks in upper portion of breast wall; a hairline diagonal crack with wetness and efflorescence; a hairline longitudinal crack along length of abutment with wetness and efflorescence in original section;

South Abutment: several hairline vertical cracks (1 with wetness and efflorescence) in upper portion of breast wall; one hairline vertical crack in original section; closely-spaced, an area of hairline map cracks under Box Beams 4 & 5 and another under Box Beams 9 & 10 on upper portion of wall; flowstone with rust stains due to SE drain (no deterioration to wall);

(61) CHANNEL/CHANNEL PROTECTION **6 - Bank slump. widespread minor damage**

Comments:
Channel flows SW to NE under bridge; tree-lined on all sides; moderate bank erosion with cut banks of 4'+ (north bank); water flows against north abutment; some riprap and a large wood beam stuck in the mud in front of north abutment; sand bar protects the south abutment; no scour or exposed footings;

(62) CULVERTS: **N - Not Applicable**

Comments:

LOAD RATING AND POSTING

(31) DESIGN LOAD:	**5 - HS 20**	(66) INVENTORY RATING:	**53**
(70) BRIDGE POSTING	**5 - Equal to or above legal loads**	(65) INVENTORY RATING METHOD:	**1 - Load Factor (LF)**
		(66B) INVENTORY RATING (H):	**42**
(41) STRUCTURE OPEN/POSTED/CLOSED:	**A - Open**	(66C) TONS POSTED :	
		(66D) DATE POSTED/CLOSED:	
(64) OPERATING RATING:	**88**		
(63) OPERATING RATING METHOD:	**1 - Load Factor (LF)**		

APPRAISAL

SUFFICIENCY RATING:	**67.8**	(36) TRAFFIC SAFETY FEATURE:	
STATUS:	**1**	36A) BRIDGE RAILINGS:	**0**
(67) STRUCTURAL EVALUATION:	**4**	36B) TRANSITIONS:	**0**
(68) DECK GEOMETRY:	**5**	36C) APPROACH GUARDRAIL:	**0**
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL:	**N**	36D) APPROACH GUARDRAIL ENDS:	**0**

(71) WATERWAY ADEQUACY: **8 - Bridge Above Approaches**
Comments:

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

(113) SCOUR CRITICAL BRIDGES: **5 - Scour within limits of footing or piles**
Comments:
Original Sections: RC spread footings supported by untreated timber piles driven to 20 Tons (minimum bearing);
Widening Sections: wall extensions rest on and protrude over original RC spread footings; wooden wing walls support additional fill in front of originals (left in place);

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:	**07 - Rural - Major Collector**
(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)**

(111) PIER OR ABUTMENT PROTECTION:

(39) NAVIGATION VERTICAL CLEAR: **000.0 FT**

(116) MINIMUM NAVIGATION VERT. CLEARANCE, VERT. LIFT BRIDGE: **FT**

(40) NAV HORIZONTAL CLEARANCE: **0000.0 FT**

PROPOSED IMPROVEMENTS

(75A) TYPE OF WORK:

(75B) WORK DONE BY:

(76) LENGTH OF IMPROVEMENT: **00000.0 FT**

(94) BRIDGE IMPROVEMENT COST: **$ 000000**

(95) ROADWAY IMPROVEMENT COST: **$ 000000**

(96) TOTAL PROJECT COST: **$ 000000**

(97) YR OF IMPROVEMENT COST EST:

(114) FUTURE AVG DAILY TRAFFIC: **005088**

(115) YR OF FUTURE ADT: **2032**

PHOTO 1

Description Looking North (across bridge)

PHOTO 2

Description Roadway South of Deck

PHOTO 3

Description Wearing Surface (SW corner, looking NE)

PHOTO 4

Description Wearing Surface and West Curb and Railing

PHOTO 5

Description Roadway North of Deck

PHOTO 6

Description Erosion at NW Corner

PHOTO 7

Description NE Channel (downstream)

PHOTO 8

Description SW Channel (upstream)

PHOTO 9

Description East Side

PHOTO 10

Description NE Wing

PHOTO 11

Description NE Wing (erosion at base)

PHOTO 12

Description North Abutment (close-up)

PHOTO 13

Description Underside and South Abutment

PHOTO 14

Description Box Beam 12 (deterioration around NE drain)

PHOTO 15

Description Box Beams 7 & 6 (looking south)

PHOTO 16

Description Box Beam 1 (looking south)

PHOTO 17

Description North Abutment (NW Corner)

PHOTO 18

Description NW Wing (erosion at base)

PHOTO 19

Description NW Wing

PHOTO 20

Description SW Wing

PHOTO 21

Description West Side

PHOTO 22

Description Underside and North Abutment

PHOTO 23

Description Box Beam 1 (deterioration at SW drain)

PHOTO 24

Description Box Beam 6 (looking north; spalls on underside)

PHOTO 25

Description Box Beam 12 (looking north)

PHOTO 26

Description South Abutment

PHOTO 27

Description SE Corner

PHOTO 28

Description SE Wing

Load Rating 2:

Has the dead load or the structural condition of the primary load carrying members changed since the last inspection? Yes - Load Rating Update Required

Extended Frequency: Submittal Date:

Inspector: This bridge failed Extended Frequency Check List.

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

N - ONLY to remove other value that is no longer present.

Comments:

deck overlaid with HMA; unknown approach pavement; no joints visible;

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

7 - Good Condition, minor chalking

Comments:

no issues noted;

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

2 - Approach Slab but paved over

6 - Satisfactory condition, mild crack, wide spacing

Comments:

"B" Rehab {1967} implies old 20' wide PCCP was left in place (along with most of old wing walls), with HMA extensions added at time to widen and level grade; additional HMA added over years to complete obscure what is below; slight dips at corners ("soft" HMA shoulders);

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

N - No Paint Not Rated

Comments:

Scour Analysis: 5 **Scour Critical:** **Scour POA?** N

NBI 113 Scour Comment:

Original Sections: RC spread footings supported by untreated timber piles driven to 20 Tons (minimum bearing);
Widening Sections: wall extensions rest on and protrude over original RC spread footings; wooden wing walls support additional fill in front of originals (left in place);

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

Bats: seen or heard under structure? * N

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

BRIDGE Culvert Geometry:

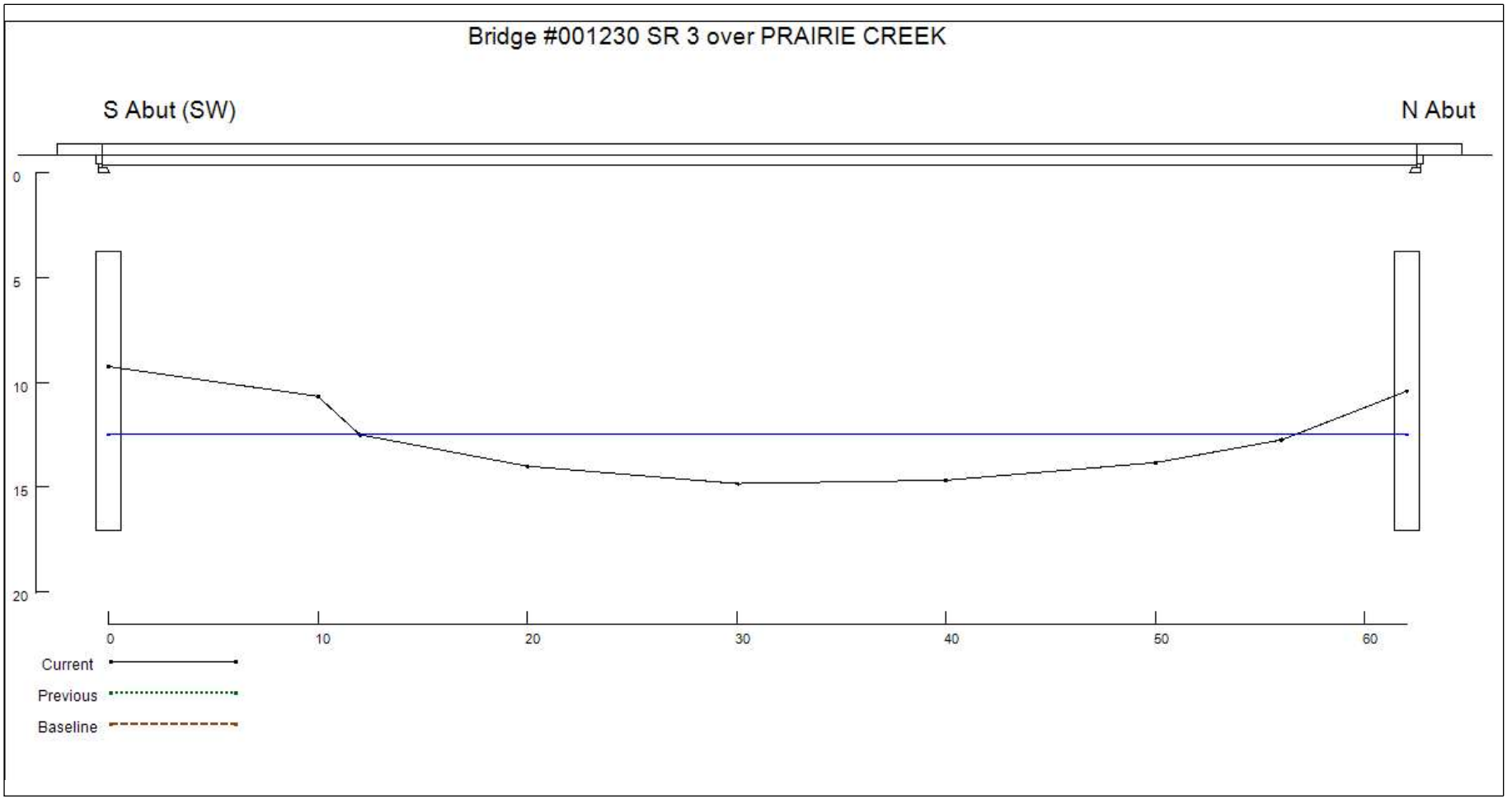
Barrel Length:

Height:

Width:

Channel Measurement

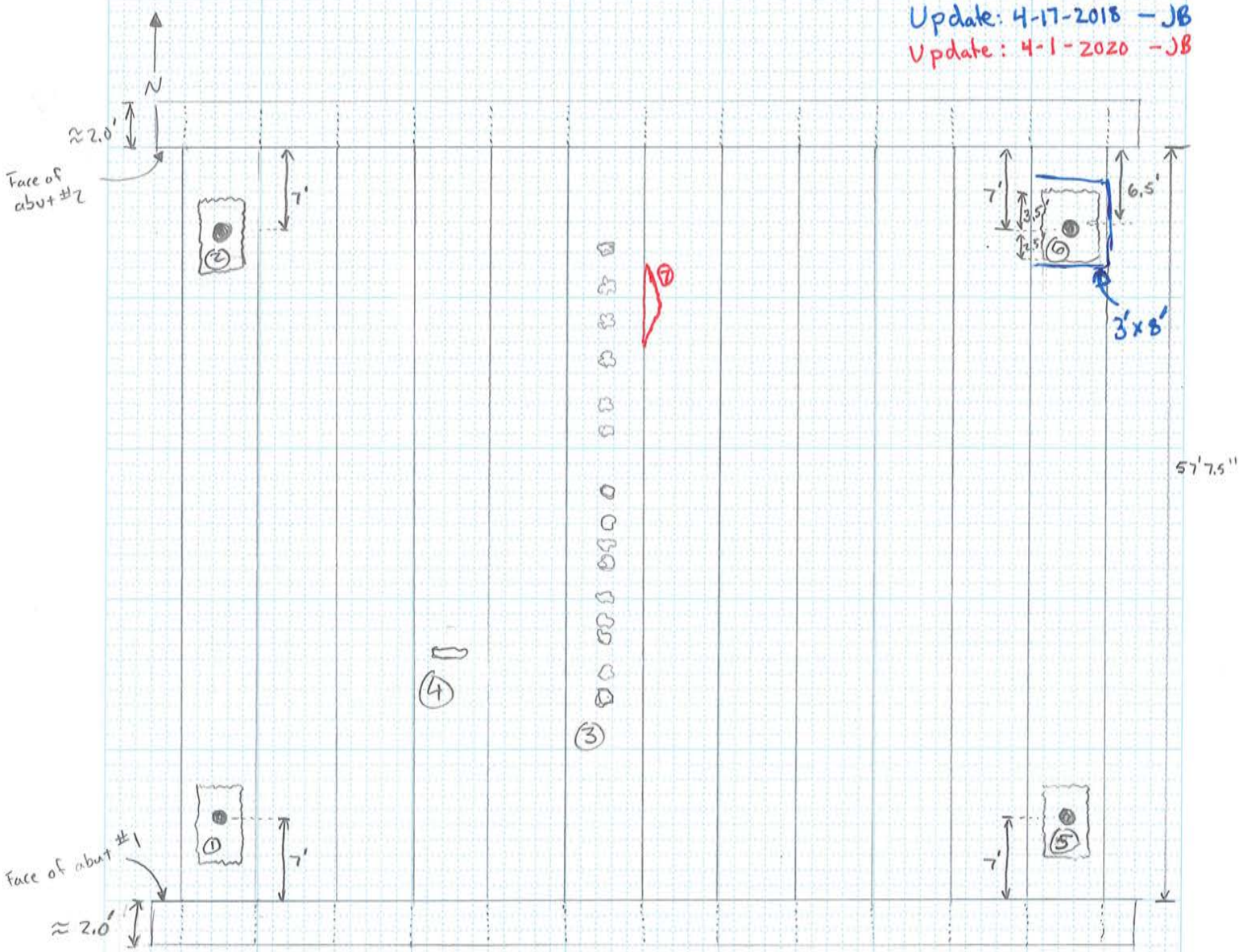
Date of Channel Measurements:	04/20/2020	Number of Fixed Objects in Channel:	2
Distance Measured From:		Water Level:	12.50
Depth Measured From:		High Water Mark:	
Number of Measurement Points Taken:	9	Measurement Type:	Depth from Reference Point



Structure/~~Project~~ No. 003-90-01420 C

Design Computations for: Load rating sketch 5-31-16

Update: 4-17-2018 - JB
Update: 4-1-2020 - JB



24°30' Lt Skew not shown in sketch, also not drawn to scale

Computed by Corey Schamberger Checked by:

Structure/Project No. 003-90-01420C

Design Computations for: Load rating sketch 5-31-16

Update: 4-17-2018 - JB
Update: 4-1-2020 - JB

Beam #1 (west)

1. 2'w x 3'L spall/delamination no exposed rebar or strands
   Center of defect 7' from face of abut. #1
2. 2'w x 4'L spall/delamination no exposed rebar or strands
   center of defect 7' from face of abut. #2

Beam #6

3. 15 - 12" x 12" spalls/delaminations, spalls have shallow stir-up bar exposed
   All dimesions measured from the face of abut #1:
   15.5', 17.5', 20.5', 21.5', 23', 26', 27', 28.5', 31.5'
   36', 37.5', 40.5', 44.5', 46.5', 49.0'

Beam #4

4. 18"w x 6"L spall with shallow exposed stir-up bar
   center of defect 19' from face of abut #1

Beam #12

5. 2'w x 3'L spall/delamination no exposed rebar
   Center of defect 7' from face of abut #1

6. ~~2~~ 3'w x ~~6~~ 8'L spall/delamination, 6 strands exposed (5 have section loss, 1 only exposed)
   JB - east edge spalled out at bottom corner;
   also has a few stir-ups exposed
   Center of defect is 6.5' from face of abut #2

Beam #7

7. approximate 3'L x 6"W delamination/spall along west edge

Computed by Corey Schamberger Checked by:

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated July 2020)

ProjectNumber	SubProjectCode	County	Property
1800008	1800008	Wells	Ouabache State Park
1800095	1800095	Wells	Wells County Community Swimming Pool
1800159	1800159	Wells	Roush Park
1800164	1800164	Wells	Ouabache State Park
1800171	1800171I	Wells	Oubache State Park
1800182	1800182	Wells	Ouabache State Park
1800300	1800300	Wells	Ouabache State Park
1800312	1800312J	Wells	Ouabache State Park
1800363	1800363U	Wells	Ouabache State Park
1800579	1800579	Wells	Archbold Wilson Memorial Park
1800588	1800588	Wells	Roush Park
1800594	1800594C	Wells	Ouabache State Park

*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.

Source: https://www.in.gov/indot/2523.htm

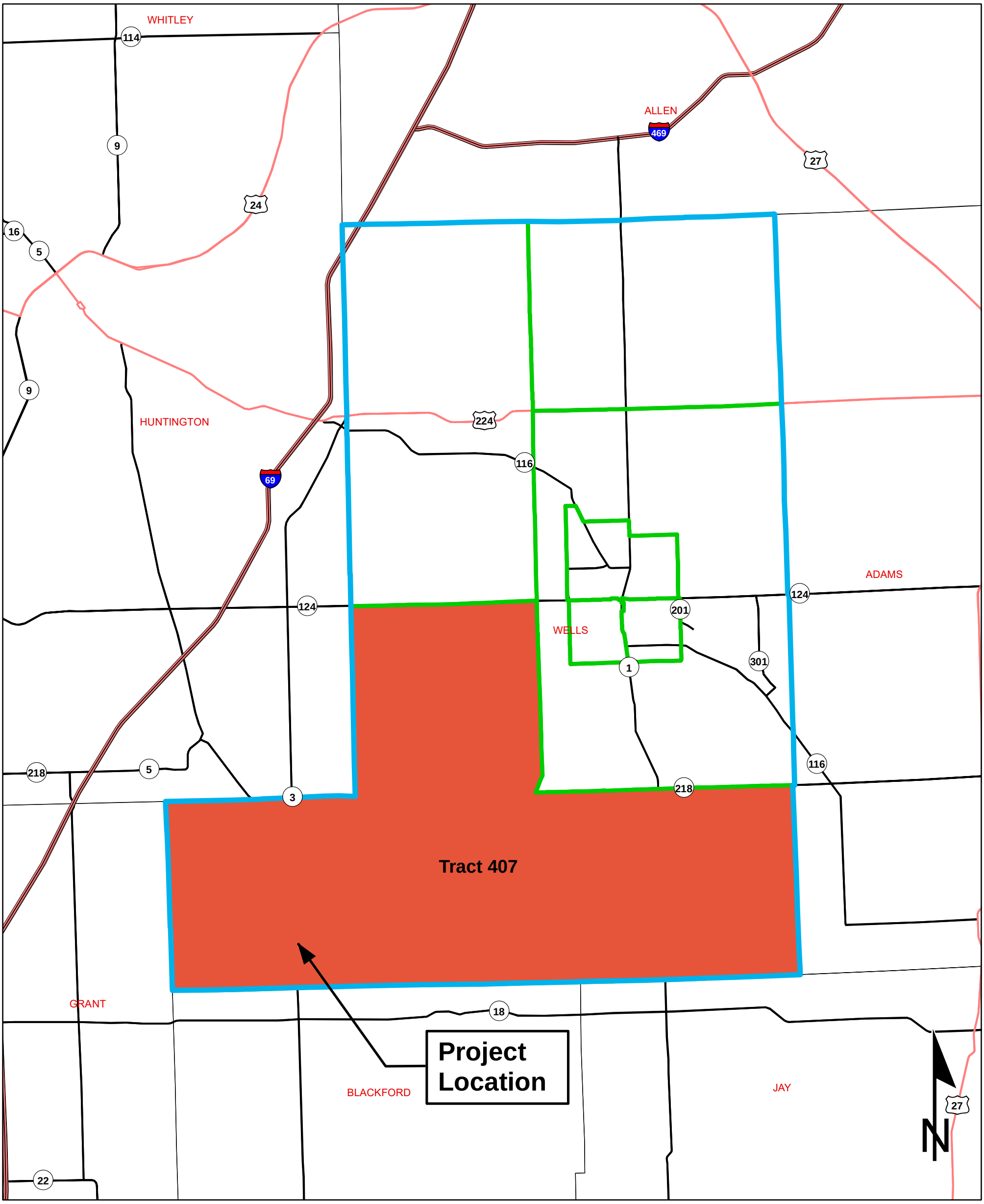
Community of Comparison (COC) and Affected Community (AC) Data for DES 1800051

	Wells County, Indiana (COC)	Census Tract 407, Wells County, Indiana (AC)
Label	**Estimate**	**Estimate**
Total Race Population Sample:	28011	3826
Non-Hispanic White alone	26429	3638
Not Non-Hispanic White alone	1582	188
% Minority	5.65	4.91
125%COC	7.06	< 125% COC
Total Poverty Population Sample:	27,346	3,801
Income Below Poverty Status	2,302	125
% Below Poverty Status	8.42	3.29
125%COC	10.52	<125% COC

Source

https://data.census.gov/cedsci/

Environmental Justice Map
Des. No. 1800051, Bridge Replacement
SR 3, 2.46 Miles North of SR 18
Wells County, Indiana



4 2 0 4 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Legend

- Census Tracts (2011)
- Affected Community
- Community of Comparison