

Indiana Department of Transportation

County Jackson

Route SR 135

Des. No. 1801032

**FHWA-Indiana Environmental Document
CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM
GENERAL PROJECT INFORMATION**

Road No./County:

State Route (SR) 135/Jackson County

Designation Number:

1801032

Project Description/Termini:

Small Structure Replacement, 1.05 mi north of SR 58

After completing this form, I conclude that this project qualifies for the following type of Categorical Exclusion (FHWA must review/approve if Level 4 CE):

X	Categorical Exclusion, Level 2 – The proposed action meets the criteria for Categorical Exclusion Manual Level 2 - table 1, CE Level Thresholds. Required Signatories: ESM (Environmental Scoping Manager)
	Categorical Exclusion, Level 3 – The proposed action meets the criteria for Categorical Exclusion Manual Level 3 - table 1, CE Level Thresholds. Required Signatories: ESM, ES (Environmental Services Division)
	Categorical Exclusion, Level 4 – The proposed action meets the criteria for Categorical Exclusion Manual Level 4 - table 1, CE Level Thresholds. Required Signatories: ESM, ES, FHWA
	Environmental Assessment (EA) – EAs require a separate FONSI. Additional research and documentation is necessary to determine the effects on the environment. Required Signatories: ES, FHWA

Note: For documents prepared by or for Environmental Services Division, it is not necessary for the ESM of the district in which the project is located to release for public involvement or sign for approval.

Approval

ESM Signature

Date

ES Signature

Date

FHWA Signature

Date

Release for Public Involvement

ESM Initials

Date

ES Initials

Date

Certification of Public Involvement

Office of Public Involvement

Date

Note: Do not approve until after Section 106 public involvement and all other environmental requirements have been satisfied.

INDOT ES/District Env.

Reviewer Signature: _____

Date: _____

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

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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.

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

*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.

Remarks: Notice of survey letters were mailed to potentially affected property owners near the project area on October 18, 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 survey letter is included in Appendix G-2.
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 comment 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
Will the project involve substantial controversy concerning community and/or natural resource impacts? [] Yes [X] No

Remarks: 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: INDOT INDOT District: Seymour
Local Name of the Facility: SR 135

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

*If other is selected, please identify the funding source:

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PURPOSE AND NEED:

Describe the transportation problem that the project will address. The solution to the traffic problem should NOT be discussed in this section. (Refer to the CE Manual, Section IV.B.2. Purpose and Need)

The need for this project is due to the deteriorated condition of the existing small structure (CV 135-036-75.70). The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. The pavement is in overall good condition, with a few locations of cracking due to normal wear and tear. The structural evaluation rating from the culvert inspection report is at 4 (poor) on a scale from 0 (failed condition) to 9 (excellent condition). See the Indiana Department of Transportation (INDOT) Culvert Inspection Report dated April 16, 2020 for more details (Appendix I-2 to I-8).

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

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Jackson Municipality: Freetown

Limits of Proposed Work: 300 feet north and 300 feet southeast of the bridge center.

Total Work Length: 0.12 Mile(s) Total Work Area: 0.7 Acre(s)

	Yes¹	No
Is an Interchange Modification Study / Interchange Justification Study (IMS/IJS) required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, when did the FHWA grant a conditional approval for this project?	Date: <input style="width: 100%;" type="text"/>	

¹If an IMS or IJS is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IMS/IJS.

In the remarks box below, describe existing conditions, provide in detail the scope of work for the project, including the preferred alternative. Include a discussion of logical termini. Discuss any major issues for the project and how the project will improve safety or roadway deficiencies if these are issues.

Project Location

The structure carries SR 135 over UNT to Kiper Creek, 1.05 miles north of SR 58. The project is further located in Pershing Township, Jackson County, Indiana, in Section 1, Township 6 North, Range 3 East of the Kurtz Quadrangle (Appendix B-4). Please refer to Appendix B-2 for the project location

Existing Condition

The existing structure (CV 135-036-75.70) is comprised of twin corrugated metal pipe arches with a 72.2-inch span by 44.4-inch rise by 41-foot length. The existing structure is skewed 30 degrees to the roadway. UNT to Kiper Creek flows southwest through the structure (Appendix F-2 to F-24). The structure is in an agricultural and residential area. The existing typical section for SR 135 at this location is comprised of two 10-foot wide travel lanes, one in each direction, with no paved shoulders. There are two residential drives to the north of the structure within the project area. Photographs of the small structure are in Appendix B-15 to B-17.

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Preferred Alternative Description

The preferred alternative is to replace the structure with a 50-foot long, 10-foot span, and 4-foot rise sumped 6 inches precast concrete box. The proposed structure will be placed perpendicular to SR 135 moving the inlet of the structure to the southeast. Ditch lines will be relocated into the proposed inlet. Construction will include the installation of full depth pavement on top of the new structure and structural backfill. Milling and resurfacing the existing pavement approaching the new full depth pavement will be performed to tie in the existing pavement to the project. A 2-foot paved shoulder will be added on each side of the roadway within the full depth pavement and resurfacing limits. The structure will extend outside the obstruction free zone eliminating the need for guardrail. Scour protection (revetment riprap on geotextiles) will be placed at the inlet and outlet of the structure, per the INDOT Standard Drawings. The project will not change the vertical or horizontal alignment of SR 135. The residential drive to the northeast of the structure will be removed, eliminating access to the property. The residential drive and culvert to the northwest of the structure will be replaced.

This alternative meets the project's purpose and need by providing a new small structure with a condition rating of excellent. The project demonstrates independent utility because it will improve the function of the small structure as an independent project and does not depend on other projects. The logical termini of the small structure replacement extends to the limits required to remove and replace the existing structure and provide a smooth riding surface. Design plans provide more detail regarding the proposed improvements (Appendix B-11).

Environmental impacts have been reduced to the extent possible during design development. The measures include limiting excavation limits to small structure replacement and ditch realignments, minimizing fill slope impacts and by maintaining the existing horizontal alignments.

Maintenance of Traffic (MOT)

The MOT for this project will require SR 135 to be closed to traffic during construction, and a detour route will be used for up to 4 weeks.

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

No Build: 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 structurally sufficient small structure with a condition rating of good (7 or better).

The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply):

- It would not correct existing capacity deficiencies;
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
It would result in serious impacts to the motoring public and general welfare of the economy.
Other (Describe)

Grid of checkboxes with 'X' in the fourth row.

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ROADWAY CHARACTER:

Functional Classification: Minor Arterial
 Current ADT: 565 VPD (2018) Design Year ADT: 604 VPD (2043)
 Design Hour Volume (DHV): 65 VPH Truck Percentage (%) 10.17% DHV
 Designed Speed (mph): 45 mph Legal Speed (mph): 45 mph

Existing Proposed

Number of Lanes:	2		2	
Type of Lanes:	Vehicular – 1EB, 1WB		Vehicular – 1EB, 1WB	
Pavement Width:	20	ft.	20	ft.
Shoulder Width:	0	ft.	2	ft.
Median Width:	N/A	ft.	N/A	ft.
Sidewalk Width:	N/A	ft.	N/A	ft.

Setting: Urban Suburban Rural
 Topography: Level Rolling Hilly

If the proposed action has multiple roadways, this section should be filled out for each roadway.

DESIGN CRITERIA FOR SMALL STRUCTURES:

Structure/NBI Number(s): CV 135-036-75.70 Sufficiency Rating: N/A
 (Rating, Source of Information)

Existing Proposed

Bridge Type:	Corrugated metal twin pipes		Precast concrete box	
Number of Spans:	N/A		N/A	
Weight Restrictions:	N/A	ton	N/A	ton
Height Restrictions:	N/A	ft.	N/A	ft.
Curb to Curb Width:	N/A	ft.	N/A	ft.
Outside to Outside Width:	20	ft.	24	ft.
Shoulder Width:	0	ft.	2	ft.
Length of Channel Work:			300	ft.

Describe bridges and structures; provide specific location information for small structures.

Remarks: The existing small structure (CV 135-036-75.70) consists of twin 38-foot-long by 6-foot span corrugated metal pipe arches. The project will include the complete removal and replacement of the existing culvert. The existing culvert will be completely removed and replaced with a 50-foot long, 10-foot span, and 4-foot rise sumped 6 inches precast concrete box. The drive pipe in the northeast quadrant will be removed and not replaced. The drive pipe in the northwest quadrant will be replaced with an 18-inch diameter pipe.

No additional structures are located within the project area.

Will the structure be rehabilitated or replaced as part of the project? Yes No N/A
If the proposed action has multiple bridges or small structures, this section should be filled out for each structure.

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MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

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

Remarks:
 The MOT for the project will require the closing of SR 135 during construction. The detour is expected to be in place no more than 4 weeks. The detour route will use SR 45, I65, and SR 58 which is 34.8 miles and will add approximately 16.3 miles for traveling motorists.

 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 will cease upon project completion. Delays would occur during construction but will cease with project completion.

 Access will be maintained for the property owners within the project area.

ESTIMATED PROJECT COST AND SCHEDULE:

Construction: \$ 3,731,830.00 (2023) Right-of-Way: \$ 140,000.00 (2021) Engineering: \$ 1,322,900 (2023)

Anticipated Start Date of Construction: Summer, 2023

Date project incorporated into STIP July 2, 2019

Is the project in an MPO Area? Yes No

If yes,

Name of MPO N/A

Location of Project in TIP N/A

Date of incorporation by reference into the STIP N/A

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RIGHT-OF-WAY:		
Amount (acres)		
Land Use Impacts	Permanent	Temporary
Residential (Construction Area)	0.38	0
Residential (Non-Construction)	0.34	0
Commercial	0	0
Agricultural	0.53	0
Forest	0	0
Stream	0.06	0
Other (Grassy Roadside)	0.04	0
TOTAL	1.35	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 or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks: The existing right-of-way (ROW) is approximately 20 feet wide in the project area, which extends 10 feet north and 10 feet south of the SR 58 centerline. The project requires approximately 1.35 acre of permanent ROW, which consists of agricultural, residential, stream, and grassy roadside areas on the north and southeast sides of the small structure. The project does not require temporary ROW. The remainder of construction is restricted to the existing small structure and roadway within the existing right-of-way. The residential parcel to the northeast of the existing structure will be acquired due to the removal of access. This comprises 0.34 acre of residential area which is not part of the project construction area.

If the scope of work or permanent or temporary ROW 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 – ECOLOGICAL RESOURCES

	Presence	Impacts	
		Yes	No
Streams, Rivers, Watercourses & Jurisdictional Ditches			
Federal Wild and Scenic Rivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Natural, Scenic or Recreational Rivers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nationwide Rivers Inventory (NRI) listed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outstanding Rivers List for Indiana	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Navigable Waterways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Based on a desktop review, a site visit on October 16, 2019, the aerial map of the project area (Appendix B-3) and the water resources map (Appendix E-8) in the Red Flag Investigation (RFI) report, there are 7 streams located within the 0.5 mile search radius of the project area. There are 2 streams present within or adjacent to the project area.

A *Waters of the U.S. Determination* was completed for the project on September 15, 2020. Please refer to Appendix F for the *Waters of the U.S. Determination* report. It was determined that two ephemeral channels,

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UNT to Kiper Creek and UNT1, occur within the project area. UNT to Kiper Creek is the channel that drains to the southwest through the project structure and has an OHWM of 7.0 feet in width and 0.50 foot in depth. UNT1 meets UNT to Kiper Creek southwest of the project structure and has an OHWM of 1.5 foot and 0.25 foot deep. In a Concurrence Letter dated November 2, 2020, the U.S. Army Corps of Engineers (USACE) determined that UNT to Kiper Creek and UNT1 are excluded from regulation under Section 404 of the Clean Water Act and are not considered to be Waters of the U.S. (Appendix C-19 to C-20). In an email dated November 4, 2020 INDOT's Ecology and Waterway Permitting Office stated that Section 404 and Indiana Department of Environmental Management (IDEM) Section 401 Water Quality Certification permits would not be required (Appendix C-18). USACE makes all final determinations regarding jurisdiction. No mitigation is expected.

Early coordination letters were sent to the U.S. Fish and Wildlife Service (USFWS), Indiana Department of Natural Resources Division of Fish and Wildlife (IDNR-DFW) and USACE on June 23, 2020 (Appendix C-2 to C-4). USACE did not respond to the early coordination letter. USFWS responded on July 21, 2020 (Appendix C-5 to C-6) and IDNR-DFW responded on July 23, 2020 (Appendix C-7 to C-9). USFWS recommended utilization of natural substrate if possible, minimization of the extent of riprap, minimization of channel work, restrictions to low-water work, 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 revegetation of disturbed areas, minimization of excavation in low flow areas, avoidance of temporary runarounds or causeways, minimum of 6 inch riprap grade for aquatic organism habitat, sediment control at streams, avoidance of work during the fish spawning season, and recommendations for erosion control in steep slope areas. All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE) document.

Other Surface Waters

Reservoirs
Lakes
Farm Ponds
Detention Basins
Storm Water Management Facilities
Other: _____

	Presence	Impacts	
		Yes	No
Reservoirs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farm Ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detention Basins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm Water Management Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Based on a desktop review, a site visit on October 16, 2019, the aerial map of the project area (Appendix B-3) and the water resources map in the RFI report (Appendix E-8), there are ten lakes located within the 0.5 mile search radius. The nearest lake is 0.04 mile west of the project area. A *Waters of the U.S. Determination* report (Appendix F) completed by Corradino, LLC on September 15, 2020 found no other surface waters within or adjacent to the project area. Therefore, no impacts are expected.

Early coordination letters were sent to USFWS, IDNR-DFW, and USACE on June 23, 2020 (Appendix C-2 to C-4). In a Concurrence Letter dated November 2, 2020, USACE did not provide comments regarding other surface waters (Appendix C-19 to C-20). USFWS responded on July 21, 2020 (Appendix C-5 to C-6) and IDNR-DFW responded on July 23, 2020 (Appendix C-7 to C-9); however, the letters provided no comments regarding other surface waters.

Wetlands

	Presence	Impacts	
		Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total wetland area: 0.0 acre(s) Total wetland area impacted: 0.0 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
N/A	N/A	0.0	0.0	N/A

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Documentation

ES Approval Dates

Wetlands (Mark all that apply)

- Wetland Determination
- Wetland Delineation
- USACE Isolated Waters Determination
- Mitigation Plan

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.

Measures to avoid, minimize, and mitigate wetland impacts need to be discussed in the remarks box.

Remarks: Based on a review of the National Wetlands Inventory (NWI) online mapper (<https://www.fws.gov/wetlands/20/data/Mapper.html>), the USGS topographic map (Appendix B-4), and the water resources map in the RFI report (Appendix E-8), there are sixteen National Wetland Inventory (NWI) Wetlands and four NWI lines within a 0.5 mile search radius of the project area. No wetlands are present within or adjacent to the project area, therefore, no impacts are expected.

Early coordination letters were sent to the USFWS, IDNR-DFW and USACE on June 23, 2020 (Appendix C-2 to C-4). In a Concurrence Letter dated November 2, 2020, USACE did not provide comments regarding other wetlands (Appendix C-19 to C-20). USFWS responded on July 21, 2020 (Appendix C-5 to C-6) and IDNR-DFW responded on July 23, 2020 (Appendix C-7 to C-9). Neither agency included recommendations for wetlands. All applicable agency recommendations are included in the Environmental Commitments section of this CE document.

Presence

Impacts

Yes No

Terrestrial Habitat
Unique or High Quality Habitat

X

X

X

Use the remarks box to identify each type of habitat and the acres impacted (i.e. forested, grassland, farmland, lawn, etc).

Remarks: Based on a desktop review, a site visit on October 16, 2019, site photos (Appendix B-15 to B-17) and the aerial map of the project area (Appendix B-3), there is vegetation and grassy habitat within the project area. Dominant species in this habitat within the project area include Japanese bristlegrass (*Setaria faberi*), tall fescue (*Schedonorus arundinaceus*), and white clover (*Trifolium repens*). Common names are in accordance with the United States Department of Agriculture Natural Resources Conservation Service. Approximately 0.48 acre of impacts are expected to this habitat. 0.15 acre of tree clearing is expected. Impacted trees may include tulip poplar (*Liriodendron tulipifera*) and black walnut (*Juglans nigra*) at the roadside and sugar maple (*Acer saccharum*) and eastern sycamore (*Platanus occidentalis*) lining the stream bank. Environmental impacts have been reduced to the extent possible during design development. These measures include minimizing the full depth shoulder pavement replacement to the minimum width to meet design criteria, minimizing slope impacts by providing minimum slopes outside the required design clear zone, and maintaining the existing horizontal alignment.

Early coordination letters were sent to USFWS and IDNR-DFW on June 23, 2020 (Appendix C-2 to C-4). USFWS responded on July 21, 2020 (Appendix C-5 to C-6) and IDNR-DFW responded on July 23, 2020 (Appendix C-7 to C-9).

IDNR-DFW had recommendations regarding revegetation using native species, erosion control, and the use

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of erosion control blankets which will not ensnare small animals (Appendix C-7 to C-9).

USFWS recommends avoidance of clearing trees or understory vegetation outside the construction zone boundaries. This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat. USFWS also recommends evaluation of wildlife crossing, implementation of 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. (Appendix C-5 to C-6).

Online coordination with IDEM occurred on June 23, 2020. In the early coordination response, IDEM recommends implementing erosion and sediment control measures (Appendix C-14 to C-17). Total disturbed area will be 0.67 acre, which is less than the 1 acre threshold for an IDEM Rule 5 Storm Water Runoff Permit.

All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this CE document.

If there are high incidences of animal movements observed in the project area, or if bridges and other areas appear to be the sole corridor for animal movement, consideration of utilizing wildlife crossings should be taken.

Karst	Yes	No
Is the proposed project located within or adjacent to the potential Karst Area of Indiana?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are karst features located within or adjacent to the footprint of the proposed project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, will the project impact any of these karst features?	<input type="checkbox"/>	<input type="checkbox"/>

Use the remarks box to identify any karst features within the project area. (Karst investigation must comply with the Karst MOU, dated October 13, 1993)

Remarks: Based on a desktop review, the 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-2 to E-12), there are no karst features identified within the project area. In the early coordination response, the Indiana Geological Survey (IGS) did not indicate that karst features exist in the project area (Appendix C-10 to C-11). IGS identified the project area as having high liquefaction potential, 1% annual chance flood hazard, low potential as a sand and gravel resource, and moderate potential as a bedrock resource (Appendix C-10 to C-11). The features will not be affected because the project appears not to have excavation deep enough to impact bedrock or liquefaction potential, and to be far enough from any mineral resources to not have an impact. The maximum depth of excavation is limited to 10 feet deep at the small structure location. Response from IGS has been communicated with the designer on June 23, 2020. No impacts are expected.

	Presence	Impacts	
Threatened or Endangered Species		Yes	No
Within the known range of any federal species	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Any critical habitat identified within project area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal species found in project area (based upon informal consultation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State species found in project area (based upon consultation with IDNR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is Section 7 formal consultation required for this action?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Remarks: Based on a desktop review and the RFI report (Appendix E), completed by Corradino, LLC on June 22, 2020, the IDNR-DFW Jackson County Endangered, Threatened and Rare (ETR) Species List has been checked and is included in Appendix E-10 to E-12. 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 July 23, 2020 (Appendix C-7 to C-9), 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.

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Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C-21 to C-25). 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 FHWA, Federal Railroad Administration (FRA), and USFWS. An effect determination key was completed on May 21, 2021, and based on the responses provided, the project was found to "may affect – not likely to adversely affect" the Indiana bat (*Myotis sodalis*) and/or the northern long-eared bat (NLEB) (*Myotis septentrionalis*) (Appendix C-25 to C-41). INDOT reviewed and verified the effect finding on May 21, 2021 and requested USFWS's review of the finding (Appendix C-25). 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.

SECTION B – OTHER RESOURCES

Drinking Water Resources	Presence	Impacts	
		Yes	No
Wellhead Protection Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Water System(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Residential Well(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Source Water Protection Area(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sole Source Aquifer (SSA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If a SSA is present, answer the following:

	Yes	No
Is the Project in the St. Joseph Aquifer System?	<input type="checkbox"/>	<input type="checkbox"/>
Is the FHWA/EPA SSA MOU Applicable?	<input type="checkbox"/>	<input type="checkbox"/>
Initial Groundwater Assessment Required?	<input type="checkbox"/>	<input type="checkbox"/>
Detailed Groundwater Assessment Required?	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: The project is located in Jackson 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/EPA Sole Source Aquifer Memorandum of Understanding (MOU) signed April 1989 is not applicable to this project. No impacts are expected.

The IDEM Wellhead Proximity Determinator website (<http://www.in.gov/idem/cleanwater/pages/wellhead/>) was accessed on June 23, 2020 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.dnr.in.gov/dnr/water/3595.htm>) was accessed on June 24, 2020 by Corradino, LLC. No wells are located near this project. Therefore, no impacts are expected.

Based on a desktop review of the INDOT MS4 website (<https://entapps.indot.in.gov/MS4/>) by Corradino, LLC on July 7, 2020 and the RFI report completed on June 22, 2020; this project is not located in an Urban Area Boundary location. No impacts are expected.

Based on a desktop review, a site visit October 16, 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.

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Flood Plains	Presence	Impacts	
		Yes	No
Longitudinal Encroachment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transverse Encroachment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project located within a regulated floodplain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Homes located in floodplain within 1000' up/downstream from project	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discuss impacts according to classification system described in the "Procedural Manual for Preparing Environmental Studies".

Remarks: Based on a desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (<http://dnrmmaps.dnr.in.gov/appsphp/fdms/>) by Corradino, LLC on June 22, 2020, and the RFI report; this project is located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix E-8). An early coordination letter was sent on June 23, 2020, to the local Floodplain Administrator. The floodplain administrator did not respond within the 30 day timeframe.

The project qualifies as a Category 4 per the INDOT CE Manual which states "Two 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 culvert 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."

Farmland	Presence	Impacts	
		Yes	No
Agricultural Lands	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prime Farmland (per NRCS)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Total Points (from Section VII of CPA-106/AD-1006* 110

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

See CE Manual for guidance to determine which NRCS form is appropriate for your project.

Remarks: Based on a desktop review, a site visit on October 16, 2019 by Corradino, LLC, and the aerial map of the project area (Appendix B-3), the project will convert 0.53 acre of farmland within the project limits as defined by the Farmland Protection Policy Act. Note that at the time of coordination, 1.25 acre of impact was assumed and that since that time, anticipated project right-of-way has been reduced. An early coordination letter was sent on June 23, 2020, to Natural Resources Conservation Service (NRCS). Coordination with NRCS resulted in a score of 110 on the NRCS-CPA-106 (Appendix C-12 to C-13). 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 re-evaluating impacts to prime farmland.

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SECTION C – CULTURAL RESOURCES

	Category	Type	INDOT Approval Dates	N/A
Minor Projects PA Clearance	B	9	September 10, 2020	

Eligible and/or Listed
Resource Present

Results of Research

Archaeology	<input type="checkbox"/>
NRHP Buildings/Site(s)	<input type="checkbox"/>
NRHP District(s)	<input type="checkbox"/>
NRHP Bridge(s)	<input type="checkbox"/>

Project Effect

No Historic Properties Affected No Adverse Effect Adverse Effect

Documentation
Prepared

Documentation (mark all that apply)

		ES/FHWA Approval Date(s)	SHPO Approval Date(s)
Historic Properties Short Report	X	September 9, 2020	N/A
Historic Property Report	<input type="checkbox"/>		
Archaeological Records Check/ Review	<input type="checkbox"/>		
Archaeological Phase Ia Survey Report	X	September 9, 2020	N/A
Archaeological Phase Ic Survey Report	<input type="checkbox"/>		
Archaeological Phase II Investigation Report	<input type="checkbox"/>		
Archaeological Phase III Data Recovery	<input type="checkbox"/>		
APE, Eligibility and Effect Determination	<input type="checkbox"/>		
800.11 Documentation	<input type="checkbox"/>		

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

Describe all efforts to document cultural resources, including a detailed summary of the Section 106 process, using the categories outlined in the remarks box. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of paper(s) and the comment period deadline. Likewise include any further Section 106 work which must be completed at a later date, such as mitigation or deep trenching.

Remarks: On September 10, 2020, the INDOT Cultural Resources Office (CRO) determined that this project falls within the guidelines of Category B, Type 9 under the Minor Projects Programmatic Agreement (Appendix D-3 to D-4). This covers installation, replacement, repair, lining, or extension of culverts and other drainage structures.

A Phase Ia Archaeological Reconnaissance was required (Appendix D-5 to D-13). No cultural materials were located, and no additional archaeological investigation was recommended. 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. No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.

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

Section 4(f) Involvement (mark all that apply)

Parks & Other Recreational Land	<u>Presence</u>	<u>Use</u>	
		Yes	No
Publicly owned park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Publicly owned recreation area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (school, state/national forest, bikeway, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Evaluations Prepared</u>	<u>FHWA Approval date</u>
Programmatic Section 4(f)*	<input type="checkbox"/>
“De minimis” Impact*	<input type="checkbox"/>
Individual Section 4(f)	<input type="checkbox"/>

Wildlife & Waterfowl Refuges	<u>Presence</u>	<u>Use</u>	
		Yes	No
National Wildlife Refuge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Natural Landmark	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Wildlife Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State Nature Preserve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Evaluations Prepared</u>	<u>FHWA Approval date</u>
Programmatic Section 4(f)*	<input type="checkbox"/>
“De minimis” Impact*	<input type="checkbox"/>
Individual Section 4(f)	<input type="checkbox"/>

Historic Properties	<u>Presence</u>	<u>Use</u>	
		Yes	No
Sites eligible and/or listed on the NRHP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Evaluations Prepared</u>	<u>FHWA Approval Date</u>
Programmatic Section 4(f)*	<input type="checkbox"/>
“De minimis” Impact*	<input type="checkbox"/>
Individual Section 4(f)	<input type="checkbox"/>

**FHWA approval of the environmental document also serves as approval of any Section 4f Programmatic and/or De minimis evaluation(s) discussed below.*

Discuss Programmatic Section 4(f) and “de minimis” Section 4(f) impacts in the remarks box below. Individual Section 4(f) documentation must be separate Draft and Final documents. For further discussions on Programmatic, “de minimis” and Individual Section 4(f) evaluations please refer to the “Procedural Manual for the Preparation of Environmental Studies”. Discuss proposed alternatives that satisfy the requirements of Section 4(f).

Remarks:	<p>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.</p> <p>Based on a desktop review, site visits on October 16, 2019 by Corradino, LLC, the aerial map of the project</p>
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area (Appendix B-3), and the RFI report (Appendix E-2 to E-12) there are no Section 4(f) resources within or adjacent to the project area. Therefore, no impacts are expected.

Section 6(f) Involvement	<u>Presence</u>	<u>Use</u>	
Section 6(f) Property	<input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Discuss proposed alternatives that satisfy the requirements of Section 6(f). Discuss any Section 6(f) involvement.

Remarks: 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 six properties in Jackson County (Appendix I-9). None of these properties are located within or adjacent to the project area. Therefore, there will be no impacts to 6(f) resources as a result of this project.

SECTION E – Air Quality

Air Quality

Conformity Status of the Project	Yes	No
Is the project in an air quality non-attainment or maintenance area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If YES, then:		
Is the project in the most current MPO TIP?	<input type="checkbox"/>	<input type="checkbox"/>
Is the project exempt from conformity?	<input type="checkbox"/>	<input type="checkbox"/>
If the project is NOT exempt from conformity, then:		
Is the project in the Transportation Plan (TP)?	<input type="checkbox"/>	<input type="checkbox"/>
Is a hot spot analysis required (CO/PM)?	<input type="checkbox"/>	<input type="checkbox"/>

Level of MSAT Analysis required?

Level 1a Level 1b Level 2 Level 3 Level 4 Level 5

Remarks: The Fiscal Year (FY) 2020-2024 Statewide Transportation Improvement Program (STIP) is listed based on the lead DES number in the contract (Appendix H-2 to H-3). The lead DES number for this contract is 1800287. The FY 2020-2024 STIP includes DES 1801032 by reference with the contract number B-41458.

This project is located in Jackson 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.

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SECTION F - NOISE

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

	No	Yes/ Date
ES Review of Noise Analysis	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: 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 G – COMMUNITY IMPACTS

Regional, Community & Neighborhood Factors

	Yes	No
Will the proposed action comply with the local/regional development patterns for the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the proposed action result in substantial impacts to community cohesion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will the proposed action result in substantial impacts to local tax base or property values?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will construction activities impact community events (festivals, fairs, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the community have an approved transition plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If No, are steps being made to advance the community's transition plan?	<input type="checkbox"/>	<input type="checkbox"/>
Does the project comply with the transition plan? (explain in the remarks box)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remarks: The road closure will cause temporary impacts for approximately 4 weeks. SR 135 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 46, I65, and SR 58 which is 34.8 miles and adds approximately 16.3 miles. 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 culvert 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.

Indirect and Cumulative Impacts **Yes** **No**
 Will the proposed action result in substantial indirect or cumulative impacts?

Remarks: Indirect impacts are effects which are caused by the action and are later in time or farther removed in distance but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density, or growth rate. Cumulative impacts affect the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions. The nature of this project is to replace an existing small structure, which is not expected to cause substantial changes to the cultural or environmental land use in the surrounding area. No indirect or cumulative impacts are expected.

Public Facilities & Services **Yes** **No**
 Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? *Discuss how the maintenance of traffic will affect public facilities and services.*

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Remarks: Based on a desktop review, a site visit on October 16, 2019, the aerial map of the project area (Appendix B-3) and the infrastructure section in the RFI report (Appendix E-3), there are no public facilities within or adjacent to the project area. Access to all properties will be maintained during construction. Therefore, no impacts are expected.

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)

During the development of the project were EJ issues identified?

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Does the project require an EJ analysis?

If YES, then:

Are any EJ populations located within the project area?

Will the project result in adversely high or disproportionate impacts to EJ populations?

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Under FHWA Order 6640.23A, FHWA and INDOT, 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. This project will require 1.01 acres 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 Jackson County, Indiana. The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Census Tract 9680 in Jackson County, Indiana. 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 US Census Bureau Website <https://factfinder.census.gov/> on July 7, 2020 by Corradino, LLC. The data collected for minority and low-income populations within the AC are summarized in the below table.

	COC – Jackson County, Indiana	AC – Census Tract 9680
Percent Minority	11.25%	1.82%
125% of COC	14.07%	AC < 125% COC
EJ Population of Concern		No
Percent Low-Income	14.83%	13.59%
125% of COC	18.29%	AC < 125% COC
EJ Population of Concern		No

The AC Census Tract 9680 has a percent minority of 1.82% 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 9680 has a percent low-income of 13.59% 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-10 to I-11. No further environmental justice analysis is warranted.

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Relocation of People, Businesses or Farms

Will the proposed action result in the relocation of people, businesses or farms?
 Is a Business Information Survey (BIS) required?
 Is a Conceptual Stage Relocation Study (CSRS) required?
 Has utility relocation coordination been initiated for this project?

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

If a BIS or CSRS is required, discuss the results in the remarks box.

Remarks: No relocations of people, businesses, or farms will take place as a result of this project. It is anticipated that utilities in the area may need to be relocated for this project. Utility relocation coordination has been initiated.

SECTION H – HAZARDOUS MATERIALS & REGULATED SUBSTANCES

Hazardous Materials & Regulated Substances (Mark all that apply)

Red Flag Investigation
 Phase I Environmental Site Assessment (Phase I ESA)
 Phase II Environmental Site Assessment (Phase II ESA)
 Design/Specifications for Remediation required?

Documentation

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

	No	Yes/ Date
ES Review of Investigations	<input type="checkbox"/>	8/21/20

Include a summary of findings for each investigation.

Remarks: Based on a review of GIS, available public records, an RFI was completed on June 22, 2020 by Corradino, LLC (Appendix E-2 to E-12). One State Cleanup Site is located within 0.5 mile of the project area, no hazmat site is located within the project area; however, no hazmat sites were identified in or within 0.5 mile of the project area that will impact the project. The nearest state cleanup site is 0.08 mile southeast of the project area. No impacts are expected. Further investigation for hazardous material concerns is not required at this time.

SECTION I – PERMITS CHECKLIST

Permits (mark all that apply)

Likely Required

Army Corps of Engineers (404/Section10 Permit)

Individual Permit (IP)	<input type="checkbox"/>
Nationwide Permit (NWP)	<input type="checkbox"/>
Regional General Permit (RGP)	<input type="checkbox"/>
Pre-Construction Notification (PCN)	<input type="checkbox"/>
Other	<input type="checkbox"/>
Wetland Mitigation required	<input type="checkbox"/>
Stream Mitigation required	<input type="checkbox"/>

IDEM

Section 401 WQC	<input type="checkbox"/>
Isolated Wetlands determination	<input type="checkbox"/>
Rule 5	<input type="checkbox"/>
Other	<input type="checkbox"/>

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Wetland Mitigation required Stream Mitigation required IDNR Construction in a Floodway Navigable Waterway Permit Lake Preservation Permit Other Mitigation Required US Coast Guard Section 9 Bridge Permit Others (Please discuss in the remarks box below)	<table border="1" style="border-collapse: collapse; width: 40px; height: 100px;"> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> </table>											

Remarks: USACE and INDOT determined that UNT to Kiper Creek and UNT1 do not require a Section 404 Regional General Permit No. 1 from the U.S. Army Corps. of Engineers or a Section 401 Water Quality Certification from IDEM (Appendix C-18).

Total disturbed area will be 0.67 acre, which is less than the 1 acre threshold for an IDEM Rule 5 Storm Water Runoff Permit, therefore this permit will not be required. The upstream drainage area is 0.17 square mile, which meets the 50 square mile rural bridge exemption for IDNR Construction in a Floodway permits. It will be the responsibility of the designer to submit plans to the INDOT Ecology and Waterway Permitting Office (EWPO) for an official permit determination.

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

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

SECTION J- ENVIRONMENTAL COMMITMENTS

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s), and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

Firm:

1. If the scope of work and/or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division and the Seymour District Design/Environmental Manager will be contacted immediately. (INDOT ESD and INDOT Seymour District)
2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two (2) weeks prior to any construction activity that would block or limit access. (INDOT ESD).
3. USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after 04/16/2022, 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).
4. 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)
5. Lighting AMM1 – Direct temporary lighting away from suitable habitat during the active season. (USFWS)
6. Tree Removal AMM2 - Apply time of year restrictions for tree removal when bats are not likely to be present (no tree clearing from April 1 to September 30), 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)
7. Tree Removal AMM3 - Ensure tree removal is limited to that specified in project plans and ensure

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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)

8. 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 Further 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. 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. (USFWS)
3. 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).
4. 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)
5. 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)
6. If box or pipe culverts are used, the bottoms should be buried to 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 bankful 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 and water velocities during low-flow conditions that are approximate to those in the natural stream channel. The new, replacement, or rehabbed structure should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions (IDNR-DFW).
7. 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 sideslopes 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 [site indicated] and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR-DFW).
8. 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).
9. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR-DFW).

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SECTION K- EARLY COORDINATION

Please list the date coordination was sent and all 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. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks: Early Coordination Letters with accompanying graphics were sent in June 2020. A date in the table below means a response was received. All early coordination is contained within Appendix C. No coordinating agencies reported concern with the nature of the project or the preferred alternative.

Agency	Date Contacted	Comment Received
US Fish and Wildlife Service	June 23, 2020	July 21, 2020
US Dept. of Housing and Urban Develop.	June 23, 2020	N/A
Federal Highway Administration	June 23, 2020	N/A
US Army Corps. of Engineers	June 23, 2020	November 4, 2020
National Park Service	June 23, 2020	N/A
IDNR – Department of Fish and Wildlife	June 23, 2020	July 23, 2020
U.S. Forest Service	June 23, 2020	N/A
IDEM – Electronic Submittal	June 23, 2020	June 23, 2020
IDEM – Groundwater – Electronic Submittal	June 23, 2020	June 23, 2020
Indiana Geological Survey	June 23, 2020	June 23, 2020
Natural Resources Conservation Service	June 23, 2020	June 29, 2020
INDOT – Seymour District	June 23, 2020	N/A
INDOT – Public Hearings	June 23, 2020	N/A
Highway Superintendent	June 23, 2020	N/A
INDOT – Environmental Services	June 23, 2020	November 4, 2020
Jackson County Surveyor (Floodplain Administrator)	June 23, 2020	N/A

Indiana Department of Transportation

County Jackson

Route SR 135

Des. No. 1801032

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 - Aerial Location Map(B-3)
 - USGS Topographic Map(B-4)
 - Plans(B-5 to B-11)
 - Photographs of the project..... (B-12 to B-14)
- Appendix C: Early Coordination
 - Sample early coordination letter(C-2 to C-4)
 - Early coordination responses(C-5 to C-41)
 - USFWS(C-5 to C-6)
 - IDNR-DFW(C-7 to C-9)
 - IGS(C-10 to C-11)
 - USDA..... (C-12 to C-13)
 - IDEM(C-14 to C-17)
 - INDOT OES(C-18)
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- Appendix E: Red Flag and Hazardous Materials
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 - Supporting Maps(F-7 to F-15)
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- Appendix G: Public Involvement
 - Notice of Survey Letter(G-2)
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 - Environmental Justice(I-10 to I-11)

APPENDIX A

INDOT Supporting Information

DES 1801032

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-way³	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	Concurrence by INDOT District Environmental or Environmental Services	Yes	Yes	Yes	Yes
<ul style="list-style-type: none"> • District Env. Supervisor • Env. Services Division • FHWA 				Yes	Yes

¹Coordinate with INDOT Environmental Services. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

²Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

³Permanent and/or temporary right-of-way.

⁴AMMs = Avoidance and Mitigation Measures.

⁵AMMs 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".

⁶Potential for causing a disproportionately high and adverse impact.

⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

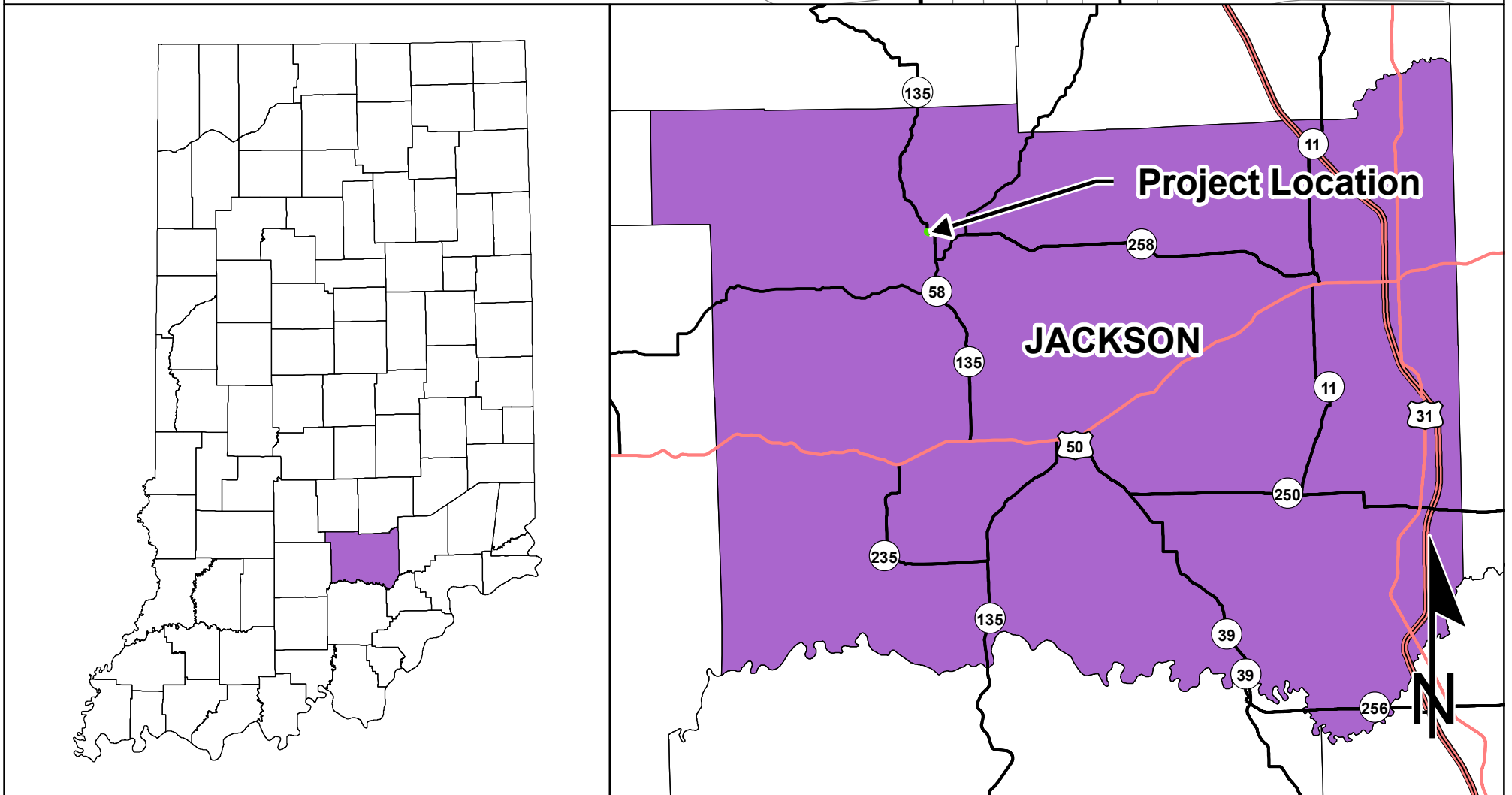
*Substantial public or agency controversy may require a higher-level NEPA document.

APPENDIX B

Graphics

DES 1801032

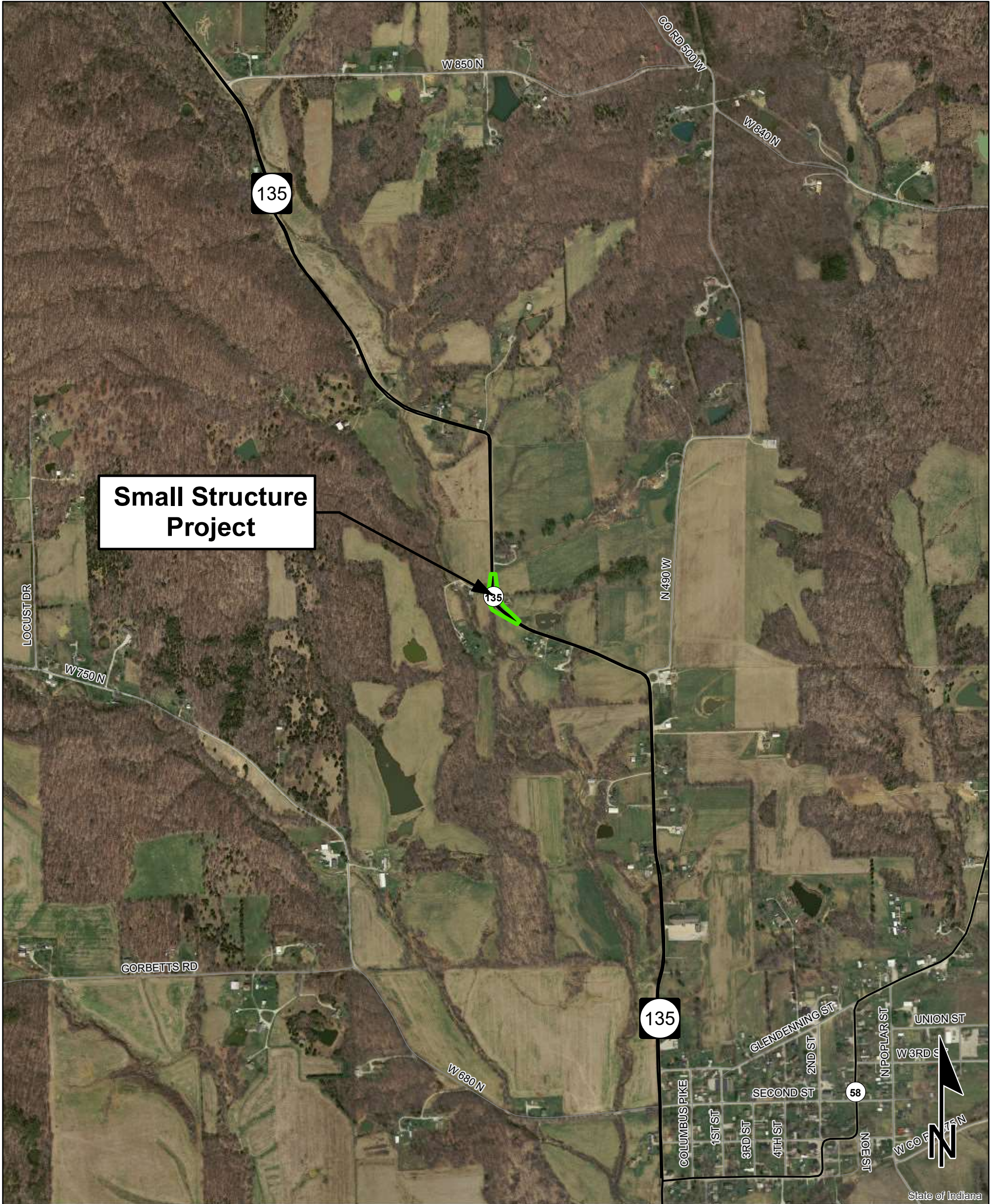
Project Location
Des. No. 1801032, Small Structure Project
SR 135, 0.93 Mile North of SR 58 East Junction
Jackson County, Indiana



Sources:
Non Orthophotography 0.3 0.15 0 0.3 Miles
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**

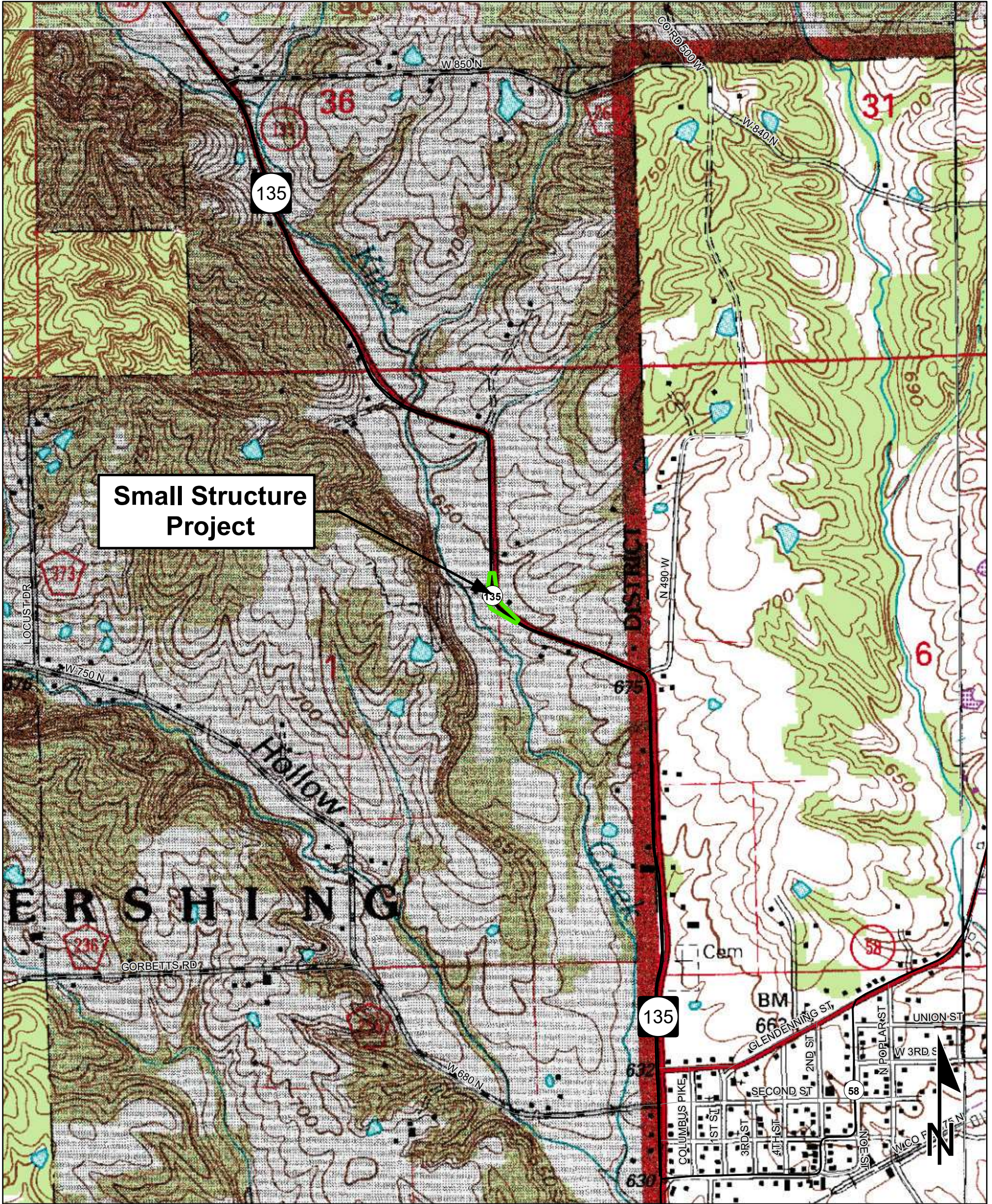
Aerial
 Des. No. 1801032, Small Structure Project
 SR 135, 0.93 Mile North of SR 58 East Junction
 Jackson County, Indiana



Sources: 0.2 0.1 0 0.2 Miles
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**

USGS Topo
 Des. No. 1801032, Small Structure Project
 SR 135, 0.93 Mile North of SR 58 East Junction
 Jackson County, Indiana



Small Structure Project

Sources: 0.2 0.1 0 0.2 Miles
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.

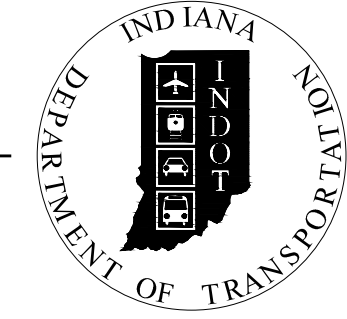
**KURTZ, BROWNSTOWN,
 WAYMANSVILLE, and STORY
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

PROJECT	DESIGNATION
1801032	1801032
CONTRACT	BRIDGE FILE
B-41458	N/A

CULVERT ASSETS	
DES. NO.	CULVERT ASSET ID
1801032	CV 135-036-75.70

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1800228	SR 258 OVER BEATTY WALKER DITCH SUPERSTRUCTURE REPLACEMENT, 6.10 MILES EAST OF SR 58
1800287	SR 135 OVER BRANCH KIPER CREEK SUPERSTRUCTURE REPLACEMENT, 2.68 MILES NORTH OF SR 58.
1800292	SR 258 OVER LITTLE SALT CREEK SUPERSTRUCTURE REPLACEMENT, 0.99 MILES EAST OF SR 58.
1801011	SR 258 OVER UNT TO SPRAY CREEK SMALL STRUCTURE REPLACEMENT, 2.25 MILES EAST OF SR 58.
1801032	SR 135 OVER UNT TO KIPER CREEK SMALL STRUCTURE REPLACEMENT, 1.05 MILES NORTH OF SR 58.
1801047	SR 58 OVER UNT TO WHITE CREEK SMALL STRUCTURE REPLACEMENT, 9.66 MILES EAST OF SR 258
1801048	SR 58 OVER UNT TO SALT CREEK SMALL STRUCTURE REPLACEMENT, 4.19 MILES WEST OF SR 135

INDIANA DEPARTMENT OF TRANSPORTATION

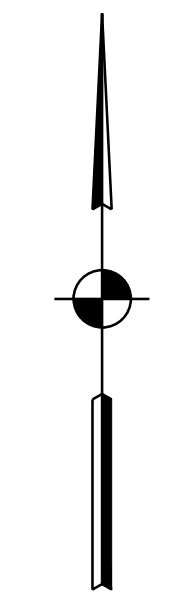
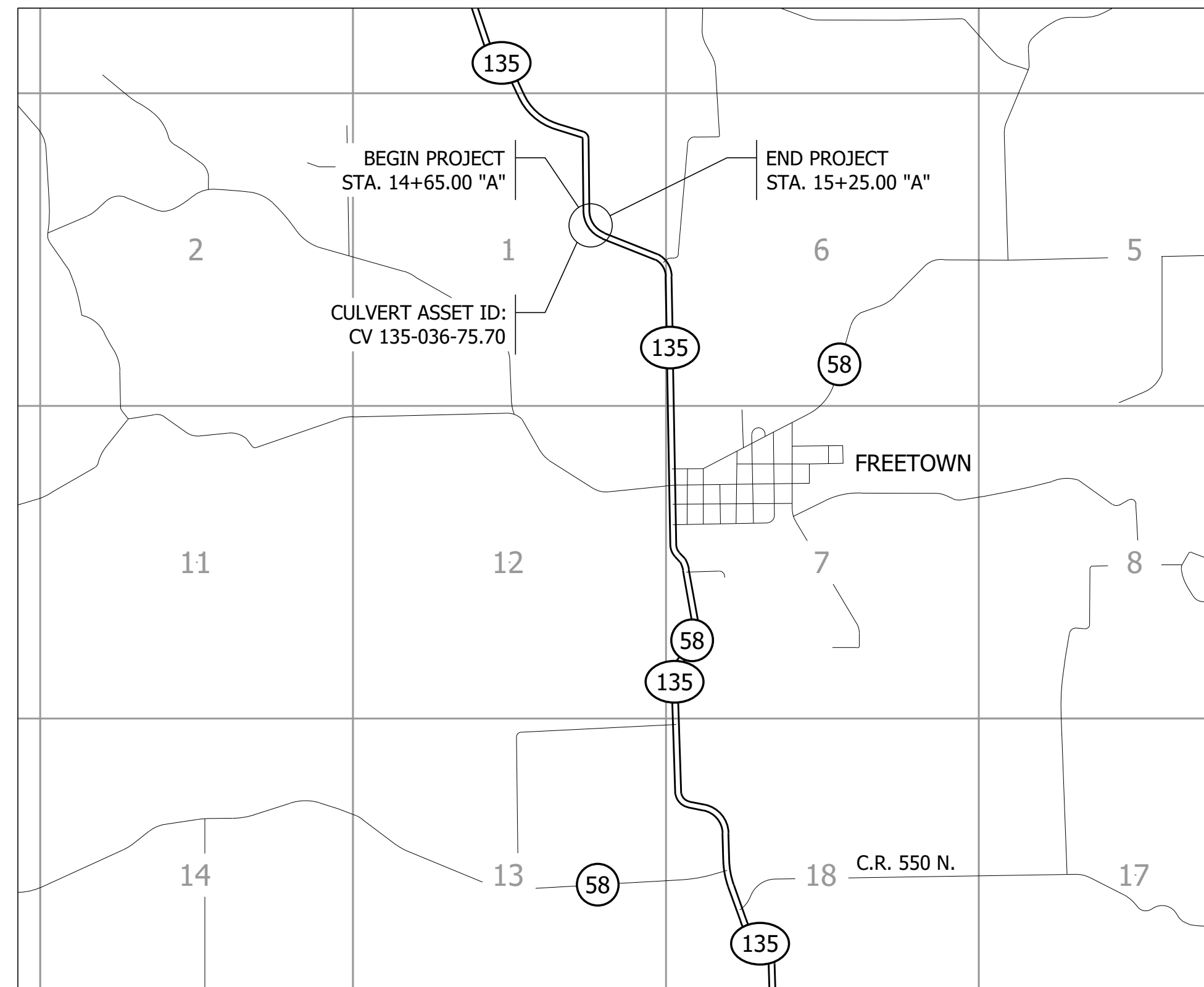


ROAD PLANS

ROUTE: S.R. 135 AT: RP 75+70

PROJECT NO. 1801032 P.E.
1801032 R/W
1801032 CONST.

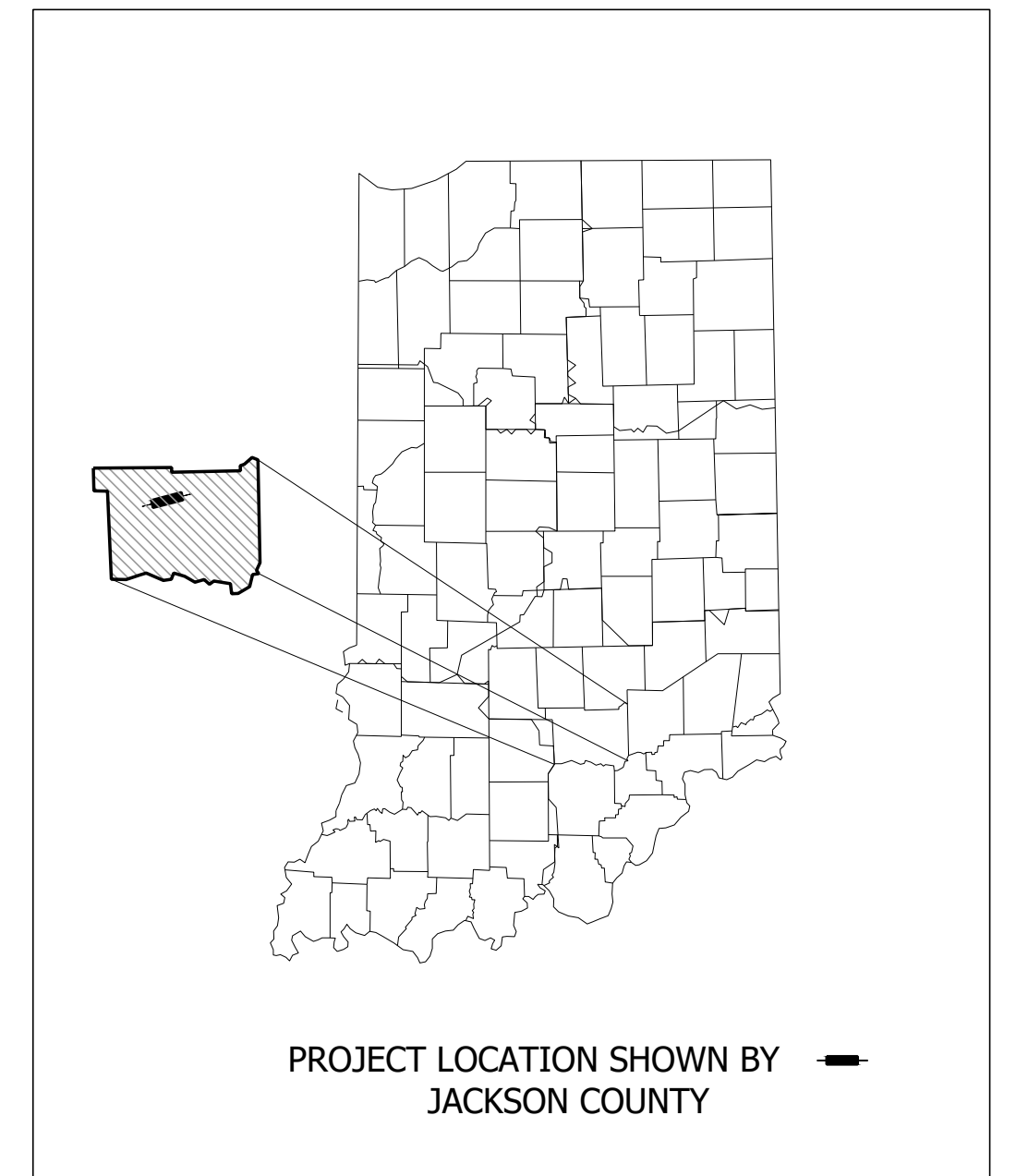
SMALL STRUCTURE REPLACEMENT ON S.R. 135 OVER U.N.T. TO KIPER CREEK APPROXIMATELY 1.05 MILES NORTH OF S.R. 58 IN SECTION 1, T-6-N, R-3-E, PERSHING TOWNSHIP, JACKSON COUNTY, INDIANA



SCALE:
1" = 2000'

CE PLANS
April 5, 2021

TRAFFIC DATA	S.R. 135
A.A.D.T. (2023)	565 V.P.D.
A.A.D.T. (2043)	604 V.P.D.
D.H.V. (2043)	65 V.P.H.
DIRECTIONAL DISTRIBUTION	52.61% NORTH
TRUCKS	10.17% D.H.V.
	11.17% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 38°59'07" N LONGITUDE: 86°08'18" W

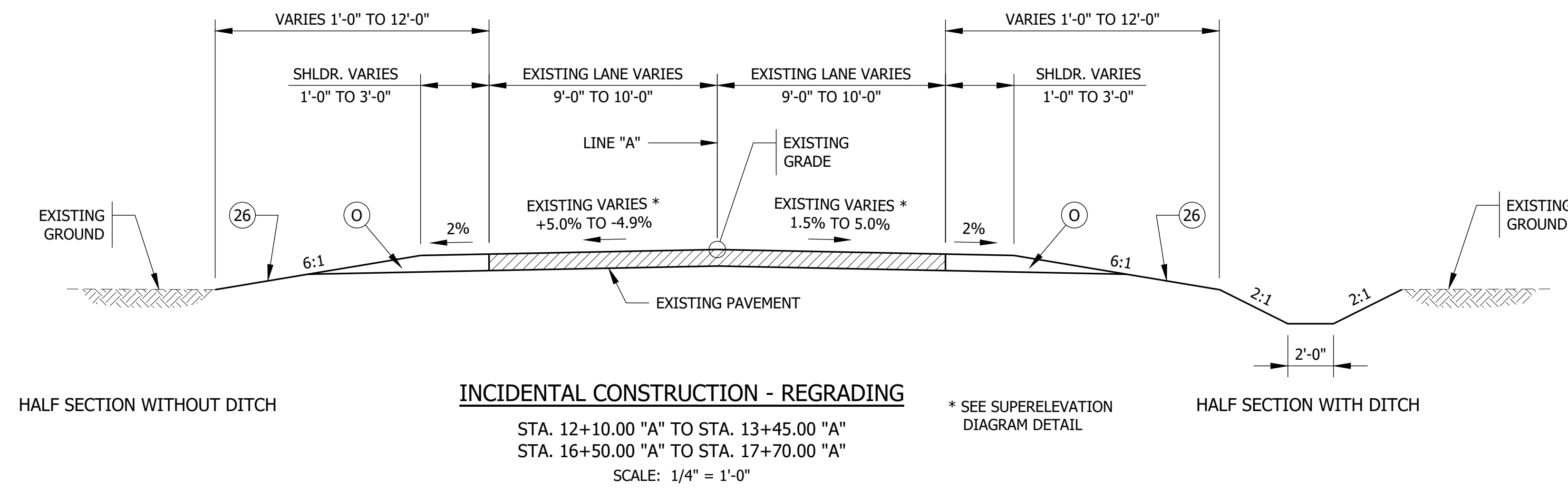
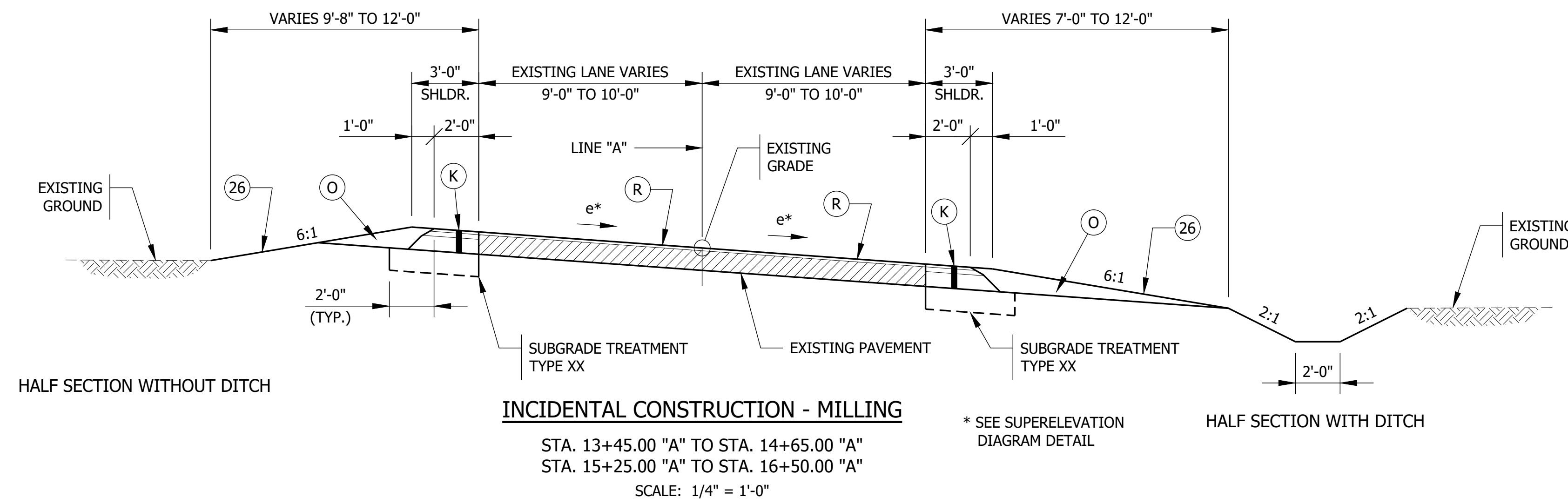
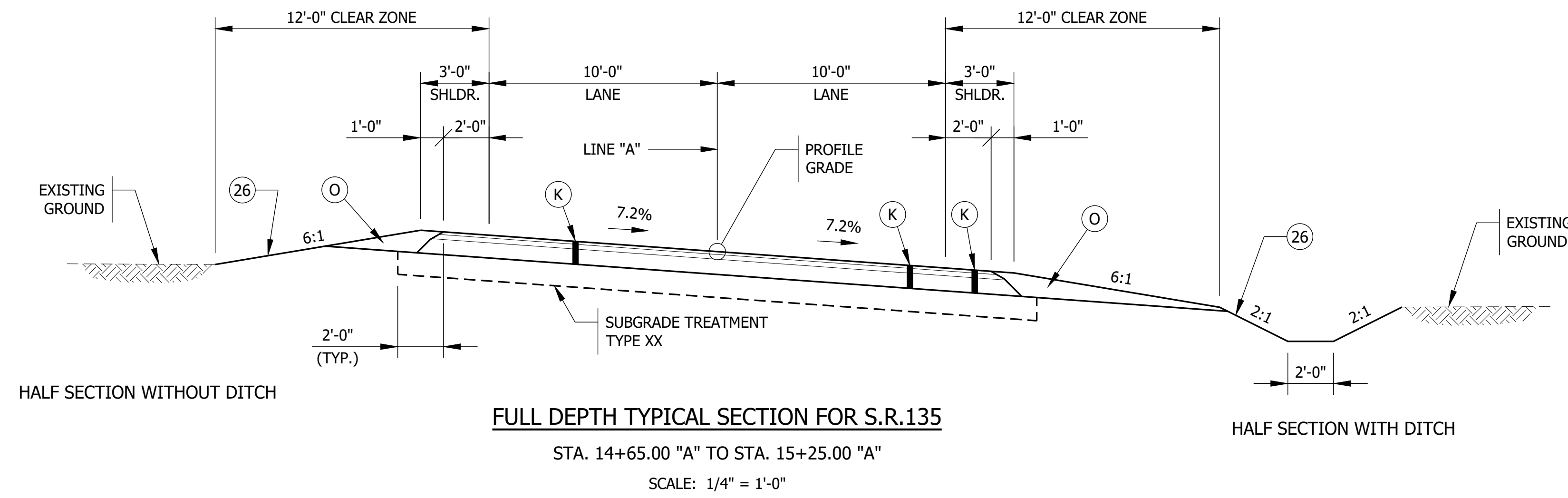
BRIDGE LENGTH:	0.000	MI.
ROADWAY LENGTH:	0.012	MI.
TOTAL LENGTH:	0.012	MI.
MAX. GRADE:	0.20%	%

HUC 14: 05120208060010



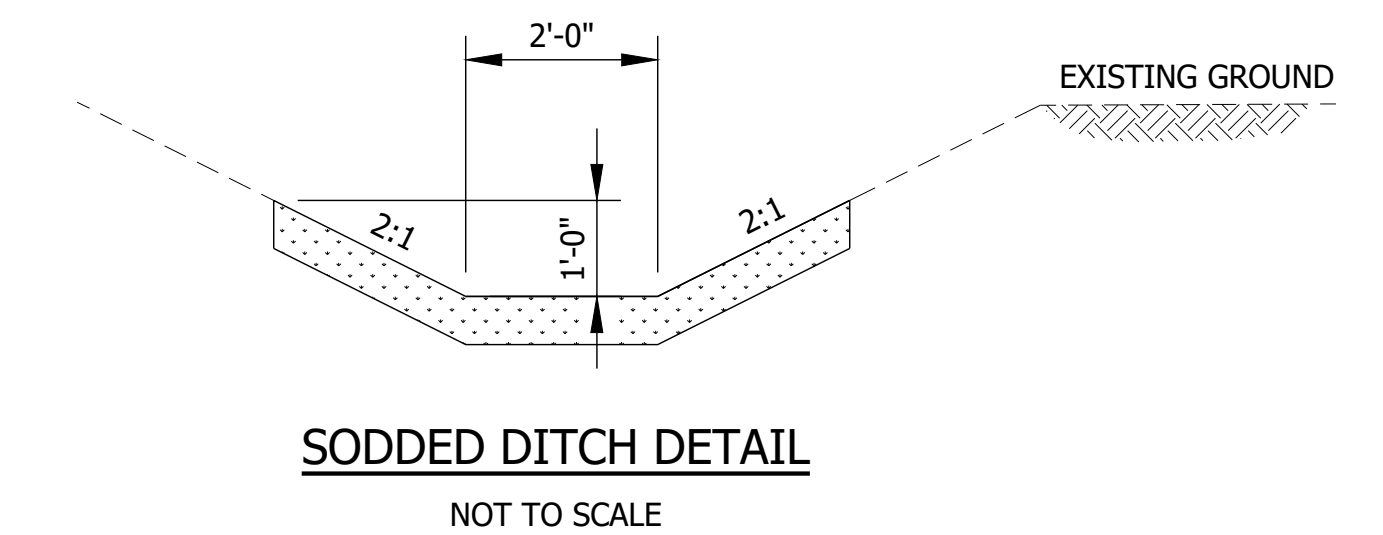
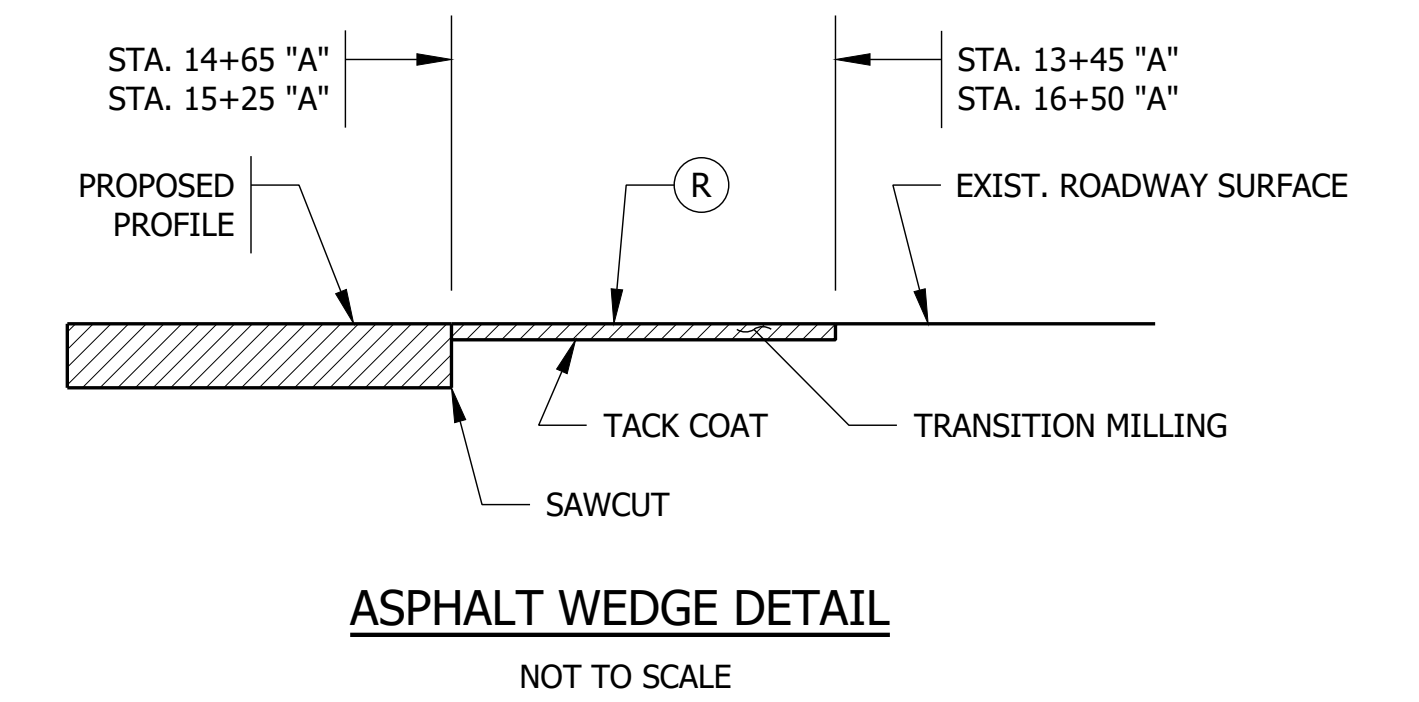
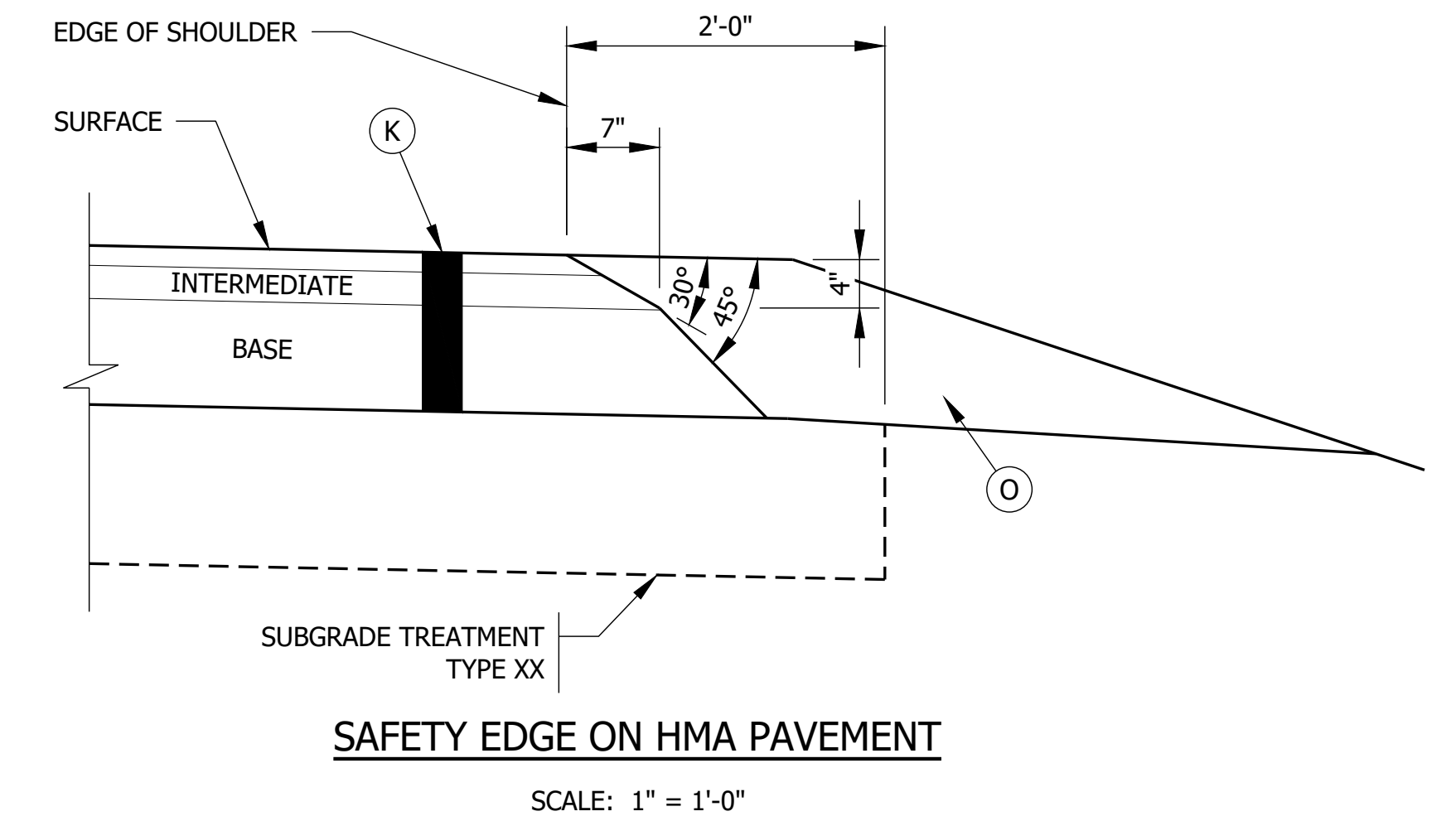
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020 TO
BE USED WITH THESE PLANS.

PRELIMINARY	PLANS PREPARED BY: CORRADINO, LLC	317-488-2363 PHONE NUMBER	BRIDGE FILE
	CERTIFIED BY: _____	DATE	N/A
	APPROVED FOR LETTING: _____	DATE	DESIGNATION
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE	1801032
			SHEETS
			1 of 16
			CONTRACT
			B-41458
			PROJECT
			1801032



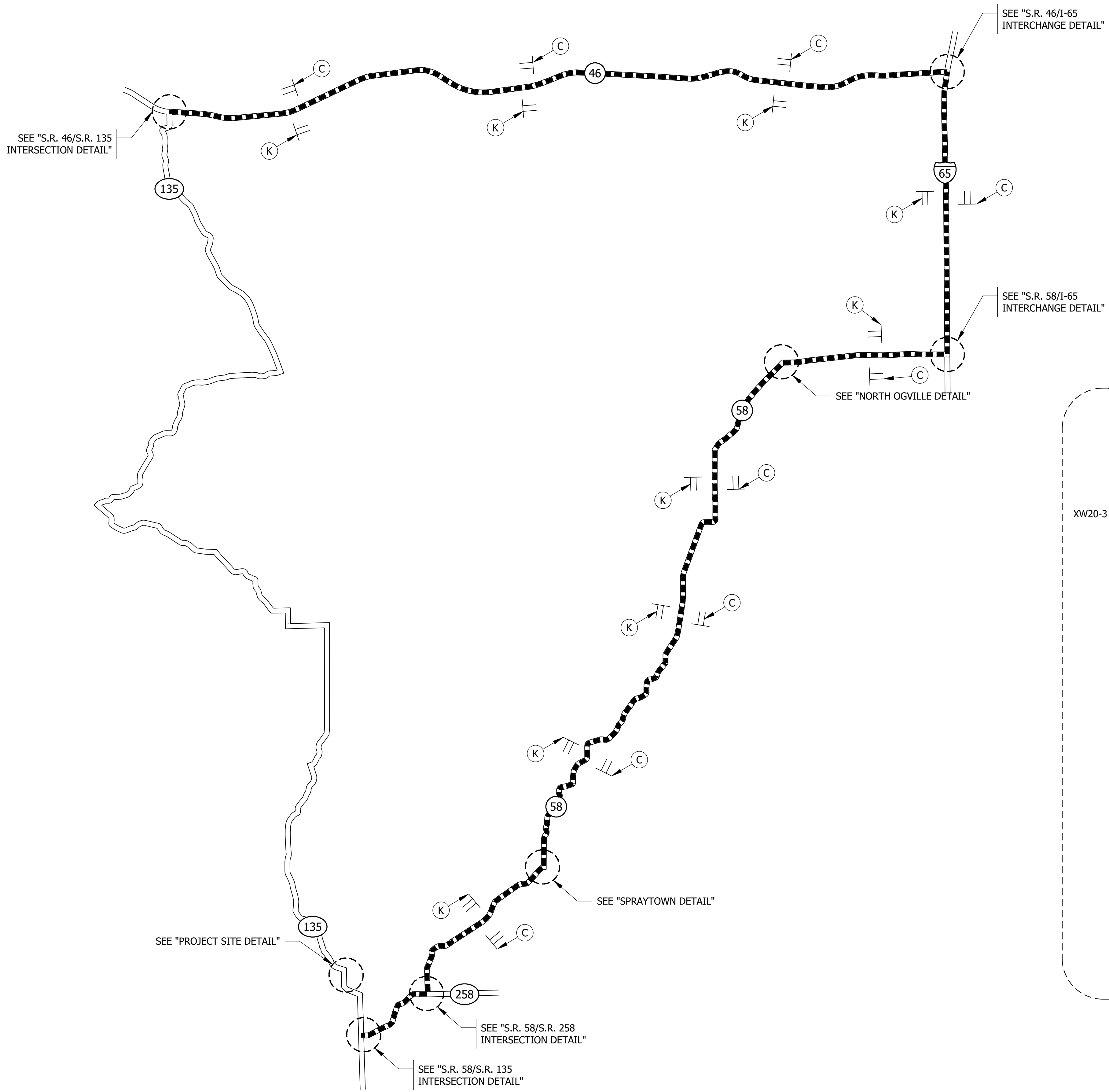
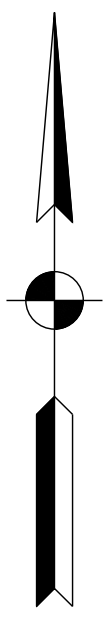
LEGEND

- (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
- (26) EROSION CONTROL BLANKET WITH SEED MIXTURE, R
- (R) GRADE CHANGE 0" TO 1.5":
 XXX LBS/SYD QC/QA HMA, 3, 70, SURFACE, 9.5MM ON
 TRANSITION MILLING
- GRADE CHANGE 1.5" TO 4":
 XXX LBS/SYD QC/QA HMA, 3, 70, SURFACE, 9.5MM ON
 XXX LBS/SYD QC/QA HMA, 3, 70, INTERMEDIATE, 19MM ON
 TRANSITION MILLING

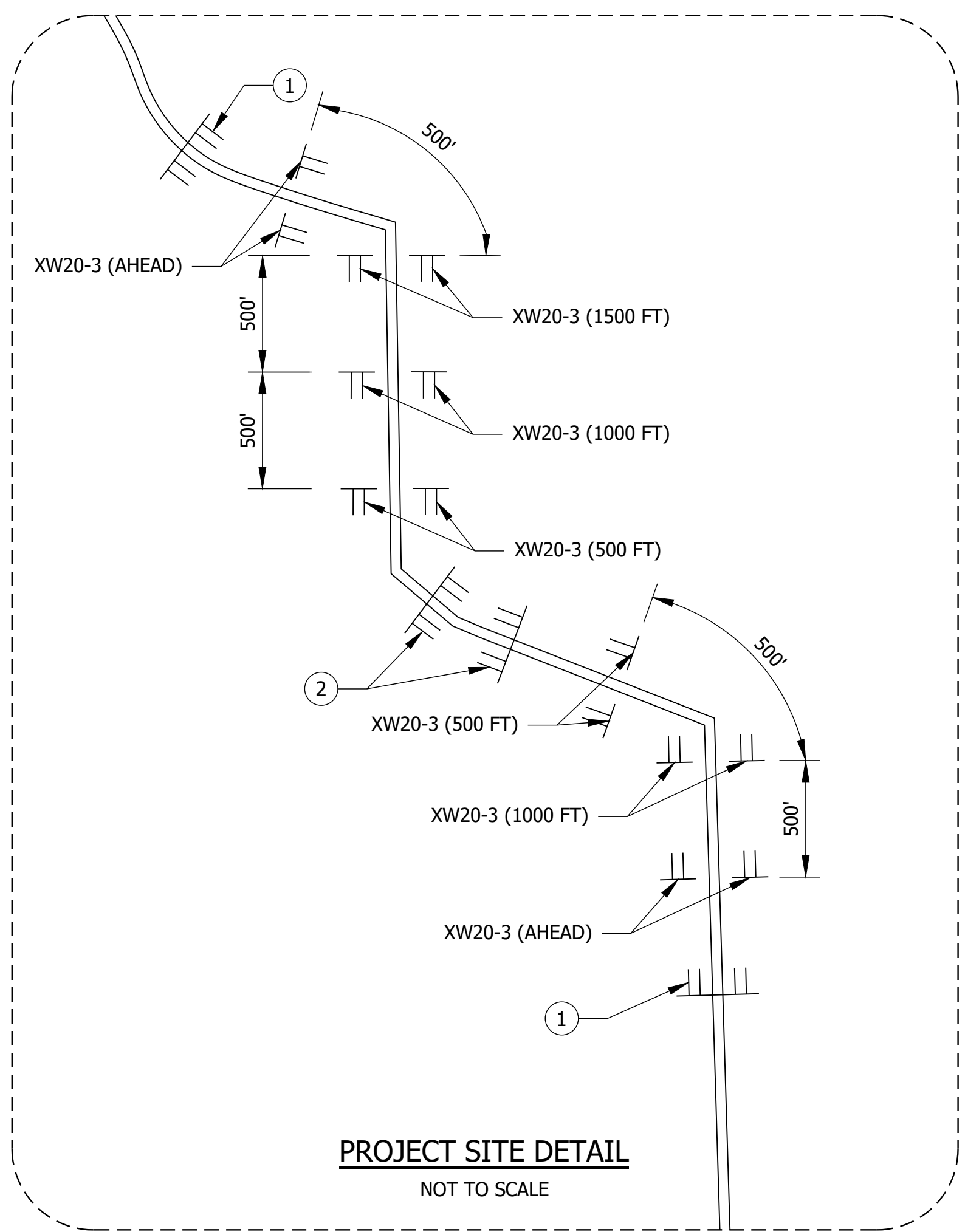


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 Modified / By:
 Plotted / By:

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	DESIGNED: ZZH		DRAWN: SEJ	AS NOTED
	CHECKED: BJM	CHECKED: ZZH	VERTICAL SCALE	DESIGNATION
			TYPICAL SECTIONS	
				SHEET
				3 of 16
				PROJECT
				1801032

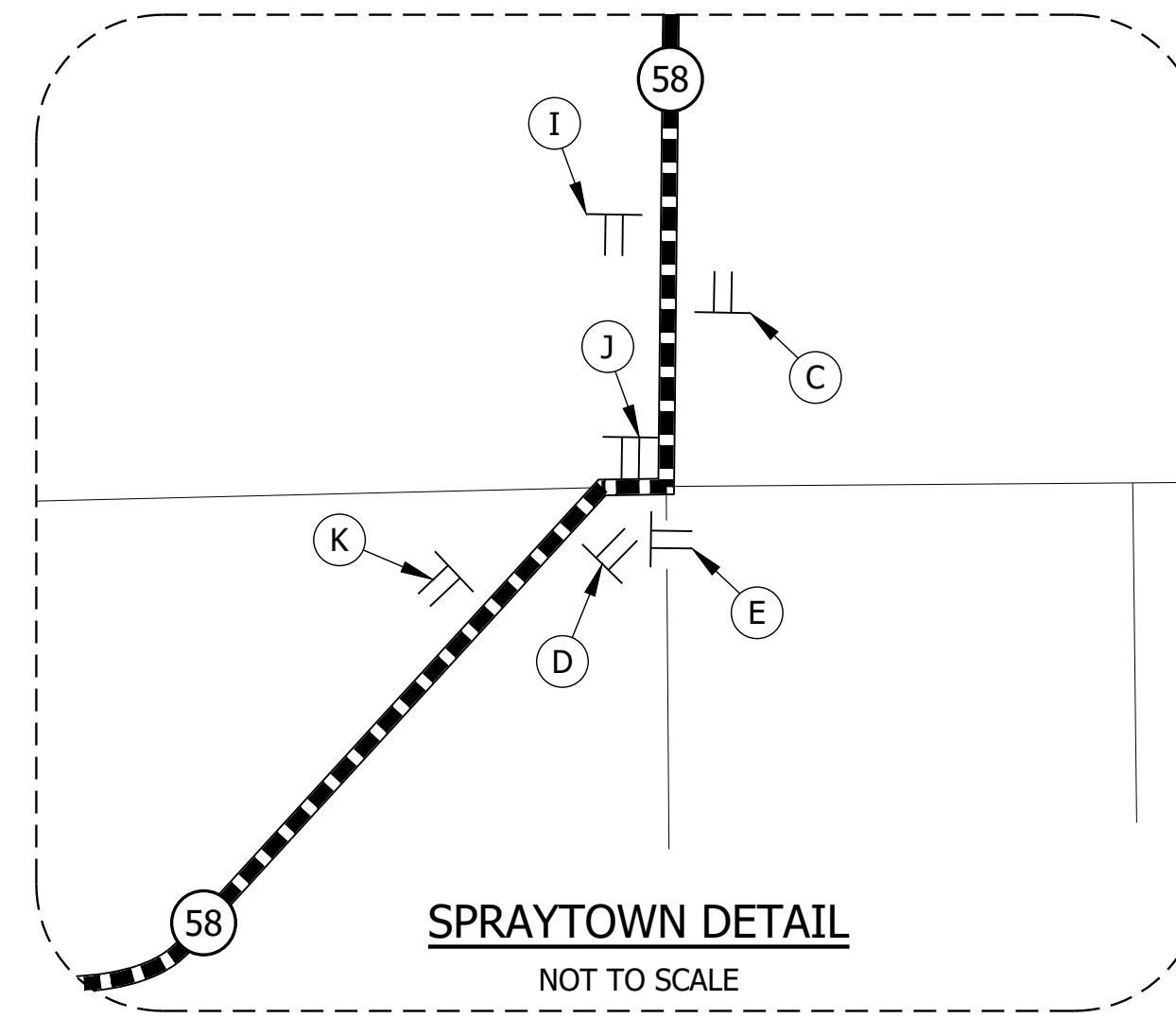
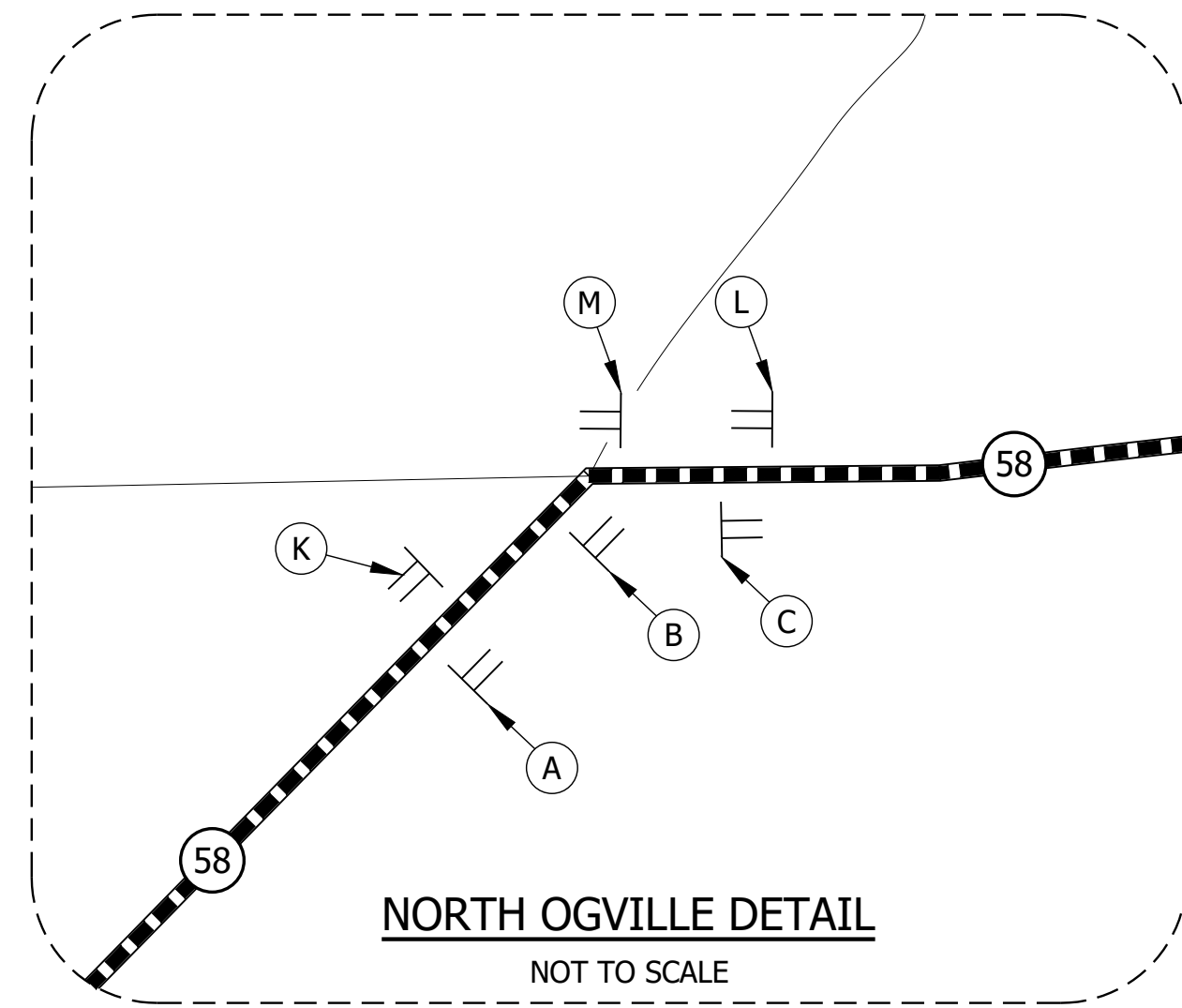


- LEGEND**
- ① 24 LFT. OF TYPE III-B BARRICADES, STAGGERED WITH ROAD CLOSURE SIGN ASSEMBLY R11-4.
 - ② 24 LFT. OF TYPE III-A BARRICADES WITH ROAD CLOSURE SIGN ASSEMBLY R11-2.
 - DETOUR ROUTE
 - TT SIGN ASSEMBLY



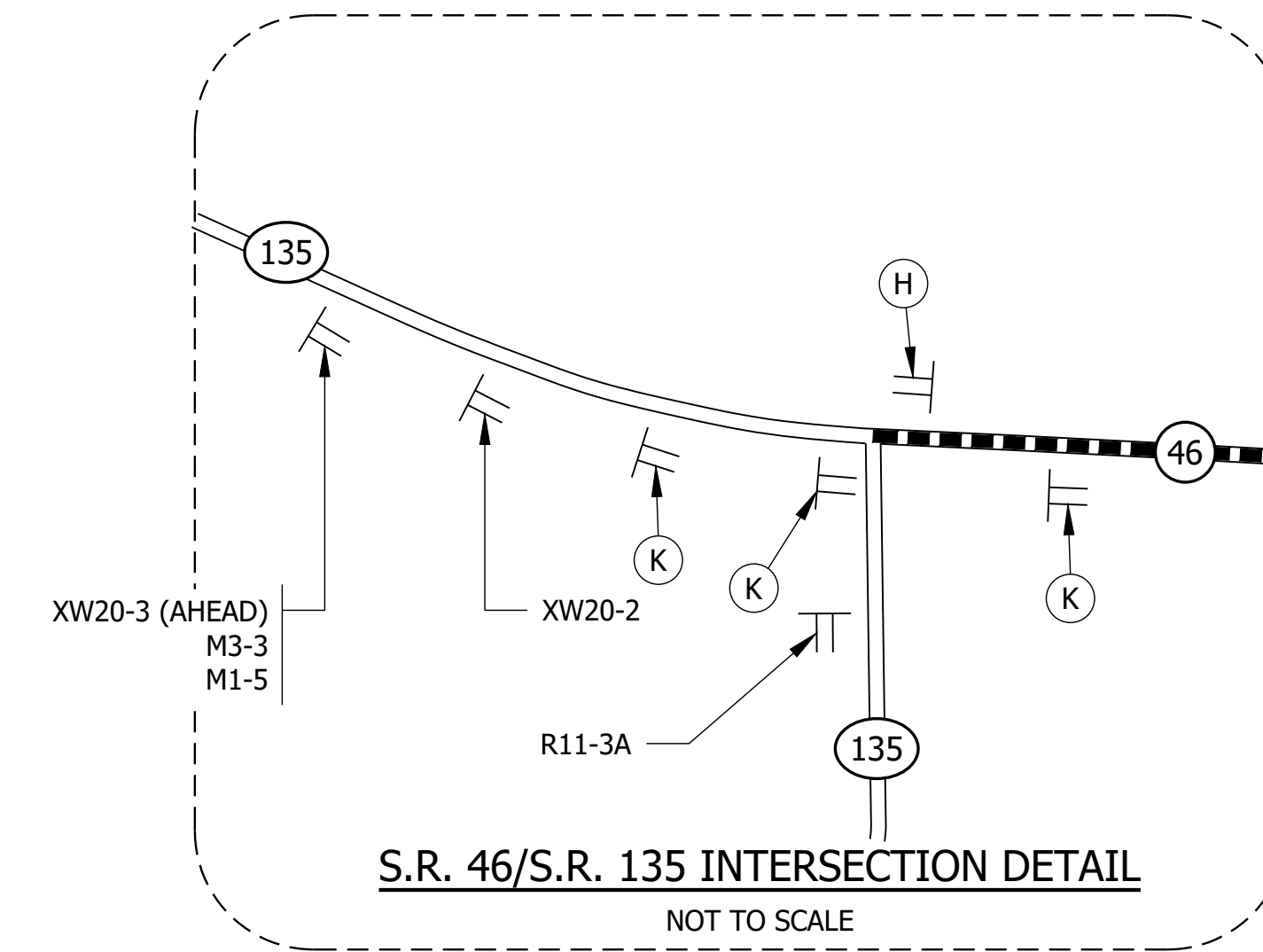
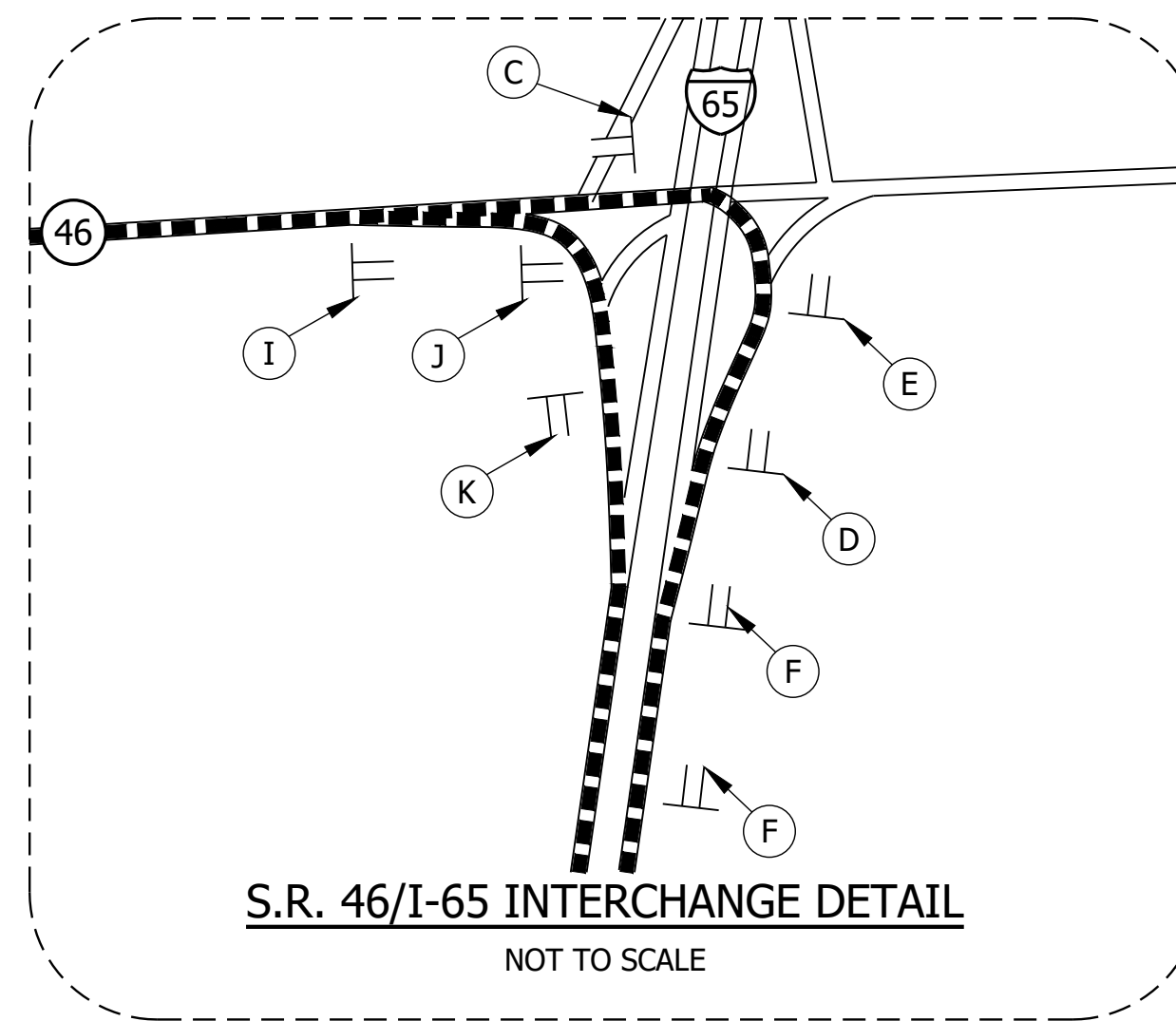
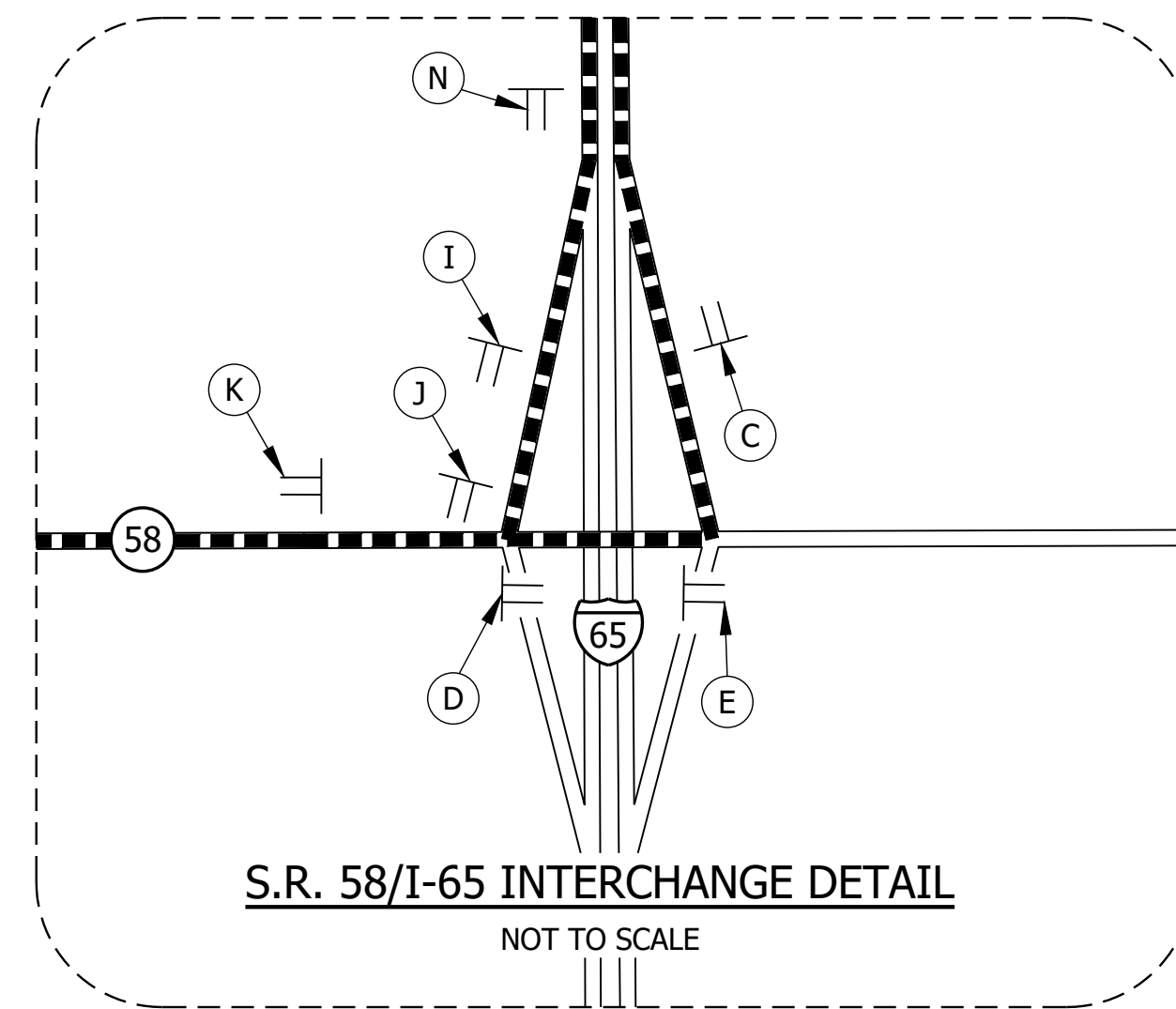
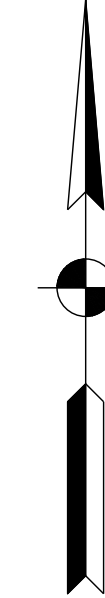
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	DESIGNED: SSB DRAWN: SEJ		VERTICAL SCALE	DESIGNATION 1801032
	CHECKED: BJM CHECKED: SSB		CONTRACT B-41458	SHEET 5 of 16 PROJECT 1801032



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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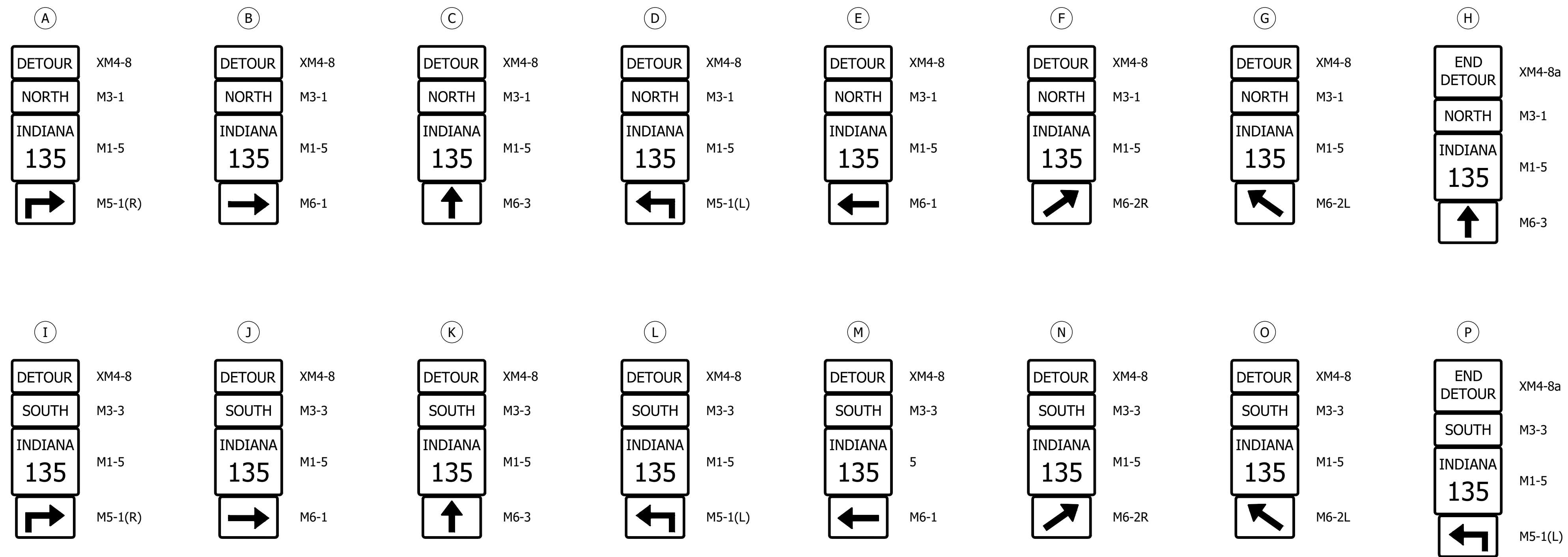
PRELIMINARY

RECOMMENDED FOR APPROVAL _____	
DESIGNED: SSB	DRAWN: SEJ
CHECKED: BJM	CHECKED: SSB

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 5000' UNLESS NOTED	N/A
VERTICAL SCALE	DESIGNATION
	1801032
	SHEET
	6 of 16
CONTRACT	PROJECT
B-41458	1801032



CONSTRUCTION SIGN SCHEDULE				
SIGN NO.	DESCRIPTION	SIZE (FT.)	TYPE	EST. QTY.
XG20-5	S.R.135 CLOSED ON OR AFTER XX	5 X 3	A	2
XW20-2	DETOUR AHEAD	4 X 4	A	2
XW20-3	ROAD CLOSED XXXX	4 X 4	A	14
M3-1	CARDINAL DIRECTION (NORTH)	2 X 1	B	1
M3-3	CARDINAL DIRECTION (SOUTH)	2 X 1	B	1
M1-5	STATE ROUTE SIGN (135)	2.5 X 2	B	2
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: 59 REQ'D
 TYPE III-A BARRICADES: 48 LFT.
 TYPE III-B BARRICADES: 48 LFT.

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

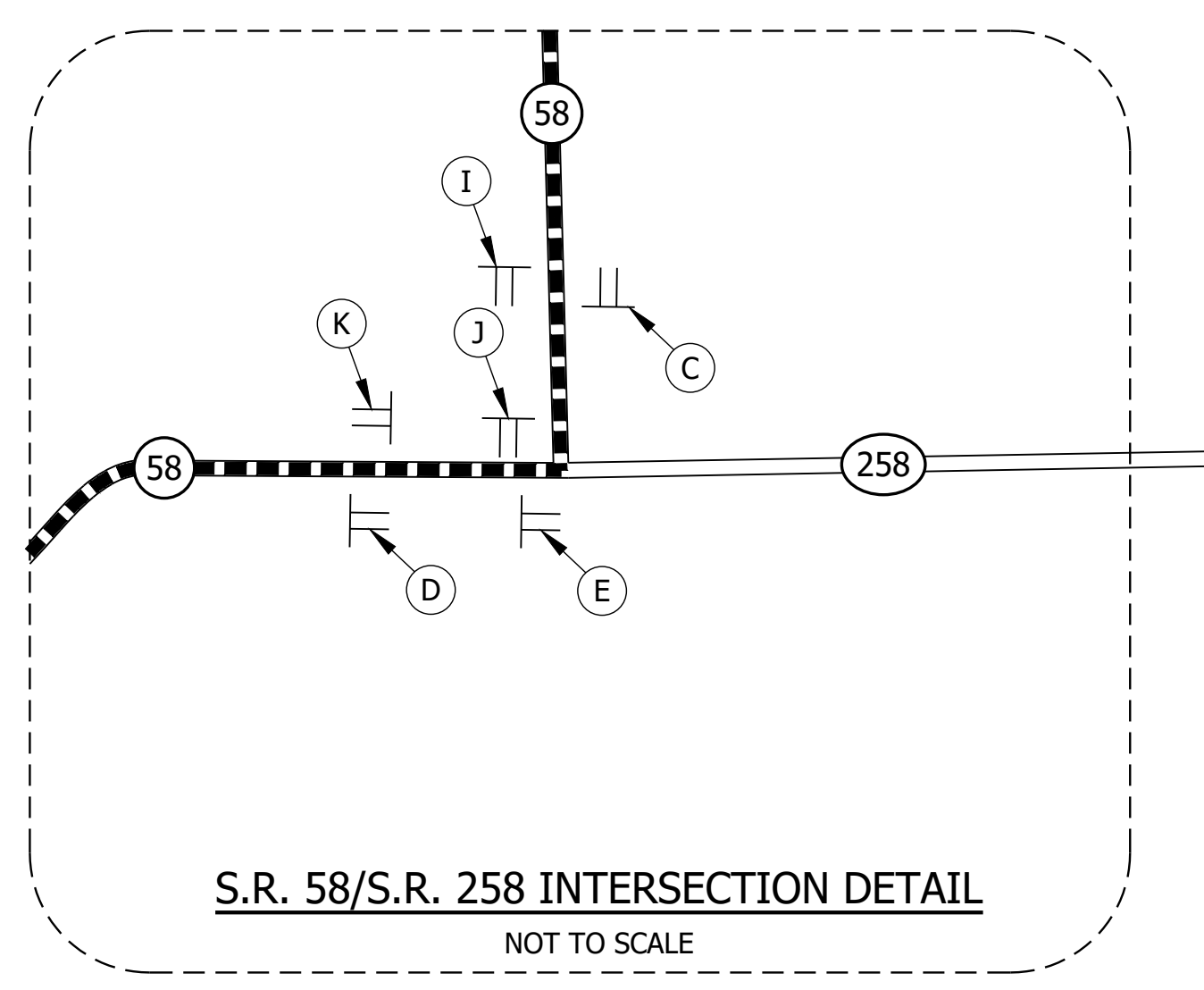
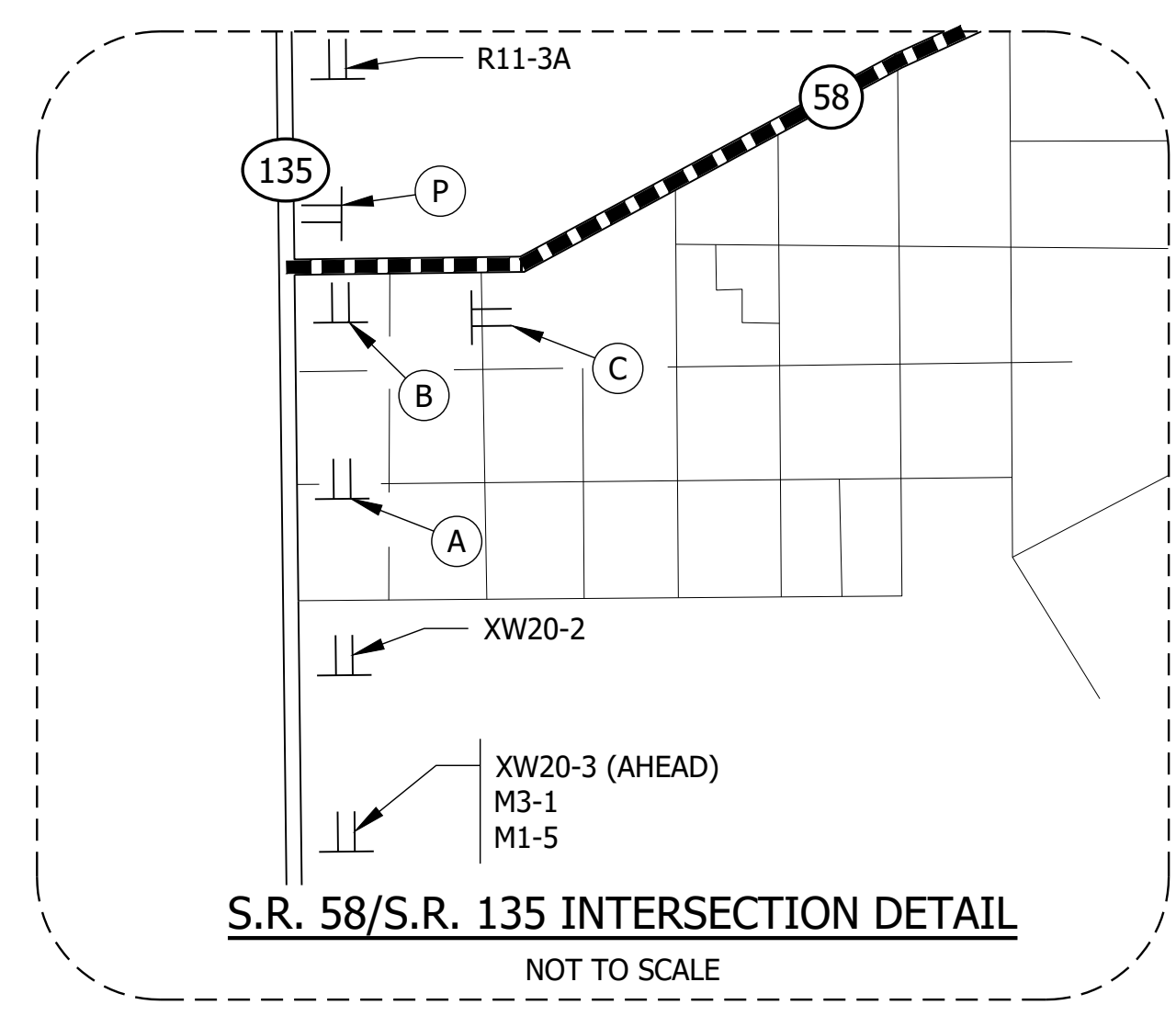
* TYPE B CONSTRUCTION WARNING LIGHTS SHALL BE USED WITH ALL SIGNS LOCATED ON BARRICADES AND AS SHOWN. TYPE A CONSTRUCTION WARNING LIGHTS SHALL BE USED ON ALL OTHER CONSTRUCTION SIGNS. (NOT PAY ITEMS.)

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

TOTAL TYPE "A" SIGNS	18
TOTAL TYPE "B" SIGNS	4
ROAD CLOSURE SIGN ASSEMBLIES	6

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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	DESIGNED: SSB DRAWN: SEJ		1" = 5000' UNLESS NOTED	N/A
	CHECKED: BJM CHECKED: SSB		VERTICAL SCALE	DESIGNATION
				1801032
		MAINTENANCE OF TRAFFIC		SHEET
				7 of 16
			CONTRACT	PROJECT
			B-41458	1801032

LEGEND:

- 1 GILBERT RAY AND SHARON KAY CARPENTER
- 2 LLOYD J., LARRY K., JERRY R., PAUL E., JAMES AND ROBERT ZIKE, JOANN CHEEK AND SHARON KIRTS
- 3 TERRY V. AND JUDITH ANDERSON
- A XX TONS OF REVETMENT RIPRAP ON XX SYS OF GEOTEXTILES FOR RIPRAP TYPE XX
- B XX TONS OF REVETMENT RIPRAP ON XX SYS OF GEOTEXTILES FOR RIPRAP TYPE XX

CURVE DATA - CURVE NO. 1

P.I. STA. = 11+24.89 "A"
 Δ = 10°50'47"
 R = 795.00'
 L = 150.50'
 T = 75.47'
 S.E. = 3.5%

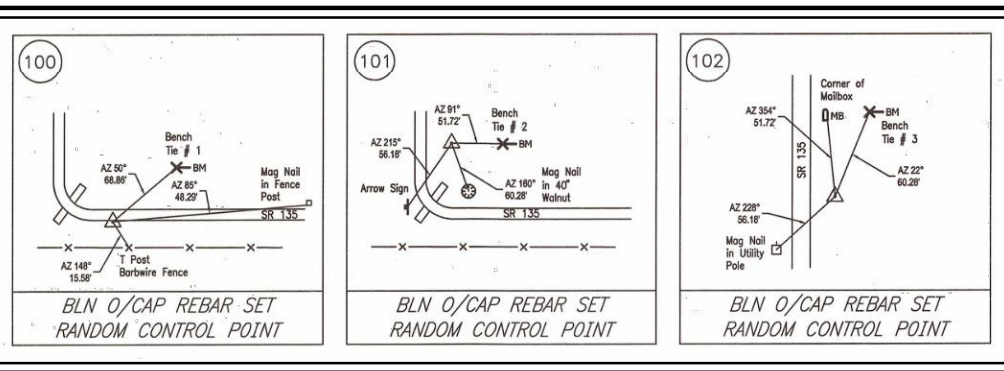
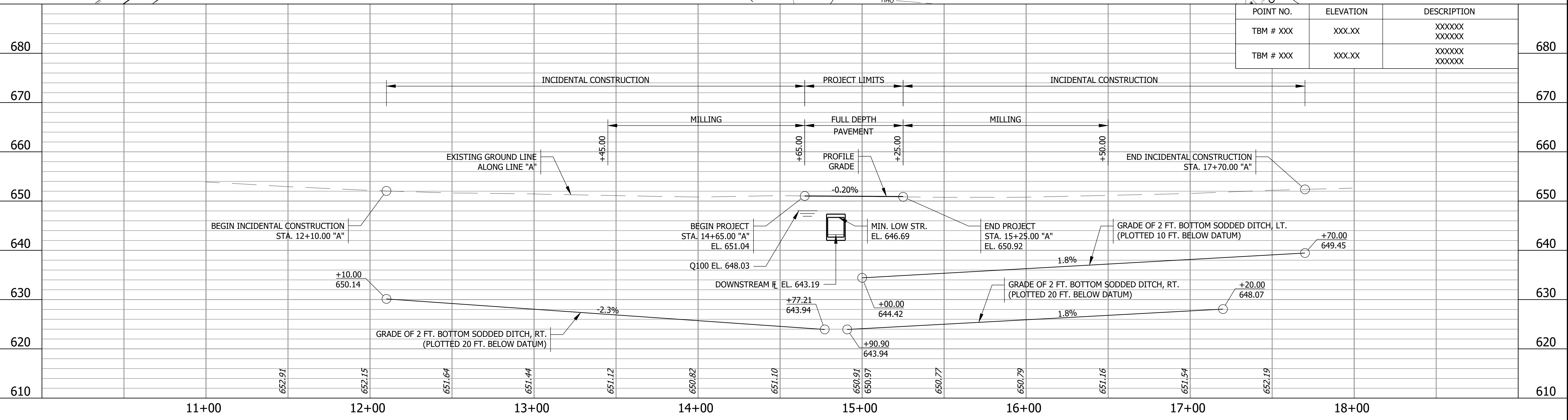
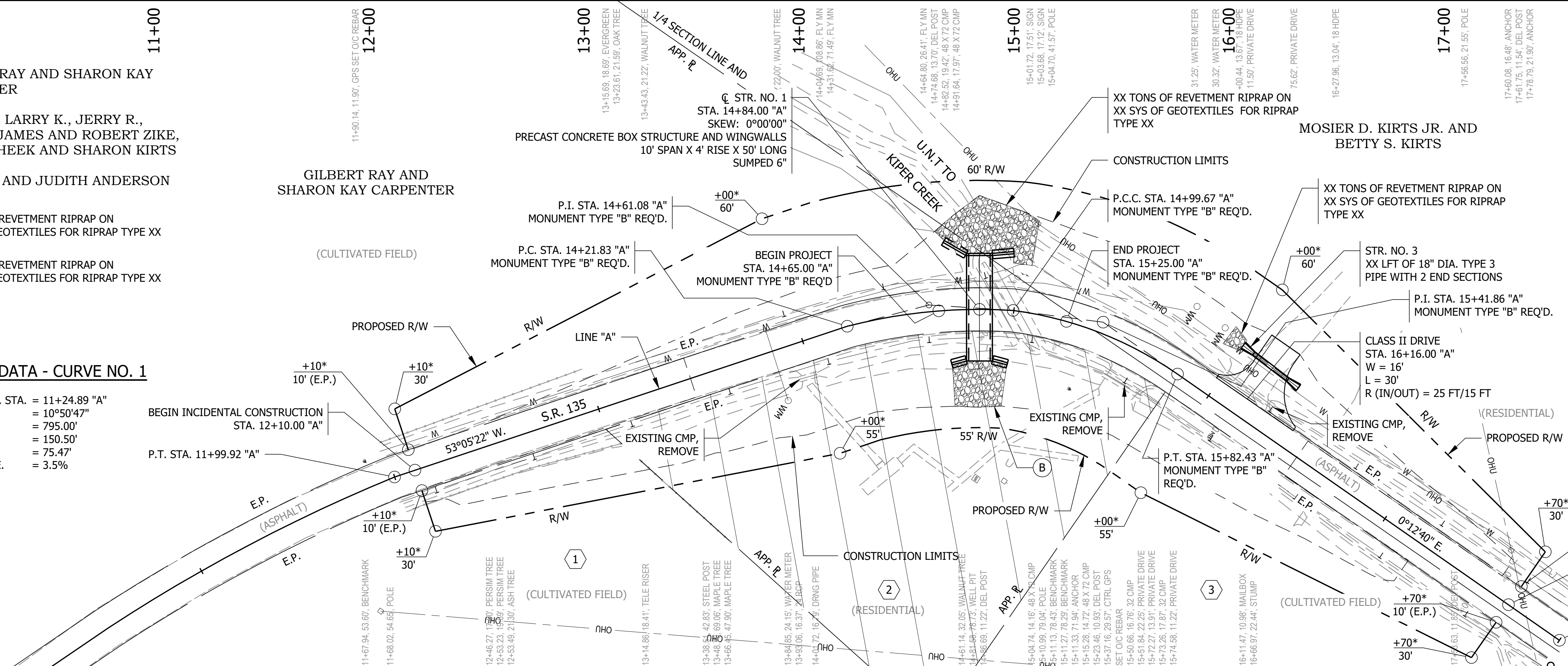
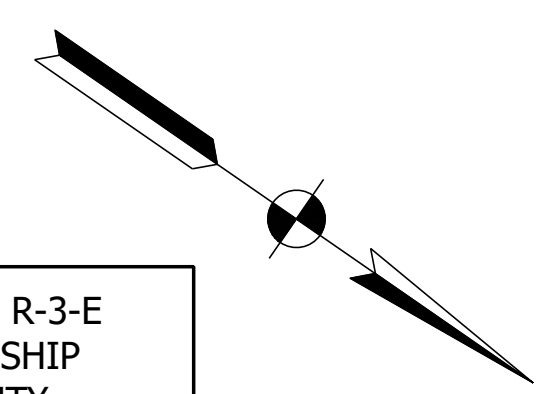
CURVE DATA - CURVE NO. 3

P.I. STA. = 15+41.86 "A"
 Δ = 27°24'42"
 R = 173.00'
 L = 82.77'
 T = 42.19'
 S.E. = 7.2%

CURVE DATA - CURVE NO. 2

P.I. STA. = 14+61.08 "A"
 Δ = 18°18'27"
 R = 243.60'
 L = 77.84'
 T = 39.25'
 S.E. = 7.2%

SECTION 1, T-6-N, R-3-E
 PERSHING TOWNSHIP
 JACKSON COUNTY



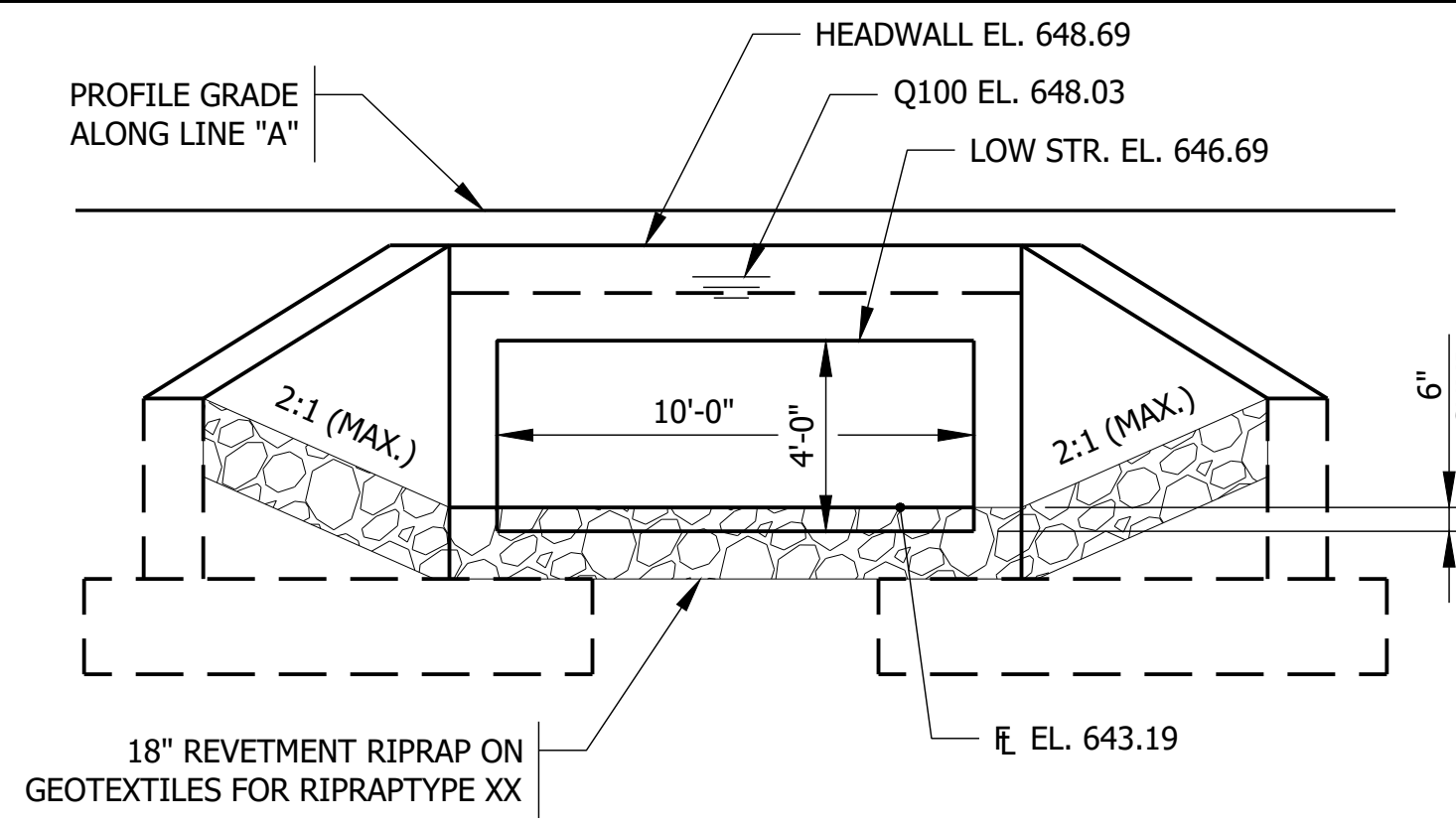
PRELIMINARY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

INDIANA
 DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE

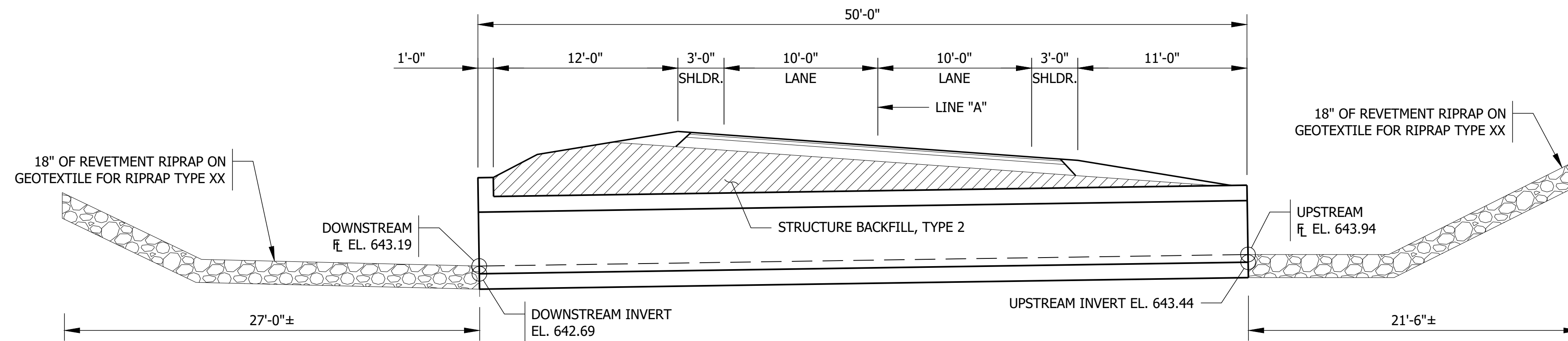
HORIZONTAL SCALE 1" = 30'-0" UNLESS NOTED	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'-0" UNLESS NOTED	DESIGNATION 1801032
	SHEET 8 of 16
	CONTRACT B-41458
	PROJECT 1801032

File Name: F:\4546-1801032_SRT135SmStr50 Plans\30 Sheet Drawings\10 Bridge Sheets\S-PLAN-PROFILE-01.dwg - Layout1
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 Plotted / By: April 6, 2021 6:19:11 AM / Bruce Mahlie

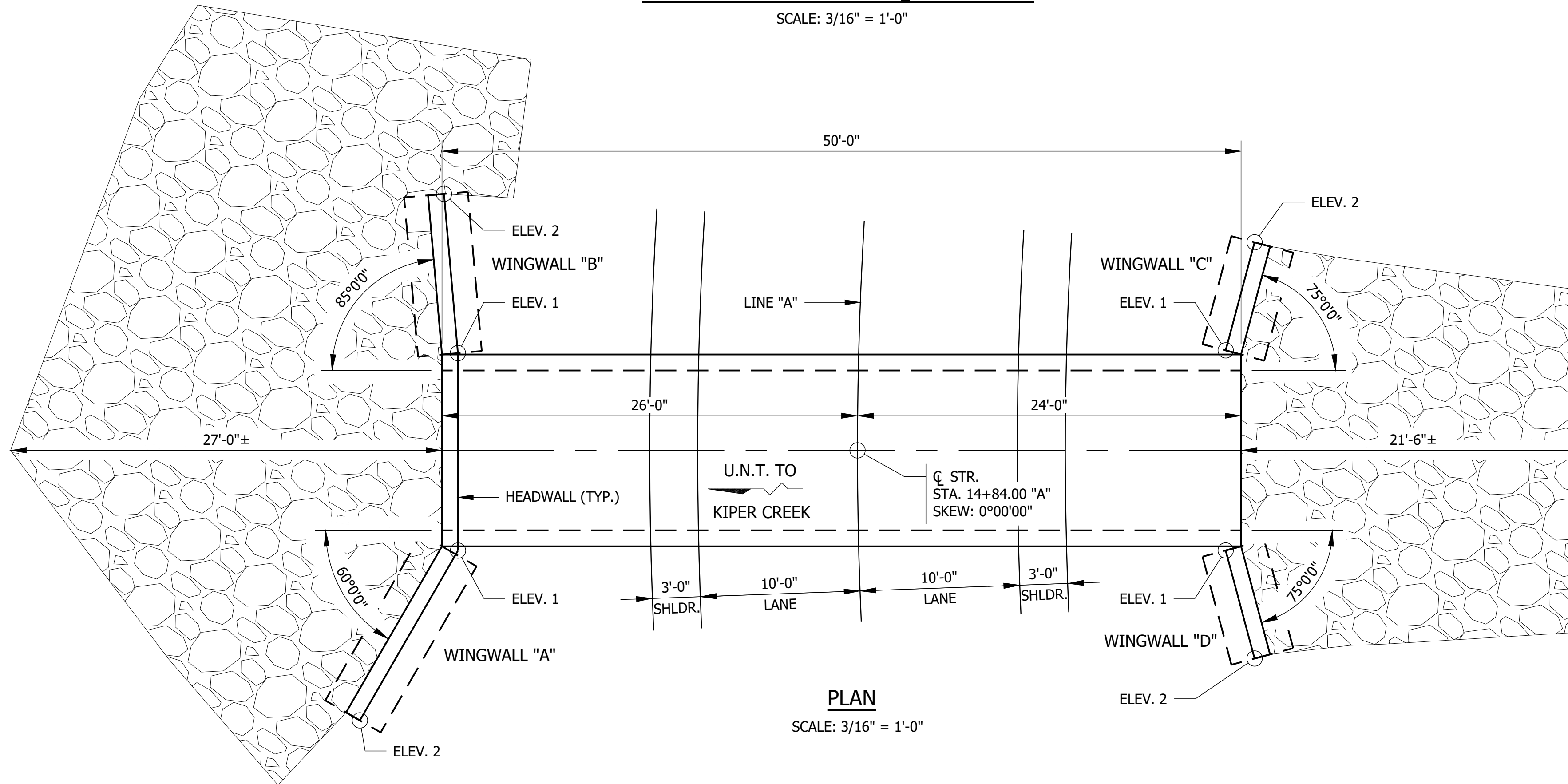


OUTLET ELEVATION
SCALE: 1/4" = 1'-0"

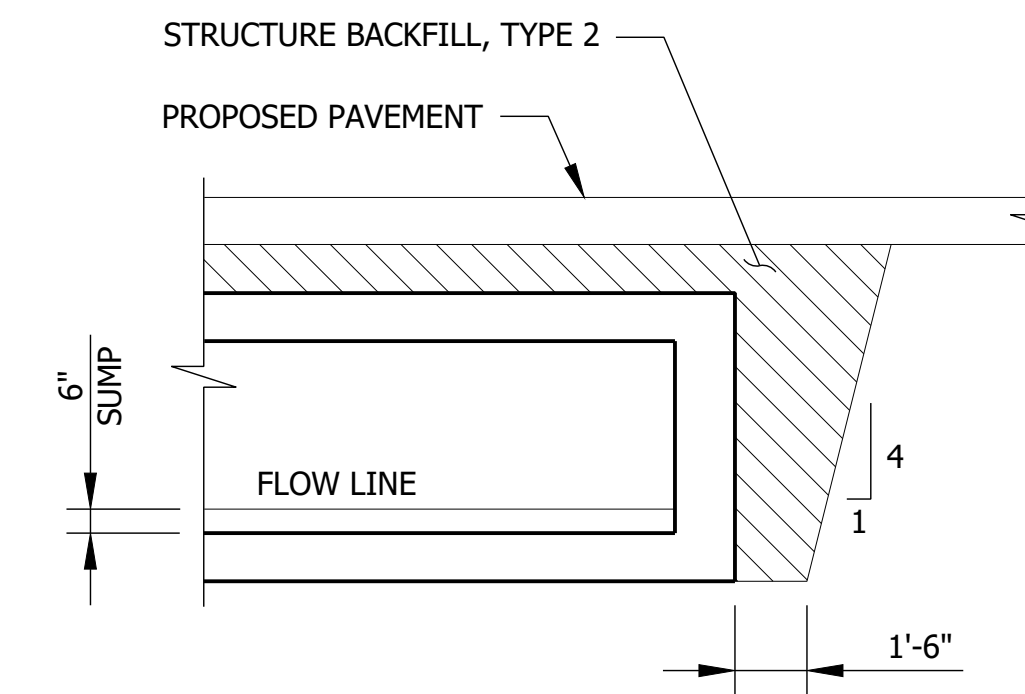
SOIL PARAMETERS FOR WINGWALL DESIGN	VALUE
FACTORED BEARING RESISTANCE	—
NOMINAL BEARING CAPACITY	—
RESISTANCE FACTOR	—
FRICTION ANGLE OF THE BACKFILL	—
FRICTION FACTOR OF THE FOUNDATION SOIL	—
ANGLE OF INTERNAL FRICTION OF THE FOUNDATION SOIL	—
ULTIMATE ADHESION BETWEEN FOUNDATION SOIL AND THE POURED CONCRETE FOOTING	—
SOIL COHESION	—



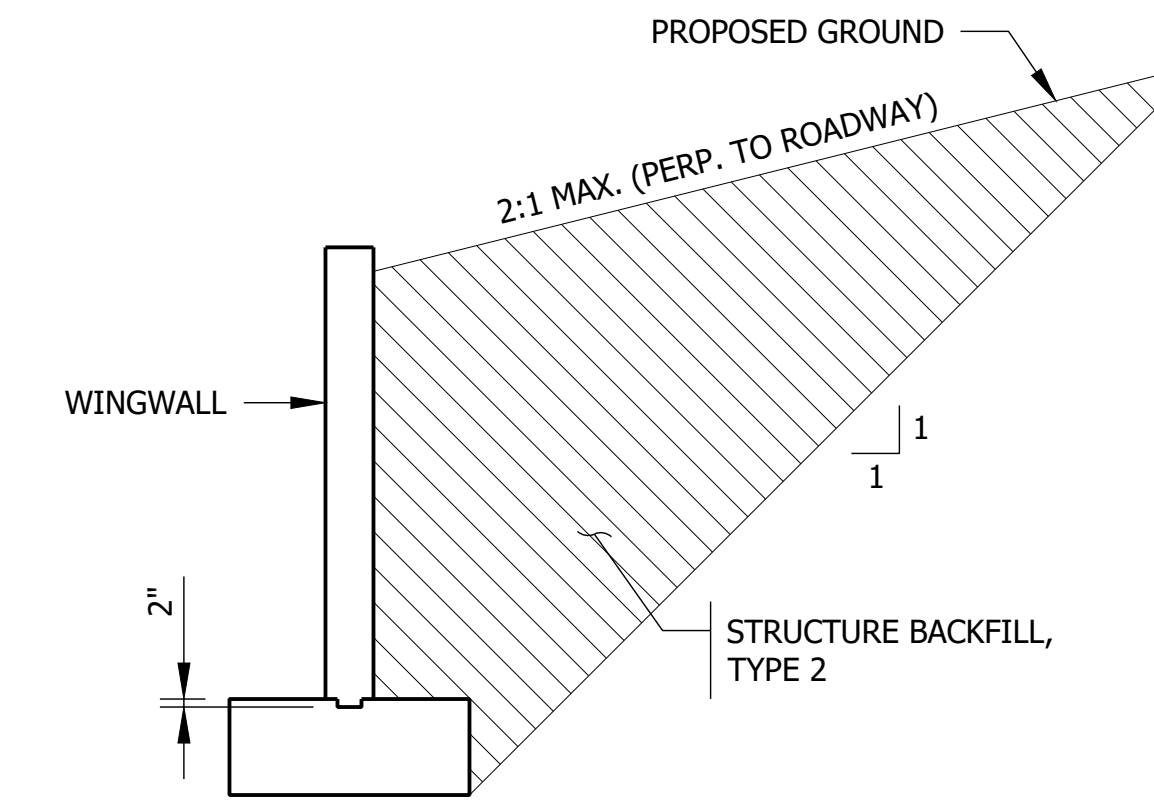
TYPICAL SECTION ALONG C STRUCTURE
SCALE: 3/16" = 1'-0"



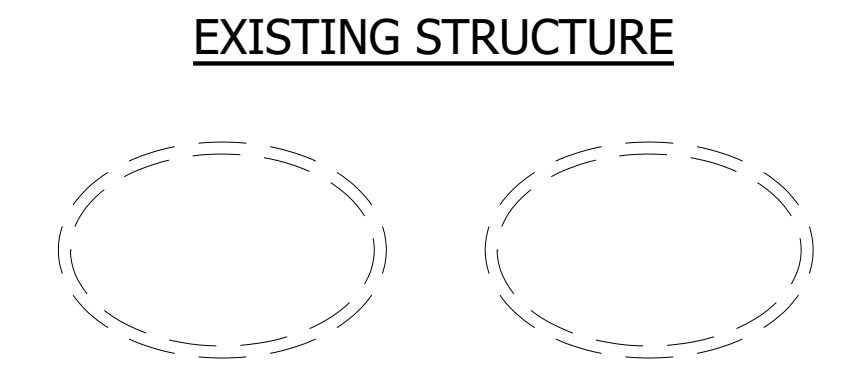
PLAN
SCALE: 3/16" = 1'-0"



STRUCTURE BACKFILL AT STRUCTURE
SCALE: 1/4" = 1'-0"



STRUCTURE BACKFILL AT WINGWALL
SCALE: 1/4" = 1'-0"



THE EXISTING STRUCTURES ARE TWIN 72.2" X 44.4" CORRUGATED METAL PIPE ARCHES, 35° SKEW AND AN OUT TO OUT LENGTH OF ±41 FT. THE EXISTING STRUCTURES SHALL BE REMOVED.

DESIGN DATA

STRUCTURE DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2017, AND SUBSEQUENT INTERIM. DEAD LOAD INCREASED 35 PSF FOR FUTURE WEARING SURFACE.

HYDRAULIC DATA

DRAINAGE AREA:	108 ACRE
Q100 DISCHARGE:	221 CFS
Q100 ELEVATION:	648.03 FT.
APPROXIMATE SKEW:	0°00'00"
REQUIRED WATERWAY AREA (BELOW Q100 ELEVATION)	35 SFT
PROPOSED WATERWAY AREA (BELOW Q100 ELEVATION)	0 SFT
PROPOSED ROAD OVERFLOW AREA	35 SFT
PROPOSED VELOCITY	5.4 FT./SEC.
PROPOSED BACKWATER	0.48 FT.
MINIMAL LOW STRUCTURE ELEVATION	646.69 FT.
EXISTING GROSS WATERWAY AREA (BELOW Q100 ELEVATION)	29.4 SFT
EXISTING ROAD OVERFLOW AREA	0 SFT
EXISTING VELOCITY	5.5 FT./SEC.
EXISTING BACKWATER	0.56 FT.
EXISTING LOW STRUCTURE	648.24 FT.

NOTES:

- BOTTOM OF FOOTING SHALL BE 4'-0" BELOW THE FLOWLINE.

WINGWALL TABLE

WING	"L"	ELEV. 1	ELEV. 2	AREA (SFT)
"A"	12'	.	.	.
"B"	10'	.	.	.
"C"	7'	.	.	.
"D"	7'	.	.	.

ESTIMATED QUANTITY OF HEADWALLS: XXXX SFT.

REINFORCED CONCRETE
BOX STRUCTURE
SPAN: 10'-0"
RISE: 4'-0"
S.R. 135 OVER U.N.T. TO
KIPER CREEK
JACKSON COUNTY

File Name: F:\4546-1801032_SRR135SmStr50 Plans\30 Sheet Drawings\10 Bridge Sheets\S-GENPLAN-01.dwg - Layout1
August 10, 2020 11:10:09 AM / sbath
September 4, 2020 2:25:21 PM / Stacey Johnson
Modified / By:
Plotted / By:

PRELIMINARY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
	1801032
	SHEET
	10 of 16
CONTRACT	PROJECT
B-41458	1801032



Figure 1 Road alignment looking west.



Figure 2 Road alignment looking east.



Figure 3 North end of existing structure.



Figure 4 South end of existing structure.



Figure 5 Bending in the existing structure.

APPENDIX C

Early Coordination

DES 1801032

Sample Early Coordination Letter

June 23, 2020

Indiana Department of Transportation
Seymour District
185 Agrico Lane
Seymour, IN 47274

Re: Designation Number: 1801032, SR 135, Small Structure Project 0.93 mile north of SR 58,
Jackson County, Indiana
Environmental Early Coordination

Dear Environmental Coordinator:

The Indiana Department of Transportation (INDOT) intends to proceed with the Small Structure Project in Jackson 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 structure carries SR 135 over unnamed tributary (UNT) to Kiper Creek in Jackson County, Indiana. See Attachment A for project location maps. The posted speed limit is 45 mph. The existing roadway has a width of 20'-0". The INDOT Office of Traffic Statistics Technical Planning Support & Programming Divisions estimates 604 vehicles per day in 2043.

The need for this project is based on the deteriorating condition of the existing structure. This is a twin pipe system. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. The pavement is in overall good condition, with a few locations of cracking due to normal wear and tear. The structural evaluation rating from the 2019 inspection report is 4.

The purpose of this project is to provide a structurally sound and hydraulically sufficient crossing with an overall condition rating of a 8 or better.

The project will not change the vertical or horizontal alignment or the existing lanes and widths. There will be 0.1 acres of temporary right-of-way and 1.15 acres of permanent right-of-way are anticipated to be acquired. The project is currently scheduled for July 2022 letting.

UNT to Kiper Creek runs beneath the small structure and is listed as impaired for PCBs in fish tissue. This project is located within a floodplain. A Waters of the U.S. determination will be conducted by Corradino, LLC to identify ecological resources within the project area. This project qualifies for the application of the USFWS range-wide programmatic informal consultation for the Indiana Bat and Northern Long-eared Bat and project information will be submitted through USFWS's Information for Planning and Consultation (IPaC) separately. The INDOT Cultural Resources Office (CRO) will investigate the areas of additional right-of-way for archaeological and historical resources for Section 106 compliance. The INDOT Cultural Resources Office (CRO) will investigate the areas of additional right-of-way for archaeological and historic resources for Section 106 compliance.

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 317-488-2363 or bmahlie@corradino.com or Terry Summers of INDOT at tsummers@indot.IN.gov. Thank you in advance for your input.

Sincerely,



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

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

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

Indiana Geological Survey
611 North Walnut Grove
Bloomington, IN 47405

Environmental Coordinator
Indiana Department of Natural Resources
Division of Fish and Wildlife
402 West Washington Street, Rm. W273
Indianapolis, IN 46204

IDEM
Automatic coordination website

Manager, Public Hearings
Indiana Department of Transportation
100 N. Senate Avenue, Rm. 642
Indianapolis, IN 46204

Field Environmental Officer
Chicago Regional Office
US Department of Housing & Urban
Development
Metcalf Fed. Bldg.
77 W. Jackson Blvd. Room 2401
Chicago, IL 60604

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

U.S. Army Corps of Engineers
Louisville District
ATTN: CELRL-RDN
P.O. Box 59
Louisville, KY 40201-0059

Indiana Department of Transportation
Seymour District
185 Agrico Lane
Seymour, IN 47274

IDEM – Groundwater Section
Electronic Submittal

Highway Superintendent
360 S. County Rd. 25 E.
Brownstown, IN 47220

Jackson County Surveyor
111 S. Main St. Ste. 211
Brownstown, IN 47220

Environmental Policy Manager
IGCN 642
100 N. Senate Ave.
Indianapolis, IN 46204

Forest Supervisor
Hoosier National Forest
U.S. Forest Service
811 Constitution Avenue
Bedford, IN 47421

From: [McWilliams, Robin](#)
To: [Erin King](#)
Subject: Re: [EXTERNAL] Environmental Early Coordination-Des.No. 1801032 SR 135
Date: Tuesday, July 21, 2020 12:33:48 PM

Dear Erin,

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 (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, 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). The Service has 14 days after a "Not Likely to Adversely Affect" determination letter is generated to review the project and provide additional comments or request additional information; if you do not receive a response from us within 14 days, we have no additional comments.

Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no other comments on 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 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-bottom 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 riprap 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
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
620 South Walker Street
Bloomington, IN 46142
812-334-4261

Mon-Tues 8-3:30p

Wed-Thurs 8:30-3p Telework

From: Erin King <eking@CORRADINO.com>

Sent: Tuesday, June 23, 2020 4:05 PM

To: McWilliams, Robin <robin_mcwilliams@fws.gov>

Cc: Rachel Pluckebaum <rpluckebaum@CORRADINO.com>; Kirk Roth <kroth@CORRADINO.com>; Bruce Mahlie <bmahlie@CORRADINO.com>; tsummers@indot.in.gov <tsummers@indot.in.gov>

Subject: [EXTERNAL] Environmental Early Coordination-Des.No. 1801032 SR 135

Hello,

Attached for your review is the early coordination letter for Designation Number 1801032, Small Structure Project along SR 135 in Jackson County, Indiana. If you have comments or commitments for the project, please respond within thirty (30) days. Thanks in advance.

Sincerely,

Erin King

Seasonal Technician

The Corradino Group

200 S. Meridian Street, Suite 330

Indianapolis, IN 46225

P. 317.488.2363

F. 317.488.2373

eking@corradino.com

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

DNR #: ER-22746

Request Received: June 23, 2020

Requestor: Corradino LLC
Bruce Mahlie
200 South Meridian Street, Suite 330
Indianapolis, IN 46225-1076

Project: SR 135 small structure project over UNT Kiper Creek, 0.93 mile north of SR 58; Des #1801032

County/Site info: Jackson

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 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 bankful 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 and water velocities during low-flow conditions that are approximate to those in the natural stream channel. 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 the current conditions.

Sump depth for a pipe or box culvert should be increased/adjusted to match the structure's design life according to the background rate of bed degradation/downcutting so that the culvert does not become perched long before the culvert requires replacement. Culvert width and gradient should be appropriate for the site conditions so that flows do not scour out material from the culvert. Additionally, where the crossing structure does not maintain a natural streambed (i.e. pipe or box culverts), stream

Attachments: A - Bridge Exemption Criteria

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

simulation techniques need to be implemented in the culvert installation that will result in a stable, natural substrate placed within the length of the crossing structure based on the stream gradient, bedforms such as riffles, runs and pools, and a substrate/particle size analysis in a reference reach. Additional information is available in Publication No. FHWA-HIF-11-008, Federal Highway Administration, Culvert Design for Aquatic Organism Passage, October 2010 (<http://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf>).

Any riprap placed at a culvert's outlet should match the outlet/invert elevation at the upstream edge of the riprap apron. Smaller stone and fines should be mixed in to match the existing stream substrate particle distribution and provide impermeability of the riprap apron/substrate so the flow does not percolate through the voids below the riprap apron's surface. The slope of the riprap should be no steeper than 20:1 from the lip of the culvert pipe to the streambed. Riprap on the inlet side should have a slope no steeper than 5:1. Natural streambed material should be backfilled within the structure where possible as it can provide refuge for species using the culvert. Natural bed materials such as large cobble and boulders should be placed within the structure (anchored if necessary) to provide flow diversity and roughness/energy dissipation.

2) Scour Protection/Bank Stabilization:

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 high water mark (OHWM). The banks above the OHWM should 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 Habitat Mitigation guidelines (and plant lists) can be found online at: <http://iac.iga.in.gov/iac/20200527-IR-312200284NRA.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"

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

dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in an urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however.

The mitigation site should be located in the floodway, downstream of the one (1) square mile drainage area of that stream (or another stream within the 8-digit HUC, preferably as close to the impact site as possible) and adjacent to existing forested riparian habitat.

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 with a mixture of native grasses, sedges, wildflowers, and also native hardwood trees and shrubs if any woody plants are disturbed during construction as soon as possible upon completion. Do not use any varieties of Tall Fescue or other non-native plants, including prohibited invasive species (see 312 IAC 18-3-25).
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, access bridges, causeways, cofferdams, diversions, or pumparounds.
7. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
8. 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.
9. 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.

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

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

Date: July 23, 2020



Organization and Project Information

Project ID: 4546
Des. ID: 1801032
Project Title: SR 135 0.93 mile north of SR 58
Name of Organization: Corradino LLC
Requested by: Erin King

Environmental Assessment Report

1. Geological Hazards:

- High liquefaction potential
- 1% Annual Chance Flood Hazard

2. Mineral Resources:

- Bedrock Resource: Moderate Potential
- Sand and Gravel Resource: Low Potential

3. Active or abandoned mineral resources extraction sites:

- None documented in the area

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

DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

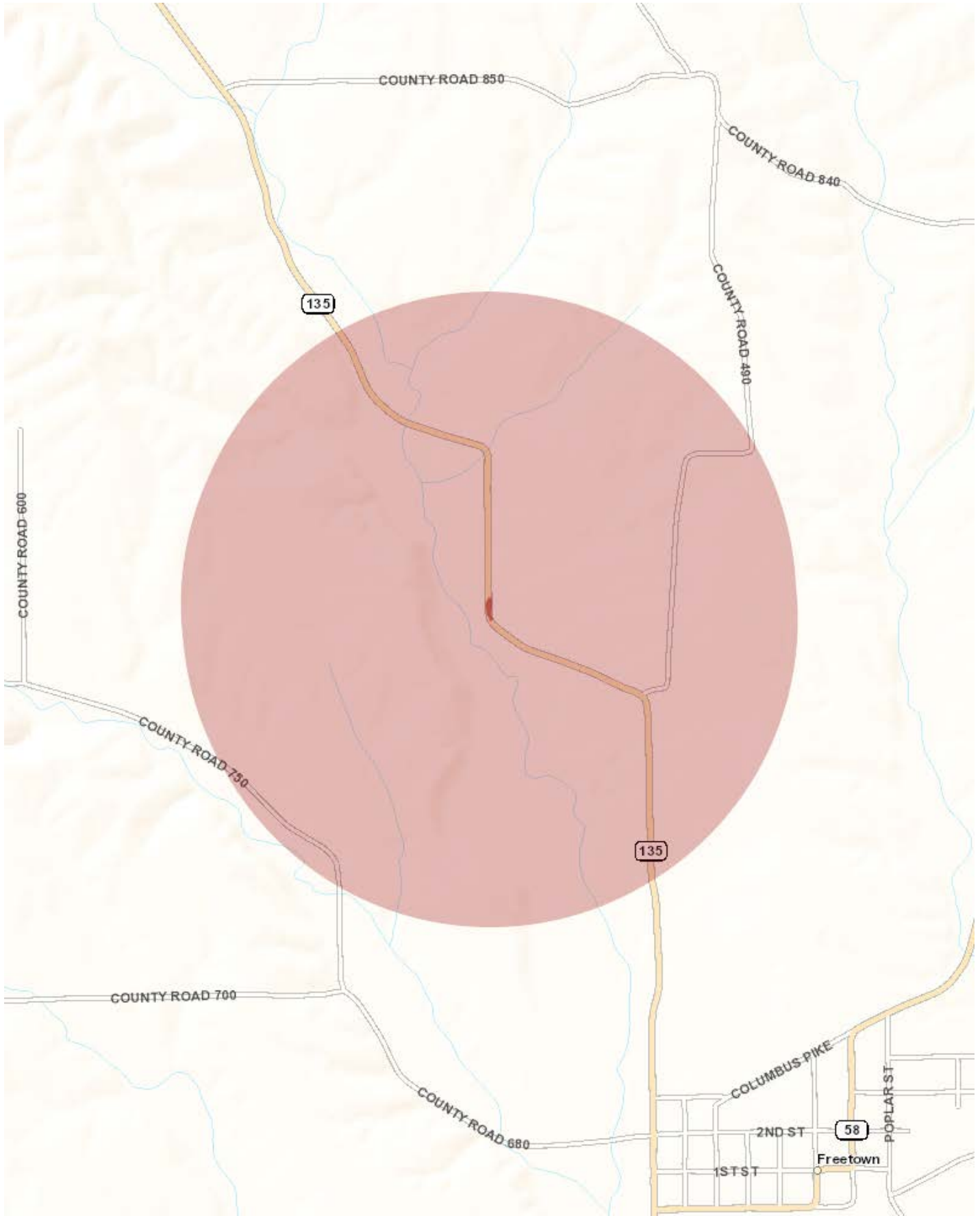
This information was furnished by Indiana Geological Survey

Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: June 23, 2020



June 29, 2020

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

Dear Mr. Mahlie:

The proposed project to address the deteriorating condition of the existing structure along State Road 135 in Jackson County, Indiana (Des No. 1801032), as referred to in your letter received June 23, 2020, 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 John Allen at 317-295-5859.

Sincerely,

RICHARD
NEILSON

Digitally signed by
RICHARD NEILSON
Date: 2020.06.30
08:58:19 -04'00'

RICK NEILSON
State Soil Scientist

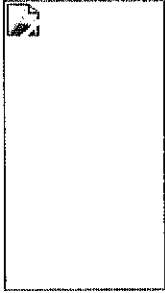
Enclosures



FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request June 23, 2020				
Name of Project Des. #1801032 SR 135, 0.93 mile north c		Federal Agency Involved FHWA				
Proposed Land Use SR 135 over UNT to Kiper Creek		County and State Jackson County, Indiana				
PART II (To be completed by NRCS)		Date Request Received By NRCS 6/23/2020		Person Completing Form: JRA		
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size 303 ac	
Major Crop(s) Corn	Farmable Land In Govt. Jurisdiction Acres: 259626% 79	Amount of Farmland As Defined in FPPA Acres: 19054% 58				
Name of Land Evaluation System Used LESA	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS 6/29/2020				
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		1.15				
B. Total Acres To Be Converted Indirectly		0.1				
C. Total Acres In Site		1.25				
PART IV (To be completed by NRCS) Land Evaluation Information						
A. Total Acres Prime And Unique Farmland		0.81				
B. Total Acres Statewide Important or Local Important Farmland		0.00				
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		31				
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)		81				
PART VI (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		Maximum Points	Site A	Site B	Site C	Site D
1. Area In Non-urban Use		(15)	14			
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)	5			
6. Distance To Urban Support Services		(15)	0			
7. Size Of Present Farm Unit Compared To Average		(10)	0			
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	29	0	0	0
PART VII (To be completed by Federal Agency)						
Relative Value Of Farmland (From Part V)		100	81	0	0	0
Total Site Assessment (From Part VI above or local site assessment)		160	29	0	0	0
TOTAL POINTS (Total of above 2 lines)		260	110	0	0	0
Site Selected: Site A		Date Of Selection June 23, 2020		Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>		
Reason For Selection: Missing farm land is unavoidable.						
Name of Federal agency representative completing this form:					Date:	

(See Instructions on reverse side)



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

Seymour District

Corradino LLC

185 Agrico Lane
Seymour , IN 47274

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

Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The project is located on SR 135, 0.93 mile north of SR 58 east junction in Jackson County, Indiana. The existing corrugated metal pipe twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small 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

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.

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

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 it is 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 on SR 135, 0.93 mile north of SR 58 east junction in Jackson County, Indiana. The existing corrugated metal pipe twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small 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: _____

Signature of the INDOT
Project Engineer or Other Responsible Agent Terry M. Summers

Date: 1/22/2021

Signature of the
For Hire Consultant Rachel Pluckebaum

Rachel Pluckebaum


RE: review comments for B-41458, SR 135 DES 1801032, Waters of the US Report

Kang, Li <LKANG@indot.IN.gov>

Wed 11/4/2020 9:22 AM

To: Kirk Roth <kroth@CORRADINO.com>

Cc: Bruce Mahlie <bmahlie@CORRADINO.com>; Summers, Terry <TSUMMERS@indot.IN.gov>

 1 attachments (679 KB)

LRL-2020-868 SR 135 Approved JD;

Hi Kirk,

Attached is the AJD FYI-Corps had excluded both UNTs as waters of US. There will be no 404 and 401 permits for the project. If project disturbs 1 acre or more land you shall apply for the Rule 5. You don't need to modify the waters report. I'll document as no JD Waters on the site. If you have any questions please let me know.

Thanks,

Li Kang

Ecology & Waterway Permitting Office

INDOT N. 642

cell: 317-694-7134

phone: 317-232-6766

From: Kirk Roth <kroth@CORRADINO.com>**Sent:** Thursday, October 1, 2020 3:12 PM**To:** Kang, Li <LKANG@indot.IN.gov>**Cc:** Bruce Mahlie <bmahlie@CORRADINO.com>; Summers, Terry <TSUMMERS@indot.IN.gov>**Subject:** Re: review comments for B-41458, SR 135 DES 1801032, Waters of the US Report

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

Hello Ms. Kang,

The AJD form for DES 1801032 is attached. Please call or email if there are any questions.

-Kirk Roth

Corradino, LLC

317-385-5388

kroth@corradino.com

From: Kang, Li <LKANG@indot.IN.gov>**Sent:** Tuesday, September 29, 2020 1:34 PM**To:** Kirk Roth <kroth@CORRADINO.com>**Cc:** Bruce Mahlie <bmahlie@CORRADINO.com>; Summers, Terry <TSUMMERS@indot.IN.gov>**Subject:** review comments for B-41458, SR 135 DES 1801032, Waters of the US Report

Appendix C-18



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT
INDIANAPOLIS REGULATORY OFFICE
8902 OTIS AVENUE, SUITE S106B
INDIANAPOLIS, IN 46216

November 4, 2020

Regulatory Division
North Branch
ID No. LRL-2020-868

Ms. Li Kang
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, IN 46204

Dear Ms. Kang:

This is in regard to the wetland delineation dated September 15, 2020, requesting a jurisdictional determination on right-of-way property along SR 135, approximately 1.05 mile north of SR 58, in Jackson County, Indiana (Des. No. 1801032). The delineation identified two unnamed tributaries to Kiper Creek as being within the aforementioned property boundaries. The proposed project is located at Latitude 38.986056°N, Longitude 86.139361°W. A location map is enclosed.

The U.S. Army Corps of Engineers exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

Based on our review of the submitted information, we have verified that UNT Kiper Ditch and the roadside ditch identified as UNT 1 Kiper Ditch are excluded from regulation under Section 404 of the Clean Water Act. As such, these waters are not considered to be "waters of the U.S." and are not regulated under Section 404 of the Clean Water Act. However, this determination does not relieve you of the responsibility to comply with applicable State law. We urge you to contact the Indiana Department of Environmental Management (IDEM), Office of Water Quality, Section 401 Water Quality Certification Program; 100 North Senate Avenue, MC 65-40; Indianapolis, Indiana 46204-2251; to determine the applicability of State law to the excluded waters mentioned above.

This letter contains an approved jurisdictional determination (JD) for your site. If you object to this JD, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this JD you must submit a completed RFA form to the Lakes and Rivers Division Office at the following address:

U.S. Army Engineer Division,
ATTN: Regulatory Appeal Review Officer, CELRD-PD-REG
550 Main Street - Room 10-714
Cincinnati, Ohio 45202-3222

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the

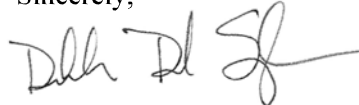
above address by **January 2, 2021**. It is not necessary to submit an RFA form to the Division office if you do not object to the JD in this letter.

This jurisdictional determination is valid for a period of five years from the date of this letter unless new information warrants revision of the determination before the expiration date. Our comments on this project are limited to only those effects which may fall within our area of jurisdiction and thus does not obviate the need to obtain other permits from state or local agencies. Lack of comments on other environmental aspects should not be construed as either concurrence or nonconcurrence with stated environmental effects.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center prior to starting work.

If we can be of any further assistance, please contact me by writing to the above address, call (317)543-9424. Any correspondence should reference our assigned Identification Number LRL-2020-868.

Sincerely,

A handwritten signature in black ink, appearing to read 'Duda D Snyder', written in a cursive style.

Deborah Duda Snyder
Project Manager
Indianapolis Regulatory Office

Enclosure

Copy Furnished: IDEM (Turner)



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:

January 20, 2021

Consultation Code: 03E12000-2020-SLI-2134

Event Code: 03E12000-2021-E-02746

Project Name: 1801032: SR 135, 0.93 miles North of SR 58 East Junction

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: 03E12000-2020-SLI-2134

Event Code: 03E12000-2021-E-02746

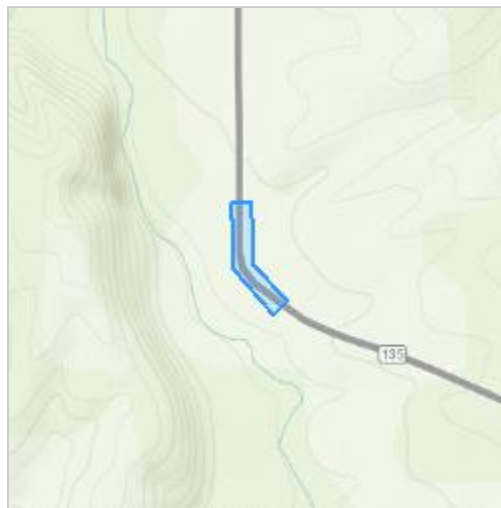
Project Name: 1801032: SR 135, 0.93 miles North of SR 58 East Junction

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: This project is located on SR 135, 0.93 miles north of SR 58 east Junction in Jackson County, Indiana. The existing corrugated metal twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small structure replacement. Tree clearing is expected to be 0.15 acres. Construction is expected to begin in March 2023 and last 6 months. The USFWS sent an email on July 21, 2020 stating it did not indicate the presence of federally endangered species within 0.5 mile of the project area. The most recent bridge inspection did not find evidence of bat use. No permanent lighting will be installed and it is unknown 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/@38.98621752355417,-86.13940425156653,14z>



Counties: Jackson 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 Fisheries¹, 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.

-
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 <i>Myotis sodalis</i> 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 <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none">▪ 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:

May 21, 2021

Consultation code: 03E12000-2020-I-2134

Event Code: 03E12000-2021-E-06175

Project Name: 1801032: SR 135, 0.93 miles North of SR 58 East Junction

Subject: Concurrence verification letter for the '1801032: SR 135, 0.93 miles North of SR 58 East Junction' 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 **1801032: SR 135, 0.93 miles North of SR 58 East Junction** (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

1801032: SR 135, 0.93 miles North of SR 58 East Junction

Description

This project is located on SR 135, 0.93 miles north of SR 58 east Junction in Jackson County, Indiana. The existing corrugated metal twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small structure replacement. Tree clearing is expected to be 0.15 acres. Construction is expected to begin in March 2023 and last 6 months. The USFWS sent an email on July 21, 2020 stating it did not indicate the presence of federally endangered species within 0.5 mile of the project area. The most recent bridge inspection on April 16, 2020 did not find evidence of bat use. No permanent lighting will be installed and it is unknown 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 triangulation/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 triangulation/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

- 1801032.pdf <https://ecos.fws.gov/ipac/project/CYZZQQQGH5FQNMM34HHYNQDAJI/projectDocuments/22924996>
- 1801032 Inspection Report - 2020-04-16_Excerpt.pdf <https://ecos.fws.gov/ipac/project/CYZZQQQGH5FQNMM34HHYNQDAJI/projectDocuments/102034662>

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?

Yes

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

No

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.

0.15

4. Please describe the proposed bridge work:

This project is located on SR 135, 0.93 miles north of SR 58 east Junction in Jackson County, Indiana. The existing corrugated metal twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small structure replacement. Tree clearing is expected to be 0.15 acres. Construction is expected to begin in March 2023 and last 6 months. The USFWS sent an email on July 21, 2020 stating it did not indicate the presence of federally endangered species within 0.5 mile of the project area. The most recent bridge inspection on April 16, 2021 did not find evidence of bat use. No permanent lighting will be installed and it is unknown whether temporary lighting will be needed, thus temporary lighting will be assumed.

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

March 2023-September 2023

6. Please enter the date of the bridge assessment:

April 16, 2020

Avoidance And Minimization Measures (AMMs)

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

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.

TREE REMOVAL AMM 1

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

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

This key was last updated in IPaC on April 22, 2021. 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 # BCS 180 1032	Water Body UNT to Kiper Creek	Date/Time of Inspection 10-16-19 10:30AM	Within 1,000ft of suitable bat habitat (circle one) Yes No
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Route SR 135	County JACKSON	Federal Structure ID
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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							
---------------------------------------	--	--	--	--	--	--	--

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

None

Visual (e.g. survey, thermal, emergent etc.)

- Live __ number seen
- Dead __ number seen

Photo documentation Y/N

Guano

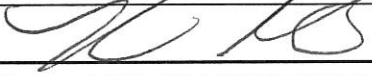
Odor Y/N

Photo documentation Y/N

Staining definitively from bats

Photo documentation Y/N

Audible

Assessment Conducted By: <u>Kirk Roth</u> Signature(s): <u></u>
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.

APPENDIX D

Section 106 of the
NHPA

DES 1801032

1383561 Minor Projects PA Project Assessment Form– Category B Projects with Archaeology Work

Date: 9/10/2020

Project Designation Number: 1801032

Route Number: State Road (SR) 135

Project Description: Small Structure Replacement, 0.93 mile north of SR 58

The project is located on SR 135, 0.93 mile north of SR 58 east junction in Jackson County, Indiana. The structure carries SR 135 over an unnamed tributary to (UNT) to Kiper Creek. The southern pipe has a failing joint near the center. Rust and pitting are also present throughout both pipes. The structural evaluation rating from the inspection report is a 4 out of 9.

The proposed project is a small structure replacement. The existing twin corrugated metal pipes will be removed and replaced with a 10-foot span by 4-foot rise reinforced concrete box culvert. The project will not change the horizontal alignment or the roadway cross-section.

Feature crossed (if applicable): UNT Kiper Creek

Township: Pershing Township

City/County: Jackson 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); Jackson County property records, accessed here: <https://jacksonin.wthgis.com/>; Project information provided by Corradino, LLC, dated 7/15/2020 and on file at INDOT-CRO;

Moffatt, David

2020 Archaeological Investigation for the Proposed Small Structure Replacement on SR 135 over an Unnamed Tributary to Kiper Creek (Des. No.1801032) 0.93 miles North of SR 58 in Jackson County, Indiana. Prepared for INDOT, Seymour District. INDOT, CRO. Report on file at IDNR, DHPA.

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, performed a

desktop review of the surrounding area. Based on a review of online street-view imagery and aerial photography, the areas immediately adjacent to the subject structure consist of woods and agricultural fields. Streetview imagery of the proposed project location dates from 2009 and shows an early 20th century house adjacent to the project location. According to Jackson County property records, the house (7000 North Block SR 135) was demolished in 2018 and the land is now vacant. No unusual features were observed that may be impacted by the project.

According to BIAS records, the subject structure (CV 135-036-75.70) is comprised of twin corrugated metal pipes (CMP); the date of construction is not known. Based on an examination of BIAS reports and interior photos, the structure exhibits no wood, stone, or brick structures or parts therein. In addition, there is no evidence to suggest that it possesses historical or engineering significance.

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:

Moffatt/ September 9, 2002

Summary of Archaeology Investigation Results:

With regard to archaeological resources, an INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, completed an investigation of the project area. No previous archaeological investigation or site was recorded within the project area. The archaeological field reconnaissance consisted of shovel test probes at 15 m interval along the undisturbed margins of the area to be impacted. No cultural materials were located and no additional archaeological investigation was recommended.

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-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [***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)

One of the conditions below must be met (***EITHER Condition i or Condition ii must be satisfied:***):

- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks,

curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (*Condition a, Condition b, or Condition c must be satisfied*):

- a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
 - b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
 - c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met (*BOTH Condition 1 AND Condition 2 must be met*):
 1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.
- ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions (*BOTH Condition a and Condition b must be satisfied*):
- a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 - b. The subject structure exhibits one of the characteristics described below (*Condition 1, Condition 2 or Condition 3 must be satisfied*).
 1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
 2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
 3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

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): Susan Branigin and David Moffatt

***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.



INDIANA ARCHAEOLOGICAL SHORT REPORT

State Form 54566 (1-11)

INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274
Indianapolis, Indiana 46204-2739
Telephone Number: (317) 232-1646
Fax Number: (317) 232-0693
E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology.

Author:

Date (month, day, year):

Project Title:

PROJECT OVERVIEW

Project Description:

The project is located on SR 135, 0.93 miles north of SR 58 east junction in Jackson County, Indiana. The structure carries SR 135 over UNT to Kiper Creek. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The structural evaluation rating from the inspection report is a 4 out of 9.

The proposed project is a small structure replacement. The existing corrugated metal twin pipes will be removed and replaced with a 10-foot span by 4-foot rise reinforced concrete box culvert. The project will not change the horizontal alignment or the roadway cross-section.

INDOT Designation Number/ Contract Number: Project Number:

DHPA Number: Approved DHPA Plan Number:

Prepared For:

Contact Person:

Address:

City: State: ZIP Code:

Telephone Number: Email Address:

Principal Investigator:

Signature:

Company/Institution:

Address:

City: State: ZIP Code:

Telephone Number: Email Address:

PROJECT LOCATION

County: Jackson

USGS 7.5' series Topographic Quadrangle: Kurtz

Civil Township: Pershing

Legal Location:

1/4, 1/4, SW 1/4, NE 1/4, Section: 1 Township: 6 N Range: 3 E

1/4, 1/4, SE 1/4, NE 1/4, Section: 1 Township: 6 N Range: 3 E

1/4, 1/4, 1/4, 1/4, Section: Township: Range:

1/4, 1/4, 1/4, 1/4, Section: Township: Range:

Topographic Map Datum: NAD 1983 Grid Alignment: GIS

Comments:

Property Owner: INDOT

PROJECT AREA DETAILS

Length meters: 175 feet: 574.0 Width meters: 040.0 feet: 131.0 hectares: 00.5 acres: 01.2

Natural Region: Brown County Hills Section

Topography: floodplain

Soil Association: Wellston-Berks-Gilpin (USDA 2002)

There are three soil series in the project area, though it is almost entirely Steff series (USDA 2020).

Steff silt loam, 0 to 2 percent slopes, rarely flooded (StAQ) This moderately well drained soil forms in acid fine-silty alluvium on floodplains.

Soils: Haymond silt loam, 0 to 2 percent slopes, frequently flooded, brief duration (HcgAH) This well drained soil forms in Silty over loamy alluvium on natural levees, floodplains.

Haubstadt silt loam, 2 to 6 percent slopes, eroded (HccB2) This Moderately well drained soil is formed in silty clay loam on Lake plains.

Drainage: Lower East Fork White

Current Land Use: yards and fallow fields

Comments: The length was measured along the SR 135 centerline. The area above includes the current highway corridor.

RECORDS REVIEW (check all that apply) Date of Records Check (month, day, year): August 31, 2020

SHAARD database

Site Maps on file at DHPA

Previously Reported Sites within One Mile of the Project (include citations):

There are two sites within one mile of the project area.
12-J-0531 Projectile points and possible hammerstones, collector reported.
12-J-0597 Farmstead

Cultural Resource Management reports, other research reports, grant reports on file at DHPA or other institutions

Previous Archaeological Studies within One Mile of the Project (include citations):

There is one, possibly two archaeological reconnaissances within one mile of the project area. CRA examined 2 ac for a small structure replacement on SR 58 over brushy Creek (Dickerson 2016). No cultural resources were identified. Site 12J0597 was identified by CRA, but no report was found in SHAARD (IDNR, DHPA 2020).

List other institutions:

Cemetery Records

Results: There are three cemeteries within one mile of the project area. None are within 100 feet of the project area.

McGregor Industrial Site records (in applicable counties)

Results:

County Interim Report

Results: There are no above ground resources shown on the IHBBC map near the project area (IDNR, DHPA 2020).

Historic Maps

Results: The 1878 Atlas of Jackson County shows a house in the vicinity of the project area, most likely one of the structures west of the highway. There was an associated orchard that appears to have been in the location of the highway (Randal, Clellan and Nay 1878).
The same house can be seen west of the road in 1900 (American Map and Atlas Company 1900).

Known Cultural Manifestations and/or Additional Information:

Prehistoric cultural manifestations near the project area reflect the general cultural sequence of the state from Paleoindian through Euroamerican contact. In southeastern Indiana Paleoindian sites are more common on the terraces and floodplains of major river valleys, especially in the Ohio River drainage system. The Archaic period is fairly well documented in the region. Important sites range from the Early Archaic McCullough's Run site (12-B-1036) in Bartholomew County (Cochran et al. 1997) to the Riverton component at 12-Ws-225 (Meadows and Bair 2000). The Woodland period is poorly documented in the region. The Prather site (12-CI-4), in Clark County, is a Mississippian period mound center that shows Cahokian Middle Mississippian influences, possibly via the Angel phase (Munson and McCullough 2004). Specific cultural groups may include Riverton, Adena, Hopewell, Fort Ancient, and Prather complex.

FIELD INVESTIGATION: (check all that apply) Field Investigation Dates (month, day, year): September 1, 2020

Field Supervisor: David Moffatt

Field Crew: Shaun miller, Patty Jo Korzeniewski

Surface Visibility: 0-20%

Factors Affecting Visibility: grass, weeds, soy beans

Visual Walkover Pedestrian Survey Shovel Test Screened Mesh Size 1/4 in

Interval 5 m 10 m 15 m Other (describe below)

Number of Shovel Test Units Excavated:

Describe Methods:

Attach photographs documenting disturbances below

Describe Disturbances:

Comments:

Results

- Archaeological records check has determined that the project area does not have the potential to contain archaeological resources.
- Archaeological records check has determined that the project area has the potential to contain archaeological resources.
- Phase Ia reconnaissance has located no archaeological resources in the project area.
- Phase Ia reconnaissance has identified landforms conducive to buried archaeological deposits.

Actual Area Surveyed hectares: acres:

Comments:

Recommendation

- The archaeological records check has determined that the project area has the potential to contain archaeological resources and a Phase Ia archaeological reconnaissance is recommended.
- The archaeological records check has determined that the project area does not have the potential to contain archaeological resources and no further work is recommended before the project is allowed to proceed.
- The Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and it is recommended that the project be allowed to proceed as planned.
- The Phase Ia archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits. It is recommended that Phase Ic archaeological subsurface reconnaissance be conducted before the project is allowed to proceed.
- The Phase Ia archaeological reconnaissance has determined that the project area is within 100 feet of a cemetery and a Cemetery Development Plan is required per IC-14-21-1-26.5.

Cemetery Name:

Other Recommendations/Commitments:

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

Attachments

- Figure showing project location within Indiana.
- USGS topographic map showing the project area (1:24,000 scale).
- Aerial photograph showing the project area, land use and survey methods.
- Photographs of the project area.
- Project plans (if available)

Other Attachments:

American Map and Atlas Company
1900 A descriptive atlas of Jackson County. American Map and Atlas Company, Chicago.

Cochran, Donald R., Paige Waldron, Ron Richards, Beth McCord and Debbie Rotman
1997 McCullough's Run: A Bifurcate Tradition Cemetery in Indiana. Archaeological Resources Management Service, Ball State University, Muncie. Report on file at Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology, Indianapolis.

Dickerson, John
2016 Phaser Ia Archaeological Reconnaissance Survey for the Proposed Jackson County Bridge Replacement Project in Freetown Indiana (Des. No. 1400029). Cultural Resource Analysts, In. Submitted to Bram, Longest, and Neff. LLC. Report on file at IDNR, DHPA.

Indiana Department of Natural Resources, Division of historic Preservation and Archaeology (IDNR, DHPA)
2020 Indiana Historic Building, Bridges, and cemeteries Map. <https://indnr.maps.arcgis.com/home/item.html?id=1593429c17c34942a0d1d3fac03c4a80>.

Meadows, William C. and Charles E. Bair
2000 An Archaeological Survey of High Probability Water Course Development Areas In the East Fork White River Watershed in South Central Indiana. Report of Investigation 00-07, Glenn A. Black Laboratory of Archaeology, Indiana University, Bloomington.

Munson, Cheryl Ann and Robert G. McCullough
2004 Prather Site (12-CI-4), Clark County, Indiana: The 2003 Baseline Archaeological Survey. Paper presented at the joint Southeast Archaeological Conference/Midwest Archaeological Conference, October 21, 2004, St. Louis, MO.

Randal, G. A., J. A. Clellan and B. A. Nay
1878 An illustrated historical atlas of Jackson County, Indiana. G.A. Randall, J.A. McClellan & B.A. Nay

Stafford, C. Russell, Ronald L. Richards, and C. Michael Anslinger
2000 The Bluegrass Fauna and Changes in Middle Holocene Hunter-Gatherer Foraging in the Southern Midwest. American Antiquity 65:317-336.

United States Department of Agriculture (USDA)
2002 Indiana State Soil Geographic Database (STATSGO). Electronic document. http://www.in.nrcs.usda.gov/mlra11/indiana_statsgo.html. accessed August 31, 2020.

2020 Web Soil Survey. Electronic document accessed 20, 2012. <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

References Cited:

Comments:

Curation

Curation Facility for Project Documentation:

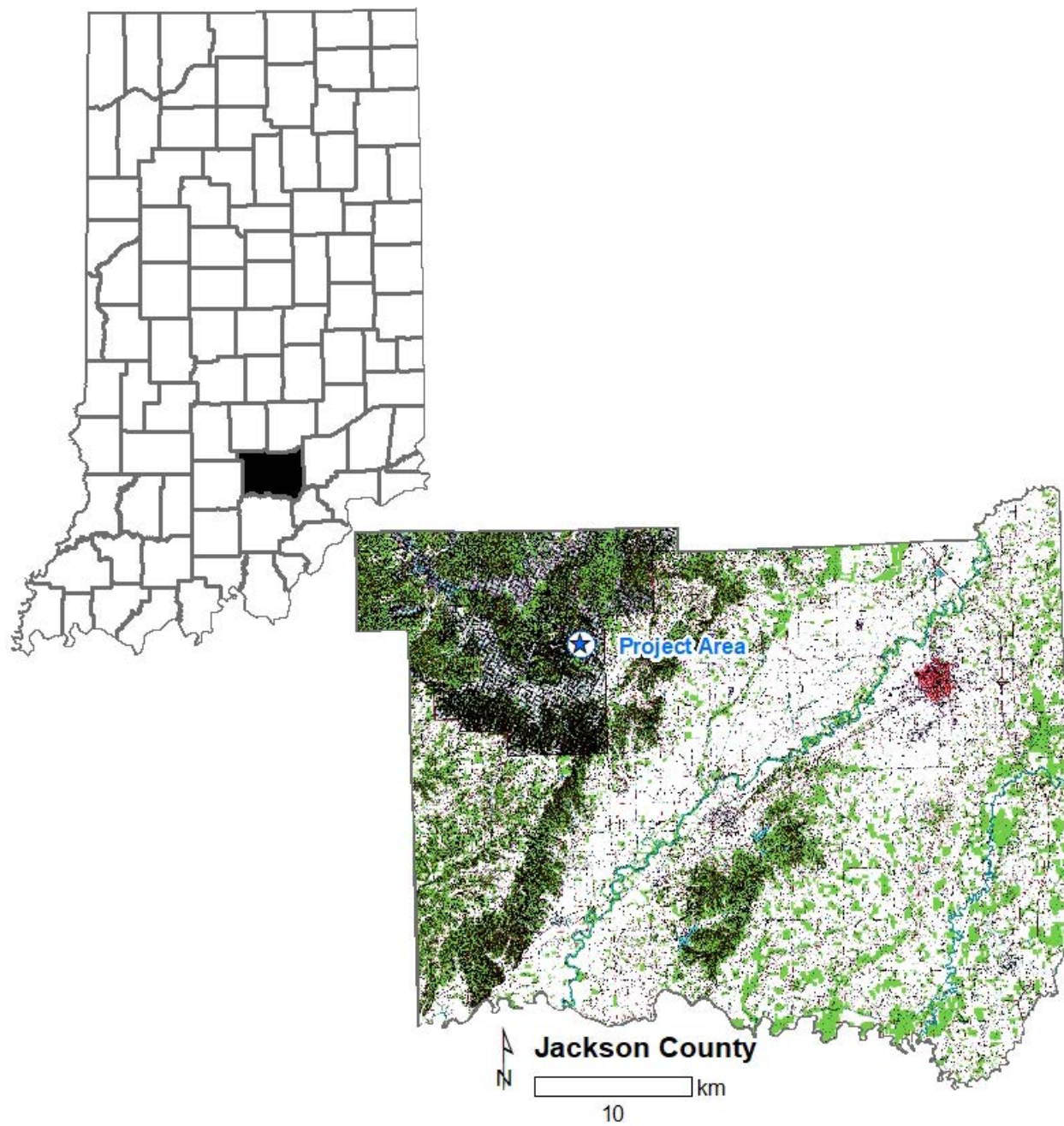


Figure 1. Location of the project area within Indiana and Jackson County.

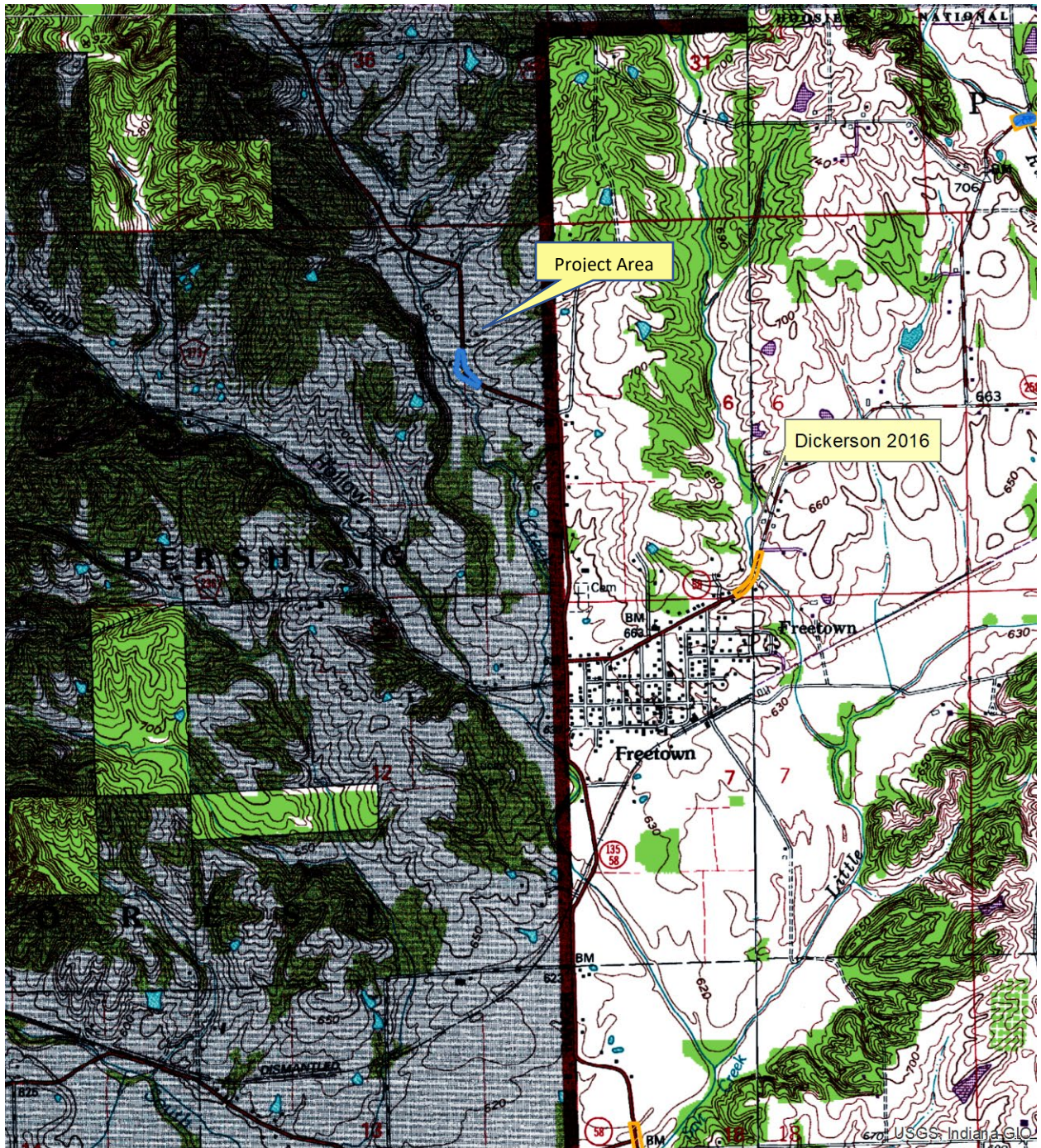
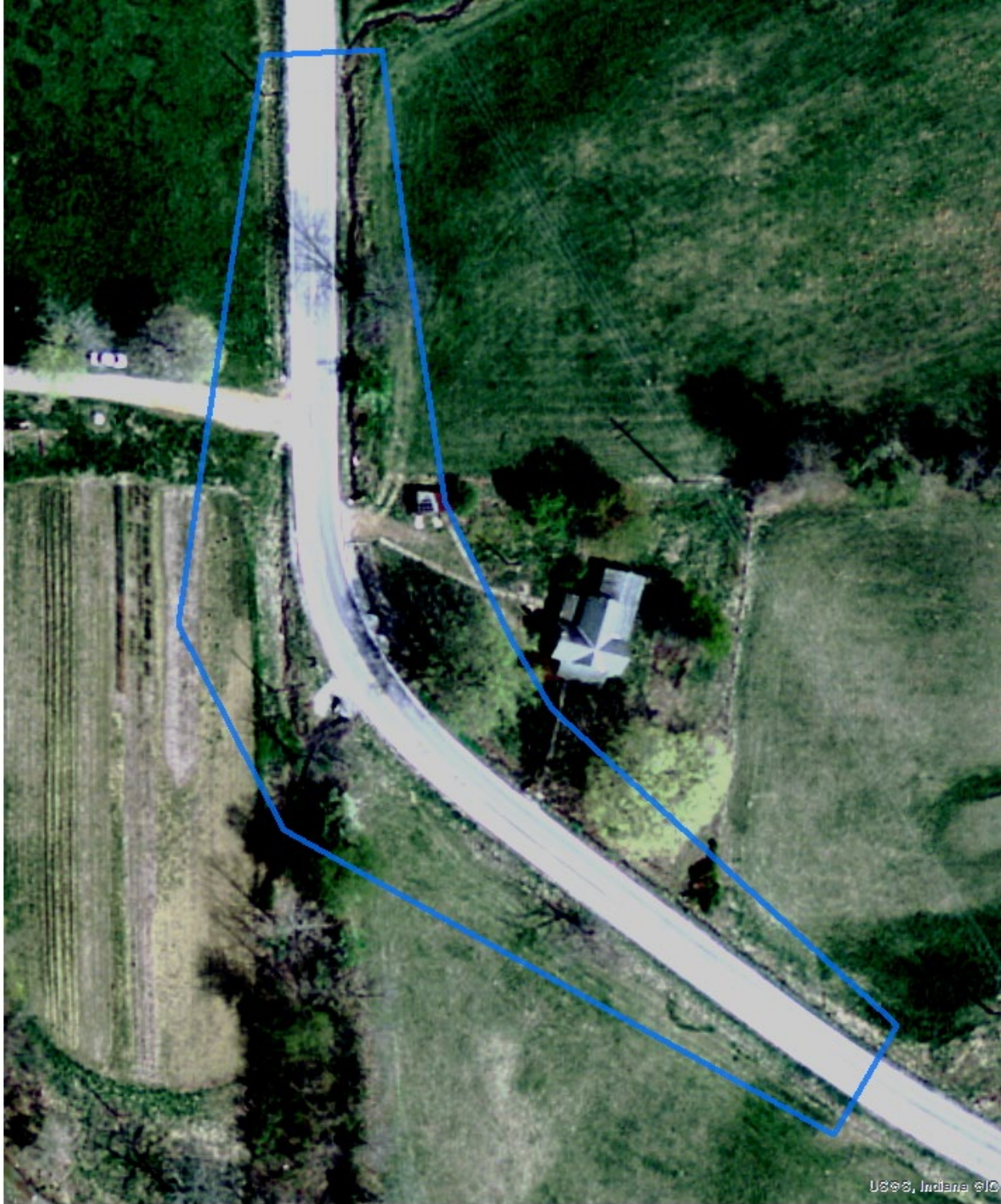


Figure 2. Portions of USGS 7.5' Kurtz Indiana topographic quadrangle showing the project area.



 Project Boundary



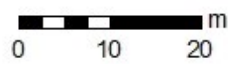
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0 10 20

Figure 3. 2011 aerial photograph showing land use in the project area



Figure 4. The southeast quadrant of the project area, standing at the small structure, facing southeast.



Figure 5. The northwest quadrant of the project area, standing at the small structure, facing north.

APPENDIX E

Red Flag and Hazardous Materials

DES 1801032



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: August 21, 2020

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 South Meridian St. Suite 330
Indianapolis, IN
rpluckebaum@corradino.com

Re: RED FLAG INVESTIGATION
DES # 1801032, State Project
Small Structure Replacement
SR 135, 0.93 Mile North of SR 58 East Junction
Jackson County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The project is located on SR 135, 0.93 mile north of SR 58 east junction in Jackson County, Indiana. The existing corrugated metal pipe twin pipes have an overall rating of 4 out of 9. The southern pipe has a failing joint near the center. There is also rust and pitting throughout both pipes. The outlet end of the pipes is scoured out and there is water flowing beneath the structures. Due to the severity of the deterioration of the pipes, the proposed scope for this project is a small structure replacement.

Bridge and/or Culvert Project: Yes No Structure # CV 135-036-75.70

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary # Acres 0.1 Permanent # Acres 1.15, Not Applicable

Type of excavation: Excavation to a depth of approximately 10 feet at the site of the existing structures.

Maintenance of traffic: A full closure with a signed detour will occur and the official route will utilize SR 46, I65, and SR 58.

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	N/A	Recreational Facilities	N/A
Airports ¹	N/A	Pipelines	N/A
Cemeteries	N/A	Railroads	N/A
Hospitals	N/A	Trails	N/A
Schools	N/A	Managed Lands	N/A

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

Explanation: No infrastructure features are mapped within the 0.5 mile search radius.

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	1	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	16
Canal Structures – Historic	N/A	Lakes	10
NPS NRI Listed	N/A	Floodplain - DFIRM	3
NWI-Lines	4	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	5	Sinkhole Areas	N/A
Rivers and Streams	7	Sinking-Stream Basins	N/A

Explanation:

NWI – Points: One (1) NWI – Point is located within the 0.5 mile search radius. The NWI – point is located 0.12 mile southwest of the project area. No impact is expected.

NWI – Lines: Four (4) NWI – lines are located within the 0.5 mile search radius. The nearest NWI – line is located 0.01 mile west of the project area. No impact is expected.

IDEM 303d Listed Streams and Lakes (Impaired): Five (5) IDEM 303 listed streams are located within the 0.5 mile search radius. The nearest impaired stream, Kiper Creek, is located 0.01 mile west of the project area. No impact is expected.

Rivers and Streams: Seven (7) river and stream segments are located within the 0.5 mile search radius. The nearest river, Kiper Creek, is 0.01 mile west of the project area. Due to the proximity of Kiper Creek, it is likely that additional water resources such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. A Waters of the US Report will be prepared and coordination with INDOT Ecology and Waterway Permitting will occur.

NWI – Wetlands: Sixteen (16) NWI – wetlands are located within the 0.5 mile search radius. The nearest wetland is 0.04 mile west of the project area. No impact is expected.

Lakes: Ten (10) lakes are located within the 0.5 mile search radius. The nearest lake is 0.04 mile west of the project area. No impact is expected.

Floodplain – DFIRM: Three (3) floodplain polygons are located within the 0.5 mile search radius. The project area is located partially within one of the floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

URBANIZED AREA BOUNDARY SUMMARY

Explanation: The project area is not located within an Urbanized Area Boundary.

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	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: There are no Mining and Mineral Exploration features located within the 0.5 mile search radius.

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	1	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:

State Cleanup Sites: One (1) state cleanup site is located within the 0.5 mile search radius. The state cleanup site is 0.08 mile southeast of the project area. Although the map shows a state cleanup site within the 0.5 mile search radius, it is mapped incorrectly and is outside of the 0.5 mile buffer. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Jackson 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 ETR 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 wooded area with farmland. The April 16, 2020, inspection report for Culvert CV 135-036-75.70 states that no evidence of bats was seen or heard in the culvert. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE: N/A

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

Kiper Creek is unmapped and located within the project area.

One (1) floodplain polygon is located partially within the project area. (Coordination only)

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

INDOT Environmental Services concurrence: Nicole Fohey Breting (Signature)
Digitally signed by Nicole Fohey-Breting
Date: 2020.08.21 11:27:47 -04'00'

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: N/A

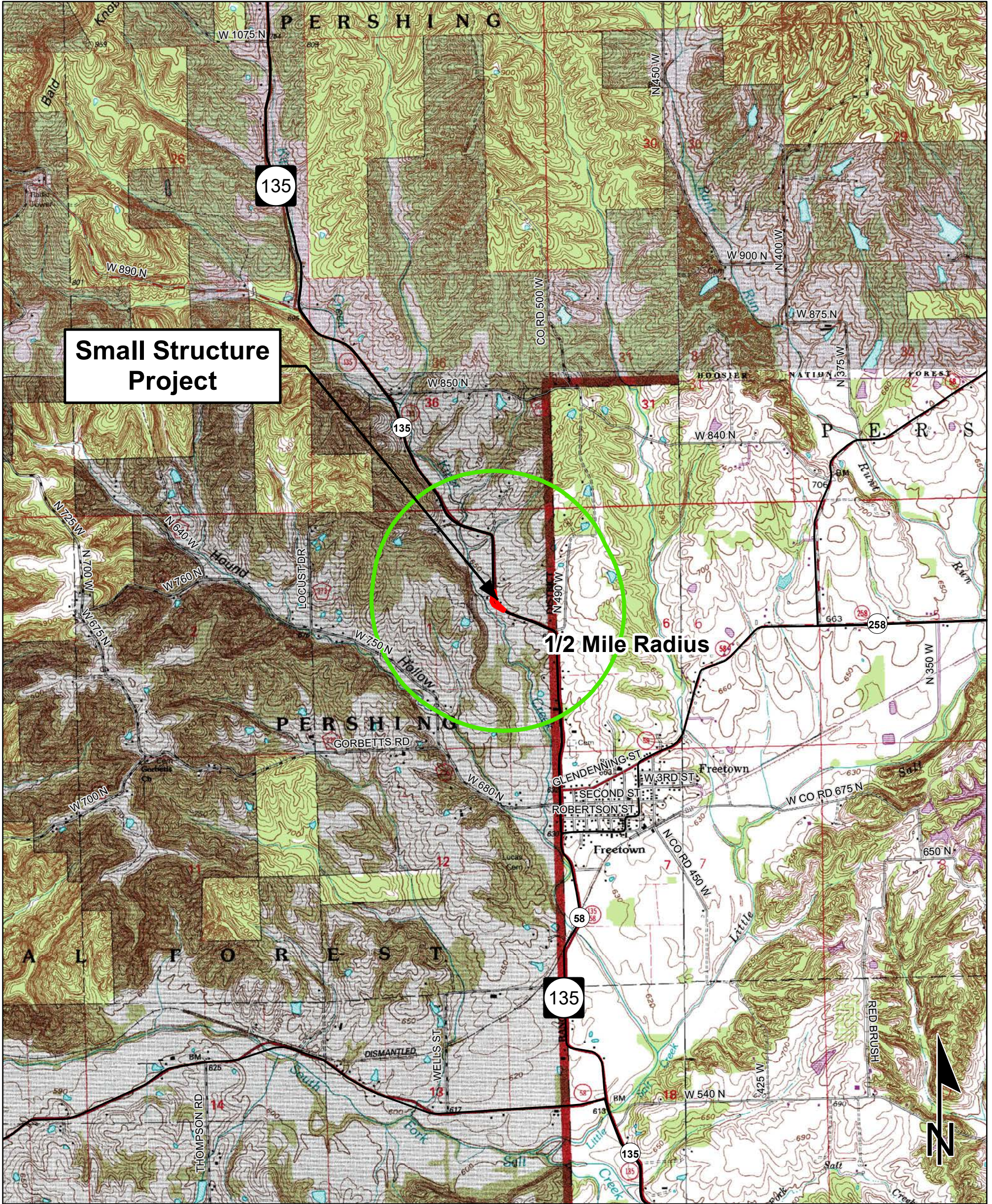
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

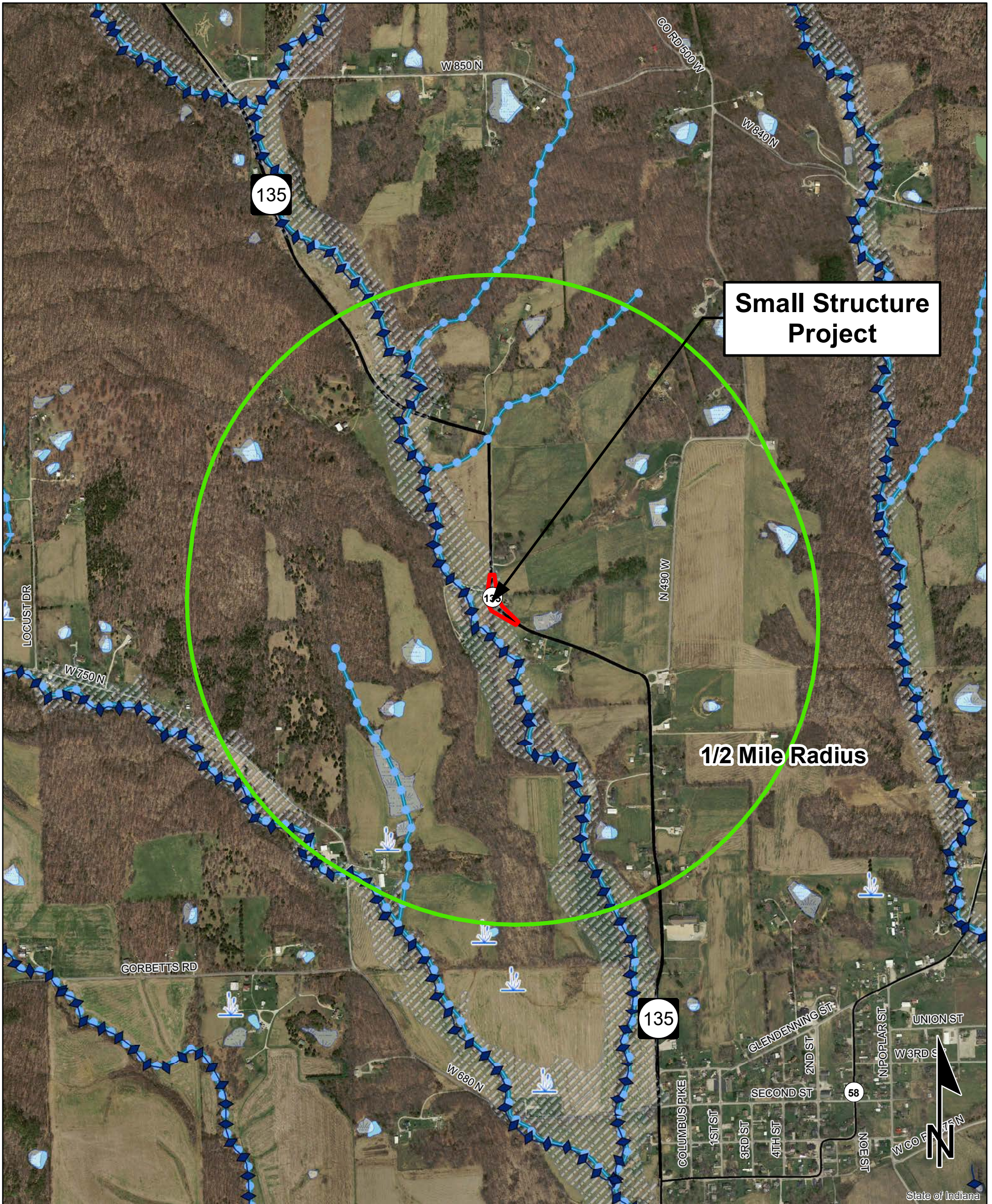
Red Flag Investigation - Site Location
 SR 135, 0.93 Miles North of SR 58 East Junction
 Des. No. 1801032, Small Structure Project
 Jackson County, Indiana



Sources: 0.5 0.25 0 0.5 Miles
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.

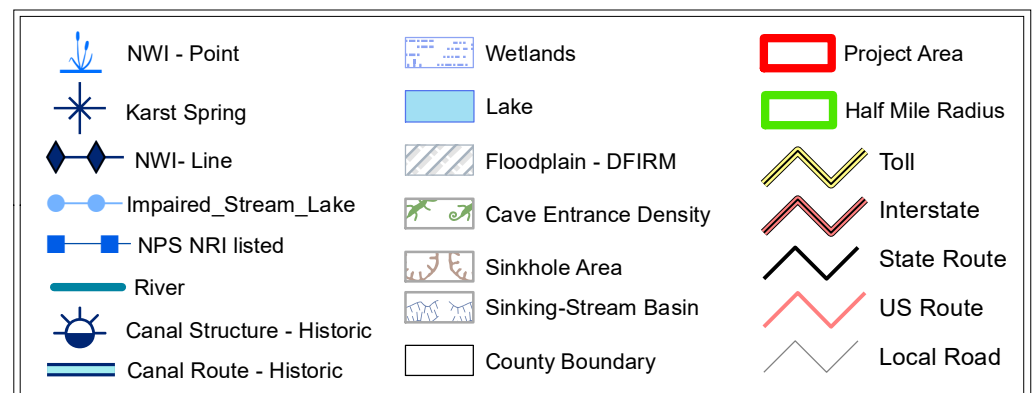
**KURTZ QUADRANGLE
 INDIANA 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

Red Flag Investigation - Water Resources
 SR 135, 0.93 Miles North of SR 58 East Junction
 Des. No. 1801032, Small Structure Project
 Jackson County, Indiana

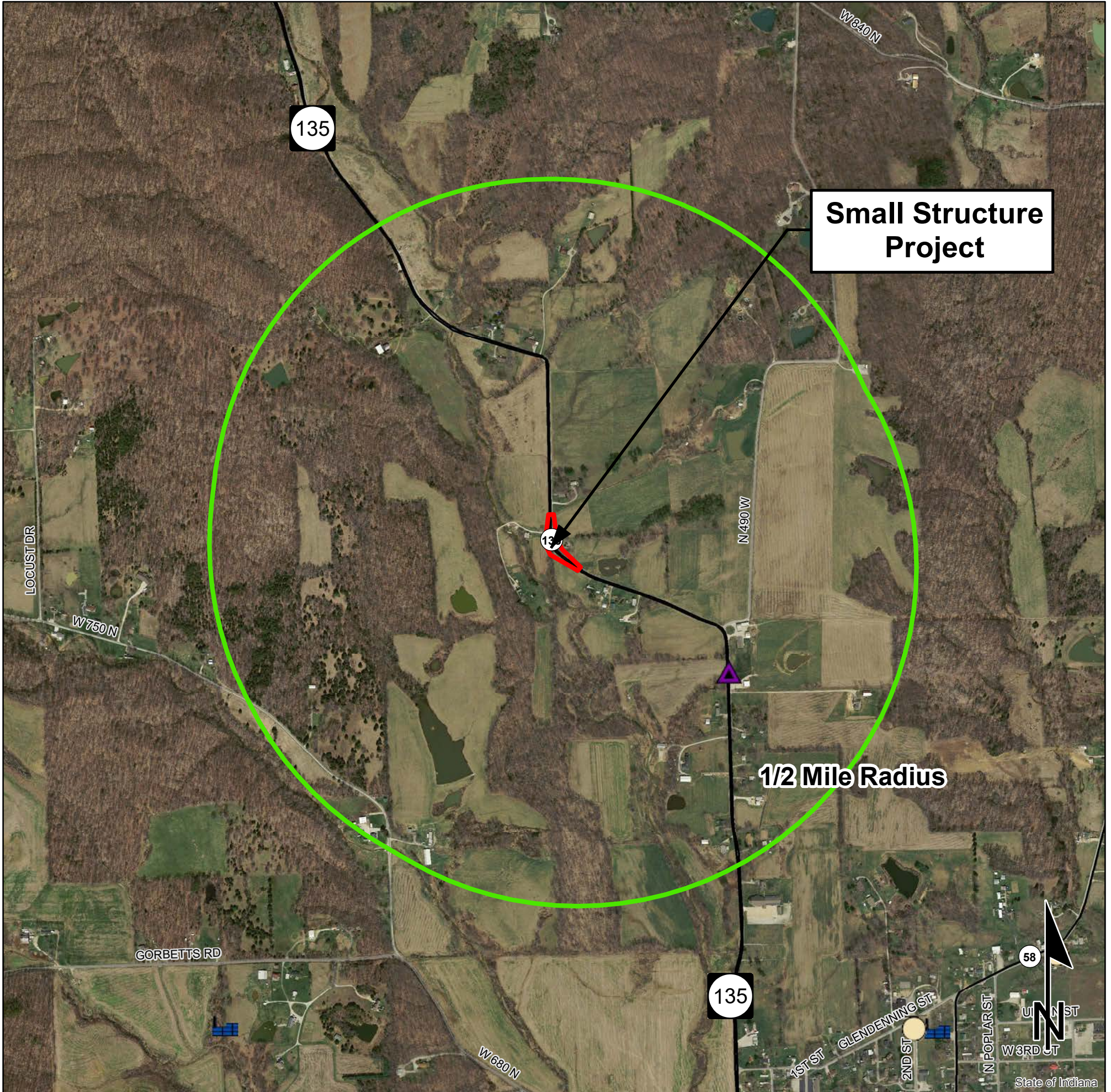


Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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



Red Flag Investigation - Hazardous Material Concerns
 SR 135, 0.93 Miles North of SR 58 East Junction
 Des. No. 1801032, Small Structure Project
 Jackson County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation Notice_of_Contamination		Septage Waste Site		Project Area
	Construction/Demolition Site		Solid Waste Landfill		Half Mile Radius
	Infectious/Medical Waste Site		State Cleanup Site		Toll
	Leaking Underground Storage Tank		Superfund		Interstate
	Manufactured Gas Plant		Tire Waste Site		State Route
	NPDES Facilities		Underground Storage Tank		US Route
	NPDES Pipe Locations		Voluntary Remediation Program		Local Road
	Open Dump Waste Site		Waste Transfer Station		



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

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

Indiana County Endangered, Threatened and Rare Species List

County: Jackson



Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
<i>Cyprogenia stegaria</i>	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
<i>Epioblasma torulosus</i>	Tubercled Blossom	LE	SX	GX	SX
<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel		SSC	G5	S3
<i>Obovaria subrotunda</i>	Round Hickorynut	C	SE	G4	S1
<i>Pleurobema clava</i>	Clubshell	LE	SE	G1G2	S1
<i>Pleurobema cordatum</i>	Ohio Pigtoe		SSC	G4	S2
<i>Pleurobema plenum</i>	Rough Pigtoe	LE	SE	G1	S1
<i>Pleurobema rubrum</i>	Pyramid Pigtoe		SX	G2G3	SX
<i>Ptychobranthus fasciolaris</i>	Kidneyshell		SSC	G4G5	S2
<i>Theliderma cylindrica</i>	Rabbitsfoot	LT	SE	G3G4	S1
<i>Villosa lienosa</i>	Little Spectaclecase		SSC	G5	S3
Insect: Lepidoptera (Butterflies & Moths)					
<i>Pieris virginiensis</i>	West Virginia white		ST	G3?	S3
Insect: Odonata (Dragonflies & Damselflies)					
<i>Epiptera canis</i>	Beaverpond Baskettail		SE	G5	S1
<i>Rhionaeschna mutata</i>	Spatterdock Darner		ST	G4	S2S3
Fish					
<i>Notropis ariommus</i>	Popeye Shiner			G3	SX
Amphibian					
<i>Acris blanchardi</i>	Blanchard's Cricket Frog		SSC	G5	S4
<i>Hemidactylium scutatum</i>	Four-toed Salamander		SSC	G5	S2
Reptile					
<i>Clonophis kirtlandii</i>	Kirtland's Snake		SE	G2	S2
<i>Crotalus horridus</i>	Timber Rattlesnake		SE	G4	S2
<i>Kinosternon subrubrum subrubrum</i>	Eastern Mud Turtle		SE	G5T5	S2
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	C	SE	G3G4	SH
<i>Nerodia erythrogaster neglecta</i>	Copperbelly Water Snake	PS:LT	SE	G5T3	S2
<i>Opheodrys aestivus</i>	Rough Green Snake		SSC	G5	S3
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SSC	G5T5	S3
Bird					
<i>Accipiter striatus</i>	Sharp-shinned Hawk		SSC	G5	S2B
<i>Aimophila aestivalis</i>	Bachman's Sparrow			G3	SXB
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Ardea alba</i>	Great Egret		SSC	G5	S1B
<i>Bartramia longicauda</i>	Upland Sandpiper		SE	G5	S3B
<i>Buteo platypterus</i>	Broad-winged Hawk		SSC	G5	S3B
<i>Certhia americana</i>	Brown Creeper			G5	S2B
<i>Cistothorus palustris</i>	Marsh Wren		SE	G5	S3B

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: Jackson



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Cistothorus platensis</i>	Sedge Wren		SE	G5	S3B
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Helmitheros vermivorus</i>	Worm-eating Warbler		SSC	G5	S3B
<i>Ixobrychus exilis</i>	Least Bittern		SE	G4G5	S3B
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Mniotilta varia</i>	Black-and-white Warbler		SSC	G5	S1S2B
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron		SE	G5	S2B
<i>Pandion haliaetus</i>	Osprey		SSC	G5	S1B
<i>Rallus elegans</i>	King Rail		SE	G4	S1B
<i>Setophaga cerulea</i>	Cerulean Warbler		SE	G4	S3B
<i>Setophaga citrina</i>	Hooded Warbler		SSC	G5	S3B
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
Mammal					
<i>Myotis sodalis</i>	Indiana Bat	LE	SE	G2	S1
<i>Nycticeius humeralis</i>	Evening Bat		SE	G5	S1
<i>Sorex hoyi</i>	Pygmy Shrew		SSC	G5	S2
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Acalypha deamii</i>	Deam's two-seeded mercury		WL	G4?	S3
<i>arex atlantica ssp. atlantica</i>	Atlantic sedge		SE	G5T5	S1
<i>arex seorsa</i>	weak stellate sedge		ST	G5	S3
<i>arex straminea</i>	straw sedge		ST	G5	S2
<i>Chelone obliqua var. speciosa</i>	rose turtlehead		WL	G4T3	S3
<i>Cyperus acuminatus</i>	short-point flatsedge		WL	G5	S3
<i>Dichanthelium bicknellii</i>	panic-grass		SE	G4?Q	S1
<i>Hydrastis canadensis</i>	golden seal		WL	G3G4	S3
<i>Juglans cinerea</i>	butternut		ST	G3	S2
<i>Magnolia acuminata</i>	cucumber magnolia		SE	G5	S1
<i>Mikania scandens</i>	climbing hempweed		SE	G5	S1
<i>Najas gracillima</i>	thread-like naiad		ST	G5?	S3
<i>Panax quinquefolius</i>	American ginseng		WL	G3G4	S3
<i>Platanthera flava var. flava</i>	southern rein orchid		SE	G4?T4?Q	S1
<i>Poa paludigena</i>	bog bluegrass		ST	G3G4	S3
<i>Rubus odoratus</i>	purple flowering raspberry		ST	G5	S2
<i>Tsuga canadensis</i>	eastern hemlock		WL	G5	S3
High Quality Natural Community					
<i>Barrens - bedrock siltstone</i>	Siltstone Glade		SG	G2	S2
<i>Forest - floodplain mesic</i>	Mesic Floodplain Forest		SG	G3?	S1
<i>Forest - floodplain wet</i>	Wet Floodplain Forest		SG	G3?	S3
<i>Forest - floodplain wet-mesic</i>	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: Jackson



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Forest - upland dry-mesic Highland Rim</i>	Highland Rim Dry-mesic Upland Forest		SG	GNR	S3
<i>Forest - upland mesic Bluegrass</i>	Bluegrass Mesic Upland Forest		SG	GNR	S3
<i>Forest - upland mesic Highland Rim</i>	Highland Rim Mesic Upland Forest		SG	GNR	S3
<i>Wetland - seep acid</i>	Acid Seep		SG	GU	S1
Other Significant Feature					
<i>Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade</i>	Water Fall and Cascade			GNR	SNR

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 1801032

LiKang 9/29/2020

Waters of the U.S. Determination

SR 135 in Jackson County, Indiana
Small Structure Replacement, 1.05 miles north of SR 58
Designation Number 1801032
Asset Name: CV 135-36-75.70

Prepared by:

Kirk Roth

kroth@corradino.com

317-488-2363

Corradino, LLC

September 15, 2020

1. Project Information

Dates of Field Reconnaissance:

Field work for this report was conducted on October 16, 2019 by Corradino, LLC.

Project Location:

Kurtz Quadrangle
Section 1, Township 6 North, Range 3 East
Jackson County, Indiana
Coordinates: 38.986056 -86.139361

Project Description:

This project is located on SR 135, 1.05 mile north of SR 58, at structure CV 135-036-75.70. SR 135 crosses an unnamed tributary (UNT) to Kiper Creek in the project area, which is surrounded by rural farmland. The project will be a small structure replacement with a four-sided box culvert. To complete this work, the existing structure will need to be removed. To complete the replacement with a concrete box, approximately 65 feet of pavement will be removed and replaced over the proposed structure. The structure will extend outside the obstruction free zone eliminating the need for a guardrail. The roadway shoulders will be 2-foot paved and 3-foot usable within the project limits. Side slopes will match the existing 2:1 maximum slope outside of the obstruction free zone. Approximately 125 feet of UNT to Kiper Creek on the east side of the road will need to be relocated. Scour protection (revetment riprap on geotextiles) will be placed at the inlet and outlet of the structure, per the INDOT Standard Drawings. Guardrail will not be provided as it will be more of a hazard than the protection will provide. In addition, guardrail would limit sight lines on the horizontal curve.

Due to its current deteriorating condition, the small structure will be replaced by a structurally sound and hydraulically sufficient crossing. 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 Jackson County, Indiana, the project area does contain soil areas with nationally listed hydric soils. The soils within the project area are Haubstadt Silt Loam (HccB2), Haymond Silt Loam (HcgAH), and Steff Silt Loam (StaAQ). Steff Silt Loam is the predominant soil in the project area and it is 2% hydric. Haubstadt Silt Loam and Haymond Silt Loam are both are 0% hydric. Haubstadt is located in the southeast corner of the investigative area and Haymond is at the west edge.

National Wetland Inventory Information

Wetland/Water Feature Name	Location
UNT to Kiper Creek (Not Wetland)	Project area
PUBGh	0.03 mile east
PUBGh	0.13 mile west

12-digit Hydrologic Unit – 051202080401

Attached Documents:

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

3. Field Reconnaissance

Site reconnaissance was conducted on October 16, 2019 by Corradino, LLC.

Stream Analysis

The project structure is associated with the ephemeral UNT to Kiper Creek, which eventually encounters the East Fork of the White River. Within the project area, UNT to Kiper Creek drains the surrounding roadside, agricultural and residential area. During the site inspection, no water was present. An Ordinary High Water Mark (OHWM) was measured to be 7.0 feet wide and 0.5 deep at a location 20 feet downstream of the structure. The area upstream of the structure is a concrete ditch, obscuring the OHWM. Stream quality is considered poor due to the highly modified nature of the ditch and lack of cover or other qualities pertaining to aquatic habitat. INDOT acknowledges that the stream would likely not meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of the stream. UNT to Kiper Creek is not identified as a blue line stream and therefore its drainage area cannot be mapped using the StreamStats website. According to the INDOT Hydraulic Review dated October 19, 2018, the drainage area of UNT to Kiper Ditch at the project area is 0.169 square mile. There are 394 linear feet of UNT to Kiper Ditch in the investigative area.

An ephemeral tributary encounters UNT to Kiper Creek southwest of the structure. For the purposes of this report, this tributary is referred to as UNT1. UNT1 exhibited bed and bank structure and an OHWM

1.5 foot wide and 0.25 foot deep. This condition continued to the north until UNT1 encountered a driveway with a culvert, and north of this culvert the drainage expressed conditions more similar to a roadside ditch (See RSD1 below). UNT1 drains the roadside and an agricultural field. Stream quality is considered poor due to small size, modified nature, and lack of high quality aquatic habitat features INDOT acknowledges that the stream would likely not meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of the stream. UNT1 is not identified as a blue line stream and therefore its drainage area cannot be mapped using the StreamStats website. The drainage area of UNT1 is included in the 0.169 square mile drainage area of UNT to Kiper Ditch. There are 100 linear feet of UNT1 within the investigative area.

UNT to Kiper Creek encounters Kiper Creek. Kiper Creek then encounters Little Salt Creek. Little Salt creek encounters Salt Creek. Then, Salt Creek encounters Monroe Lake. Salt Creek exits Monroe Lake and eventually encounters the East Fork of the White River.

Table 1 – Stream Summary, SR 135, Jackson County, Indiana, Designation Number 1801032

Stream Name	Photos	Lat/Long	OHW Width (feet)	OHW Depth (feet)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
UNT to Kiper Creek	1-15	38.986056 -86.139361	7.0	0.50	No (Ephemeral)	No	Silt, Sand, Pebbles, Cobbles	Poor	Yes
UNT1	17-22	38.986107 -86.139508	1.5	0.25	No (Ephemeral)	No	Silt, Sand, Pebbles, Cobbles	Poor	Yes

Wetland Analysis

The area within the site boundaries was investigated for potential wetland characteristics. All areas with wetland hydrology characteristics were confined to the areas within the OHWM of UNT to Kiper Creek and UNT1. No areas of dominant hydrophytic vegetation were found.

No areas within the investigative areas were found to meet wetland criteria.

Roadside Ditch Analysis

A roadside ditch occurs in the northwest quadrant of the project area and is referred to as RSD1 in this document. RSD1 does not exhibit an OHWM. RSD1 encounters UNT1 at a driveway culvert and drains into UNT1. RSD1 is dominated by facultative upland plants such as *Schedonorus arundinacea* and *Setaria faberi*. The vegetation present does not support wetland status.

A roadside ditch encounters UNT to Kiper Creek in the southeast quadrant of the project area just east of the structure. This ditch is referred to as RSD2 in this document. RSD2 does not exhibit an OHWM. RSD2 is mostly lined with rock and broken concrete, but dominant plants growing sporadically are facultative upland plants such as *Schedonorus arundinacea* and *Trifolium alba*. The vegetation present does not support wetland status. RSD2 drains the roadside and nearby residential area.

Due to the lack of an OHWM, RSD1 and RSD2 do not exhibit characteristics of a tributary. Because RSD1 and RSD2 are not wetlands or tributaries, they are not likely Waters of the U.S.

4. Summary and Conclusions

INDOT acknowledges that UNT to Kiper Creek and UNT1 would likely not meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of both streams.

RSD1 and RSD2 are non-jurisdictional features within the study area.

There were no areas with wetland characteristics within the study area.

No bat or bird use of the bridge was detected during the October 9, 2019 survey.

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

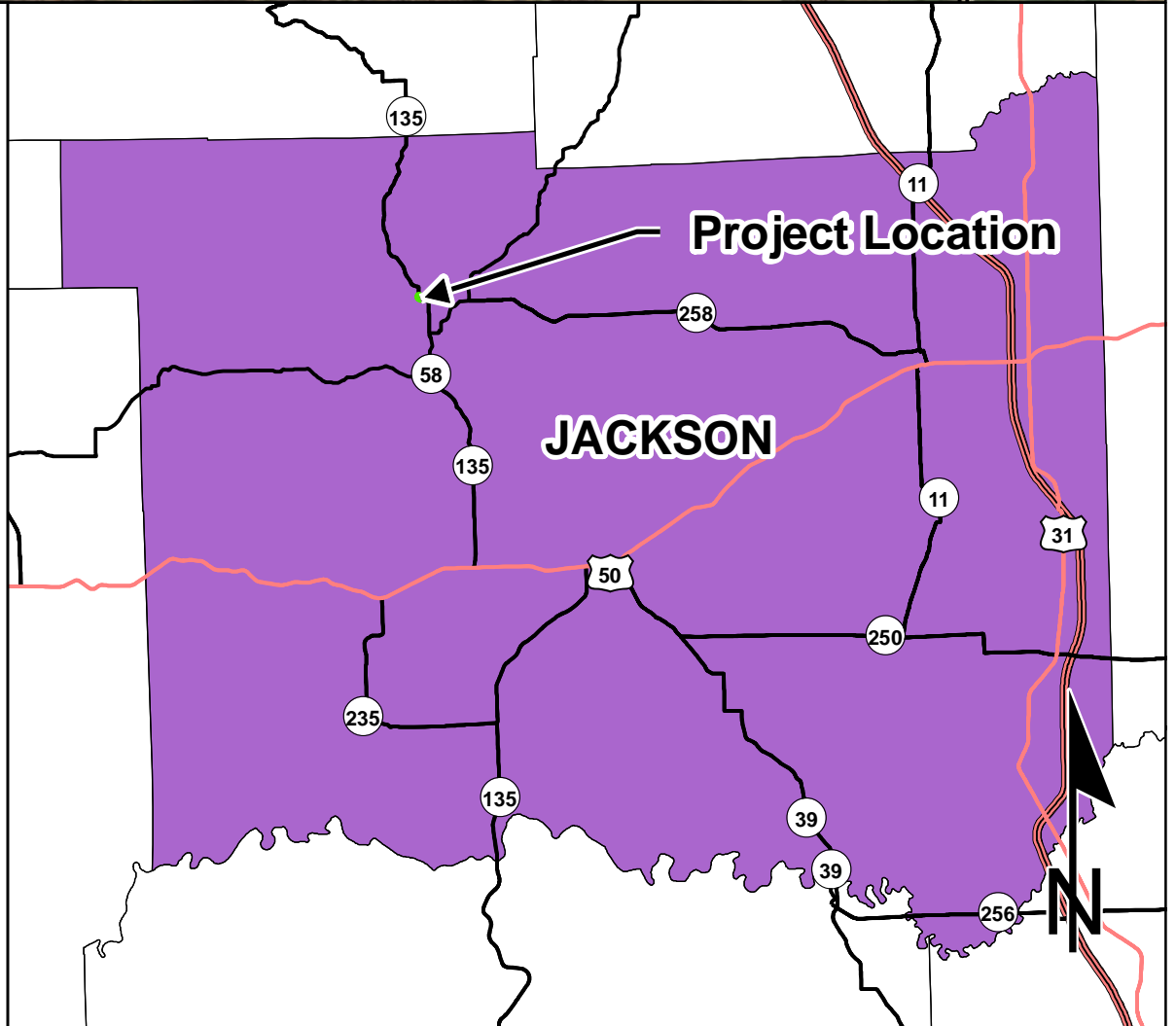
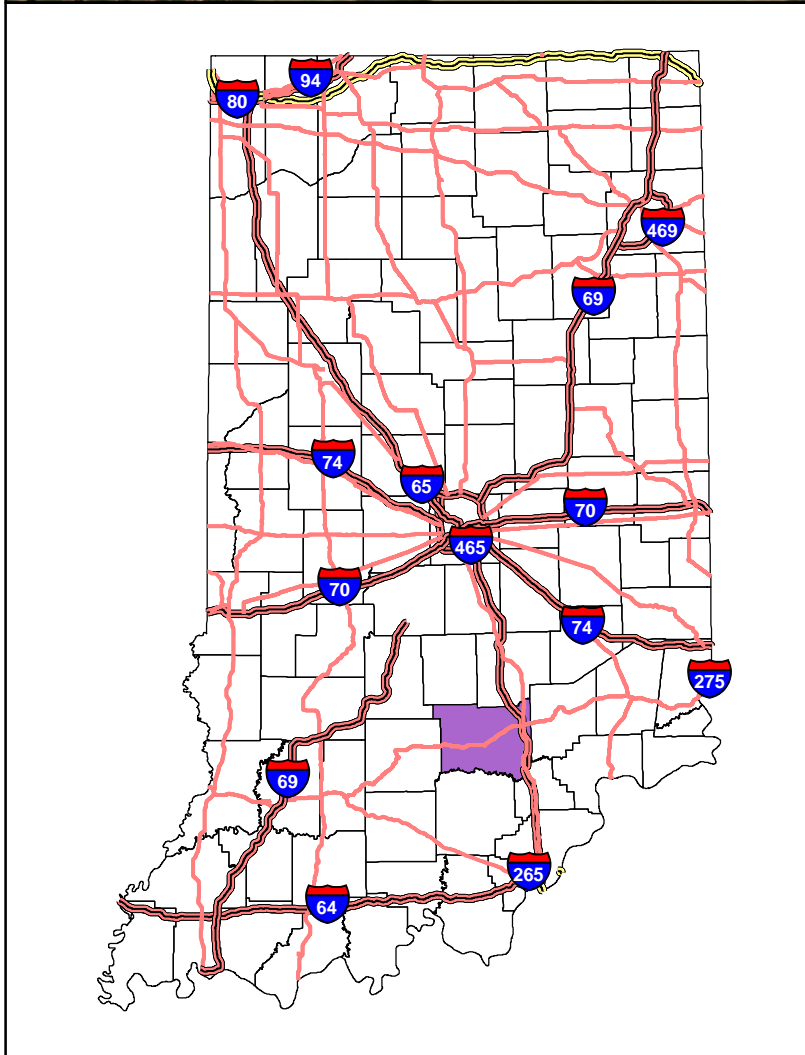


Environmental Scientist

Corradino, LLC

September 15, 2020

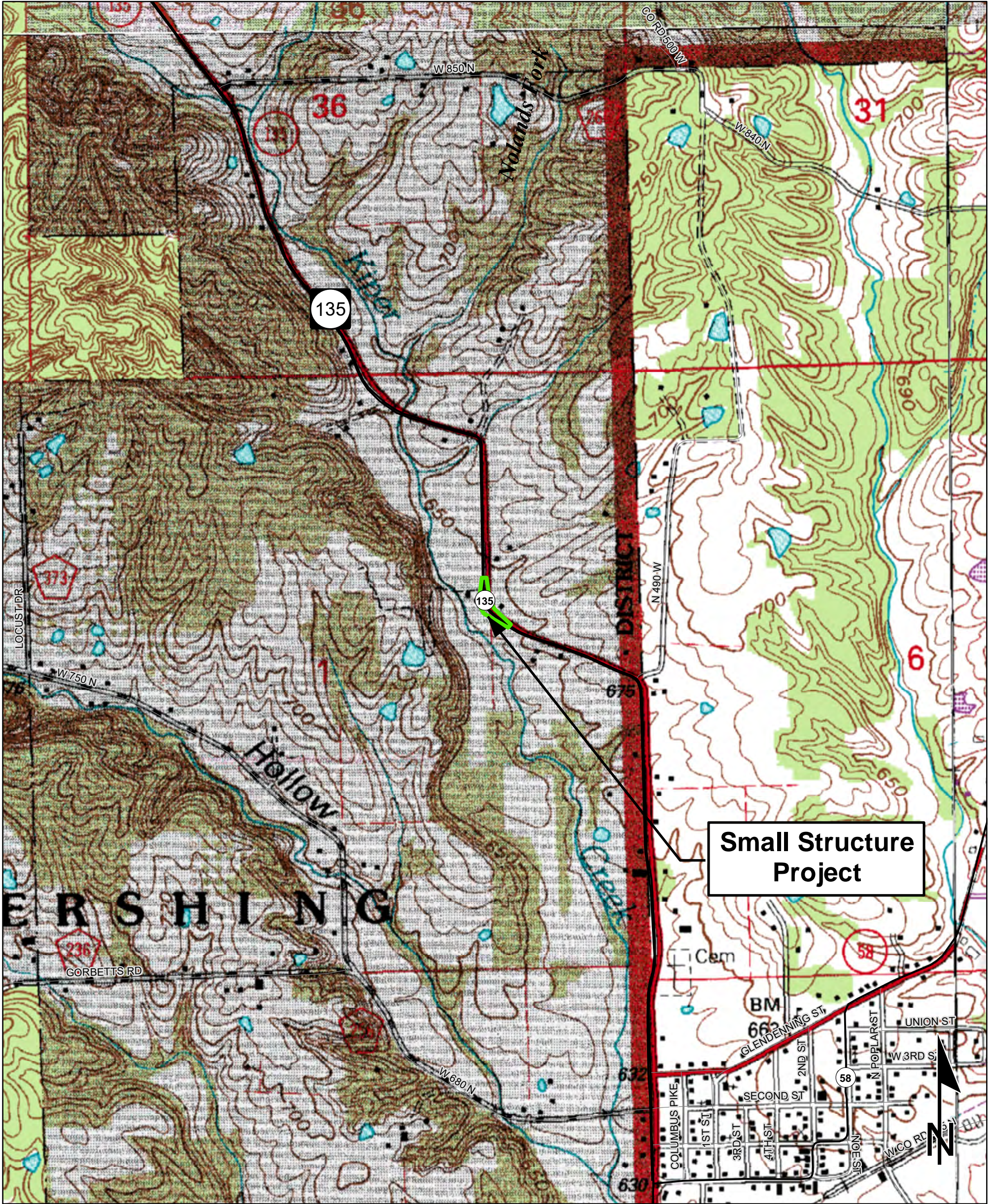
Project Location
 Des. No. 1801032, Small Structure Project
 SR 135, 1.05 Miles North of SR 58 East Junction
 Jackson County, Indiana



Sources: 0.08 0.04 0 0.08 Miles
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

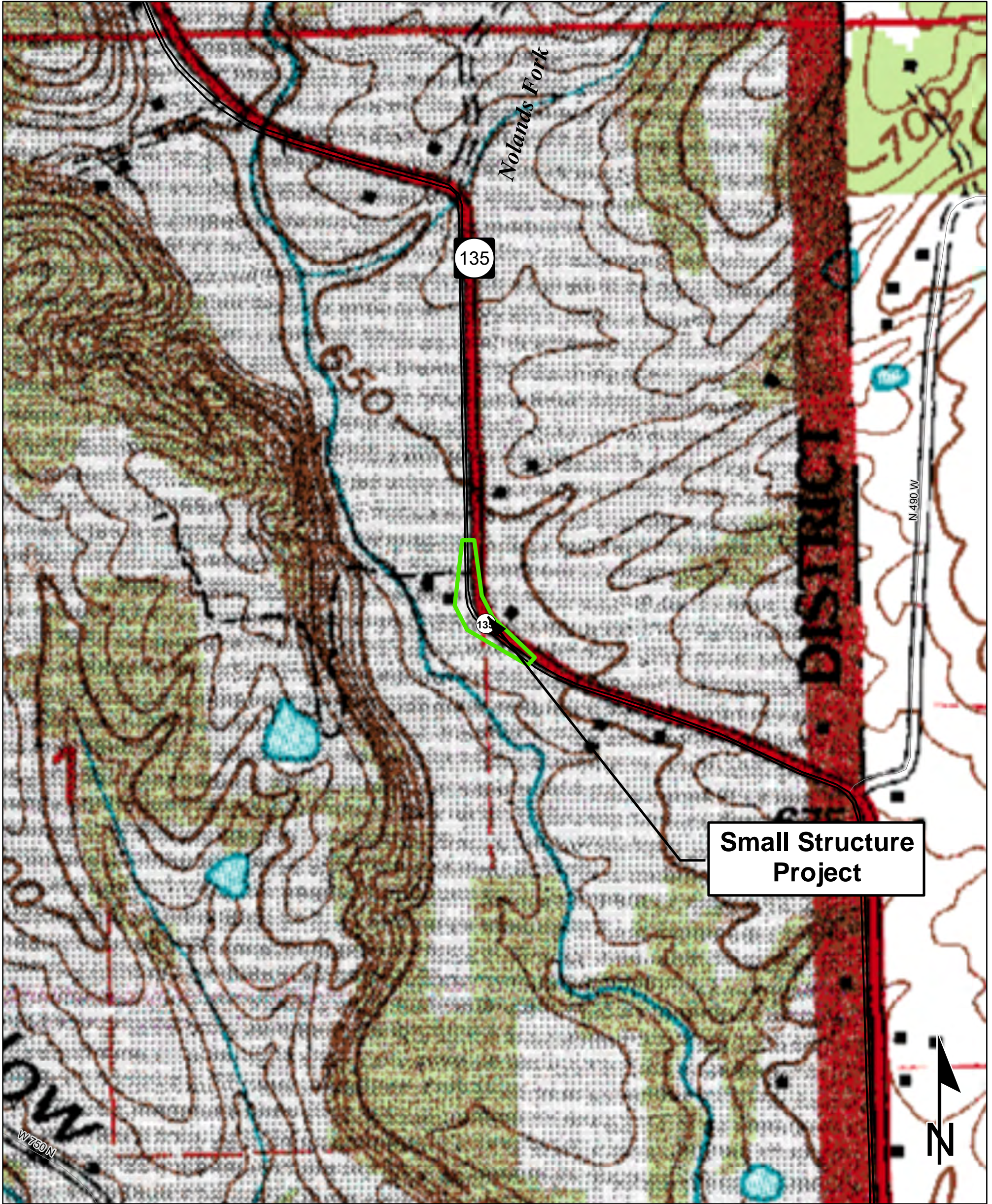
USGS Topographic Map
 Des. No. 1801032, Small Structure Project
 SR 135, 1.05 Miles North of SR 58 East Junction
 Jackson County, Indiana



Sources: 1,200 600 0 1,200 Feet
 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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KURTZ QUADRANGLE INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

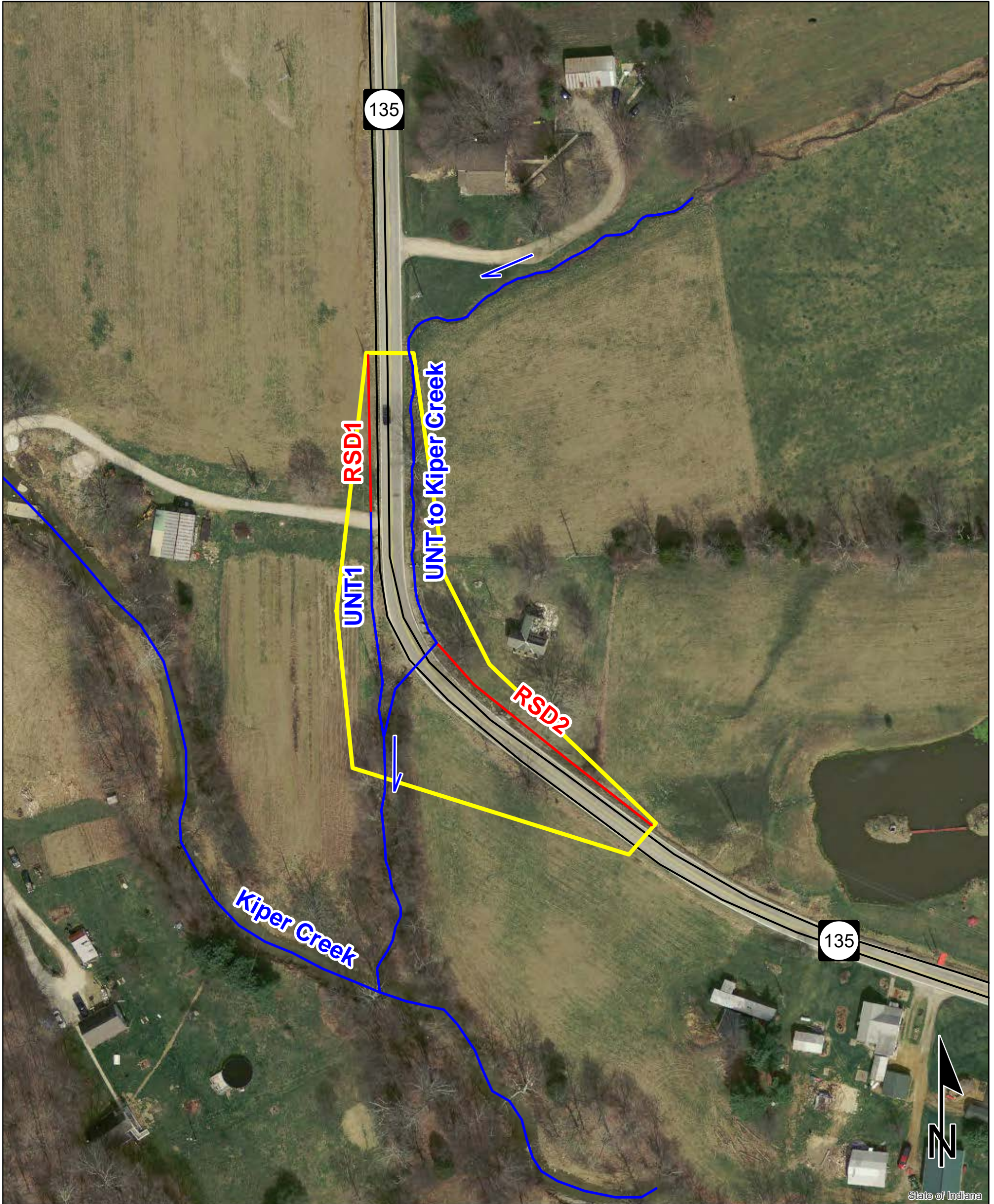
USGS Topographic Map
Des. No. 1801032, Small Structure Project
SR 135, 1.05 Miles North of SR 58 East Junction
Jackson County, Indiana



Sources: 500 250 0 500 Feet
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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KURTZ QUADRANGLE INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)





Aerial Map
 Des. No. 1801032, Small Structure Project
 SR 135, 1.05 Miles North of SR 58 East Junction
 Jackson County, Indiana



Sources: 125 62.5 0 125 Feet
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

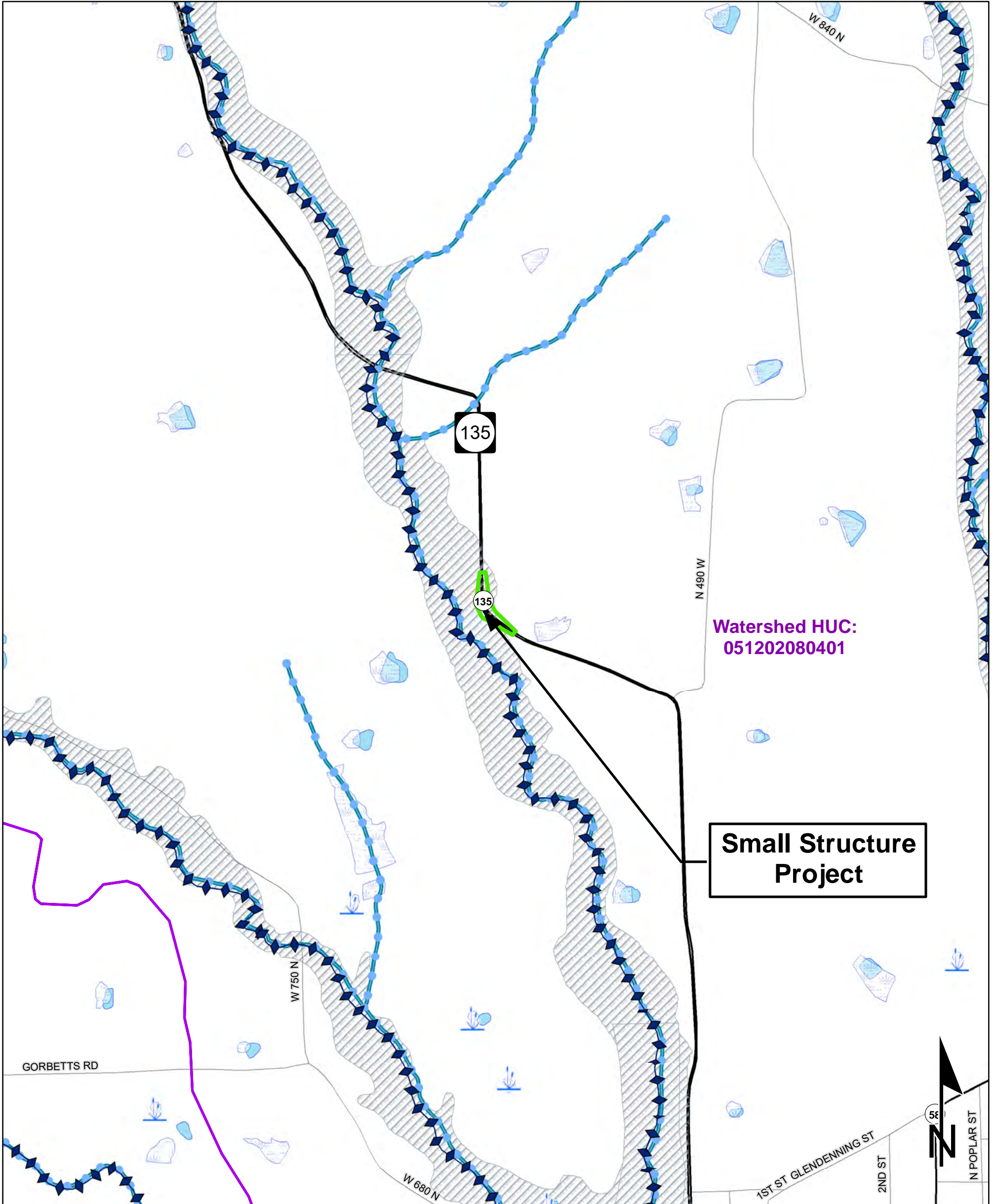
	Flow Direction		Roadside Ditch
	Tributary		Investigative Area

Water Resources Map

Des. No. 1801032, Small Structure Project

SR 135, 1.05 Miles North of SR 58 East Junction

Jackson County, Indiana

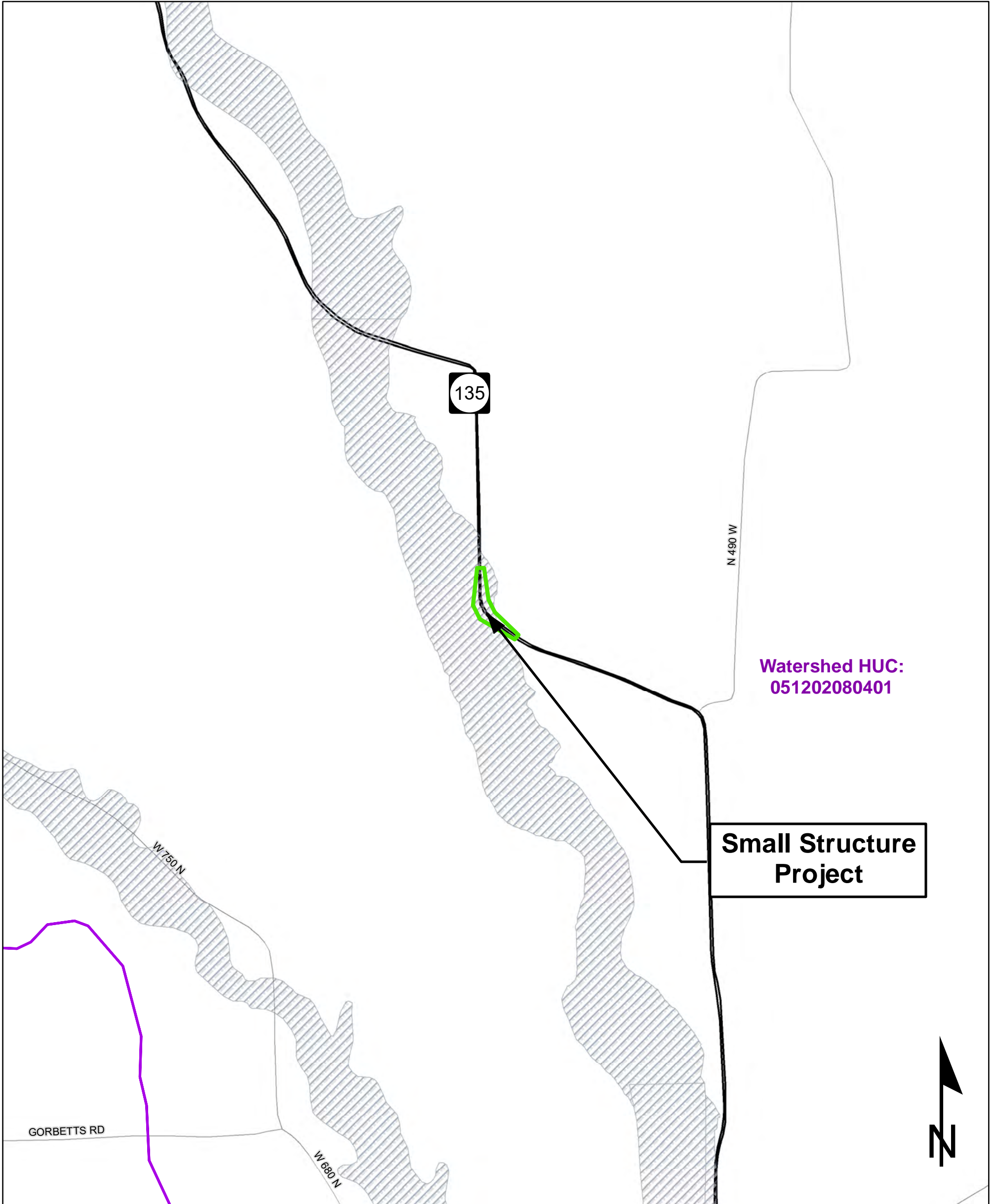


Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

<ul style="list-style-type: none"> NWI - Point Karst Spring NWI - Line Impaired_Stream_Lake NPS NRI listed River Canal Structure - Historic Canal Route - Historic 	<ul style="list-style-type: none"> Wetlands Lake Floodplain - DFIRM Cave Entrance Density Sinkhole Area Sinking-Stream Basin County Boundary 	<ul style="list-style-type: none"> Toll Interstate State Route US Route Local Road Watershed Boundary
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FEMA / FIRM Map
Des. No. 1801032, Small Structure Project
SR 135, 1.05 Miles North of SR 58 East Junction
Jackson 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
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

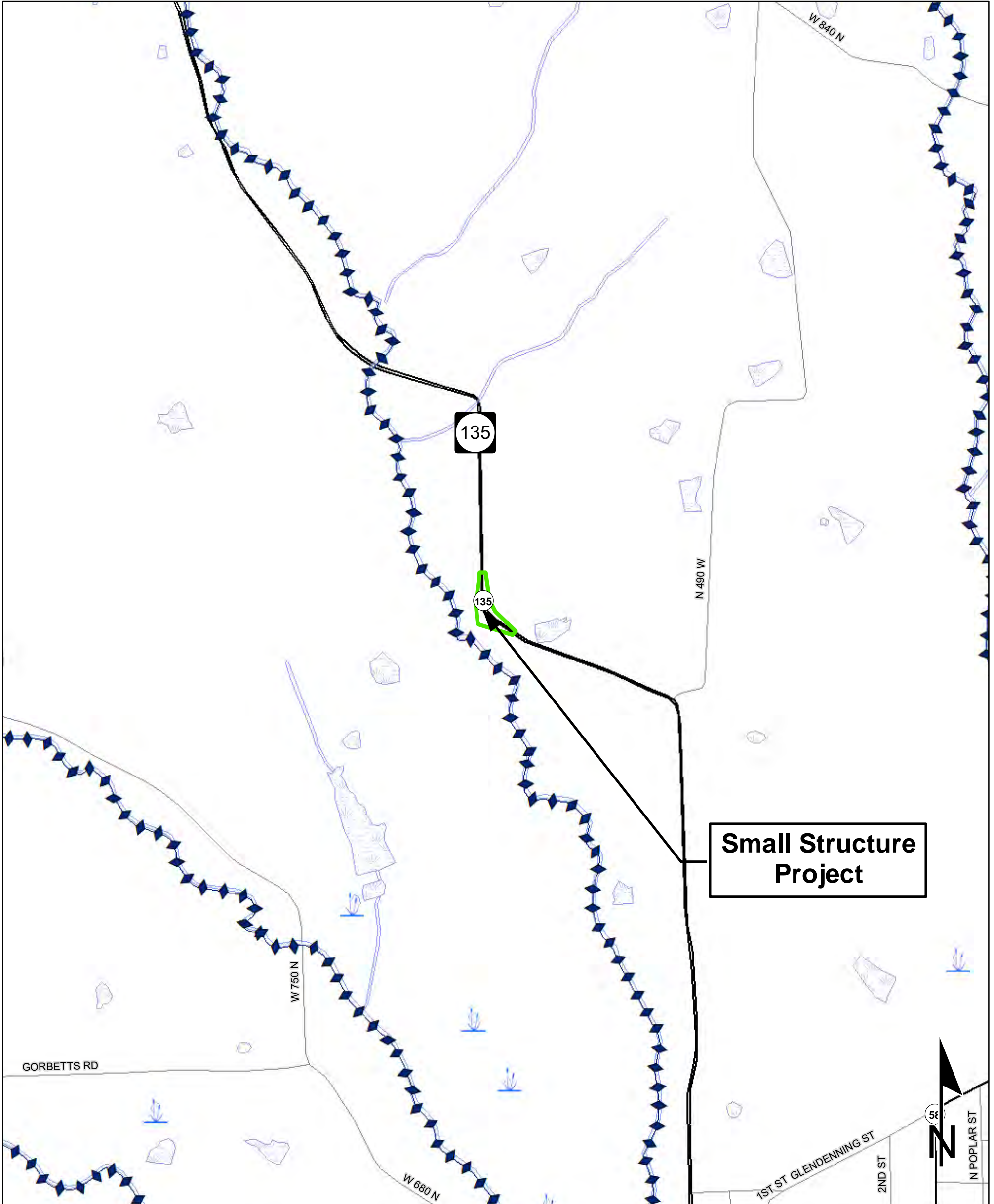
Legend	
	Toll
	Interstate
	State Route
	US Route
	Local Road
	Floodplain - DFIRM
	Watershed Boundary

NWI Features

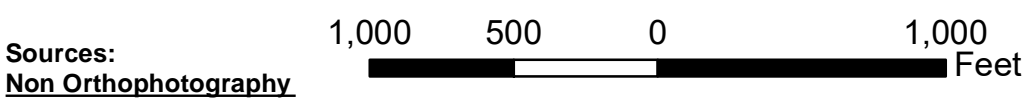
Des. No. 1801032, Small Structure Project

SR 135, 1.05 Miles North of SR 58 East Junction

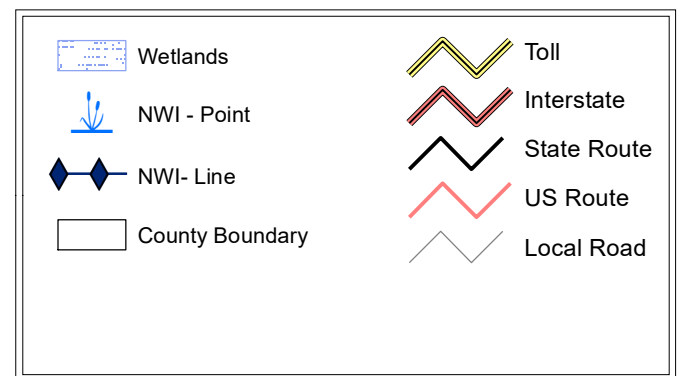
Jackson County, Indiana



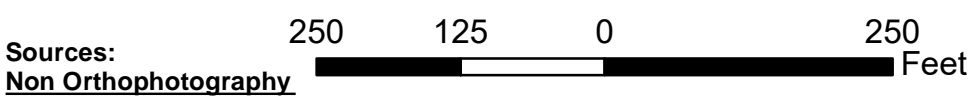
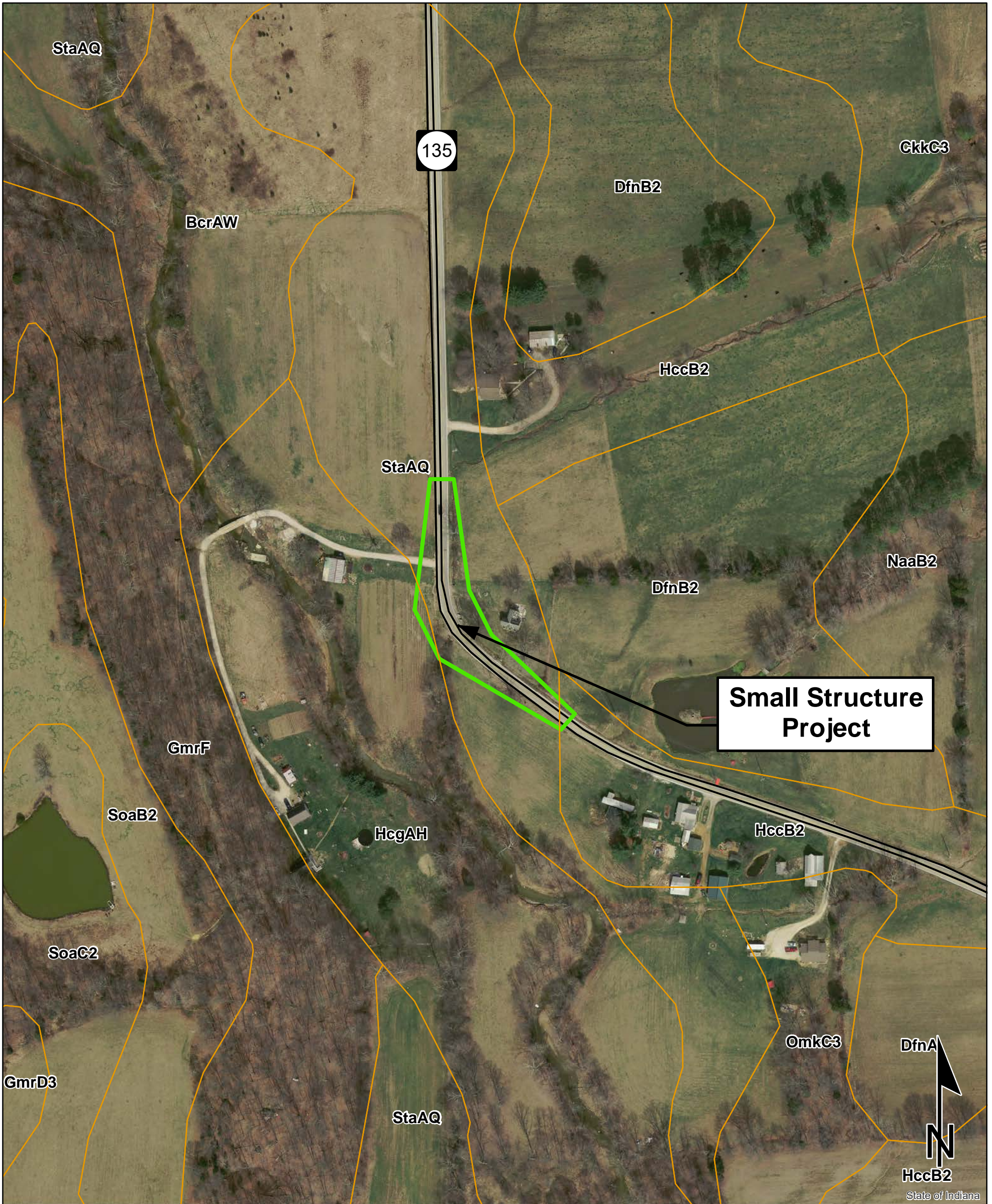
Small Structure Project



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



Soils Map
 Des. No. 1801032, Small Structure Project
 SR 135, 1.05 Miles North of SR 58 East Junction
 Jackson County, Indiana



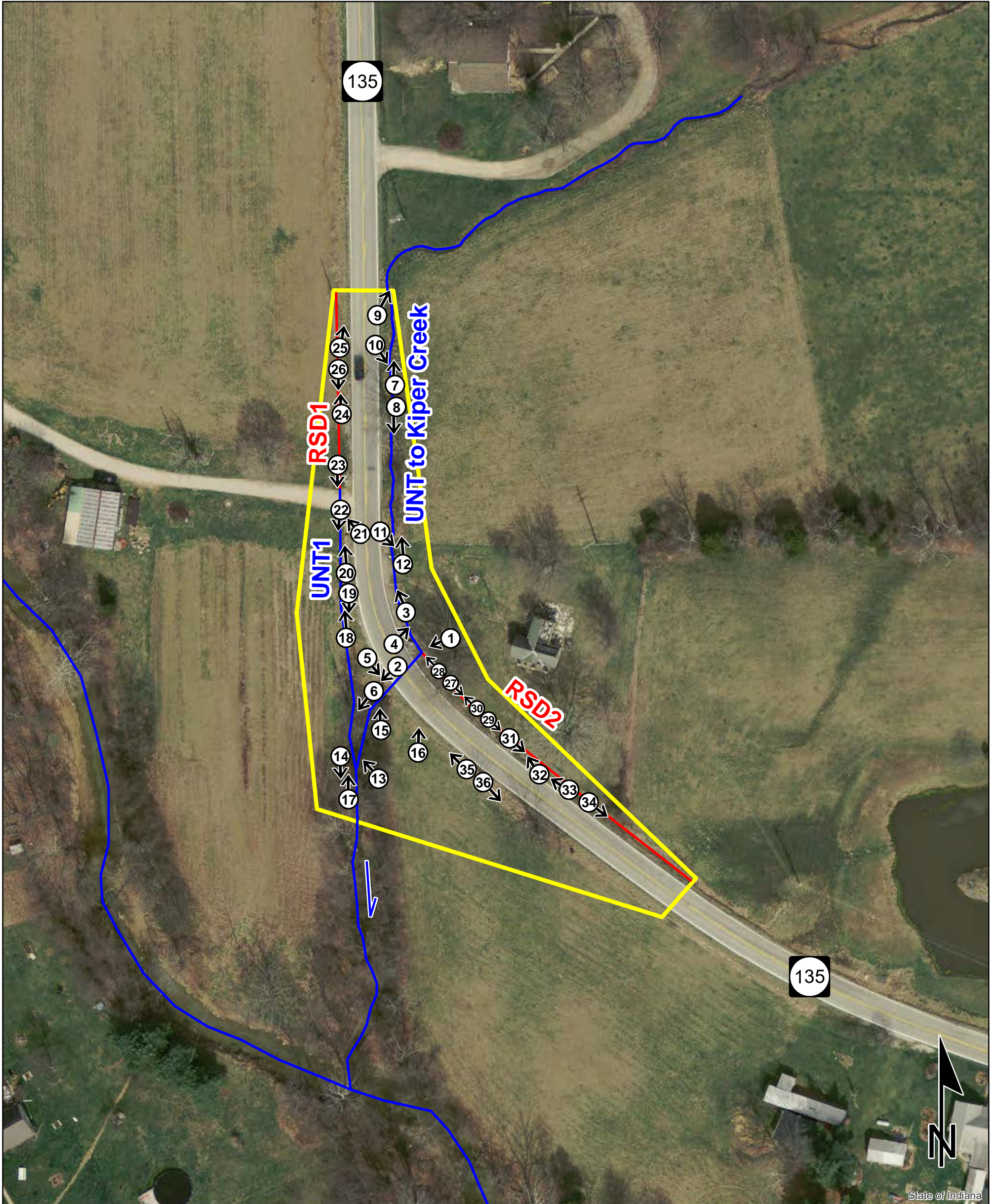
Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

**NRCS
SOILS DATA**

Legend
 HccB2 - Haubstadt Silt Loam (0% Hydric)
 HcgAH - Haymond Silt Loam (0% Hydric)
 StaAQ - Steff Silt Loam (2% Hydric)





Photo Key Map
 Des. No. 1801032, Small Structure Project
 SR 135, 0.93 Miles North of SR 58 East Junction
 Jackson County, Indiana



Sources: 100 50 0 100 Feet
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		Roadside Ditch
	Tributary		Investigative Area

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 1—UNT to Kiper Creek; southwest view; 16 Oct 19.



Picture 2—UNT to Kiper Creek, southwest view; 16 Oct 19.



Picture 3—UNT to Kiper Creek; northwest view; 16 Oct 19.



Picture 4—UNT to Kiper Creek; northeast view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 5—UNT to Kiper Creek; southeast view; 16 Oct 19.



Picture 6—UNT to Kiper Creek; southwest view; 16 Oct 19.



Picture 7—UNT to Kiper Creek; north view; 16 Oct 19.



Picture 8—UNT to Kiper Creek; south view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 9—UNT to Kiper Creek; northeast view; 16 Oct 19.



Picture 10—UNT to Kiper Creek; southeast view; 16 Oct 19.



Picture 11—UNT to Kiper Creek; southeast view; 16 Oct 19.



Picture 12—UNT to Kiper Creek; north view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 13—UNT to Kiper Creek; northwest view; 16 Oct 19.



Picture 14—UNT to Kiper Creek; south view; 16 Oct 19.

OHWM: 38.985991
-86.139479



Picture 15—UNT to Kiper Creek; north view; 16 Oct 19.



Picture 16—Southwest quadrant; north view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 17—UNT₁; north view; 16 Oct 19.



Picture 18—UNT₁; north view; 16 Oct 19.



Picture 19—UNT₁ ; south view; 16 Oct 19.



Picture 20—UNT₁; north view; 16 Oct 19.

OHW: 38.986249
-86.139528

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 21—UNT1; northwest view; 16 Oct 19.



Picture 22—UNT1; south view; 16 Oct 19.



Picture 23—RSD1 pipe; south view; 16 Oct 19.



Picture 24—RSD1; north view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 25—RSD1; north view; 16 Oct 19.



Picture 26—RSD1, south view; 16 Oct 19.



Picture 27—RSD2 , southeast view; 16 Oct 19.



Picture 28— RSD2; northwest view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 29—RSD2; southeast view; 16 Oct 19.



Picture 30—RSD2; northwest view; 16 Oct 19.



Picture 31—RSD2, southeast view; 16 Oct 19.



Picture 32—RSD2 , northwest view; 16 Oct 19.

DES 1801032 Waters of the U.S. Determination Report—Photo Log



Picture 33—Southeast quadrant, northwest view; 21 APR 2020.



Picture 34—Southeast quadrant, southeast view; 21 APR 2020.



Picture 35—Southwest quadrant, northwest view; 16 Oct 19.



Picture 36—Southwest quadrant, southeast view; 16 Oct 19.

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 9/15/20

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Kirk Roth

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The project (DES 1801032) is on SR 135, 0.93 mile north of SR 58 at structure CV 135-036-75.70 and is a culvert replacement. The existing structure will be removed and replaced with a new four-sided box culvert. Approximately 125 feet of UNT to Kiper Creek on the east side of the road will need to be relocated. Construction is expected to begin in 2023 and last approximately 3 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: Jackson City: Freetown

Center coordinates of site (lat/long in degree decimal format):

Lat.: 38.986056 Long.: -86.139361

Universal Transverse Mercator: 16S 574539.46 m E 4315581.42 m N

Name of nearest waterbody: UNT to Kiper 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)
UNT to Kiper Creek	38.986056 ⁺	-86.139361	394 l.f.	non-wetland waters	Section 404, non-wetland
UNT1	38.986107 ⁺	-86.139508	100 l.f.	non-wetland waters	Section 404, non-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 Kurtz
- Natural Resources Conservation Service Soil Survey. Citation: NRCS Soil Survey - Jackson County
- National wetlands inventory map(s). Cite name: USFWS-NWI V2 Wetland Mapping for SR 135, 0.93 mile north of SR 58
- State/local wetland inventory map(s): _____
- FEMA/FIRM maps: Jackson 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 - Oct 16, 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.

Signature and date of
Regulatory staff member
completing PJD

Kirk Roth Digitally signed by Kirk Roth
Date: 2020.09.15 12:49:04 -04'00'

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 1801032

NOTICE OF SURVEY
October 18, 2019

Re: Jackson County, Indiana
SR 135 Small Structure
Replacement Project
Des. No. 1801032

Dear Property Owner:

Our information indicates that you own or occupy property near this proposed small structure replacement 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 permitted by law per 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 it is occupied by someone else, 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 it is determined that your property is involved, you will be contacted with additional information.

The survey work will include mapping the location of features such as trees, buildings, fences and drives, and obtaining ground elevations. The survey is needed for the proper planning and design of this small structure replacement project. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please speak to our field crew or contact me at the telephone number or address shown above.

Sincerely,

BEAM, LONGEST AND NEFF, L.L.C.



Edward J. Sweetland, P.L.S.
Survey Department Manager

xc: 190103

APPENDIX H

Air Quality

DES 1801032

SPONSOR	CONTR ACT # / 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	40998 / 2000302	A 22	SR 135	Bridge Deck Overlay	over Kiper Creek, 02.49 N SR 58	Seymour	0	STBG	\$1,298,547.00	Bridge Construction	CN	\$934,837.60	\$233,709.40					\$1,168,547.00
										Bridge Consulting	PE	\$96,000.00	\$24,000.00		\$120,000.00			
										Bridge ROW	RW	\$8,000.00	\$2,000.00		\$10,000.00			
Comments:																		
No MPO. Add PE phase of \$120,000 in 2021 and add RW phase of \$10,000 in 2021. CN of \$1,168,547 illustrative of FY 2024. AQC exempt 6/3/2020.																		
Indiana Department of Transportation	40998 / 2000302	A 25	SR 135	Bridge Deck Overlay	over Kiper Creek, 02.49 N SR 58	Seymour	0	STBG	\$1,298,547.00	Bridge Consulting	PE	\$96,000.00	\$24,000.00		\$120,000.00			
										Bridge ROW	RW	\$8,000.00	\$2,000.00		\$10,000.00			
Comments:																		
No MPO. Add PE phase of \$120,000 in 2021. Add RW phase of \$10,000 in 2021. Air Quality exempt on 6/30/2020. (includes baby des 1800352).																		
Indiana Department of Transportation	41258 / 1298633	Init.	SR 258	Sight Distance Improvement	From Base Road to County Rd 100 E	Seymour	.994	STPBG		Safety Construction	CN	\$1,694,090.40	\$423,522.60		\$2,117,613.00			
Indiana Department of Transportation	41282 / 1800642	Init.	I 65	ITS Traffic Management Systems	CCTV/DMS from 2.6 miles south of SR 56 to US 31 (Exit 76)	Seymour	50.953	NHPP		Statewide Construction	CN	\$3,217,890.60	\$357,543.40			\$3,575,434.00		
										Statewide Consulting	PE	\$292,500.00	\$32,500.00		\$325,000.00			
Seymour	41382 / 1801601	Init.	ST 1025	Road Reconstruction (3R/4R Standards)	Reconstruction of Airport Road from G Ave to US50	Seymour	.9	STPBG		Group III Program	CN	\$1,112,400.00	\$0.00	\$1,112,400.00				
										Local Funds	CN	\$0.00	\$278,100.00	\$278,100.00				
Seymour	41382 / 1801601	M 02	ST 1025	Road Reconstruction (3R/4R Standards)	Reconstruction of Airport Road from G Ave to US50	Seymour	.9	STBG	\$2,012,156.00	Local Funds	CN	\$0.00	\$148,618.55	\$148,618.55				
										Group III Program	CN	\$594,474.20	\$0.00	\$594,474.20				
Comments: Adding CN Phase for \$743,092.75 FY 2020. No MPO																		
Indiana Department of Transportation	41445 / 1800276	Init.	SR 250	Bridge Replacement, Concrete	1.5 mi W of SR 11, at Horse Lick Creek	Seymour	0	STPBG		Bridge Construction	CN	\$3,290,758.40	\$822,689.60					\$4,113,448.00
										Bridge Consulting	PE	\$837,760.00	\$209,440.00	\$1,028,000.00				\$19,200.00
										Bridge ROW	RW	\$96,000.00	\$24,000.00		\$120,000.00			
Indiana Department of Transportation	41458 / 1800287	Init.	SR 135	Replace Superstructure	2.68 mi N of SR 58, at Branch Kiper Creek	Seymour	0	STPBG		Bridge Construction	CN	\$2,985,464.00	\$746,366.00					\$3,731,830.00

Indiana Department of Transportation (INDOT)
 State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT # / 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	41458 / 1800287	Init.	SR 135	Replace Superstructure	2.68 mi N of SR 58, at Branch Kiper Creek	Seymour	0	STPBG		Bridge Consulting	PE	\$1,058,320.00	\$264,580.00	\$1,310,000.00			\$12,900.00		
										Bridge ROW	RW	\$112,000.00	\$28,000.00		\$140,000.00				
Indiana Department of Transportation	41582 / 1700162	Init.	US 50	Truck/Auxiliary Lane Construction	At the intersection of CR 1225 E	Seymour	0	NHPP		Mobility Construction	CN	\$605,256.80	\$151,314.20				\$756,571.00		
										Mobility ROW	RW	\$44,000.00	\$11,000.00		\$55,000.00				
Seymour	41927 / 1802875	A 07	ST 2663	Signs, Lighting, Signals And Markings	Signals at West 2nd Street and Walnut Street and West 2nd Street and Chestnut Street	Seymour	.02	STBG	\$11,900,000.00	Group III Program	PE	\$1,800,000.00	\$0.00	\$1,800,000.00					
										Group III Program	RW	\$122,480.00	\$0.00		\$122,480.00				
										Group III Program	CN	\$7,608,720.00	\$0.00		\$195,920.00			\$7,412,800.00	
										Local Funds	PE	\$0.00	\$450,000.00	\$450,000.00					
										Local Funds	RW	\$0.00	\$30,620.00		\$30,620.00				
Local Funds	CN	\$0.00	\$1,899,380.00		\$46,180.00			\$1,853,200.00											
Comments:Amending all phases. PE Phase \$2,250,000 FY 2020. RW Phase \$153,100 FY 2021. CN Phase \$9,508,100 FY 2024. No MPO. Air Quality Requirements Completed.																			
Indiana Department of Transportation	42080 / 1900713	A 04	US 50	Bridge Deck Overlay	00.05 mile E of SR 135 over Wayman Ditch.	Seymour	0	NHPP	\$943,779.00	Bridge Consulting	PE	\$96,000.00	\$24,000.00	\$120,000.00					
										Bridge Construction	CN	\$659,023.20	\$164,755.80			\$823,779.00			
Comments:Amend PE in FY 2020 and CN in FY 2022 to the current STIP. No MPO. AQ completed. Project determined AQ exempt. Project included in ICG consultation request dated 8-13-19 and closing 8-21-19																			
Indiana Department of Transportation	42111 / 1900715	A 04	US 31	Bridge Thin Deck Overlay	00.75 mile N of I-65 over Drainage Ditch	Seymour	0	STBG	\$1,493,838.00	Bridge Construction	CN	\$875,070.40	\$218,767.60			\$1,093,838.00			
										Bridge Consulting	PE	\$320,000.00	\$80,000.00	\$400,000.00					
Comments:Amend PE phase in FY 2020 and CN phase in FY 2022 to current STIP. No MPO. AQ completed. Project determined AQ exempt. Project included in ICG consultation request dated 8-13-19 and closing 8-21-19																			
Indiana Department of Transportation	42216 / 1900056	A 04	I 65	Replace Superstructure	01.78 miles S of US 50 @ Sandy Branch SBL	Seymour	0	NHPP	\$5,581,601.00	Bridge Construction	CN	\$4,152,240.90	\$461,360.10					\$4,613,601.00	
										Bridge Consulting	PE	\$802,800.00	\$89,200.00	\$720,000.00				\$172,000.00	
										Bridge ROW	RW	\$68,400.00	\$7,600.00			\$76,000.00			

*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 1801032

Culvert Inspection Report

CV 135-036-75.70

SR 135

over



Inspection Date: 04/16/2020

Inspected By: Chris Everman

Inspection Type(s): Culvert

Inspector: Chris Everman
Inspection Date: 04/16/2020

Structure Number: 93006145
Facility Carried: SR 135

Culvert Inspection Report

Executive Summary

The culvert is to be replaced under Contract B-41458, des # 1801032, due to let on 7/13/2022.

Large Culvert Inspection Report

(8) Asset Code:	93006145	(27) Year Built:	0000
Asset Name:	CV 135-036-75.70	(90) Inspection Date:	04/16/2020
OLD Culvert ID:	135-36-75.70	(91) Inspection Frequency:	12
Team Assignment:	05	<input type="checkbox"/> Additional Treatment Exists	

Identification

(2) Highway Agency District:	05	(3) County Code:	036
Sub District:	5300	Ramp ID:	
(42B) Type of Service (Under):	5	<input type="checkbox"/> Adjacent to Roadway	
(7) Facility Carried:	SR 135	(6) Features Intersected:	
(9) Location:	1.05 N JCT SR135/SR58	(9.01) Location Additional Description:	
(11) Milepoint:	20.01	(16) Latitude:	38.98545
		(17) Longitude:	-86.13834
Classification:			
(104) Highway System of the Inventory Route:	0	(26) Functional Classification of Inventory Route:	02

Geometric Data

Culvert: Kind of Material:	Culvert: Type of Structure:	Min Est Fill Cover (ft):	2.00
Culvert: Max. Horizontal Opening (ft.):	Culvert: Max. Vertical Opening (ft.):	(34) Skew:	
Barrel Length (ft.):	Original Culvert Shape:		Elliptical

Measurement Remarks:

Structure Additional Description: *Corrugated Metal Pipe Twin Pipes*

Openings:

Direction	Opening Latitude	Opening Longitude	Direction	Opening Latitude	Opening Longitude
1.			3.		
2.			4.		

Openings Comments:

Follow Up Required:

**If checked, please describe for follow up:

Endangered Species

Bats: seen or heard under structure? *	<i>N - No evidence of bats</i>
Birds/swallows/nests seen? Empty nests present?	<i>N - No Birds and/or Nests Visi</i>

* If yes, add one photo to the dropdown field

General Condition Ratings

(36A) Bridge Railings:	N	(36C) Approach Guardrail:	N
(36B) Transitions:	N	(36D) Approach Guardrail Ends:	N

Culvert:

(62) Culvert - Rating: 4

(62) Culvert Rating Comments: *The south pipe is sagging at the joint about 20' in heavy corrosion and pitting in on the invert of both pipes. There are holes in the invert on the east end of the south pipe. Scour on the west end of the channel at the outlet for the pipes.*

Deck:

(58) Deck: N

(58a) Deck Comments:

Superstructure:

(59) Superstructure: N

(59.01) Superstructure Comments:

Substructure:

(60) Substructure: N

(60.01) Substructure Comments:

CV-Headwall/Anchor Rating 4

CV-Wingwalls Rating N

Channel:

(61) Channel and Channel Protection: 5

(61.01) Channel and Channel Protection Comments: *Scour on the west end of the channel at the outlet for the pipes. The embankments are protected by grouted rip rap.*

Bank Erosion Rating: 5

Drift/Sediment Rating: 7

Channel Alignment Rating: 5

Check this box if culvert has OBSTRUCTED flow

Describe Obstruction:

Overtopping Frequency: 3

Overtopping Frequency Comments:

Inspector: Chris Everman
Inspection Date: 04/16/2020

Structure Number: 93006145
Facility Carried: SR 135

Culvert Inspection Report

Pictures



PHOTO 1 Elevation, Condition

Description Side facing East



PHOTO 2 Condition

Description Holes in Invert South Pipe East End

Inspector: Chris Everman
Inspection Date: 04/16/2020

Structure Number: 93006145
Facility Carried: SR 135

Culvert Inspection Report

Pictures



PHOTO 3 Condition
Description Inside North Pipe facing West



PHOTO 4 Elevation, Condition
Description Side facing West

Inspector: Chris Everman
Inspection Date: 04/16/2020

Structure Number: 93006145
Facility Carried: SR 135

Culvert Inspection Report

Pictures



PHOTO 5 Condition
Description Roadway facing South



PHOTO 6 Condition
Description Inside South Pipe facing West

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated July 2020)

ProjectNumber	SubProjectCode	County	Property
1800171	1800171BB	Jackson	Starve Hollow
1800230	1800230	Jackson	Jackson-Washington State Forest and Starve Hollow
1800305	1800305C	Jackson	Starve Hollow State Recreation Area
1800327	1800327J	Jackson	Starve Hollow State Recreation Area
1800363	1800363EE	Jackson	Starve Hollow State Recreation Area
1800447	1800447	Jackson	Starve Hollow State Recreation Area

*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>

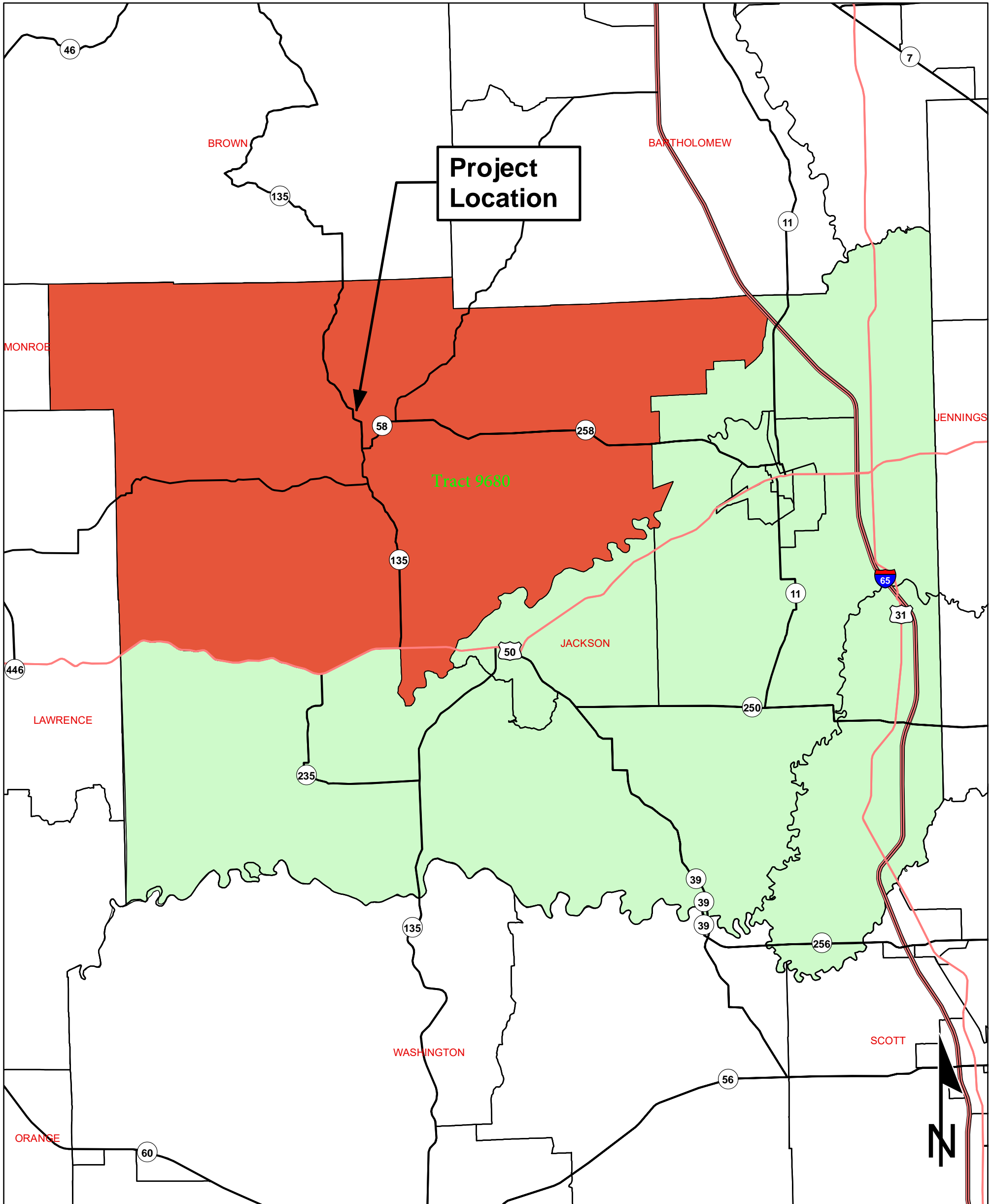
Community of Comparison (COC) and Affected Community (AC) Data for DES 1801032

	Jackson County, Indiana (COC)	Census Tract 9680, Jackson County, Indiana (AC)
Label	Estimate	Estimate
Total Race Population Sample:	43,938	5,153
Non-Hispanic White alone	38,994	5,059
Not Non-Hispanic White alone	4944	94
% Minority	11.25	1.82
125%COG	14.07	< 125% COG
Total Poverty Population Sample:	42,849	4,967
Income Below Poverty Status	6,268	675
% Below Poverty Status	14.63	13.59
125%COG	18.29	<125% COG

Source

<https://data.census.gov/cedsci/>

Environmental Justice Map
 Des. No. 1801032, Small Structure Project
 SR 135, 0.93 Miles North of SR 58 East Junction
 Jackson County, Indiana



Sources: 4 2 0 4
 Non Orthophotography Miles

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.

Census Tracts 2011

- Other Tracts
- Affected Community
- Community of Comparison