| nty _J | asper | Route SR | . 114 | Des. No1701512 | | | |
|---|--|---|--|--|--|--|--|
| CA | TEGORICAL EX | CLUSION / EN | vironmental Document VIRONMENTAL | ASSESSMENT FORM | | | |
| Road | l No./County: | State Road (SI | R) 114/Jasper | | | | |
| Desig | gnation Number: | 1701512 | | | | | |
| After co | ect Description/Termionpleting this form, I conclusion approve if Level 4 CE): | (UNT) to Iroq structure (CV to a point 190 370.5 feet. | uois River in Jasper 114-037-21.00), the pr .3 feet east and 180.2 | SR 114 over unnamed tributary County. From the center of the oject limits extend along SR 114 feet west for a total distance of Categorical Exclusion (FHWA must | | | |
| X | | | | eria for Categorical Exclusion Manual nvironmental Scoping Manager) | | | |
| | | | | eria for Categorical Exclusion Manual S (Environmental Services Division) | | | |
| Categorical Exclusion, Level 4 – The proposed action meets the criteria for Categorical Exclusion Level 4 - table 1, CE Level Thresholds. Required Signatories: ESM, ES, FHWA | | | | | | | |
| | | | uire a separate FONSI. A nvironment. Required Sign | dditional research and documentation atories: ES, FHWA | | | |
| | or documents prepared by or for o release for public involvemen | | sion, it is not necessary for the E | SM of the district in which the project is | | | |
| Appro | val ESM Signature | Date | ES Signature | Date | | | |
| | _ | FHWA Signature | Date | | | | |
| | e for Public Involvemen | t | | | | | |
| N/ | Ά | | | 7-9-2020 | | | |
| ESM | Initials | Date | ES Initials | Date | | | |
| Certifi | cation of Public Involve | Office of Public | Involvement Da | te | | | |
| Note: D | o not approve until after Sec | ction 106 public involvement | ent and all other environment | al requirements have been satisfied. | | | |
| | FES/District Env. ver Signature: | | Date: | | | | |
| Name a | and Organization of CE/EA er: | Brenten Reust, Loch | nueller Group | | | | |
| is pag | e 1 of 23 Project name | SR 114 Small Struc | eture Replacement Project | Date: June 24, 2020 | | | |

| County | Jasper | Route | SR 114 | Des. I | No. <u>1701512</u> | |
|--|--|--|---|---|---|--------------------------------|
| | | Part I - PUE | BLIC INVOL | VEMENT | | |
| | | | | arly and continuous opp surate with the propos | | phout the projec |
| If N | es the project have a hi o, then: Opportunity for a Public | storic bridge processed Hearing Required? | under the Historic | Bridges PA*? | No X | |
| | ring is required for all h), and the ACHP. | istoric bridges process | ed under the Histo | oric Bridges Programma | tic Agreement l | petween INDOT |
| meetings, spe Remarks: | Notice of Entry: Notice of Entry lette 19, 2018 notifying the may be seen in the a G2. Public Involvement: The project will mee which requires the predict involvement. for public involvement. Therefore, a for public involvement. | rs were mailed to poter the management of the minimum requires to the minimum requires roject sponsor to offer the legal notice will appear to the minimum to offer the legal notice will appear to the minimum to offer the legal notice will appear to the minimum to offer the legal notice will appear to the minimum to offer the legal notice will appear to the minimum to offer the legal notice will appear the minimum to offer the legal notice will appear the minimum to offer the legal notice will appear the minimum to offer the legal notice will appear the legal no | ntially affected product that individuals at the Notice of Entrements described in the public an opportrin a local publication be revised after the | or this project. operty owners within the responsible for land survey letter is included in A the current INDOT Puttunity to submit commentation contingent upon the public involvement report natural resource impa | e project area or veying and field Appendix G, pay blic Involvement and/or request release of this of equirements are | n October activities ges G1 to |
| Remarks: | - | | | rning impacts to the cor | | atural |
| Sponsor of Local Name Funding Sc | the Project: e of the Facility: burce (mark all that app selected, please identify | Indiana Department of SR 114 ly): Federal X | • | | esign Info | |
| This is pa | age 2 of 23 Project n | ame: SR 114 Small | l Structure Replacen | nent Project | _ Date:June | e 24, 2020 |

| | _ | | _ | | - | | | |
|---|--|---|---|---|---|--|---|--|
| County | Jasper | | Route | SR 114 | <u></u> | Des. No | o. <u>17</u> 0 | 01512 |
| PURPOS | SE AND NEED: | : | | | | | | |
| in this section | transportation pr n. (Refer to the 0 | | | ess. The solution pose and Need) | to the traffic μ | problem shou | ıld NOT | be discussed |
| in July 20 approxima which is c | O19 (Appendix Jately 3 feet of sco | J, J2 to J14), ruour under the wa condition. Cond | asting near the aterline by the o | ion of the structur waterline and the opening on the sounge from 0 to 9, v | roughout the athside. The s | structure w tructure has | as obse a condit | erved. There is ion rating of 5, |
| structure i | | ondition. Meetir | ng the purpose of | the structure to a of the project will ions. | | | | |
| PROJEC | T DESCRIPTION | ON (PREFER | RED ALTERN | ATIVE): | | | | |
| County: | Jasper | | Municipa | ality: Rensselae | • | | | |
| Limits of P | roposed Work: | | | CV 114-037-21.00 st for a total distance | | | ong SR | 114 to a point |
| Total Work | c Length: | 0.07 Mile | e(s) | Total Work | Area: | 0.6 A | cre(s) | |
| If yes, whe | en did the FHWA IJS is required; a | grant a condition | nal approval for | ation Study (IMS/ r this project? document must be | | | Yes ¹ Date: | No X |
| preferred alte improve safe The Feder | ks box below, des ernative. Include ty or roadway de ral Highway Ad | e a discussion of eficiencies if thes ministration (FI | logical termini. se are issues. HWA) and the | de in detail the sc Discuss any maj INDOT LaPorte carrying SR 114 | or issues for to | the project and to proceed | nd how t | the project will a federal-aid |
| Marion To | | Section 26, Tow | | 9 miles east of U , Range 4 West, | | | | |
| Within the of two 12-posted spe corrugated in July 20 | foot wide travel eed limit is 35 n metal pipe (CN 19, rust through | lanes (one in entire per hour. The AP) with a 6.5-frout the structure | ach direction) where existing small coot span and a ce and sediment | as a rural minor a with 5-foot paved hall structure (CV 5-foot height. Du gathering on the puring at the outle | shoulders on 114-037-21. ring the IND floor of the s | either side (0.00) is an 85 OT routine is structure was | of the ro s-foot lo nspection s observ | oadway. The ong elliptical on occurring ed. There is |
| | page 3 of 23 Pi | roject name: | CD 114 C | Structure Replacen | ant Duniant | | Date: | June 24, 2020 |

| County | Jasper | Route | SR 114 | Des. No. | 1701512 |
|--------|--------|-------|--------|----------|---------|
| | | | | | |

rust along the invert and the south end of the structure has undermining. Adjacent land use consists of agricultural fields and residential properties.

Preferred Alternative:

The project will replace the existing CMP with a new reinforced concrete box (RCB) that is 92 feet long and has a 5-foot span and a 5-foot height. The roadway section will consist of two 12-foot wide travel lanes (one in each direction) with 6-foot wide paved shoulders on either side of the roadway. Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed structure will be reconstructed and the approach pavement 138 feet west and 138 feet east of the new structure will be milled 1.5 inches and a 1.5-inch thick hot mix asphalt (HMA) overlay will be applied. The project will involve the installation of 243.75 feet of guardrail on the north side or SR 114 and 250 feet of guardrail on the south side. The guardrail on both sides of SR 114 will be installed in a section of compacted aggregate that is 2-foot wide and transitions from the paved shoulders. A re-graded side ditch, 190 feet in length, will be lined with riprap for 90 feet to the west from its connection with UNT to Iroquois River. The re-graded side ditch will be constructed in the southwest quadrant of the project area.

The total length of the project, including incidental construction is 370.5 feet (0.07 mile). Please refer to Appendix B for maps depicting the project area (B1 to B4), photographs of the project area (B5 to B10), and the Preliminary Design Plans (B11 to B20).

The termini of the project provide the logical beginning and end point necessary to complete the small structure replacement and to transition the roadway project back to the existing approaches. The project is independent of any other action and able to be constructed without relying on the completion of any other project.

Every effort to avoid, minimize, and/or mitigate project impacts will be made.

Maintenance of Traffic (MOT):

The MOT will maintain traffic along SR 114 during construction using phased lane shifts (Appendix B, B17 to B18) Temporary traffic signals will be utilized to facilitate traffic through the construction area. Please refer to the *Maintenance of Traffic* section of this document for full details. The MOT will be implemented per the *Indiana Design Manual* guidelines.

Right-of-Way (ROW):

The project will require the acquisition of 0.61 acre of permanent right-of-way and 0.60 acre of temporary right-of-way (Appendix B, B3). No relocations will be required. Approximately, 0.15 acre would be considered for tree clearing.

Purpose and Need:

This project meets the purpose and need by improving the condition of the structure to a condition rating of 9, which exceeds the goal of a condition rating of at least 8. By replacing the structure, the identified deficiencies will be addressed and a sufficient crossing for continued vehicular operations provided.

OTHER ALTERNATIVES CONSIDERED:

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

<u>Pipe Lining:</u> This alternative would involve lining the existing structure along SR 114 over UNT to Iroquois River. Using a pipe liner on the structure is not practical due to the advanced deteriorating condition of the structure. Additionally, lining the structure will result in a reduction in overall capacity of the pipe, while the outlet velocity will increase. Lining the structure would not likely meet the purpose and need of bringing the condition rating of the structure to at least an 8. Therefore, this alternative was discarded from further consideration.

<u>No Build Alternative:</u> This alternative involves no improvements to CV 114-037-21.00. While this alternative eliminates costs and any environmental impacts, it would not have met the objectives of the purpose and need of the project. Therefore, this alternative was discarded from further consideration.

| This is page 4 of 23 Pr | oject name: | SR 114 Small Structure Replacement Project | Date: | June 24, 2020 |
|-------------------------|-------------|--|-------|---------------|
| | | | | |

| County Jasper | Route _ | SR 114 | Des. No1701512 |
|--|---|--|---|
| It would not correct existing of the would not correct existing of the would not correct the existing of the would not correct exists and the would not correct ex | capacity deficiencies; safety hazards; ng roadway geometric deficien deteriorated conditions and mai | | X |
| ROADWAY CHARACTER | ₹: | | |
| Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph): | Minor Arterial 4,911 VPD (2022 563 Truck Percenta Legal Speed (I | age (%) 16.17 mph): 35 | 11 VPD (2042) |
| | Existing | Proposed | |
| Number of Lanes: Type of Lanes: Pavement Width: Shoulder Width: Median Width: Sidewalk Width: | 2 | 2 Through lanes 36 ft. 6 ft. N/A ft. N/A ft. | |
| Setting: Topography: f the proposed action has multi | Urban Suburb X Level Rolling | | <i>y</i> . |
| DESIGN CRITERIA FOR E | BRIDGES: | | |
| Structure/NBI Number(s): | CV 114-037-21.00 | Sufficiency Rating: _5 | , 2019 Inspection Report (Rating, Source of Information) |
| | Existing | Proposed | |
| Remarks: The project a RCB. The the 136 feet | t will replace CV 114-037-21.0 te project will involve a total o et of channel work, 85 feet is p | f 136 linear feet of channel wor reviously encapsulated by the e | es. ver UNT to Iroquois River, with k to UNT to Iroquois River. Of xisting structure. Therefore, the to Iroquois River. (Appendix B, |
| This is page 5 of 23 Pro | ject name: SR 114 Small S | tructure Replacement Project | Date: June 24, 2020 |

| County | Jasper | R | oute | SR 114 | | Des. No. | 1701512 | |
|---|--|---|--|--|--|--|--|---|
| | | ase refer to <i>Streams</i> , <i>Rives</i> for a more detailed di | | | | | | ogical |
| | | ilitated or replaced as pa ultiple bridges or small s | | | hould be filled o | Yes X uut for each stru | No Locture. | N/A |
| MAINTEN | IANCE OF TR | AFFIC (MOT) DURIN | G CON | ISTRUCTION | : | | | |
| Is a tempor Will the pro Provisio Provisio Provisio Will the pro | ons will be made ons will be made ons will be made oposed MOT sul | | ic and sondent but be call special spe | o posted. usinesses. cial events or fe ental conseque | stivals. | | Yes | No |
| Remarks: | construction. (Appendix B to facilitate of be placed at approximatel south half of shoulders. In maintained of inconvenience | Il utilize lane restriction The MOT will occur in B17 to B18). Tempora ne direction of traffic at the intersection of SI y 407 feet east of the s SR 114 while one direc Phase 2 of construction the new section of SI e to traveling motorists on project completion. To | two phory trafficatime of 114 a mall strain of ton, constant 114 cos; however | ases in order to c signals will be through the cor- and East Stree ucture. Phase 1 traffic at a time truction will signstructed in Pheer, no significa | allow traffic to e added to the e estruction area. ' The eastern of construction is maintained on iff to the north lase 1. The lane and delays are a | o continue throweast and west east and west east and west east temporary sign will involve on a 10-foot with side of SR te restriction winticipated, and | ugh the projected of projected of projected mporary signal will be construction ide lane with 114 while trall pose a tenall inconvention | ect area it limits nal will placed i of the in 1-foot affic is inporary niences |
| ESTIMAT | ED PROJECT | COST AND SCHED | ULE: | | | | | |
| Engineerin | g: \$ <u>6,800</u> | (2019) Right- | of-Way: | \$ 250,000 | (2021) Co | onstruction: \$ | 2,389,942 | (2021) |
| Anticipated | Start Date of C | onstruction: Spring | 2021 | | | | | |
| Date projec | ct incorporated i | nto STIP July 2, 201 | 9 | | | | | |
| Is the proje | ect in an MPO A | | o K | | | | | |
| If yes, | | | | | | | | |
| Name of I | <u></u> | | | | | | | |
| | of Project in TIP | | | | | | | |
| Date of in | corporation by r | eference into the STIP | N/A | | | | | _ |
| This is pa | age 6 of 23 P | roject name: <u>SR 11</u> | 4 Small S | Structure Replace | ement Project | Da | ate: June 2 | 24, 2020 |

| County Jasper | Route SR 114 | Des. No. 1701512 |
|---------------|--------------|------------------|
| | | |
| RIGHT OF WAY: | | |

| | Amount (acres) | | | | |
|--|----------------|-----------|--|--|--|
| Land Use Impacts | Permanent | Temporary | | | |
| Residential | 0.10 | 0.20 | | | |
| Commercial | 0.00 | 0.00 | | | |
| Agricultural | 0.36 | 0.15 | | | |
| Forest | 0.15 | 0.00 | | | |
| Wetlands | 0.00 | 0.00 | | | |
| Other: Rensselaer Central School Corporation | 0.00 | 0.25 | | | |
| Other: | 0.00 | 0.00 | | | |
| TO | TAL 0.61 | 0.60 | | | |

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:

Within the project area, the existing ROW typically extends 15 feet in either direction of the roadway centerline to the edge of shoulder for a total width of 30 feet.

The proposed typical ROW width east of the structure will be 100 feet (50 feet either side of the centerline) (Appendix B3, B15, and B19). West of the structure, the typical ROW width will be 85 feet (40 feet north and 45 feet south of the centerline). The maximum ROW width occurs at the structure to be replaced where it reaches a total width of 155 feet wide (75 feet north and 80 feet south of the centerline). The project will require a total of 0.61 acre of permanent ROW; of which 0.10 acre will be required from residential land, 0.36 acre will be required from agricultural land, and 0.15 acre will be required for forest land. The project also requires a total of 0.60 acre of temporary ROW; of which 0.20 acre is from residential land, 0.15 acre is from agricultural land, and 0.25 from Rensselaer Central School Corporation. The temporary ROW is needed for implementation of the MOT. The temporary ROW will revert to the original owners upon completion of the project.

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

<u>Part III – Identification and Evaluation of Impacts of the Proposed</u> <u>Action</u>

| SECTION A – ECOLOGICAL RESOURCES | | | |
|--|-----------------|--------------------------|--|
| | <u>Presence</u> | <u>Impacts</u> Yes No | |
| Streams, Rivers, Watercourses & Jurisdictional Ditches | X | X | |
| Federal Wild and Scenic Rivers | | | |
| State Natural, Scenic or Recreational Rivers | | | |
| Nationwide Rivers Inventory (NRI) listed | | | |
| Outstanding Rivers List for Indiana | | | |
| Navigable Waterways | | | |

This is page 7 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| nty _ | Jasper | Route | SR 114 | Des. | No. | 1701512 |
|-------|---|--|---|--|--|--|
| arks: | Based on a desktop review, a sarea (Appendix B, B3), the USO Flag Investigation (RFI) report There is one stream present with | GS topograph (Appendix E | ic map (Append , E8) there is one | ix B, B2), and the water estream located within t | resour | ces map of the Red |
| | A Waters of the U.S. Determination July 22, 2019. It was determined the project area and west to east U.S. due to the well-defined of River, a Traditionally Navigable 0.1 river mile downstream of the to Iroquois River is not mapped wide and 2 feet, 3 inches deep. Natural, Scenic, and Recreation (USACE) makes all final determinations. | ined that UN st upstream of rdinary high- le Water. UN e project area as a blue line UNT to Iroqual River or a | T to Iroquois Rifthe project are water mark (OF) T to Iroquois Rifthe According to the feature. UNT to uois River is not an IDNR Outs | ver was identified flowing. UNT to Iroquois River (WM) and hydrologic cover connects with Iroquois (1:24,000 scales) Iroquois River has an Olisted as a Federal Wild tanding River. The U.S. | ng nor er is like onnect tois Ri e) topo OHWM and So | th to south through cely a Water of the ion to the Iroquois ver, approximately graphic map, UNT I of 5 feet, 7 inches cenic River, a State |
| | Approximately 136 linear feet area. Of the 136 linear feet, 85 is considered previously impact will amount to 51 linear feet (access activities, vegetation rer channel realignment activities. dewater UNT to Iroquois River | feet is encaps ted. Impacts to 0.02 acre). In moval, riprap Temporary i | sulated by a 6-form the natural champacts to the champacts to the champacts will include mpacts will include. | ot, 6-inch span corrugate unnel of UNT to Iroquoistannel of UNT to Iroquoist excavation to remove the | ed met s River ois Riv he exis | al pipe (CMP) and below its OHWM er will result from sting structure, and |
| | Due to impacts to UNT to In Department of Environmental I required. Impacts to jurisdiction mitigation as part of the IDEM UNT to Iroquois River. | Management onal stream i | (IDEM) Section in excess of 300 | 401 Water Quality Cer linear feet (0.1 acre b | tificati elow | ion (WQC) will be OHWM), requires |
| | Early coordination information Indiana Department of Natural (Appendix C, C1 to C4). The U | Resources - | Division of Fish | and Wildlife (IDNR DI | | |
| | The IDNR DFW responded on vicinity of the project (Appendence crossing structures, utilizing resuspended bottom sediment, IDNR DFW recommendations | lix C, C10 to time of yea and preventin | C12). These re- r restrictions on ng disturbed sedi | commendations include n stream work, minim ment from entering the | selecti izing watery | on of culverts and the movement of way. All applicable |
| | The USACE responded on Nov 404 of the Clean Water Act a provided recommendations to ca floodplain permit prior to con | nd/or Section coordinate wi | n 10 of the Rive th local officials | ers and Harbors Act of and with the IDNR rega | 1899. | The USACE also |
| | An automated letter was gene Applicable recommendations agencies with regards to stream | from the Pro | oposed Roadwa | y Letter include coord | | |

SR 114 Small Structure Replacement Project Date: June 24, 2020

This is page 8 of 23 Project name:

| County | Jasper | | Route | SR 114 | | Des. No. | 1701512 | | | |
|---|--|----------------|-------------------|-----------------|------------------|---------------------------------|-------------------|--|--|--|
| | | | | | | | | | | |
| Other Surfa Reservoirs Lakes Farm Ponds Detention B Storm Wate Other: | 3 | ities | | | Presence | Yes No | | | | |
| Remarks: | Based on a desktop review, site visits on June 27, 2019 by Lochmueller Group, the aerial map of the project area (Appendix B, B3), the USGS topographic map (Appendix B, B2), and the water resource map in the RFI report (Appendix E, E8), there is one other surface water within the 0.5 mile search radius. No other surface waters are present within the project area; therefore, no impacts are expected. The USFWS did not respond to the early coordination letter. The USACE responded on November 15, 2019 but did not provide any recommendation relating to open water features (Appendix C, C36-C37). The IDNR DFW responded on November 14, 2019 but did not provide any recommendation relating to open water features (Appendix C, C10 to C12). An automated letter was generated from the IDEM website on April 2, 2020 (Appendix C, C39 to C47). No recommendations related to open water features apply as there are no open water feature impacts associated | | | | | | | | | |
| | with this project. | | | | | | | | | |
| Wetlands Total wetla | and area: <u>N/A</u> ination has not been | acre(s | | l wetland are | • | Ves N/A acre(wetland area imp | No s) | | | |
| Wetland N | lo. Classification | Total Size | Impacted Acres | Comme | ents | | | | | |
| N/A | N/A | (Acres) N/A | N/A | | | | | | | |
| Mada a da / | Manufacture (Inc.) | | <u> </u> |) Ocumentati | <u>on</u> | ES Appr | oval Dates | | | |
| Wetlands (Mark all that apply) Wetland Determination Wetland Delineation USACE Isolated Waters Determination Mitigation Plan | | | | X | | July 22, 2019 | | | | |
| 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 | o avoid, minimize, ar | nd mitigate i | wetland impac | ts need to be | discussed in the | e remarks box. | | | | |
| This is pa | ge 9 of 23 Project | name: | SR 114 Small | Structure Rep | lacement Project | Da | te: June 24, 2020 | | | |

| | | | ine | aiana | а рера | artment | of Transp | ortation | | | |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|---|
| County _ | Jasper | | | | Route | SR 114 | | | Des. No. | 1701512 | |
| Remarks: | Lochmu report (| ieller G Append | roup, the US | SGS to here a | pograph re nine | nic map (A wetlands l | Wetlands Appendix F, ppendix B, B; ocated within a. | 2), and the | water reso | urce map o | f the RFI |
| | Office of U.S. De | on July 2 termina | 22, 2019 (Aption Report. | pendi: It was | x F, F21 determi |). Please re ned that no | roved by the I fer to Append wetland featu determination | lix F, pages res exist wi | F1 to F21 thin the pro | for the <i>Wat</i> oject area. T | ers of the |
| | but did respond | not prov led on 1 | ide any reco | mmen | dation re | elating to w | on letter. The lettland features | s (Appendix | C, C36-C | 37). The ID | NR DFW |
| | | nendatio | | | | | vebsite on Apr there are no v | | | | |
| | | | | | | | Presence | | <u>Impacts</u> | | |
| Terrestrial Unique or H | | ty Habit | at | | | | X | Ye | s N | o | |
| Use the remarks: | Based of area (A within thistle (0.15 acres) would be terrestristated in and nee | on a desk ppendix the projective Cirsium re woul be consi al habit at the Pu d of this acre thr | top review, at B, B3), the ect area. The arvense). The deep deep deep deep deep deep deep de | site visere is a dominis propered for ained resible beed second propered for a pr | its on Jumaintair nant specific tinvolution tree coordinate ecause to tion of the anticipation and the coordinate ecause to the anticipation of th | ne 27, 2019 ned roadsid cies includ lives approxi- learing, 0.0 , and 0.06 and the propose this docume pates appro- | bacted (i.e. for by Lochmue e, agricultura e reed canary kimately 0.33 and acre of hab acre would be d footprint is sent, is the prefiximately 0.33 5 approval. The | ller Group, all field, shrugrass (Phalacre of group) itat would a considered required to be reduced a core of group acre of grou | and the aer ib habitat, laris arund nd disturba be consided agricultur replace the ative that wand disturband disturband habitative that wand disturband habitative that was a subject to the control of t | ial map of the and residendinacea) and ance. Appropried shrub, al. The avoice structure, will meet the ance, which | he project ntial land d Canada ximately, 0.11 acre idance of which, as e purpose n is below |
| | but did respond C, C10 structur | not prov led on N to C12) e, reveg All appli | ride any reco November 14 . These reco etating all ba | mmends, 2019 mmendare and | dation re with re dations i disturbe | elating to w ecommenda nclude kee ed areas, an | on letter. The lettland features tions pertaining ping condition d minimizing cluded in the I | s (Appendix ng to terres ns favorable clear of tree | C, C36-C trial habita for wildli es and brus | 37). The ID t impacts (a fe crossing h to be with | NR DFW Appendix under the in project |
| | Applica | ible rec | | ns fro | m the l | Proposed I | website on A Roadway Lett | | | | |
| If there are high animal movemen | | | | | | | or if bridges an | d other areas | s appear to l | pe the sole co | orridor for |

This is page 10 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| County | Jasper | _ Route | SR 114 | _ De | s. No. | 1701512 |
|------------------------------------|---|--|---|--|---|---|
| | proposed project located stated states | | | | Yes | No X X |
| | If yes, will the project in | mpact any of these ka | rst features? | | | |
| | rks box to identify any ka October 13, 1993) | rst features within the | project area. (Karst | investigation mus | t comply | with the Karst |
| Remarks: | Based on a desktop rethe October 13, 1993 Marea (Appendix B, B2 features identified with Geological Survey (ICC7). The coordination bedrock resources, and communicated with the | Memorandum of Unde) and the water resouthin or adjacent to the (SS) did not indicate the response did mention I a low potential for er | rstanding (MOU). Addrces map of the RFI ne project area. In the lat karst features may not that there is a high accountering sand and | report (Appending to the top report (Appending the early coording rexist in the project potential for liquid gravel resources. | oographic x E, E8), ation resp cct area (uefaction | map of the project there are no karst ponse, the Indiana Appendix C, C5 to and encountering |
| | | | | <u>Presence</u> | | <u>Impacts</u> |
| Within th Any critic Federal | d or Endangered Specie ne known range of any fe cal habitat identified with species found in project ecies found in project are | deral species in project area area (based upon info | | X | | Yes No X |
| Is Section | on 7 formal consultation r | equired for this action | ? Yes | No X | | |
| Remarks: | Based on a desktop re IDNR Jasper County F in Appendix E, pages I species located within 2019 (Appendix C, C1 or animal species listed project vicinity. | Endangered, Threatenders to E10. The highlighthe county. According 0 to C12), the Natural das state or federally | ed, and Rare (ETR) S ghted species on the leg to the IDNR DFW of Heritage Program's threatened, endanger | Species List has be ist reflect the fede early coordination Database has been red, or rare have b | een check ral and st response n checked een repo | ted and is included tate identified ETR to dated October 15, d. To date, no plant tred to occur in the |
| | Project information w portal, and an official the federally endange (NLEB) (Myotis septential than the Indiana bat an | species list was gener red Indiana bat (<i>Myo</i> atrionalis). No addition | ated (Appendix C, C tis sodalis) and the | 13 to C18). The p federally threaten | roject is ed north | within the range of ern long-eared bat |
| | The project qualifies for dated May 2016 (revision Transit Administration and based on the responsaffect (NLAA)" on the 27, 2020 and requested from USFWS within the Avoidance and Mitig Commitments section of | sed February 2018), by a (FTA), and USFWS onses provided, the pro- Indiana bat and/or the d USFWS's review of the 14-day review per- ation Measures (AM) | between FHWA, Fed. An effect determination oject was found to have NLEB. INDOT reviet the finding (Appendict); therefore, it was | eral Railroad Adration key was con ave "may affect, be ewed and verified ix C, C19 to C33) concluded that the | ninistrati npleted o out is not the effect. No resp ey concu | on (FRA), Federal n March 27, 2020, likely to adversely t finding on March conse was received ar with the finding. |
| | | | | | | |

This is page 11 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| | | maiana Dopan | | ransportatio | | |
|--|--|---|--|---|--|---|
| County _ | Jasper | Route | SR 114 | | Des. No. | 1701512 |
| | Species Act, as amo | need for further consultatended. If new information USFWS will be contacted | n on endangere | ed species at this s | | |
| SECTION | B – OTHER RESC | URCES | | | | |
| Wellhead Public W Resident Source V | later Resources d Protection Area later System(s) tial Well(s) Vater Protection Area urce Aquifer (SSA) | a(s) | | Presence | Yes | <u>S</u> No |
| Is th Is th Initi | ne FHWA/EPA SSA Na al Groundwater Asse | oseph Aquifer System? MOU Applicable? | | Yes | No | |
| Remarks: | Aquifer, the only l States Environmen to this project. The The IDEM Wellhe was accessed on I | ted in Jasper County, whe egally designated sole so tal Protection Agency Sol refore, a detailed ground and Proximity Determinated March 12, 2020 by Local Source Water Area. | ource aquifer in the Source Aquifer assessment or website (http://www.news.com/html/services/html/se | n the state of Indifer Memorandum ent is not needed, http://www.in.gov/ | iana Therefore, of Understandin and no impacts a | the FHWA/United g is not applicable are expected. |
| | on March 12, 2020 After corresponder the record, the wel to Bethany Church impacted as the act are expected. Shou | Vell Web Record Database O by Lochmueller Group, and the corner of SR 114 and location of the well is all did it be determined, during the appraisal to restore | . Water Well of Water, it was imately 0.25 rand CR 400 Woutside the coring the ROW | (ID 270882) was as determined according east of the property (Appendix C, Castruction limits of | identified within ording to the dri roject area at the 49 to C50). The fifthe project. The | n the project area. ving directions on property adjacent feature will not be refore, no impacts |
| | Group on March 12 a MS4 coordinator implementation, pr storm water qualit | review of the INDOT M 2, 2020 and the RFI report was not identified within rojects falling within the y best management practillutants of concern, and r | t; this project in the UAB. T UAB will be ctices (BMPs) | s located within an herefore, coordin required to cons. These BMPs sl | n Urban Area Bo ation is not need ider appropriate | undary. However, led. As part of its post-construction |
| | | review, site visits on June B3), this project is not lo ected. | | | | |
| This is pa | ge 12 of 23 Projec | t name: <u>SR</u> 114 Small | Structure Repla | cement Project | Date | e: June 24, 2020 |

| County | Jasper | Route | SR 114 | Des. No. | 1701512 |
|-----------------------------------|--|--|--|--|--|
| Transv Project | ins Idinal Encroachment erse Encroachment located within a regulate located in floodplain with | | n from project | Presence Impac Yes X X X X X | No X X |
| Discuss impa Remarks: | Based on a desktop mapping-products) by regulatory floodplain coordination letter w received from the Flothere are no concerns. There are 0 homes are within the base floodp such that backwater s substantial adverse in flood risks; and there | review of Flood Insury Lochmueller Group of as determined from a as sent on March 13, odplain Administrator for impacts. This project located within the baselain within 1,000 feet deurface elevations are no apacts on natural and be will be no substantial i | rance Rate Mon July 22, 20 approved FIRI 2020 to the lawithin the 30-ect qualifies as se floodplain vownstream. That expected to eneficial floodnorease in pot | aral Manual for Preparing Envirus (https://wing.) (FIRM) website (https://wing.) (https://wing | ww.fema.gov/flood- oject is located in a a F, F11). An early r. No response was a was concluded that NDOT CE Manual. 7 homes are located an effective capacity sult, there will be no ubstantial change in nation of emergency |
| Prime F Total Po *If 160 or | project area (Appendi Protection Policy Act project area, the requi early coordination let The NRCS, in the earl | mine which NRCS form eview, a site visit on J x B, page B3), there is (FPPA) within or adjace rements of the FPPA deter was sent on Octobe | une 27, 2019 no land that me cent to the proposition of apply to er 15, 2019, to be letter dated 0 | Yes No | ne aerial map of the under the Farmland ricultural land in the cts are expected. An on Service (NRCS). |
| | ts PA Clearance | Category Type A 4, B 4, Eligible and/or Resource Pro | 9 April 9 | OT Approval Dates 9, 2020 | N/A |
| NRHP Dist | y dings/Site(s) rict(s) | | Structura Papla | | oto: June 24, 2020 |

| | ina | iana Depa | rtment of Transp | ortation |
|------------------|--|-------------------------|-----------------------------|--|
| County _ | Jasper | Route | SR 114 | Des. No1701512 |
| Project Effect | | | | |
| No Historic P | Properties Affected | No Adverse I | Effect Adve | erse Effect |
| | <u>Do</u> | cumentation Prepared | | |
| Documentat | ion (mark all that apply) | <u>i Toparoa</u> | ES/FHWA Approval Date(s) | SHPO Approval Date(s) |
| Historic Propo | erties Short Report | | 7.55.010.2000(0) | |
| | al Records Check/ Review | | | |
| Archaeologic | al Phase la Survey Report | X | December 6, 2019 | N/A |
| | al Phase Ic Survey Report | . | | |
| | al Phase II Investigation Repor al Phase III Data Recovery | ^t | | |
| | y and Effect Determination | | | |
| 800.11 Docur | | | | |
| | | | MOA Signature Dates | (List all signatories) |
| Memorandum | n of Agreement (MOA) | | WOA Signature Dates | (List all signatories) |
| | , | | | |
| | | | | |
| | | L | | |
| | | | | ry of the Section 106 process, using the |
| | | | | requires that a Legal Notice be published |
| | apers. Please indicate the publi ction 106 work which must be d | | | comment period deadline. Likewise include |
| arry rurarior oo | | ompicied at a | rater date, sacri as rining | anon or deep trenorting. |
| Remarks: | | | | etermined that this project falls within the |
| | | | | ypes 4 and 9 under the Minor Projects |
| | Programmatic Agreement, (A | Appendix D, D | 1 to D5). The project type | pes in Category A and B are: |
| | A-4. Roadway wor | k within provi | ouely disturbed soils w | here installation of curbs, curb ramps, or |
| | sidewalks are not re | | lously disturbed solls w | mere instantation of curbs, curb ramps, or |
| | | 1 | ement of erosion control | measures along roadways and waterways |
| | within previously di | sturbed soils. | | |
| | | | | undisturbed soils where an archaeological |
| | | | | und and no NRHP eligible or NRHP listed |
| | | | | or adjacent to the project area. |
| | | | | an archaeological investigation found no |
| | | | | ble or NRHP listed district or above-ground |
| | | | r adjacent to the project | |
| | | | | |
| | | | | project on November 11, 2019 by Emily |
| | | | | cological sites were encountered within the |
| | of the FHWA under Section | | | Section 106 process and the responsibilities |

| County Jasper Route | SR 114 | Des. No1701512 |
|--|---|--|
| SECTION D – SECTION 4(f) RESOURCES/ SEC | TION 6(f) RESOUR | CES |
| Section 4(f) Involvement (mark all that apply) Parks & Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, etc.) | Presence | Yes No |
| Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f) | Evaluations Prepared Presence | FHWA Approval date |
| Wildlife & Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve | | Yes No |
| Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f) | Evaluations Prepared | FHWA Approval date |
| Historic Properties Sites eligible and/or listed on the NRHP | Presence | Yes No |
| Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f) *FHWA approval of the environmental document also ser | Evaluations Prepared wrves as approval of ar | FHWA Approval date ny Section 4f Programmatic and/or De minimis |
| historic lands for federally funded transport The law applies to significant publicly ow eligible or listed historical properties regard 4(f) resources. Based on a desktop review, a site visit on | ments. For further disectural Manual for the letion 4(f). Transportation Act of ortation facilities unlead parks, recreationar dless of ownership. Let June 27, 2019 by Local June 27, 2019 by Local formatter and the letter of | cussions on Programmatic, "de minimis" and |

This is page 15 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| | the 0.5 miles search radion. The planned trail (the January trail) | Them: | | | | |
|--------------------------------|--|--|---|--|---|--|
| | letter was sent to the ma 2019 (Appendix C, C1 to | asper County Vision anaging entity, Jaspe | Trails) crosses thro er County Economic | ugh the project area. | An ear | ly coordination |
| | It is anticipated that this 2024 STIP did not ident of SR 114. Furthermo (https://www.jaspercoum 25, 2007 Comprehe 193542.pdf) does identify Trails" (page 53 of the page 53 of the page 53 of the page 54 described a master plan as either page 4(f), this planned facility Consistent with the answaddressing the applicability of Section 4(f) for trails | ify any planned multiple, the planned tracty in gov/egov/docurensive Plan (http://gy a section of SR 1 plan). However, this may purpose of the faut of the transportation of the | cimodal or recreation nil is not included nents/1383862339_4 tps://www.cityofrens 14, that includes the s is not considered to cility. Therefore, this on system or as a recreate be an expression of 5 of FHWA's Section r planned properties, | al trail projects progra in Jasper County's 4978 .pdf). The City selaerin.com/egov/doc project area, as the "loo be a formal designa planned trail is not for reational facility. For to interest or desire by on 4(f) Policy Paper (and Question #15, add | ammed Compro of Recuments. Renssel tion of ormally the purp the m (dated arressing) | for this section rehensive Plan asselaer's June s/1222975993 aer Trail Study the facility nor designated into coses of Section anaging entity. July 20, 2012), the application |
| Section 6(f) | Involvement | | Presence | Use Yes No | | |
| Section 6(f) | Property | | | | | |
| Remarks: | The U.S. Land and Wate (LWCF) which was cre Section 6(f) of this Act p A review of Section (https://www.in.gov/index None of these properties to Section 6(f) resources | ated to preserve, de prohibits conversion on 6(f) property ot/2675.htm) revealed | velop, and assure ac of lands purchased w on the INDOT ed a total of five pro- r adjacent to the pro- | cessibility to outdoor rith LWCF monies to Environmental Soperties in Jasper Cou | r recrea a non-re Services inty (A | ecreation use. website at ppendix J, J1). |
| | to section o(1) resources | | | | | |
| SECTION | E – Air Quality | | | | | |
| | | | | | | |
| Air Q Con Is th If Yi | E – Air Quality | non-attainment or ma current MPO TIP? conformity? pt from conformity, t ansportation Plan (T | hen: | Yes No X | | |
| Air Q Con Is th If YE | E – Air Quality Auality Informity Status of the Property in an air quality ES, then: Is the project in the most of the project exempt from the project is NOT exempts the project in the Tropic to the project in the proj | current MPO TIP? conformity? pt from conformity, tansportation Plan (Tirequired (CO/PM)? | hen: | | | |

| County | Jasper | Route | SR 114 | Des. No. | 1701512 |
|---|---|--|---|--|--|
| Remarks: | The FY 2020-2024 STIP is a contract is 1700103. The FY number B-42245 (Appendix I | 2020-2024 | STIP includes Des. | | |
| | This project is located within according to the IDEM webst procedures of 40 CFR Part 93 | ite (<u>https://</u> | www.in.gov/idem/airo | | |
| | This project is of a type qualifunder the Clean Air Act contanalysis is not required. | | | | |
| SECTION | F - NOISE | | | | |
| Noise Is a noise a | analysis required in accordance wit | h FHWA re | gulations and INDOT' | _ | Yes No X |
| ES Review | No v of Noise Analysis | Yes/ D | ate | | |
| Remarks: | This is a Type III project. In ac Procedure, this action does not | | | ne current INDOT Traffic | Noise Analysis |
| SECTION | G – COMMUNITY IMPACTS | | | | |
| Will the pro Will the pro Will the pro Will constru Does the co If No, a | Community & Neighborhood Factor posed action comply with the local posed action result in substantial is posed action result in substantial is uction activities impact community formmunity have an approved transfer steps being made to advance the roject comply with the transition plants. | /regional dempacts to compacts to lo events (fest tion plan? ne communi | ommunity cohesion? ocal tax base or prope ivals, fairs, etc.)? by's transition plan? | or the area? | es No X X X X X X |
| Remarks: | The project will ultimately be roadway along this stretch of S within the project area will comproperty owners will be provide possible. The project is not antimot change access to propertic community or cause economic no negative impacts to the community or cause economic no negative | R 114. Over sist primariled access the cipated to reserve within the impacts to munity or local stivals webstard accessive and constructional trains and construction of the Mainter of the Mainter sist of the sist of th | rall, the negative imply of short-term constroughout the duration esult in substantial imple area. The project the surrounding area. It is called economy. Site (www.fairsandfeeton.org festivals scheduled we tion warning lights ffic along SR 114 duraffic signals will mance of Traffic section. | pacts to property owners a ruction impacts. No relocate of the project to reduce a pacts to community coheris not expected to impact to expected to impact therefore, this project where the project within 10 miles of the project and signage along existence of the project where the project is and signage along existence of the project and signage along existence of the project where the project is a project where the p | and local businesses ations are expected. impacts as much as sion, because it will act the surrounding ill have minimal or March 16, 2020 by ect. The project will sting roads during phased lane shifts traffic through the |

Date: June 24, 2020

This is page 17 of 23 Project name: SR 114 Small Structure Replacement Project

| County _ | Jasper | Route | SR 114 | Des. No. | 1701512 |
|--|---|--|---|--|--|
| | The MOT may pose delays and to emergency services); however, all is not anticipated to impact access school districts and emergency ser access. This is included as a common The ADA Transition Plan for Cit 2012. The project will comply wit will not create any additional barriarea and no new pedestrian facility. | inconvenie to commu rvices at le nitment in y of Renss th the publicers to acces | ences will cease upon project con nity events. The project sponsor ast two weeks prior to any cons the <i>Environmental Commitmen</i> selaer, Indiana was approved ar ashed Americans with Disabilities se because no pedestrian facilities | mpletion. The will be respondent truction activities section of the addinglements and implements act (ADA) | MOT for the project asible for contacting ties that would limit his CE document. Ed on December 10, Transition Plan and |
| | d Cumulative Impacts bosed action result in substantial ind | lirect or cur | mulative impacts? | | Yes No X |
| Remarks: | Indirect impacts are effects which but are still reasonably foreseeab related to induced changes in the affect the environment which result and reasonably foreseeable future | ole. Indirect pattern of the left that the l | t effects may include growth i land use, population density, or incremental impact of the action | nducing effect growth rate. when added to | ts and other effects Cumulative impacts o other past, present, |
| | This project will not add substanti any currently undeveloped area. T result in substantial indirect or cur | herefore, t | he project is not expected to inc | | |
| Will the prop private utilitie | lities & Services bosed action result in substantial imples, emergency services, religious in facilities? Discuss how the mainten | stitutions, | airports, public transportation or | oublic and pedestrian | Yes No X |
| Remarks: | Based on a desktop review, site v area (Appendix B, B3), and the RI project area. The gas and electrica during the review process. Utility that impacts to the utilities are r Therefore, no impacts are expected | FI report (A ll lines are coordinat ninimal. A | Appendix E, E7) there is a gas line noted in the design documents, ion has begun and will continue | ne and an elec however, do n e throughout t | trical line within the ot appear elsewhere he project to ensure |
| | Early coordination information w Office, Jasper County Council, Ja Commissioners, Jasper County To School Corporation, Jasper Volu Prompt Ambulance Service, and F County Planning & Developmen agencies responded to the early co | sper Count ownship T unteer Fire Franciscan I t on Marc | ty Economic Development Orga rustees, Jasper County Sheriff' Department, Jasper County E Health Development Organization h 13, 2020. (Appendix C, C1 | anization, Jasp s Department, Emergency Ma on on October | per County Board of Rensselaer Central anagement Agency, 15, 2019 and Jasper |
| | It is the responsibility of the proje weeks prior to any construction th | | | nd emergency | services at least two |
| During the d Does the pro If YES, then Are an | ntal Justice (EJ) (Presidential EO 1 levelopment of the project were EJ in piect require an EJ analysis? EJ populations located within the eleproject result in adversely high or | ssues iden | a? | | es No X X X X X |

This is page 18 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| | maiana | Department or ma | iisportation | | | | | |
|--|--|---|--|---|--|--|--|--|
| County | Jasper | SR 114 | [| Des. No. | 1701512 | | | |
| Remarks: | Under FHWA Order 6640.23A, FHW are responsible to ensure that their pradverse effect on minority or low <i>Preparation Manual</i> , an Environment relocations or 0.5 acre of additional permanent right-of-way. Therefore, a Potential EJ impacts are detected by | rograms, policies, and activition populations. Per tall Justice (EJ) Analysis permanent right-of-way. In EJ analysis is required. | vities do not have er the current IN is required for an This project will | a dispropor IDOT Cate y project the require a to | rtionately high and egorical Exclusion at has two or more otal of 0.61 acre of tive to a reference | | | |
| | population to determine if population and adverse impacts to them. The community of comparison (COC). In project limits is called the affected co | reference population mag this project, the COC is . | y be a county, ci Tasper County. Th | ty, or town | and is called the ty that overlaps the | | | |
| | An AC has a population of concern f low-income or minority population i 5-Year Estimate was obtained from tl 17, 2020 by Lochmueller Group. Th are summarized in the table below. | s 125% of the COC. Data ne U.S. Census Bureau we | from the Americ ebsite (https://data | an Commu | nity Survey (ACS) / <u>cedsci/</u>) on March | | | |
| | Table: Minority and Low-Income Data (2017 ACS 5-Year Estimate) | | | | | | | |
| | Tuote. Willioney and Bow meons | CO | | A | C 1 | | | |
| | | Jasper Coun | | | Fract 1012, | | | |
| | MINORITY | | ,, | | | | | |
| | Percent Minority | 8.3 | % | 7 | 4% | | | |
| | 125% of COC | 10.3 | | | 25% COC | | | |
| | EJ Population of Concern? | 10.0 | 7.0 | | No | | | |
| | | | | | | | | |
| | LOW-INCOME | | | | | | | |
| | Percent low-income | 9.0 | % | 10 | .5% | | | |
| | 125% of COC | 11.2 | % | AC < 12 | 25% COC | | | |
| | EJ Population of Concern? | | | N | Vo | | | |
| | AC 1, Census Tract 1012 has a percent threshold. Therefore, AC 1 does not AC 1 has a percent low-income of 10 AC 1 does not contain low-income put the census data sheets, map, and can justice analysis is warranted. | contain minority populati 0.5% which is below 50% opulations of EJ concern. | ons of EJ concern and below the 125 | 5% COC thi | reshold. Therefore, | | | |
| | | | | | | | | |
| Vill the pros a Busines a Concer | of People, Businesses or Farms posed action result in the relocation of pss Information Survey (BIS) required? btual Stage Relocation Study (CSRS) re elocation coordination been initiated for | equired? | ns? | | es No X X X X | | | |
| | relocations: Residences: 0 | Businesses: 0 | Farms: 0 | _ Other: | 0 | | | |
| BIS or CS Remarks: | RS is required, discuss the results in the No relocations of people, businesses has begun and will continue through to all properties will be maintained described. | or farms will take place out the project to ensure t | | | | | | |

This is page 19 of 23 Project name: SR 114 Small Structure Replacement Project Date: June 24, 2020

| County | Jasper | Route | SR 114 | Des. No. 1701512 |
|---|---|---|--|--|
| SECTIO | N H – HAZARDOUS MA | TERIALS & REGU | ILATED SUBST | ANCES |
| | | | | |
| Red Flag Phase I E Phase II E | Is Materials & Regulated S Investigation nvironmental Site Assessme Environmental Site Assessme pecifications for Remediation | ent (Phase I ESA) ent (Phase II ESA) | I that apply) | Documentation X |
| EQ Davida | | No Yes/ Da | | |
| ES Kevie | w of Investigations | Septembe | er 26, 2019 | |
| Remarks: | Site Assessment and Management National Pollution Discourse project area; however, in the project. The nearest | anagement (Appendi harge Elimination S to hazmat sites were UST is located 0.3 he project area. No in | ix E, E1 to E14). ystem (NPDES) I identified in or w mile from the pro mpacts are expect | was approved on September 27, 2019 by INDOT One Underground Storage Tank (UST) and one Pipe Location are located within 0.5 mile of the ithin 0.5 mile of the project area that will impact oject area. The nearest NPDES Pipe Location is ed. Further investigation for hazardous materials |
| SECTIOI | N I – PERMITS CHECKL | IST | | |
| Permits (ı | mark all that apply) | | Likely Required | <u>d</u> |
| In N: R: Pi O W Si IS R: O W Si | rps of Engineers (404/Sect dividual Permit (IP) ationwide Permit (NWP) egional General Permit (RG re-Construction Notification ther (etland Mitigation required tream Mitigation required ection 401 WQC olated Wetlands determinated ule 5 ther (etland Mitigation required tream Mitigation required | P) (PCN) | X | |
| N: La O M US Coast | onstruction in a Floodway avigable Waterway Permit ake Preservation Permit ther itigation Required Guard Section 9 Bridge Please discuss in the rema | | X | |
| Remarks: | | | | of UNT to Iroquois River will be impacted by within the construction limits of the project. A |
| This is r | page 20 of 23 Project nan | ne: SR 114 Small | Structure Replacem | nent Project Date: June 24, 2020 |

| County | Jasper | Route S | SR 114 | Des. No. | 1701512 |
|--------|--------|---------|--------|----------|---------|
| | | | | | |

USACE Section 404 RGP and IDEM Section 401 WQC will be required due to the impacts to UNT to Iroquois River. A formal jurisdictional determination has not yet been made by the USACE, which will be required during the permitting phase.

Mitigation is required when cumulative stream and wetland impacts meet or exceed 300 linear feet or 0.1 acre below the ordinary high water mark. Due to the cumulative impacts of 51 linear feet and 0.01-acre, mitigation will not be required for the USACE Section 404 RGP and the IDEM Section 401 WQC.

The construction limits of the project are located within the 100-year floodplain for the Iroquois River. IDNR requires formal approval to pursuant to the Flood Control Act for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile, unless it qualifies for a bridge exemption. A Construction in a Floodway Permit will be required due to the project's location within a floodplain.

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 or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT District)
- 2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
- 3. Any work within a wetland area within ROW or in borrow/waste areas is prohibited unless specifically allowed in the USACE permit. (INDOT ESD)
- 4. 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. (USFWS)
- 5. LIGHTING AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 6. TREE REMOVAL AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 7. 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 <u>no bats observed</u>. (USFWS)
- 8. 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). (USFWS)
- 9. 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. (USFWS)

| This is page 21 of 23 | Project name: | SR 114 Small Structure Replacement Project | Date: | June 24, 2020 |
|-----------------------|---------------|--|-------|---------------|
| | | | | |

| County Jasper Route Sk 114 Des. No. 1701312 | County Jasper | Route SR 114 | Des. No. 1701512 |
|---|---------------|--------------|------------------|
|---|---------------|--------------|------------------|

For Further Consideration:

- 1. Avoid all work within the inundated part of the stream channel 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. (USFWS)
- 2. 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)
- 3. 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. (USFWS)
- 4. 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)
- 5. 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. (USFWS)
- 6. 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 or other hard bank stabilization materials should be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM) with the exception of areas directly under bridges for instance. 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 Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR DFW)
- 8. Any proposed dewatering should be detailed using the following guidelines.
 - a. Dewatering should be limited to one streambank or side of the creek (at the bridge construction site) at a time so at least half of the creek is always flowing naturally. On larger stream, both sides can be dammed at once as long as the center of the channel is allowed to flow naturally.
 - b.Do not dewater directly into the stream. Dewater into a sediment bag, into a roll off box, and onto a riprap apron or similar system.
 - c. Cofferdam material and methods can vary. Self-contained and encapsulated materials and methods are recommended. Anything filled with water is better than soil-filled where there is a potential for leaking or failure of the system due to length of use or accidents.
 - d.Dewatering pumps should incorporate filters or bypasses to avoid injuring or killing fish and other aquatic organisms. (IDNR DFW)
- 9. Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR DFW)
- 10. Impacts to non-wetland forest of one 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 acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees). (IDNR DFW)

| County | Jasper | Route | SR 114 | Des. No. | 1701512 |
|--------|--------|-------|--------|----------|---------|
| | | | | | |

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 with the regulatory agencies was completed on October 18, 2019 (Appendix C, C1 to C4). If no response was received, it was assumed the agency did not feel the project will result in substantial impacts. The following agencies/individuals were contacted during the coordination phase.

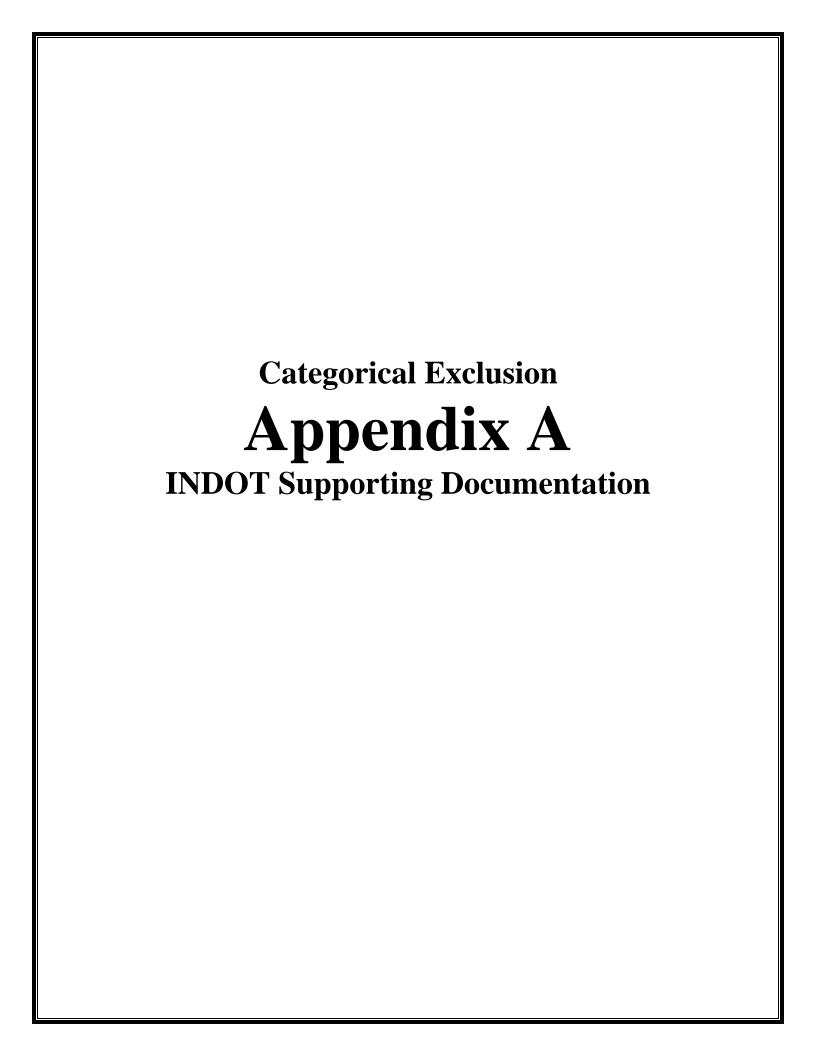
| | Agency | Date of Response(s) | | |
|-----|---|---------------------|--|--|
| 1. | USACE, Detroit District | November 15, 2019 | | |
| 2. | USFWS, Northern Indiana Suboffice | No Response | | |
| 3. | USDA, NRCS | October 30, 2019 | | |
| 4. | National Park Service, Midwest Regional Office | No Response | | |
| 5. | U.S. Department of Housing and Urban Development | No Response | | |
| 6. | FHWA, Indiana Division | No Response | | |
| 7. | IDNR, Division of Fish and Wildlife | November 14, 2019 | | |
| 8. | IDNR, Division of Water | March 16, 2020 | | |
| 9. | Indiana Geological Survey (electronic submission) | October 18, 2019 | | |
| 10. | INDOT, Office of Public Involvement | October 21, 2019 | | |
| 11. | INDOT, Environmental Services | No Response | | |
| 12. | INDOT, LaPorte District Project Manager | No Response | | |
| 13. | INDOT, LaPorte District Environmental Scoping Manager | No Response | | |
| 14. | INDOT, Office of Aviation | October 18, 2020 | | |
| 15. | IDEM (electronic submission) | April 2, 2020 | | |
| 16. | Jasper County Highway Department | No Response | | |
| 17. | Jasper County Board of Commissioners | No Response | | |
| 18. | Jasper County Council | No Response | | |
| 19. | Jasper County, Township Trustee | No Response | | |
| 20. | Jasper County Surveyor's Office | No Response | | |
| 21. | Jasper County Emergency Management Agency | No Response | | |
| 22. | Prompt Ambulance Service | No Response | | |
| 23. | Jasper County Sheriff's Department | No Response | | |
| 24. | Rensselaer Central School Corporation | No Response | | |
| 25. | Rensselaer Volunteer Fire Department | No Response | | |
| 26. | Jasper County Economic Development Organization | No Response | | |
| 27. | Franciscan Health Rensselaer | No Response | | |
| 28. | Jasper Co. Planning & Development | No Response | | |

| Appendix A: INDOT Supporting Documentation Threshold Chart | A1 |
|---|---------|
| Appendix B: Graphics | |
| General Location Map | R1 |
| USGS Rensselaer, Indiana Quadrangle Topographic Map | |
| Project Aerial (2018) | |
| Photo Location Map (2018) | |
| Site Photographs | |
| Preliminary Plan Sheets | |
| • | |
| Appendix C: Early Coordination | ~. ~. |
| Sample Early Coordination Letter (October 15, 2019) | C1-C4 |
| Indiana Geological Survey | |
| Electronic Response (October 18, 2019) | C5-C7 |
| Indiana Department of Transportation (INDOT), Office of Public Involvement | |
| Response Email (October 21, 2019) | C8 |
| Natural Resources Conservation Service | |
| Response Letter (October 30, 2019) | C9 |
| Indiana Department of Natural Resources (IDNR), Division of Fish and Wildlife | |
| Response Letter (November 14, 2019) | C10-C12 |
| United States Fish and Wildlife Service | |
| IPaC Official Species List (March 17, 2020) | C13-C18 |
| IPaC Concurrence Verification Letter (March 27, 2020) | C19-C33 |
| Bridge/Structure Assessment Form (June 27, 2019) | C34-C35 |
| U.S Army Corps of Engineers, Detroit District | |
| Response Letter (November 15, 2019) | |
| Indiana Department of Environmental Management | |
| Electronic Response (April 2, 2020) | C39-C47 |
| Indiana Office of Aviation | |
| Response Letter (October 18, 2019) | C48 |
| Indiana Department of Natural Resources, Division of Water | |
| Response Letter (March 16, 2020) | C49-C50 |
| Amondin D. Costion 106 of the National Historia Decompation Act (NHDA) | |
| Appendix D: Section 106 of the National Historic Preservation Act (NHPA) | D1 D5 |
| MPPA Project Assessment Form | 1-ມ3 |
| Appendix E: Red Flag Investigation | |
| Red Flag Investigation | E1-E15 |
| Appendix F: Water Resources | |
| Waters of the U.S. Determination Report | F1-F6 |
| Water Resources Map | |
| NWI Wetlands Map | |
| USGS StreamStats Drainage Area Map | |
| FEMA Floodplain Map | |
| Soil Survey | |
| Preliminary Jurisdictional Determination | |
| INDOT Ecology and Waterway Permitting Office approval email | |
| Appendix G: Public Involvement | |
| Notice of Survey (October 19, 2018) | G1 |
| INDOT Notice of Survey Attachment | |
| O 1 1,0000 01 201.0 j 1 1000 miles i | |

Des. No.: 1701512

SR 114 Small Structure Project Jasper County, Indiana

| Appendix H: Air Quality | |
|---|-------|
| Relevant pages from the INDOT 2020-2024 STIP | Н1 |
| Relevant pages from the INDOT 2018-2021 STIP | |
| Appendix I: Environmental Justice (EJ) Analysis | |
| EJ Analysis Map | I1 |
| Data Calculation Table. | I2 |
| Population Data | 13-I6 |
| Appendix J: Other Information | |
| Land and Water Conservation Fund Grants: Jasper County, Indiana | J1 |



Categorical Exclusion Level Thresholds

| | PCE | Level 1 | Level 2 | Level 3 | Level 4 ¹ |
|---|---|--|---|------------------------------------|---|
| Section 106 | Falls within guidelines of Minor Projects PA | "No Historic Properties Affected" | "No Adverse Effect" | - | "Adverse Effect" Or Historic Bridge involvement ² |
| Stream Impacts | No construction in waterways or water bodies | < 300 linear feet of stream impacts | ≥ 300 linear feet of stream impacts | - | Individual 404 Permit |
| Wetland Impacts | No adverse impacts to wetlands | < 0.1 acre | - | < 1 acre | ≥ 1 acre |
| Right-of-way ³ | Property acquisition for preservation only or none | < 0.5 acre | ≥ 0.5 acre | - | - |
| Relocations | None | = | - | < 5 | ≥ 5 |
| Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat) | "No Effect", "Not likely to Adversely Affect" (Without AMMs ⁴ or with AMMs required for all projects ⁵) | "Not likely to Adversely Affect" (With any other AMMs) | - | "Likely to Adversely Affect" | Project does not fall under Species Specific Programmatic |
| Threatened/Endangered Species (Any other species) | Falls within guidelines of USFWS 2013 Interim Policy | "No Effect", ""Not likely to Adversely Affect" | - | - | "Likely to Adversely Affect" |
| Environmental Justice | No disproportionately high and adverse impacts | - | - | - | Potential ⁶ |
| Sole Source Aquifer | Detailed Assessment Not Required | - | - | - | Detailed Assessment |
| Floodplain | No Substantial Impacts | - | - | - | Substantial Impacts |
| Coastal Zone Consistency | Consistent | - | - | - | Not Consistent |
| National Wild and Scenic River | Not Present | - | - | - | Present |
| New Alignment | None | - | - | - | Any |
| Section 4(f) Impacts | None | - | - | - | Any |
| Section 6(f) Impacts | None | = | - | - | Any |
| Added Through Lane | None | - | - | - | Any |
| Permanent Traffic Alteration | None | - | - | - | Any |
| Coast Guard Permit | None | - | - | - | Any |
| Noise Analysis Required | No | - | - | - | Yes |
| Air Quality Analysis Required | No | - | - | - | Yes ⁷ |
| Approval Level | Concurrence by INDOT District | | | | |
| District Env. Supervisor Env. Services Division | Environmental or Environmental Services | Yes | Yes | Yes Yes | Yes Yes Yes |
| FHWA Coordinate with INDOT Environmental Section Coordinate with INDOT Environmental Coordinate with INDOT Environmental Coordinate with INDOT Env | | | | | 105 |

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.

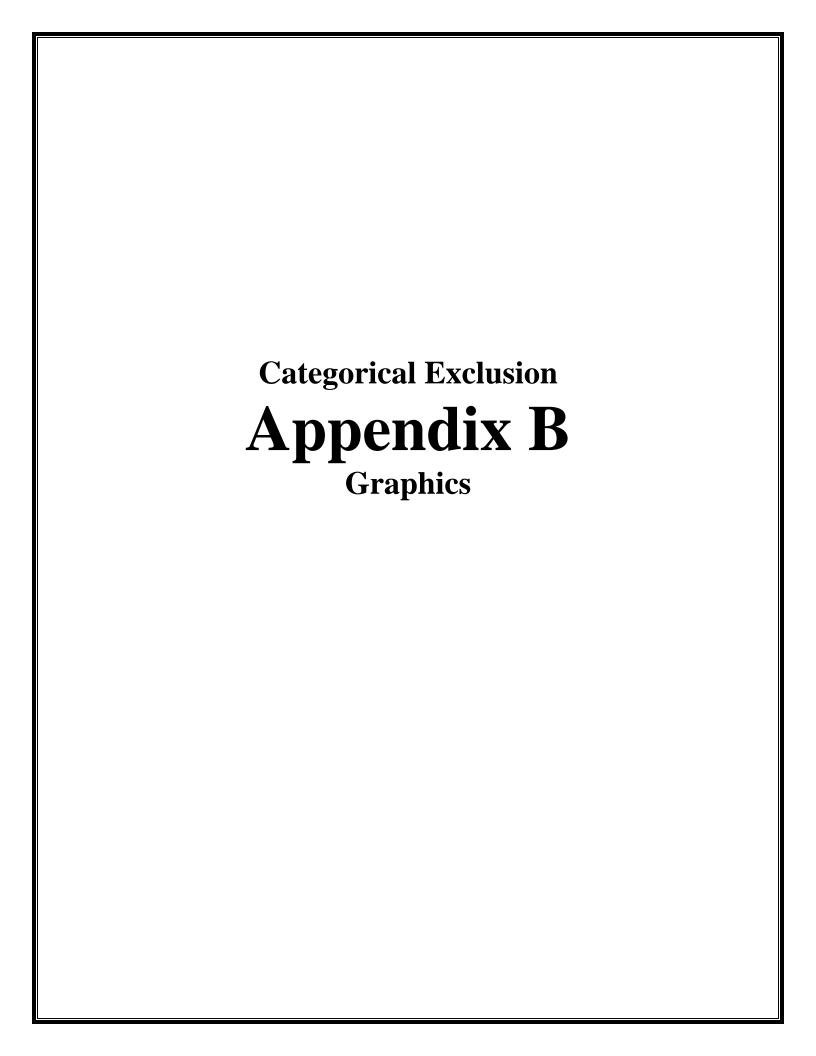
⁴AMMs = Avoidance and Mitigation Measures.

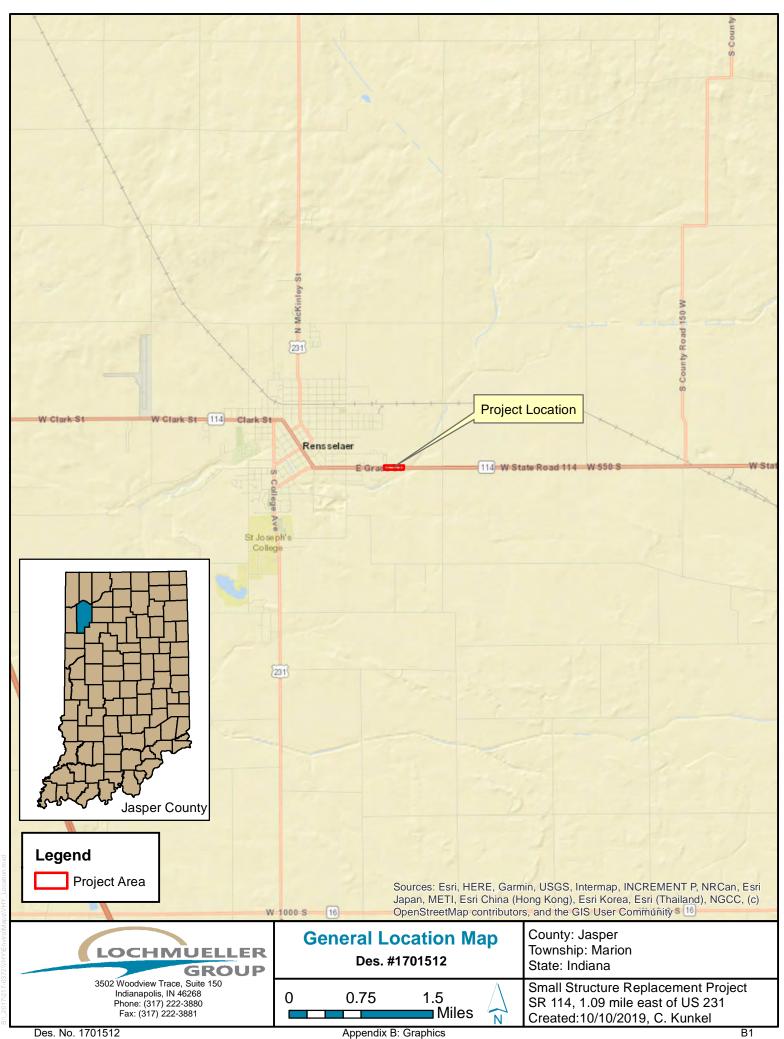
⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation for Indiana bat and Northern long-eared bat* as "required for all projects".

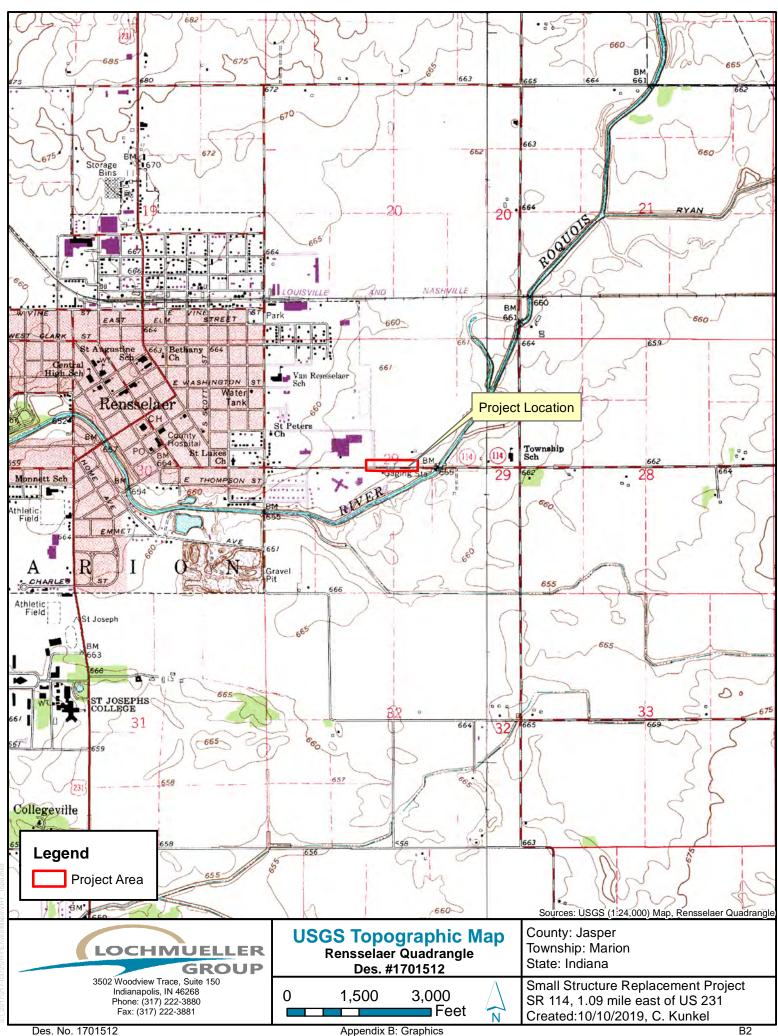
⁶Potential for causing a disproportionately high and adverse impact.

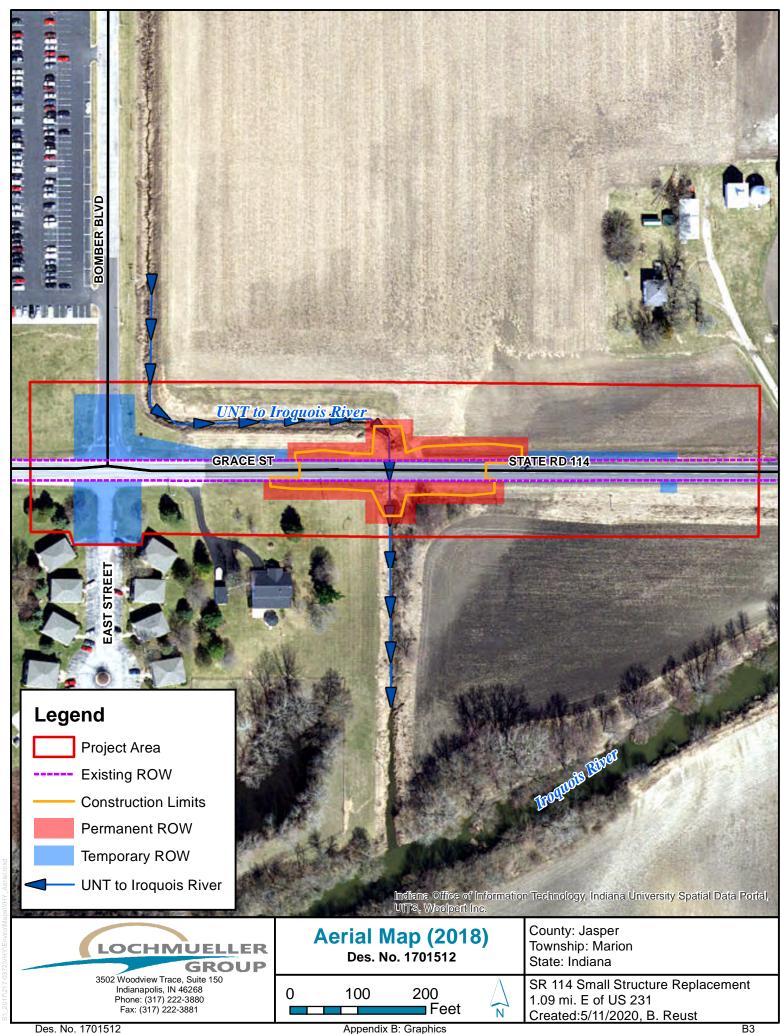
⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

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

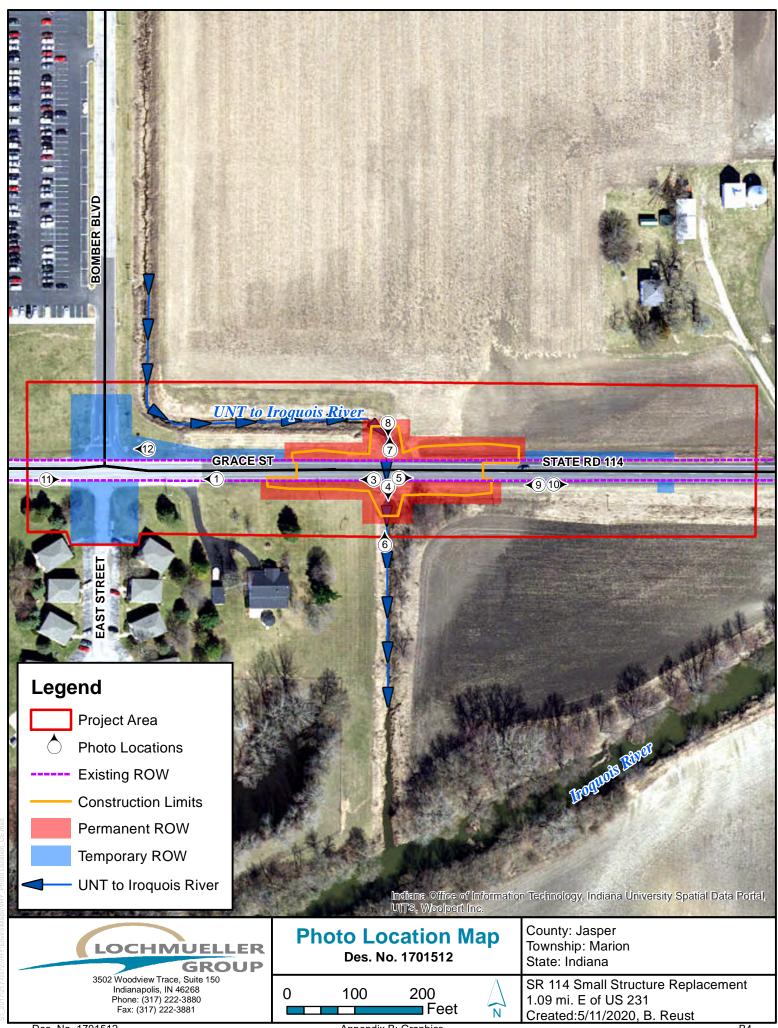








Des. No. 1701512 Appendix B: Graphics



Des. No. 1701512 Appendix B: Graphics B4

Jasper County, IN Date Photos Taken: June 27, 2019



1. Looking west along south side of SR 114



2. Looking east along south side of SR 114

Jasper County, IN Date Photos Taken: June 27, 2019



3. Looking west along south side of SR 114 from culvert



4. Looking south (downstream) along UNT to Iroquois River from SR 114

Jasper County, IN Date Photos Taken: June 27, 2019



5. Looking east along the south side of SR 114 from culvert



6. Looking north (upstream) along UNT to Iroquois River toward culvert



7. Looking north (upstream) along UNT to Iroquois River from SR 114



8. Looking south (downstream) along SR 114 toward culvert

Jasper County, IN Date Photos Taken: June 27, 2019



9. Looking west along the south side of SR 114



10. Looking east along the south side of SR 114

Jasper County, IN Date Photos Taken: June 27, 2019



11. Looking east toward intersection



12. Looking west toward intersection and Rensselaer Central Scools Corporation

| PROJECT | DESIGNATION |
|----------|-------------|
| 1701512 | 1701512 |
| CONTRACT | BRIDGE FILE |
| B-42245 | N/A |

| CULVERT ASSETS | | | | |
|----------------|------------------|--|--|--|
| Des. No. | Culvert Asset ID | | | |
| 1701512 | CV 114-037-21.00 | | | |

| | KIN PI | ROJEC | T INFORMATION | NC | | |
|----------------|------------------------------|----------|-----------------------------|---------------------|---------------|--|
| DESIGNATION - | PROJECT DESCRIPTION | | | | | |
| DESIGNATION - | Work Type | Route | Location | Feature Crossed | County | |
| 1700044 | Small Structure Pipe Lining | US 731 | 2.34 mi N of SR 14 | Corner Ditch | Jasper County | |
| 1700046 | Small Structure Pipe Lining | US 231 | 0.87 mi N of 5R 110 | Schatzley Ditch | Jasper County | |
| 1700103 (LEAD) | Bridge Replacement, Concrete | US 421 | 3.50 mr 5 of SR 16 | Hoagland Ditch | With County | |
| 1700173 | Small Structure - New | SR 14 | L50 ini F <51(\$ 231 | UNT to Oliver Duch | Targer County | |
| 1701329 | Small Structure Reprocement | 58 49 | 4 60 mi S of \$9:10 | Barnard Ortch | Jasper County | |
| 1701475 | Small Structure Replacement | US 231 | at CR 400N | Bruner Ditch | Jasper County | |
| 1701493 | Small Structure Replacement | SR 114 | 2.09 mi W of 1ct of itS 421 | Rosewia'i Duch | Tasper County | |
| 1701506 | Small Structure Replacement | SR 14 | 0.73 ini E of U5 231 | Zungels-Lakin Ditch | Jasper County | |
| 1701508 | Small Structure Replacement | SR 14 | 1.07 mr W of US 231 | Lakin, Ross Ditch | Jasper County | |
| 1701517 | Sevall Shurawa Portacement | . KD 114 | I DO as E of 1ct of US 231 | School house Ditch | Takner County | |

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: SR 114 FROM: RP 21+00 TO: RP 21+00

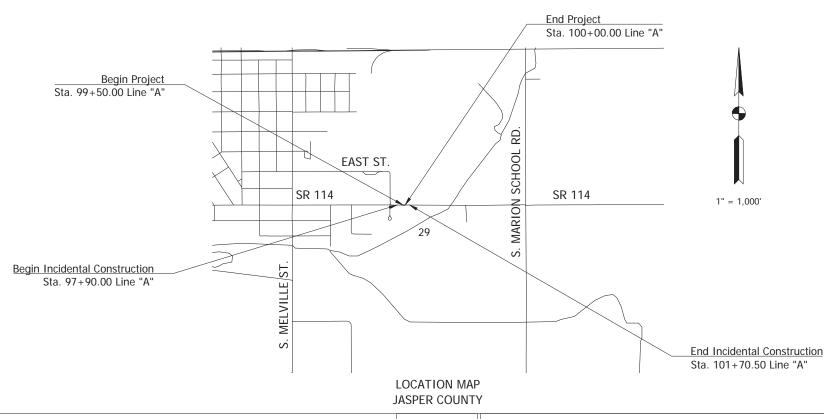
PROJECT NO. 1701512 P.E.

1701512 P.E. 1701512 R/W 1701512 CONST.

PROJECT DESCRIPTION: Small Structure Replacement along SR 114 approximately 1.09 miles East of US 231 in Section 29, Township 29N, Range 6W, Marion Township, Jasper County, Indiana.

STAGE 2 PLANS 3/13/2020

RIGHT-OF-WAY REQUIRED FOR THIS PROJECT



 TRAFFIC DATA

 A.A.D.T.
 (2022)
 4,911 V.P.D.

 A.A.D.T.
 (2042)
 4,911 V.P.D.

 D.H.V
 (2042)
 563 V.P.H.

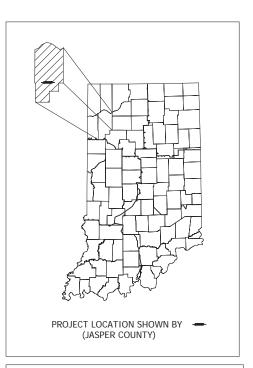
 DIRECTIONAL DISTRIBUTION
 50 %

 TRUCKS
 16.17% AA.D.T.

 14.39% D.H.V.

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: 87°07'55" N | LONGITUDE: 40°56'00" W |
|-----------------------|------------------------|
| | |

| BRIDGE LENGTH: | 0 | _ MI. |
|-----------------|---------------|-------|
| ROADWAY LENGTH: | 0.01 | _ MI |
| TOTAL LENGTH: | 0.01 | _ MI |
| MAX. GRADE: | 0.31% | _ % |
| HUC 14 CODE | 7120002020060 | _ |
| | | |

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2018 TO BE USED WITH THESE PLANS

| | N/A | | | |
|-------------|-------------|----|----|--|
| | DESIGNATION | | | |
| | 1701512 | | | |
| SURVEY BOOK | SHEETS | | | |
| ELECTRONIC | 1 | of | 15 | |
| CONTRACT | PROJECT | | T | |
| B-42245 | 1701512 | | | |
| | | | | |

LOCHMUELLER GROUP 112 West Jefferson Blvd, Site 500 South Bend, Indiana 46601 PLANS
PREPARED BY: LOCHMUELLER GROUP, INC. (574) 334-5460
PHONE NUMBER

CERTIFIED BY: --/-/
APPROVED
FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

Des. No. 1701512 Appendix B: Graphics

UTILITIES

Water / Sewer Name: City of Rensselaer

Phone: 219-866-5206

Gas Name: City of Rensselaer

Contact: Carol Lockridge

Phone: 219-866-7833

Contact: Jerry Lockridge Address: 706 N Cullen St. PO Box 280 Rennselaer, IN 47978

Email: clockridge@cityofrensselaerin.com

Address: 803 E. Walnut St. PO Box 280

Rennselaer, IN 47978

Email: jlockridge@cityofrensselaerin.com

Communications

Name: CenturyLink (CTLCL)

Contact: Dave Baker

Address: 7666 Blanding Blvd. Jacksonville, FL 32244

Phone: 812-584-8471

Email: DBaker@truenetcommunications.com

Name: Indiana Fiber Network, LLC

Contact: Adam Lamb Address: 3921 Clarks Creek Rd.

Plainfield, IN 46168 Phone: 317-697-2123 cell

Email: adam@ellisengineeringgroup.com

Name: Nitco Cable Contact: Don Shoenbeck Address: 205 N. Washington St. Hebron, IN 46341 Phone: 219-996-0216

Email: dons@nitco.com

Electric Name: Jasper County R.E.M.C. Contact: Craig Smart

Address: P.O. Box 129 Rensselaer, IN 47978

Phone: 219-866-4601 Email: craigs@jasperremc.com

Name: City of Rensselaer

Contact: Jerry Lockridge Address: 803 E. Walnut St. PO Box 280

Rennselaer, IN 47978

Phone: 219-866-7833

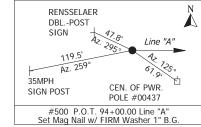
Email: jlockridge@cityofrensselaerin.com

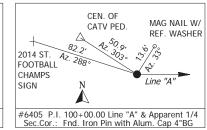
GENERAL NOTES

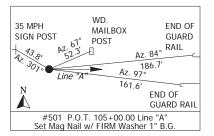
| INDEX | | | | |
|----------|-----------------------------|--|--|--|
| HEET NO. | DRAWINGS INDEX | | | |
| 1 | TITLE | | | |
| 2 | INDEX AND GENERAL NOTES | | | |
| 3-4 | TYPICAL CROSS SECTIONS | | | |
| 5 | PLAT NO. 1 | | | |
| 6-8 | MAINTENANCE OF TRAFFIC | | | |
| 9 | PLAN AND PROFILE - LINE "A" | | | |
| 10 | STRUCTURE DETAILS | | | |
| 11 | ROAD SUMMARY | | | |
| 12-15 | CROSS SECTIONS - LINE "A" | | | |
| 12-13 | CROSS SECTIONS - LINE A | | | |



| REVISIONS | | | | |
|-----------|------|---------|--|--|
| SHEET NO. | DATE | REVISED | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |





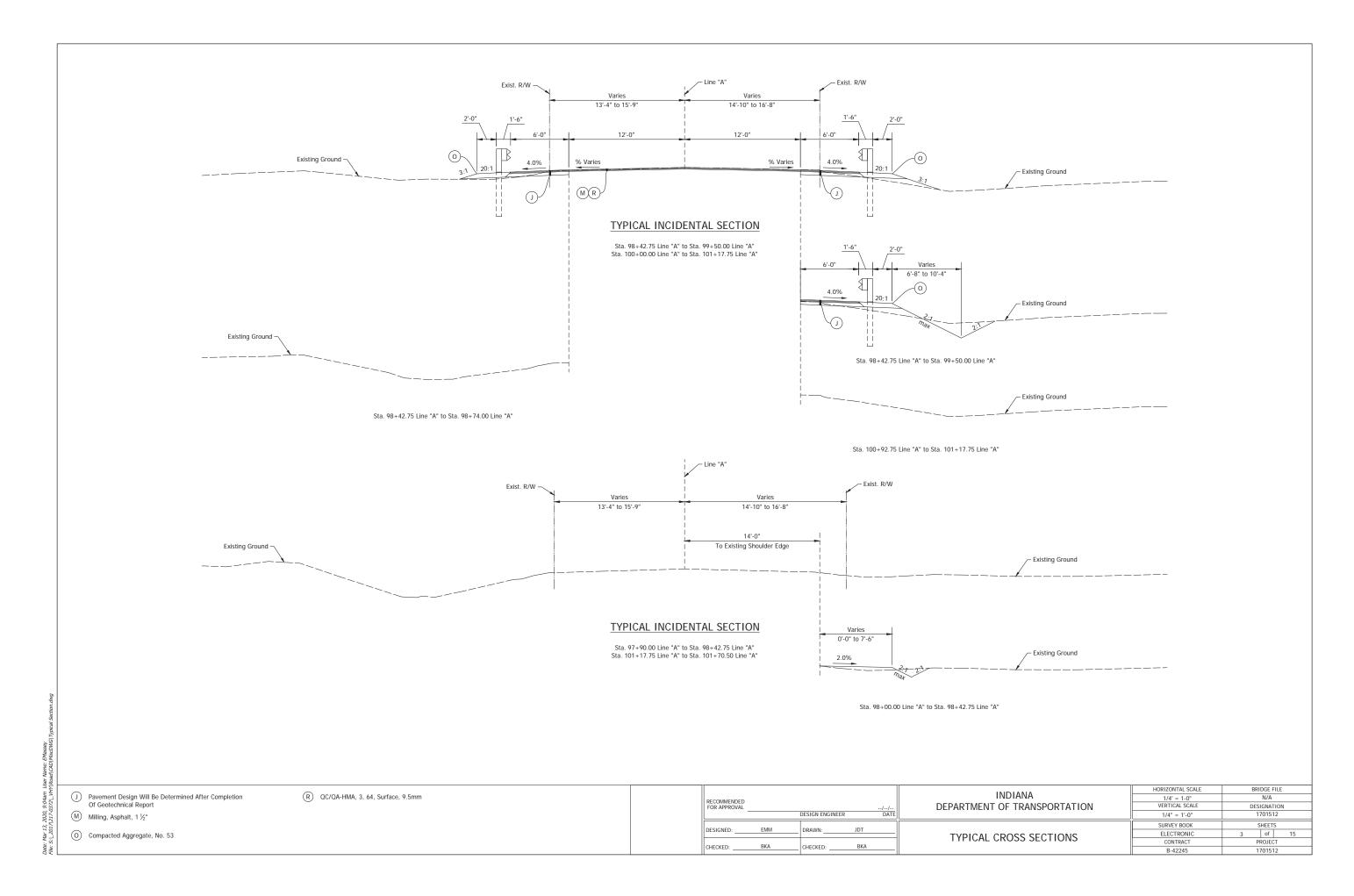


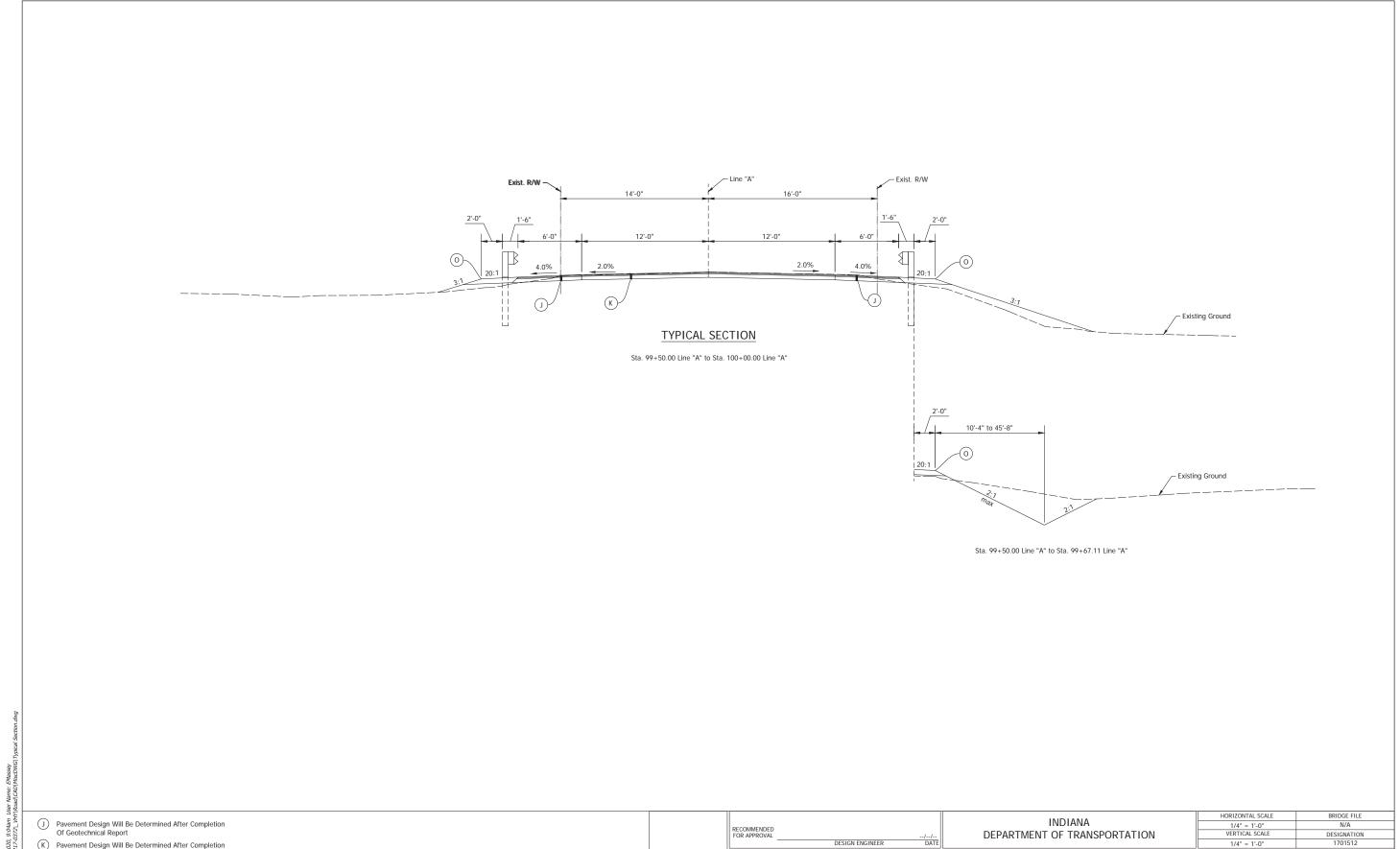
B12

| RECOMMENDED FOR APPROVAL | | DESIGN ENGINEER | | // DATE | |
|-----------------------------|-----|-----------------|-----|------------|--|
| DESIGNED: | EMM | DRAWN: | JDT | | |
| CHECKED: | BKA | CHECKED: | ВКА | | |

| INIDIANIA | HORIZONTAL SCALE | BRIDGE FILE | | |
|--------------------------------------|------------------|-------------|--------|---|
| INDIANA DEPARTMENT OF TRANSPORTATION | N/A | N/A | | |
| | VERTICAL SCALE | DESIGNATION | | N |
| | N/A | 1701512 | | |
| INDEX AND GENERAL NOTES | SURVEY BOOK | | SHEETS | |
| | ELECTRONIC | 2 | of | |
| | CONTRACT | PROJECT | | |
| | B-42245 | 1701512 | | |

Des. No. 1701512 Appendix B: Graphics





Des. No. 1701512 Appendix B: Graphics

CHECKED:

BKA

DESIGN ENGINEER

CHECKED: BKA

1/4" = 1'-0"

SURVEY BOOK ELECTRONIC CONTRACT

B-42245

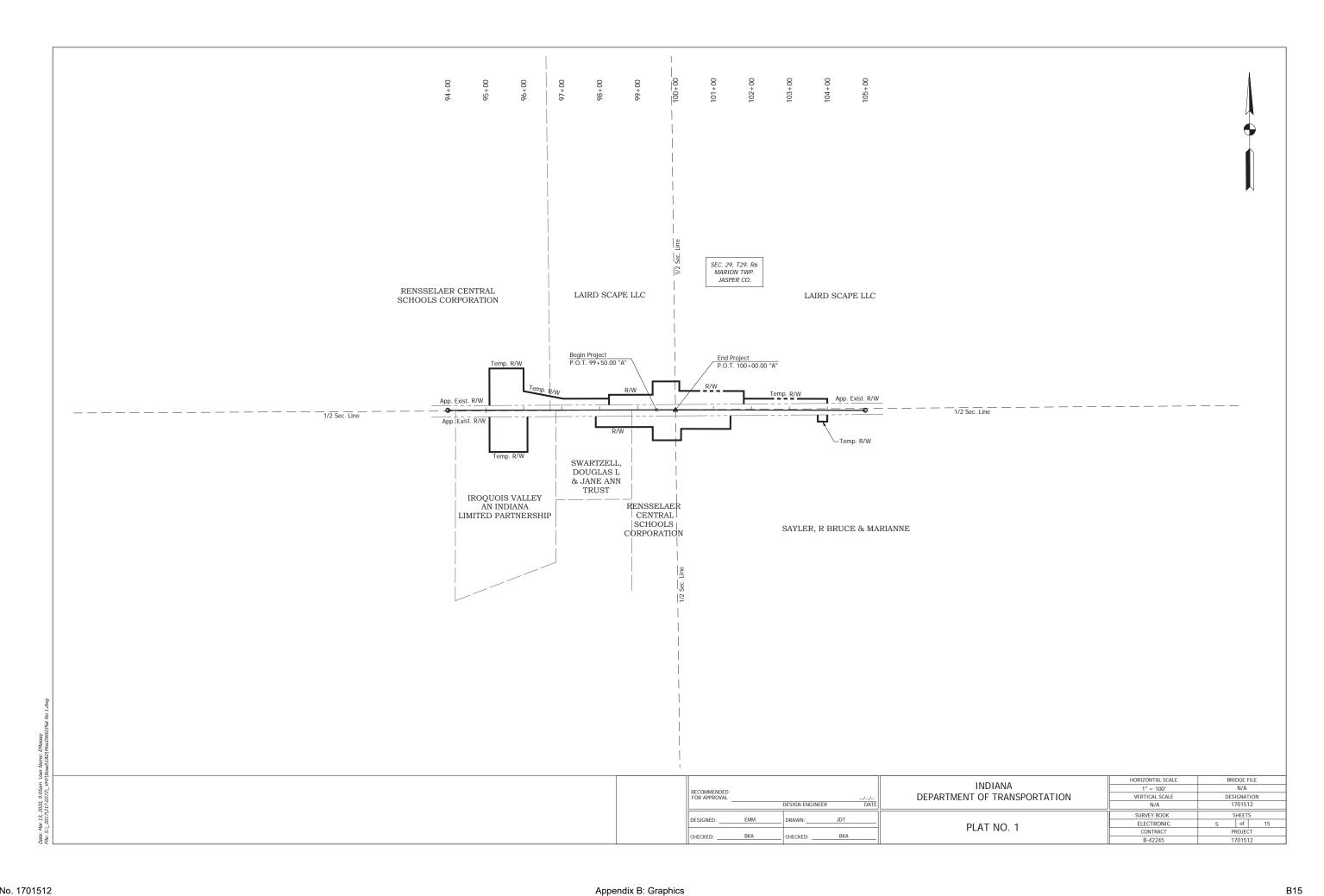
TYPICAL CROSS SECTIONS

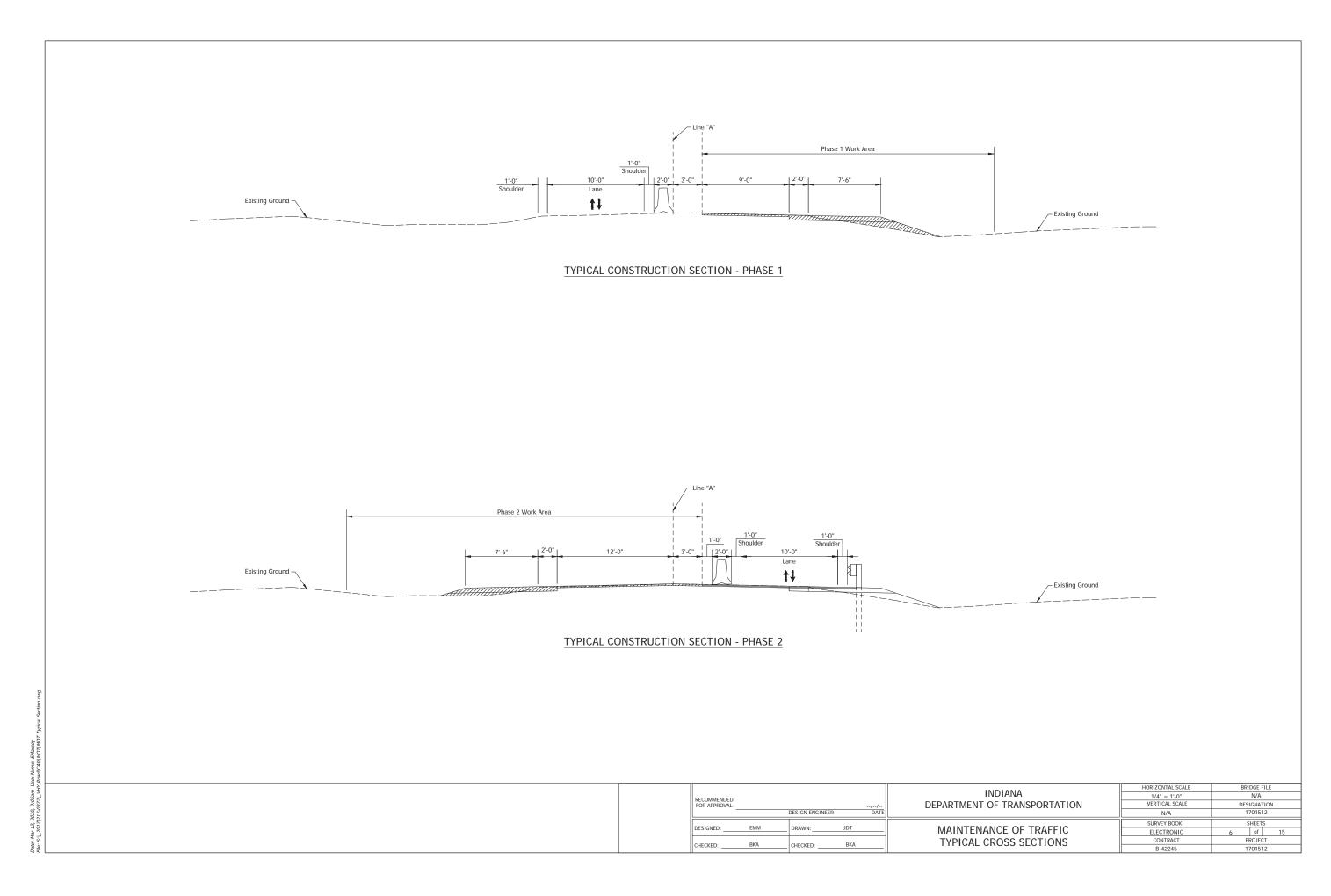
SHEETS
4 | of | 15
PROJECT
1701512

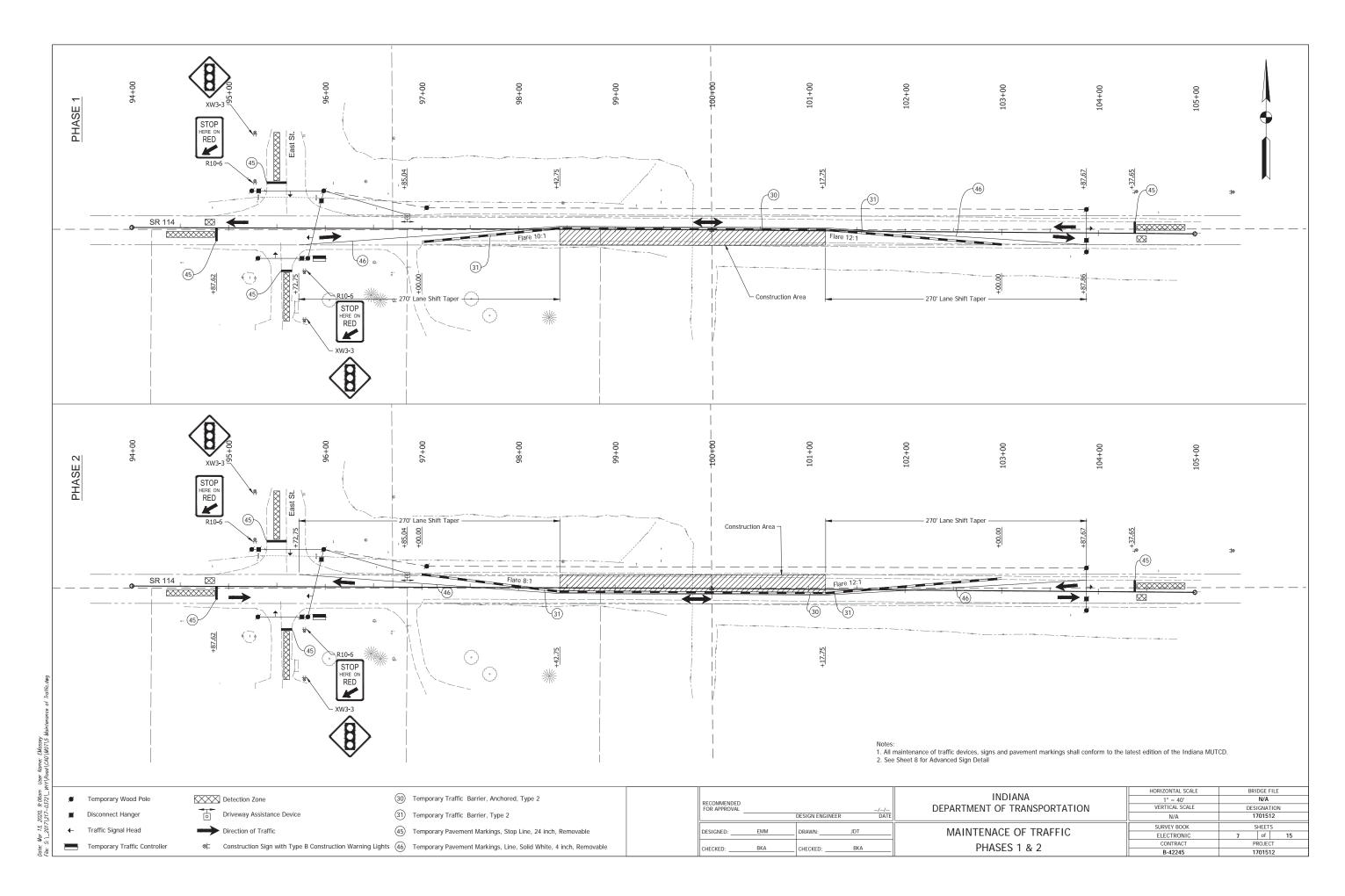
B14

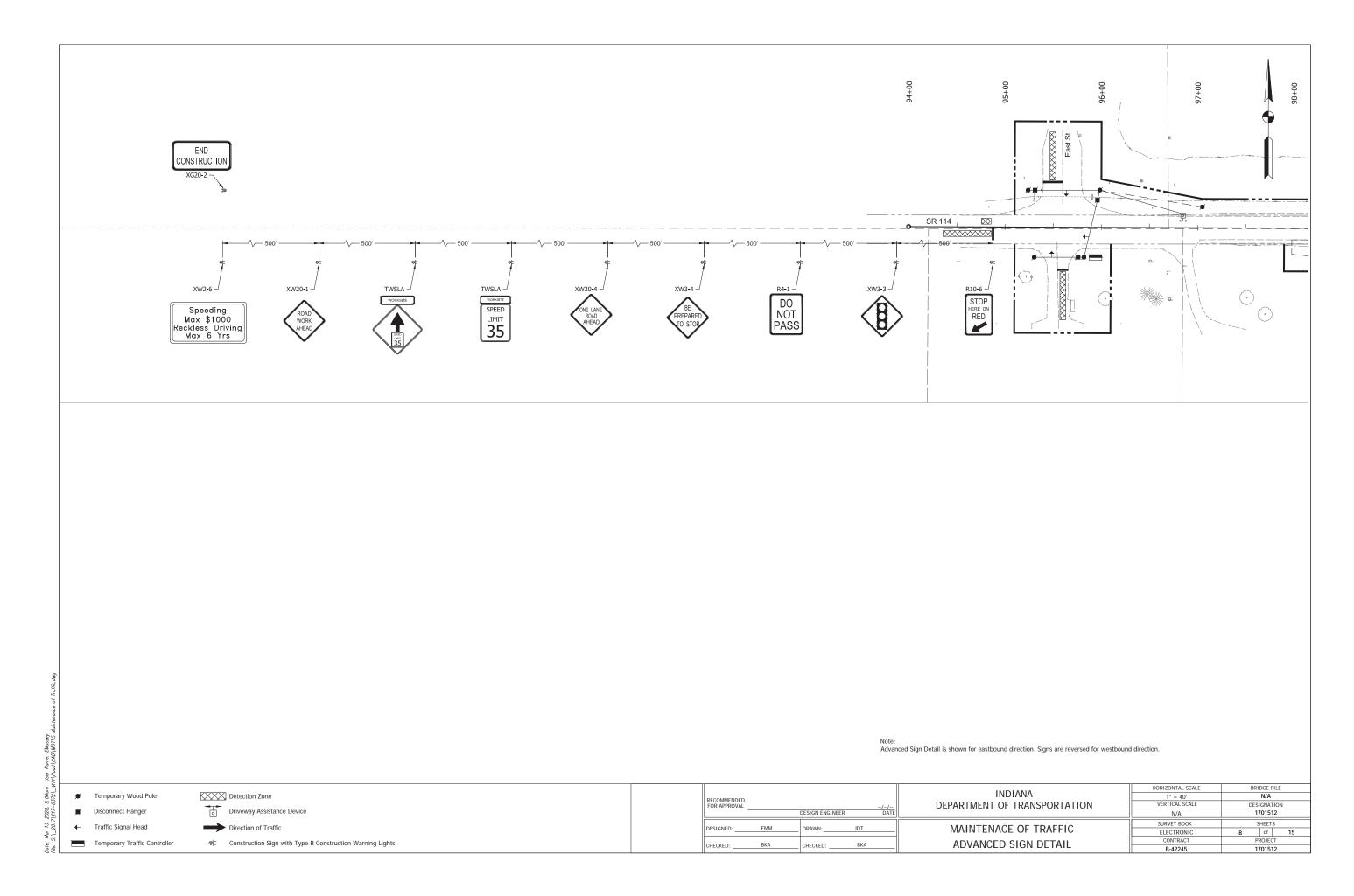
Ravement Design Will Be Determined After Completion Of Geotechnical Report

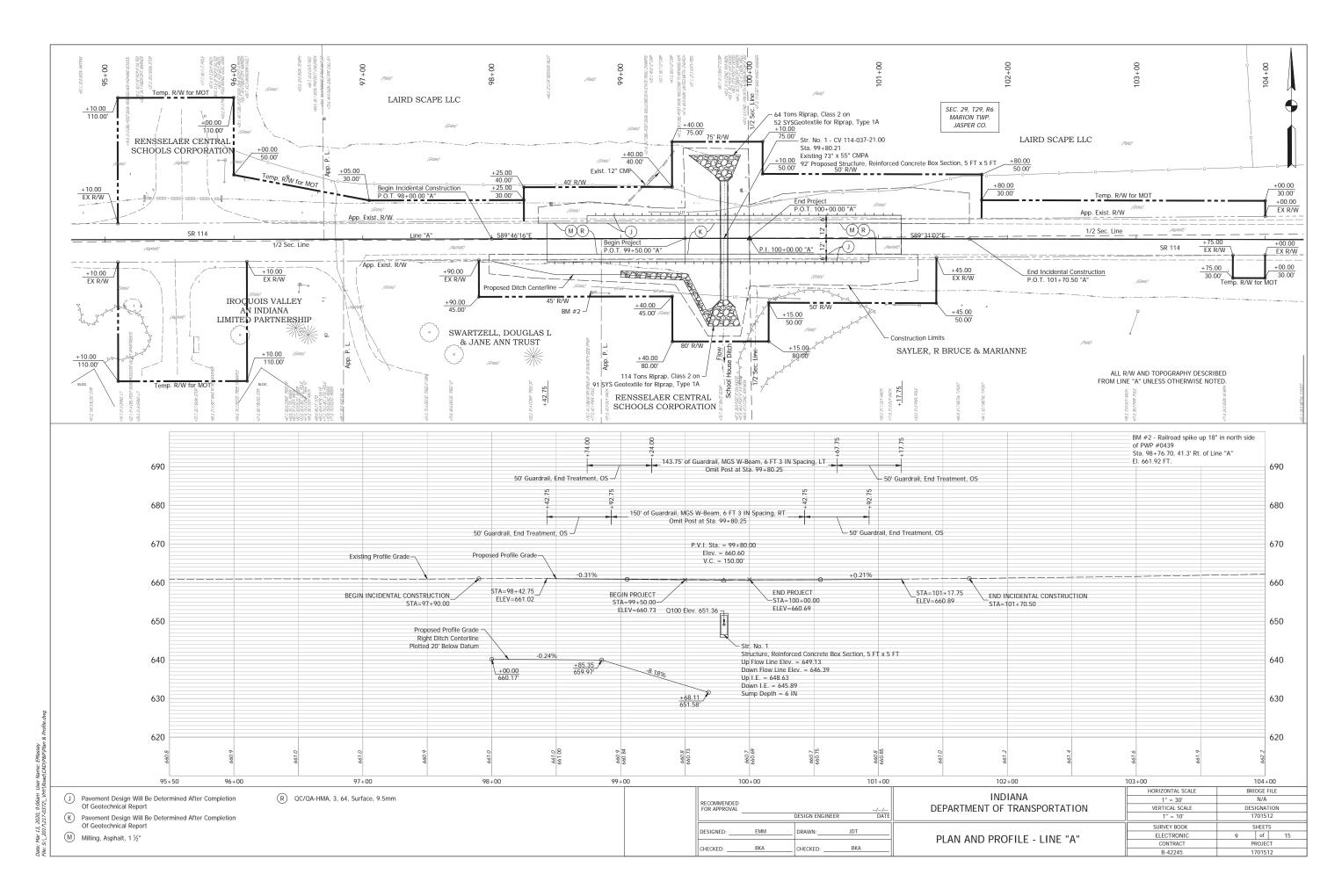
O Compacted Aggregate, No. 53

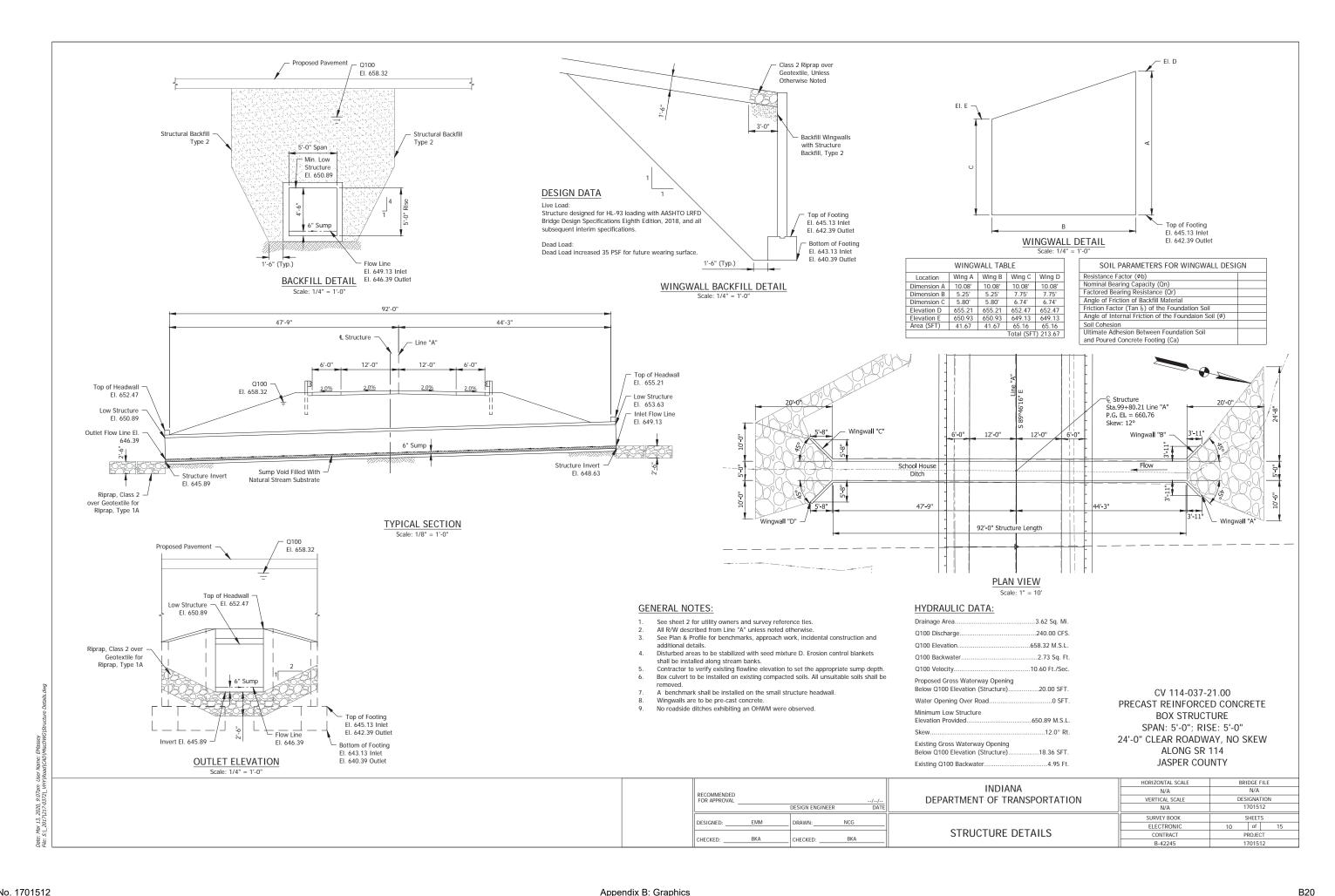


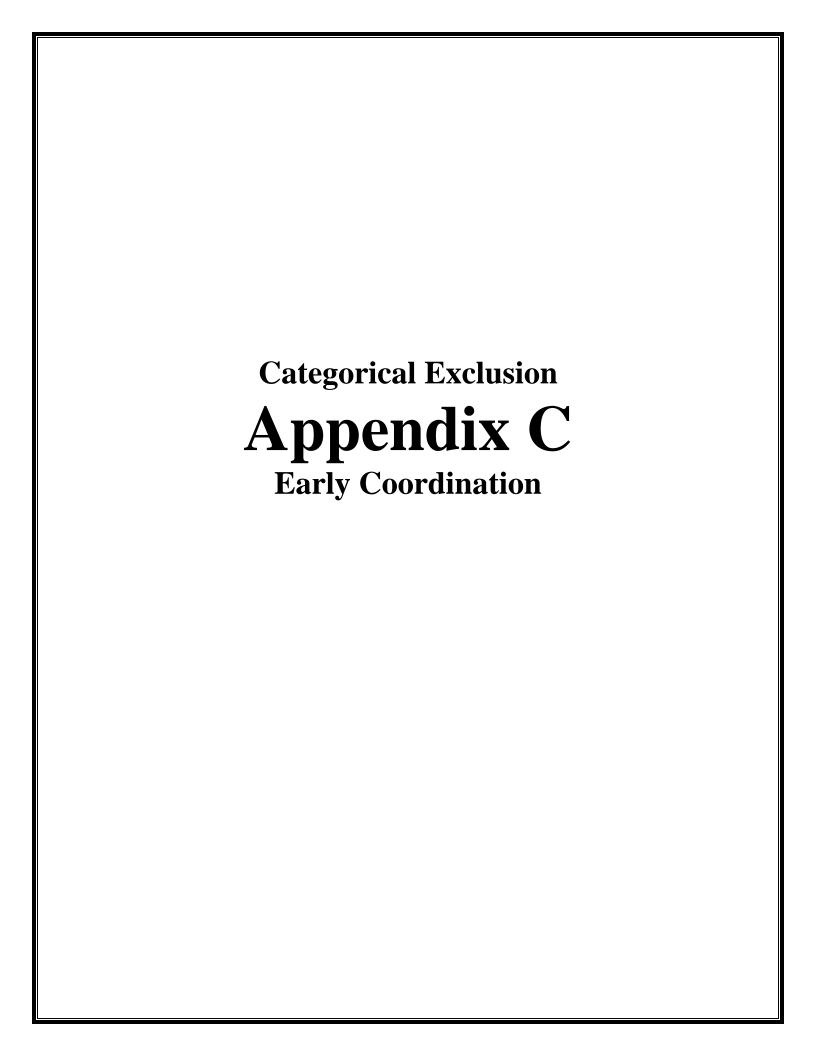














October 15, 2019
«AgencyCompany»
«Name», «Title»
«Address_1»
«Address_2»
«City», «State» «Zip»

Sample Early Coordination Letter

Re: Des. No. 1701512

Culvert #114-037-21.00, SR 114 over an UNT to Iroquois River

1.09 miles east of US 231 Jasper County, Indiana

Dear «Salu»:

Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would replace the existing corrugated metal pipe (CMP) structure with a new structure that is hydrologically sufficient in size. 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 Des. No. and project description in your reply**. We will incorporate your comments into the formal environmental study. Your cooperation in this endeavor is appreciated.

Project Location and Existing Conditions

The proposed project is located in Jasper County, 1.09 miles east of US 231. Specifically, the project is located in Section 29, Township 29 North, and Range 6 West in Marion Township as depicted on the Rensselaer U.S. Geological Survey (USGS) Quadrangle. Adjacent land use consists of agricultural fields. Please see attachments for maps and photographs of the proposed project area.

SR 114 is functionally classified as a minor arterial. The typical section of SR 114 is two 12-foot wide travel lanes with 5-foot paved shoulders. The posted speed limit is 35 miles per hour. The existing structure is a 85-foot long elliptical CMP with a 6.5-foot span and a 5-foot height.

Purpose and Need

The need for this project stems from the deteriorated condition of the existing structure. During routine inspections in July 2017, the structure was in fair condition and exhibited rust throughout the structure and sediment gathering on the floor of the structure. The north end and channel bank have minor erosion.

The purpose of the project is to restore the structural integrity to an improved condition and to improve the safety for traveling motorists.

Proposed Project

The proposed project would involve the replacement of the existing CMP (CV 114-037-21.00) that conveys an UNT to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a 5-foot span and a 5-foot height. Additionally, Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and a new hot mix asphalt overlay will be applied.

The Maintenance of Traffic (MOT) has not been finalized but will likely require the closure of SR 114 within the project area. A detour route will be established to maintain traffic in the area. Signs and barrels will be placed along SR 114 notifying travelers of the road closure and detour route. The MOT will be implemented per the *Indiana Design Manual* guidelines.

Right-of-Way (ROW)

Existing ROW within the project area is the edge of pavement. The project is anticipated to require approximately 0.61 acre of new permanent ROW and approximately 0.60 acre of new temporary ROW. No tree clearing is anticipated to occur.

Environmental Resources

A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will be impacted. One stream, UNT to Iroquois River, runs through the project area. One wetland is located 0.05 mile south of the project area. One lake is located 0.05 mile south of the project area. The project is located within the 100-year floodplain of Iroquois River. Due to the identification and proximity of water resources to the project area, a *Waters of the U.S. Determination Report* will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. The project lies within the Rensselaer Urbanized Area Boundary. No additional "Red Flags" are mapped within the immediate vicinity of the project.

Urbanized Area Boundary (UAB)

The project lies within a UAB, and in accordance with 327 IAC 15-13 (Rule 13 – Municipal Separate Storm Sewer Systems), INDOT LaPorte District will develop a Storm Water Quality Management Plan. As part of its implementation, projects falling within the UAB will be required to consider appropriate post-construction storm water quality best management practices (BMPs). These BMPs should take into consideration the available space, pollutants of concern, and receiving waters.

Section 106

The National Register of Historic Places (National Register) and the Indiana Register of Historic Sites and Structures (State Register) were checked using the State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and

C2

Cemeteries Map (IHBBCM). No properties on either list were identified within a half mile of the project area. The Jasper County Interim Report (2002), which includes the Indiana Historic Sites and Structures Inventory (IHSSI) for the county, was also examined. Two previously inventoried resources were recorded in the vicinity of the project area: IHSSI #073-394-40018, Gangdoff Farm, Contributing and IHSSI #073-533-40019, Bridge, Notable. No cemeteries were noted within the project area. The Indiana Historic Bridge Inventory Volume 2: Listing of Historic and Non-Historic Bridges (February 2009) by Mead & Hunt was reviewed. IHSSI #073-533-40019 is a potentially eligible bridge that is not included in the Inventory. No eligible bridges in the Inventory were located near the project area. A virtual review of the area at ground level was conducted via Google Earth Street View, and potentially Contributing above-ground resources were noted within, or near, the project area. The additional areas of right-of-way will be further evaluated for archaeological and historic resources for Section 106 compliance. However, at this time it is anticipated this project will qualify for the Minor Projects Programmatic Agreement (MPPA).

Range-wide Informal Programmatic Consultation

Jasper County is within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (*Myotis septentrionalis*). Land use in the vicinity of the project is rural with agricultural fields surrounding the project area. The project appears to fall under the Range-wide Programmatic Informal Consultation process. Completion of the appropriate determination key through the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) portal will occur. If a determination of "Not Likely to Adversely Affect," or "Likely to Adversely Affect" is reached then additional consultation with the USFWS will occur through INDOT.

Early Coordination

Should we not receive your response within **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 project, please feel free to contact me at 317-222-3880 or at RHook@lochgroup.com. Additionally, should you want to contact the sponsor of this project, INDOT LaPorte District, please contact the Project Manager, Mr. Tim Hoffa, at (219) 325-7582 or at thoffa@indot.in.gov.

Thank you in advance for your input.

Sincerely,

And Hook

Ruth Hook, CPESC, CESSWI Environmental Biologist Lochmueller Group, Inc.

Attachments:

- General Location Map
- USGS Topographical, Rensselaer Quadrangle Map
- Red Flag Investigation Maps
- Aerial Map
- Photo Location Map and Photographs

Distribution List:

- USFWS, Northern Indiana Suboffice (electronic submission)
- Natural Resources Conservation Service, Indianapolis Office (electronic submission)
- U.S. Army Corps of Engineers, Detroit District (electronic submission)
- U.S. Housing and Urban Development (electronic submission)
- Federal Highway Administration, Indiana Division (electronic submission)
- National Park Service
- Indiana Department of Natural Resources (IDNR), Division of Fish and Wildlife (electronic submission)
- Indiana Department of Environmental Management (IDEM) (electronic submission)
- INDOT, Office of Public Involvement (electronic submission)
- INDOT, Office of Aviation (electronic submission)
- INDOT, Environmental Services (electronic submission)
- INDOT, LaPorte District (electronic submission)
- INDOT, Project Manager (electronic submission)
- Indiana Geological Survey (electronic submission)
- Jasper County Highway Department (electronic submission)
- Jasper County Board of Commissioners (electronic submission)
- Jasper County Council (electronic submission)
- Jasper County, Marion Township Trustee
- Jasper County Surveyor's Office (electronic submission)
- Jasper County Emergency Management Agency
- Jasper County Ambulance Service
- Jasper County Sheriff's Department
- Jasper County Hospital
- Jasper County Economic Development Commission
- Rensselaer Central School Corporation
- Rensselaer Volunteer Fire Department



Organization and Project Information

Project ID:

Des. ID: 1701512

Project Title: SR 114 Small Structure Project

Name of Organization: Lochmueller Group

Requested by: Chris Kunkel

Environmental Assessment Report

1. Geological Hazards:

• High liquefaction potential

• 1% Annual Chance Flood Hazard

2. Mineral Resources:

• Bedrock Resource: High Potential

• Sand and Gravel Resource: Low Potential

3. Active or abandoned mineral resources extraction sites:

• 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

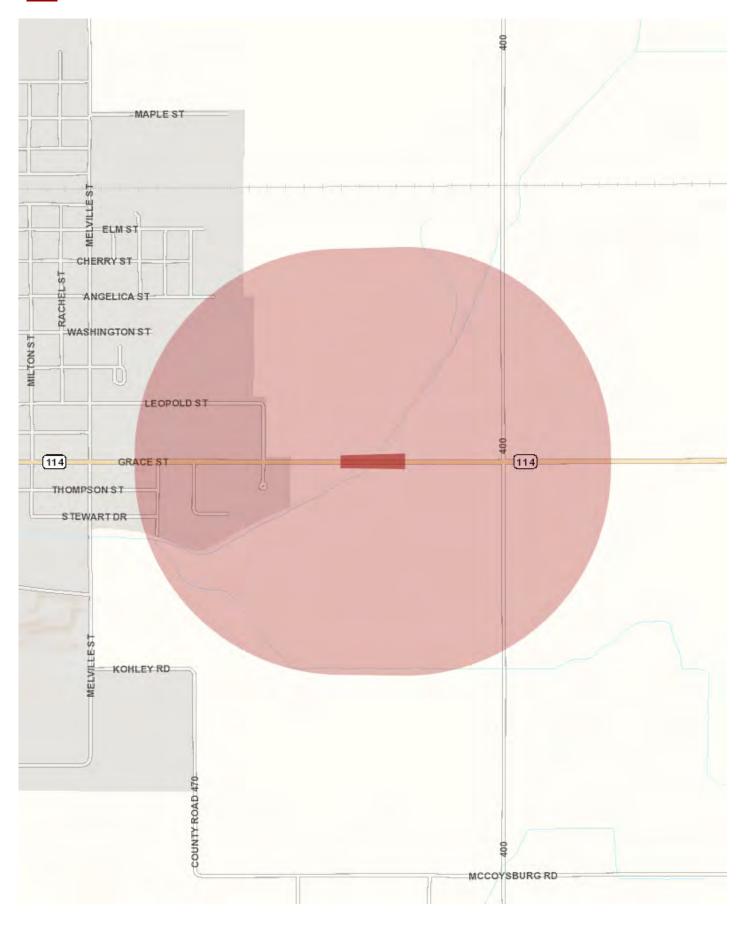
This information was furnished by Indiana Geological Survey

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

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: October 18, 2019







Metadata:

- https://maps.indiana.edu/metadata/Geology/Seismic Earthquake Liquefaction Potential.html
- $\bullet \ https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html$
- https://maps.indiana.edu/metadata/Hydrology/Floodplains_FIRM.html
- https://maps.indiana.edu/metadata/Geology/Bedrock Geology.html

Kunkel, Chris

From: Wright, Mary <MWRIGHT@indot.IN.gov>
Sent: Monday, October 21, 2019 9:54 AM

To: Kunkel, Chris

Subject: RE: SR 114 Small Structure Project (Des. No. 1701512) Early Coordination Letter

Early Coordination and Creating a Public Involvement Plan (PIP)

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

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

Rickie Clark, Manager 100 North Senate Avenue, Room N642 Indianapolis, IN 46204

Phone: 317-232-6601 Email: rclark@indot.in.gov

From: Kunkel, Chris [mailto:CKunkel@lochgroup.com]

Sent: Tuesday, October 15, 2019 5:42 PM

To: Clark, Rickie <RCLARK@indot.IN.gov>; Wright, Mary <MWRIGHT@indot.IN.gov> **Subject:** SR 114 Small Structure Project (Des. No. 1701512) Early Coordination Letter

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

Good afternoon,

Please see the attached early coordination letter and associated attachments for the small structure project in Jasper County, Indiana.

Please contact myself or Ruth Hook (rhook@lochgroup.com) should you have any questions or comments regarding this project.

Thank you for your time and have a great day,

Chris Kunkel

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

October 30, 2019

Ruth Hook Lochmueller Group, Inc. 3502 Woodview Trace, Suite 150 Indianapolis, Indiana 46268

Dear Ms. Hook:

The proposed project to address the deteriorating condition of the culvert #114-037-21.00 along State Road 114 over an unnamed tributary to Iroquois in Jasper County, Indiana, (Des No 1701512), as referred to in your letter received October 15, 2019, will not cause a conversion of prime farmland.

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

Sincerely,

JERRY RAYNOR Digitally signed by JERRY RAYNOR Date: 2019.11.06 11:05:45 -05'00'

JERRY RAYNOR State Conservationist

Helping People Help the Land.









THIS IS NOT A PERMIT

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #:

ER-21919

Request Received: October 15, 2019

Requestor:

Lochmueller Group Inc

Ruth Hook

3502 Woodview Trace, Suite 150

Indianapolis, IN 46268

Project:

SR 114 small structure (CV 114-037-21.00) replacement over UNT Iroquois River, 1.09

miles east of US 231; Des #1701512

County/Site info:

Jasper

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 pursuant to the Flood Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile, unless it qualifies for a bridge exemption (see enclosure). Please include a copy of this letter with the permit application, if required.

Natural Heritage Database: The

The Natural Heritage Program's data have been checked.

To date, no plant or animal species listed as state or federally threatened, endangered,

or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments:

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

1) Crossing Structure:

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

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. When determining an appropriate bridge or culvert size, consider whether or not wildlife/vehicle collisions are a concern at the crossing site. If feasible, a larger bridge or culvert opening can allow for the

Attachments:

A - Bridge Exemption Criteria

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

movement of wildlife under the roadway in order to minimize wildlife/vehicle collisions.

2) Riparian Habitat:

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

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

3) Cofferdams:

Any proposed dewatering should be detailed using the following guidelines:

- a. Dewatering should be limited to one streambank or side of the creek (at the bridge construction site) at a time so at least half of the creek is always flowing naturally. On larger streams, both sides can be dammed at once as long as the center of the channel is allowed to flow naturally.
- b. Do not dewater directly into the stream. Dewater into a sediment bag, into a roll off box, and onto a riprap apron or similar system.
- c. Cofferdam materials and methods can vary. Self-contained and encapsulated materials and methods are recommended. Anything filled with water is better than soil-filled where there is a potential for leaking or failure of the system due to length of use or accidents.
- d. Dewatering pumps should incorporate filters or bypasses to avoid injuring or killing fish and other aquatic organisms.

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 within the project area using a mixture of grasses (excluding all varieties of tall fescue), sedges, and wildflowers native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion.
- 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 construct any temporary runarounds, causeways, diversions, or pump arounds.
- 5. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 6. Do not use broken concrete as riprap.
- 7. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 8. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 9. 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.
- 10. 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

Attachments:

A - Bridge Exemption Criteria

THIS IS NOT A PERMIT

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

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.

11. Do not excavate or place fill in any riparian wetland.

Contact Staff:

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

Date: November 14, 2019

`

Christie L. Stanifer Environ. Coordinator

Division of Fish and Wildlife

Attachments:

A - Bridge Exemption Criteria



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



In Reply Refer To: March 17, 2020

Consultation Code: 03E12000-2020-SLI-1056

Event Code: 03E12000-2020-E-04894

Project Name: SR 114 Small Structure Replacement Project (Des. No. 1701512)

Subject: Updated list of threatened and endangered species that may occur in your proposed

project location, and/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-1056

Event Code: 03E12000-2020-E-04894

Project Name: SR 114 Small Structure Replacement Project (Des. No. 1701512)

Project Type: DEVELOPMENT

Project Description: Federal Highway Administration (FHWA) and the Indiana Department of

Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would involve the replacement of the existing structure with a new structure. The proposed project is located in Jasper County, 1.09 miles east of US 231.

Specifically, the project is located in Section 29, Township 29 North, and Range 6 West in Marion Township as depicted on the Rensselaer U.S. Geological Survey (USGS) Quadrangle. SR 114 is functionally classified as a minor arterial. Adjacent land use consists of agricultural fields. The typical section of SR 114 is two 12-foot wide travel lanes (one in each direction) with 5-foot paved shoulders on either side of the roadway. The

existing culvert CV 114-037-21.00 is a 85-foot long elliptical CMP with a 6.5-foot span and a 5-foot height. The proposed project would involve the replacement of the existing CMP (CV 114-037-21.00) that conveys an UNT to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a 5-foot span and a 5-foot height. Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and 1½ inch thick hot mix asphalt (HMA) overlay will be applied. The project will involve the installation of 243.75 feet of guardrail on the north side or SR 114 and 250 feet of guardrail on the south side of SR 114. The acquisition of approximately 0.61 acre of new permanent right-of-way will be required. Tree clearing is not anticipated. No permanent lighting is proposed as part of this project. Temporary lighting may be required if night work occurs. The total

project length is 370 feet along SR 114. All project work will occur within 30 feet of existing roadway.

Suitable summer bat habitat is located within or adjacent to the project area along the south side of SR 114.

Project work is expected to begin in Spring of 2021.

The Red Flag Investigation for the project was performed for a 0.5 mile radius of the project area on September 26, 2019. As part of this RFI, INDOT LaPorte District checked the USFWS database for the presence of endangered or threatened bat species or their hibernacula within 0.5 miles of the project area. No documented habitat or hibernacula were found.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/40.933626293652964N87.13215037594175W



Counties: Jasper, IN

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.

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

Mammals

NAME STATUS

Indiana Bat *Myotis sodalis*

Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf

Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

• Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html

Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

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

Des. No. 1701512



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html



In Reply Refer To: March 27, 2020

Consultation Code: 03E12000-2020-I-1056 Event Code: 03E12000-2020-E-05215

Project Name: SR 114 Small Structure Replacement Project (Des. No. 1701512)

Subject: Concurrence verification letter for the 'SR 114 Small Structure Replacement Project

(Des. No. 1701512)' 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 **SR 114 Small Structure Replacement Project (Des. No. 1701512)** (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 Longeared 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 <u>not likely to adversely affect</u> (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 <u>not</u> 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

SR 114 Small Structure Replacement Project (Des. No. 1701512)

Description

Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would involve the replacement of the existing structure with a new structure. The proposed project is located in Jasper County, 1.09 miles east of US 231. Specifically, the project is located in Section 29, Township 29 North, and Range 6 West in Marion Township as depicted on the Rensselaer U.S. Geological Survey (USGS) Quadrangle. SR 114 is functionally classified as a minor arterial. Adjacent land use consists of agricultural fields. The typical section of SR 114 is two 12-foot wide travel lanes (one in each direction) with 5-foot paved shoulders on either side of the roadway. The existing culvert CV 114-037-21.00 is a 85-foot long elliptical CMP with a 6.5-foot span and a 5-foot height. The proposed project would involve the replacement of the existing CMP (CV 114-037-21.00) that conveys an UNT to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a 5-foot span and a 5-foot height. Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and 1 ½ inch thick hot mix asphalt (HMA) overlay will be applied. The project will involve the installation of 243.75 feet of guardrail on the north side or SR 114 and 250 feet of guardrail on the south side of SR 114. The acquisition of approximately 0.61 acre of new permanent right-of-way will be required. Tree clearing is not anticipated. No permanent lighting is proposed as part of this project. Temporary lighting may be required if night work occurs. The total project length is 370 feet along SR 114. All project work will occur within 30 feet of existing roadway.

Suitable summer bat habitat is located within or adjacent to the project area along the south side of SR 114.

Project work is expected to begin in Spring of 2021.

The Red Flag Investigation for the project was performed for a 0.5 mile radius of the project area on September 26, 2019. As part of this RFI, INDOT LaPorte District checked the USFWS database for the presence of endangered or threatened bat species or their hibernacula within 0.5 miles of the project area. No documented habitat or hibernacula were found.

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 <u>summer survey guidance</u> 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 <u>summer survey guidance</u> 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 <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

- 12. Does the project include activities **within documented Indiana bat habitat**^{[1][2]}?
 - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
 - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

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

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur^[1]?
 - [1] Coordinate with the local Service Field Office for appropriate dates.
 - *B)* During the inactive season
- 15. Does the project include activities within documented NLEB habitat^{[1][2]}?
 - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
 - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

- 16. Will the removal or trimming of habitat or trees occur within suitable but undocumented NLEB roosting/foraging habitat or travel corridors?
 Yes
- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
 - *B) During the inactive season*
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?
 No
- 20. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

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

 No
- 23. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

 No
- 24. Does the project include slash pile burning? *No*
- 25. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *Yes*
- 26. 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 <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 27. 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 <u>User Guide Appendix D</u> 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

10_StructureAssessment 2020-03-11.pdf https://ecos.fws.gov/ipac/project/NTLXWIWUYZBVHOP6A6EIPDWWPM/
 projectDocuments/20751558

- 28. 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

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

No

30. 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

- 31. Will the project involve the use of **temporary** lighting *during* the active season? *Yes*
- 32. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

33. Will the project install new or replace existing **permanent** lighting? *No*

34. 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

35. 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

36. Will the project raise the road profile **above the tree canopy**? *No*

37. 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

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 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.

39. 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.

40. 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

41. 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

42. 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

43. 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

44. 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

45. Lighting AMM 1

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

Project Questionnaire

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

N/A

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

N/A

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

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. 0.007

4. Please describe the proposed bridge work:

The proposed project will replace the existing CMP with a new reinforced concrete box (RCB) that is 92 feet long and has a 5-foot span and a 5-foot height. Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and 1 $\frac{1}{2}$ inch thick hot mix asphalt (HMA) overlay will be applied. The project will involve the installation of 243.75 feet of guardrail on the north side or SR 114 and 250 feet of guardrail on the south side of SR 114.

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

Spring 20121

6. Please enter the date of the bridge assessment:

June 27 2019

Avoidance And Minimization Measures (AMMs)

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

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.

LIGHTING AMM 1

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

TREE REMOVAL AMM 1

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

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 <u>no bats observed</u>.

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.

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

This key was last updated in IPaC on December 02, 2019. 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 <u>only</u> be used to verify project applicability with the Service's <u>February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects</u>. 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 <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

APPENDIX D: Bridge/Structure Assessment Form

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

| DOT Project # | Water Body | Date/Time of Inspection | Within 1,000ft of suitable bat habitat (circle |
|---------------|-----------------------|-------------------------|--|
| 1701512 | UNT to Iroquois River | June 27, 2019 11:00 AM | one) |
| | | , | Yes |
| | | | No |

| Route | County | Federal Structure ID |
|--------|---------------|----------------------|
| SR 114 | Jasper County | CV 114-037-21.00 |

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 | 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 | x | 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 | Х | Possible corridors for netting | None/poor | Marginal | Excellent | | |
| All guardrails | | | | | | | | |
| All expansion joints | | | | | | | | |
| Spaces between concrete end walls and the bridge deck | | | | | | | | |

| Vertical surfaces on concrete I- beams | | | | | |
|---|--|---|---------------------|-----|--|
| vidence of Bats (Circle all that apply) Prese | nce of one or more indicators is suff | icient evidence that bats may be | e using the structu | re. | |
| visual (e.g. survey, thermal, emergent etc.) Livenumber seen Deadnumber seen Photo documentation Y/N | Guano Odor Y/N Photo documentation Y/N | Staining definitively from Photo documentation Y, | | | |
| audible | | 0 = | | | |
| Assessment Conducted By:Ruth Hook | Signature(s): | Rugh Hook | | | |

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.

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



DEPARTMENT OF THE ARMY U. S. ARMY, CORPS OF ENGINEERS, DETROIT DISTRICT 477 MICHIGAN AVE. DETROIT, MICHIGAN 48226-2550

November 15, 2019

Ruth Hook Lochmueller Group, Inc. 3502 Woodview Trace, Ste. 150 Indianapolis, IN 46268

Dear Ms. Hook:

This is in response to your October 15, 2019, letter requesting comments on a proposed culvert replacement project for an unnamed tributary (UNT) to the Iroquois River along State Road (SR) 114, about 1.09 miles east of United States (US) Highway 231 on the east side of Rensselaer, Jasper County, Indiana (Des. No. 1701512). The project purpose is to replace the existing, deteriorated elliptical corrugated metal pipe culvert (85-foot long, 6.5-foot span, 5-foot high) with a 95-foot-long reinforced concrete box of 5-foot span and 5-foot height. Class II riprap would be included at both ends for scour protection. Approach pavements on SR 114 would be milled and a new hot mix asphalt overlay applied for 107 feet west and 117 feet east. The following information is provided in accordance with our responsibilities under our Regulatory and Civil Works Programs.

Your project may require a Department of the Army Permit, pursuant to Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. Any of the proposed work that occurs within a water of the United States or adjacent wetlands, will likely require prior authorization through our regulatory permit process. For further information on permit requirements and the application process, please contact the Michiana Branch, Regulatory Office, South Bend, Indiana, at 574-232-1952.

There are no current plans under our Civil Works Program to develop waterways in the vicinity of your project; nor do we have any current or proposed flood risk management studies for the area described in your letter.

Review of the applicable Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map database indicates that the culvert outlet and the eastern end of the road resurfacing work are both at (or near) the Federally mapped floodplain for the Iroquois River (Enclosure). Placement of riprap at the culvert outlet or fill for roadway reconstruction could result in adverse floodplain impacts, if it results in changes to the ground surface profile within the floodplain.

We recommend that you coordinate with local officials and with the Indiana Department of Natural Resources regarding the applicability of a floodplain permit prior to construction. This coordination would help ensure compliance with local and state floodplain management regulations and acts, such as the Indiana Flood Control Act (IC 13-2-22). If you obtain information that any part of your project would impact the floodplain, you should consider other alternatives that, to the extent possible, avoid or minimize adverse impacts associated with use of the floodplain.

We appreciate the opportunity to comment on the proposed culvert replacement project for the UNT to the Iroquois River along SR 114, about 1.09 miles east of US 231 in Jasper County, Indiana. Questions regarding our regulatory program should be directed to Mr. Don Reinke, Regulatory Office, at 313-226-6812. Any other questions may be directed to Mr. Paul Allerding of my staff at 313-226-7590 or me at 313-226-2476.

Sincerely,

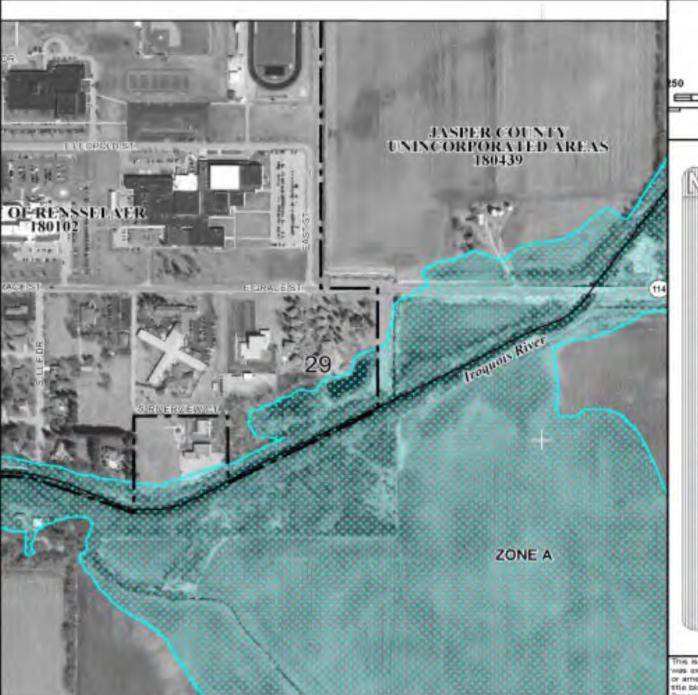
Original signed

Charles A. Uhlarik Chief, Environmental Analysis Branch

Enclosure

Copies furnished:

Don Reinke, Corps, Regulatory Office, Detroit Mary Weidel, Corps, Floodplain Management Services, Detroit





MAP SCALE 1" = 500'

1000

FEET

PANEL 0292C

FIRM

FLOOD INSURANCE RATE MAP JASPER COUNTY, INDIANA AND INCORPORATED AREAS

PANEL 292 OF 525

ISEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NAMED TANKS SEPTEM APPRING COUNTY WORK SOME CO.

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER 18073C0292C EFFECTIVE DATE

DECEMBER 21, 2018

Federal Emergency Management Agency

This is an official copy of a person of the above referenced food map. It was extracted using F-MT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about histional Flood Insurance Program food maps check the FEMA Flood Map Store at www.mso.fema.gov



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

INDOT LaPorte District Bradon Downing 315 E Boyd Blvd LaPorte , IN 46350 Date Lochmueller Group, Inc. Brenten Reust 3502 Woodview Trace #150 INDIANAPOLIS, IN 46268

Dear Grant Administrator or Other Finance Approval Authority:

https://portal.idem.in.gov/IDEMWebForms/enviroletter.aspx Des. No. 1701512

RE: Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would replace the existing corrugated metal pipe (CMP) structure with a new structure that is hydrologically sufficient in size. The proposed project is located in Jasper County, 1.09 miles east of US 231. Specifically, the project is located in Section 29, Township 29 North, and Range 6 West in Marion Township as depicted on the Rensselaer U.S. Geological Survey (USGS) Quadrangle. Adjacent land use consists of agricultural fields. SR 114 is functionally classified as a minor arterial. The typical section of SR 114 is two 12foot wide travel lanes with 5-foot paved shoulders. The posted speed limit is 35 miles per hour. The existing structure is a 85-foot long elliptical CMP with a 6.5-foot span and a 5-foot height. The proposed project would involve the replacement of the existing CMP (CV 114-037-21.00) that conveys an UNT to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a 5-foot span and a 5-foot height. Additionally, Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and a new hot mix asphalt overlay will be applied. The Maintenance of Traffic (MOT) has not been finalized but will likely require the closure of SR 114 within the project area. A detour route will be established to maintain traffic in the area. Signs and barrels will be placed along SR 114 notifying travelers of the road closure and detour route. The MOT will be implemented per the Indiana Design Manual guidelines. Existing ROW within the project area is the edge of pavement. The project is anticipated to require approximately 0.61 acre of new permanent ROW and approximately 0.60 acre of new temporary ROW. No tree clearing is anticipated to occur. A Red Flag Investigation (RFI) was performed for a 0.5-mile radius for the project area. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will be impacted. One stream, UNT to Iroquois River, runs through the project area. One wetland is located 0.05 mile south of the project area. One lake is located 0.05 mile south of the project area. The project is located within the 100-year floodplain of Iroquois River. Due to the identification and proximity of water resources to the project area, a Waters of the U.S. Determination Report will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. The project lies within the Rensselaer Urbanized Area Boundary. No additional "Red Flags" are mapped within the immediate vicinity of the project. The project lies within a UAB, and in accordance with 327 IAC 15-13 (Rule 13 - Municipal Separate Storm Sewer Systems), INDOT LaPorte District will develop a Storm Water Quality Management Plan. As part of its implementation, projects falling within the UAB will be required to consider appropriate post-construction storm water quality best management practices (BMPs). These BMPs should take into consideration the available space, pollutants of concern, and receiving waters.

The Indiana Department of Environmental Management (IDEM) is aware that many local government or not-for-profit entities are seeking grant monies, a bond issuance, or another public funding mechanism to cover some portion of the cost of a public works, infrastructure, or community development project. IDEM also is aware that in order to be eligible for such funding assistance, applicants are required to first evaluate the potential impacts that their particular project may have on the environment. In order to assist applicants seeking such financial assistance and to ensure that such projects do not have an adverse impact on the environment, IDEM has prepared the following list of environmental issues that each applicant must consider in order to minimize environmental impacts in compliance with all relevant state laws.

IDEM recommends that each applicant consider the following issues when moving forward with their project. IDEM also requests that, in addition to submitting the information requested above, each applicant also sign the attached certification, attesting to the fact that they have read the letter in its entirety, agree to abide by the recommendations of the letter, and to apply for any permits required from IDEM for the completion of their project.

IDEM recommends that any person(s) intending to complete a public works, infrastructure, or community development project using any public funding consider each of the following applicable recommendations and requirements:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

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

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

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

- 2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality. To learn more about the water quality certification program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).
- 3. If the USACE determines that a wetland or other body of water is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A state isolated wetland permit from IDEM's Office of Water Quality is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the Office of Water Quality at 317-233-8488.
- 4. If your project will impact more than 0.5 acres of wetland, stream relocation, or other large-scale alterations to bodies of water such as the creation of a dam or a water diversion, you should seek additional input from the Office of Water Quality, Wetlands staff at 317-233-8488.

https://portal.idem.in.gov/IDEMWebForms/enviroletter.aspx Des. No. 1701512

- 5. Work within the one-hundred year floodway of a given body of water is regulated by the Department of Natural Resources, Division of Water. Contact this agency at 317-232-4160 for further information.
- 6. 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.
- 7. 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.

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

- 9. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.
- For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
- 11. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project (see page 1) should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

- Regarding open burning, and disposing of organic debris generated by land clearing activities; some types
 of open burning are allowed under specific conditions (http://www.in.gov/idem/4148.htm
 (http://www.in.gov/idem/4148.htm)). You also can seek an open burning variance from IDEM.
 - IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on-site. You must register with IDEM if more than 2,000 pounds is to be composted; contact 317-232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) on-site, although burying large quantities of such material can lead to subsidence problems.
- 2. Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.
 - If construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for three to five years, precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus Histoplasma capsulatum, which stems from bird or bat droppings that have accumulated in one area for three to five years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at 317-233-7272.
- 3. The U.S. EPA and the U.S. Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. For a county-by-county map of predicted radon levels in Indiana, visit http://www.in.gov/idem/4267.htm (http://www.in.gov/idem/4267.htm).
 - The U.S. EPA further recommends that all homes and apartments (within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L or higher, then U.S. EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L or higher, then U.S. EPA recommends the installation of radon-reduction measures. For a list of qualified radon testers and radon mitigation (or reduction) specialists, visit http://www.

https://portal.idem.in.gov/IDEMWebForms/enviroletter.aspx Des. No. 1701512 in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf). 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).

4. With respect to asbestos removal, all facilities slated for renovation or demolition (except residential buildings that have four (4) 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.

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 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. Billings will occur 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).

- 5. 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/idem/permits/guide/waste/leadabatement.html (http://www.in.gov/idem/permits/guide/waste/leadabatement.html).
- 6. 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 of April through October. See 326 IAC 8-5-2, Asphalt Paving Rule

(http://www.ai.org/legislative/iac/T03260/A00080.PDF (http://www.ai.org/legislative/iac/T03260/A00080.PDF)).

- 7. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- 8. For more information on air permits, visit http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or oamprod at idem.in.gov.

LAND QUALITY

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

- 1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
- All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).
- 3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
- 4. If Polychlorinated Biphenyls (PCBs) are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
- If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes. (Asbestos removal is addressed above, under Air Quality.)
- 6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317-308-3039(http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm)).

FINAL REMARKS

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

Please note that this letter does not constitutes a permit, license, endorsement, or any other form of approval on the part of either the Indiana Department of Environmental Management or any other Indiana state agency.

Should you have any questions relating to the content or recommendations of this letter, or if you have additional questions about whether a more complete environmental review of your project should be conducted, please feel free to contact Steve Howell at (317) 232-8587, snhowell@idem.in.gov.

https://portal.idem.in.gov/IDEMWebForms/enviroletter.aspx Des. No. 1701512

7/9 C45

Signature(s) of the Applicant

I acknowledge that I am seeking grant monies, a bond issuance, or other public funding mechanism to cover some portion of the cost of the public works, infrastructure, or community development project as described herein, which I am working (possibly with others) to complete.

Project Description

Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would replace the existing corrugated metal pipe (CMP) structure with a new structure that is hydrologically sufficient in size. The proposed project is located in Jasper County, 1.09 miles east of US 231. Specifically, the project is located in Section 29, Township 29 North, and Range 6 West in Marion Township as depicted on the Rensselaer U.S. Geological Survey (USGS) Quadrangle. Adjacent land use consists of agricultural fields. SR 114 is functionally classified as a minor arterial. The typical section of SR 114 is two 12-foot wide travel lanes with 5-foot paved shoulders. The posted speed limit is 35 miles per hour. The existing structure is a 85-foot long elliptical CMP with a 6.5-foot span and a 5-foot height. The proposed project would involve the replacement of the existing CMP (CV 114-037-21.00) that conveys an UNT to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a 5-foot span and a 5-foot height. Additionally, Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and a new hot mix asphalt overlay will be applied. The Maintenance of Traffic (MOT) has not been finalized but will likely require the closure of SR 114 within the project area. A detour route will be established to maintain traffic in the area. Signs and barrels will be placed along SR 114 notifying travelers of the road closure and detour route. The MOT will be implemented per the Indiana Design Manual guidelines. Existing ROW within the project area is the edge of pavement. The project is anticipated to require approximately 0.61 acre of new permanent ROW and approximately 0.60 acre of new temporary ROW. No tree clearing is anticipated to occur. A Red Flag Investigation (RFI) was performed for a 0.5mile radius for the project area. Several "Red Flags" were identified within the 0.5-mile search radius; however, not all will be impacted. One stream, UNT to Iroquois River, runs through the project area. One wetland is located 0.05 mile south of the project area. One lake is located 0.05 mile south of the project area. The project is located within the 100-year floodplain of Iroquois River. Due to the identification and proximity of water resources to the project area, a Waters of the U.S. Determination Report will be prepared and coordination with INDOT Environmental Services Ecology and Waterway Permitting will occur. The project lies within the Rensselaer Urbanized Area Boundary. No additional "Red Flags" are mapped within the immediate vicinity of the project. The project lies within a UAB, and in accordance with 327 IAC 15-13 (Rule 13 – Municipal Separate Storm Sewer Systems), INDOT LaPorte District will develop a Storm Water Quality Management Plan. As part of its implementation, projects falling within the UAB will be required to consider appropriate post-construction storm water quality best management practices (BMPs). These BMPs should take into consideration the available space, pollutants of concern, and receiving waters.

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

Dated Signature of the Public Owner Contact/Responsible Elected Official

Bradon Downing Digitally signed by Bradon Downing Date: 2020.04.03 07:25:56 -05'00'

Bradon Downing

Dated Signature of the Project Planner/Consultant Contact Person

Brenten Reust

04/06/2020

Brenten Reust

C47

Kunkel, Chris

From: Courtade, Julian <JCourtade@indot.IN.gov>

Sent: Friday, October 18, 2019 8:23 AM

To: Kunkel, Chris

Subject: RE: SR 114 Small Structure Project (Des. No. 1701512) Early Coordination Letter

Chris -

Because of the close proximity of Jasper County Airport, if there are going to be any structures, equipment, or obstructions over 150 ft tall in height, further coordination will be required with our office. If not, then proceed as planned. Let me know if you have any questions!

Thanks,

Julian L. Courtade

Chief Airport Inspector INDOT, Office of Aviation IGCN Room N955 100 North Senate Avenue Indianapolis, IN 46204 Office: (317) 232-1477

Email: jcourtade@indot.in.gov





From: Kunkel, Chris [mailto:CKunkel@lochgroup.com]

Sent: Tuesday, October 15, 2019 5:43 PM **To:** Courtade, Julian <JCourtade@indot.IN.gov>

Subject: SR 114 Small Structure Project (Des. No. 1701512) Early Coordination Letter

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

Good afternoon,

Please see the attached early coordination letter and associated attachments for the small structure project in Jasper County, Indiana.

Please contact myself or Ruth Hook (rhook@lochgroup.com) should you have any questions or comments regarding this project.

Thank you for your time and have a great day,

Chris Kunkel

Environmental Biologist

From: Basch, Mark
To: Reust, Brenten

Cc: <u>Davis, William D; Ogden, Sarah</u>

Subject: Jasper Co. water well

Date: Monday, March 16, 2020 12:50:38 PM

Attachments: <u>20200316121117727.pdf</u>

Good Afternoon Brenten,

Thank you for your inquiry regarding the well identified by record ID 270882 located east of Rensselaer, in Jasper County. As we discussed, the location of the well shown on the DNR water Well Viewer found at https://www.in.gov/dnr/water/3595.htm is not precise, and its location has been "estimated" and situated in the center of Section 29, Township 29 N., Range 6 W., Jasper County. According to the driving directions provided on the record (attached), the well is likely located approximately ¼ mile to the east at your project area at the property adjacent to the Bethany Church at the corner of East Grace Street (Hwy 114) and County Road 400 W.

Please let me know if you have any questions or need additional information.

Thanks again,

Mark Basch

Head, Water Rights & Use Section IDNR, Division of Water 402 W. Washington Street, Room W-264 Indianapolis, Indiana 46204 317-232-0154 www.in.gov/dnr

IDNR Division of Water,

Federal Highway Administration (FHWA) and the Indiana Department of Transportation (INDOT), LaPorte District propose to proceed with a project (Des. No. 1701512) which involves replacing the existing structure (CV 114-037-21.00) carrying an unnamed tributary (UNT) to Iroquois River under SR 114. The proposed project would replace the existing corrugated metal pipe (CMP) structure with a new structure that is hydrologically sufficient in size. Within the project area is an identified water well with **ID 270882**. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. We will incorporate your comments into the formal environmental study. Your cooperation in this endeavor is appreciated. I have attached a location map of the project area for your reference. Please call or email me with any questions.

Thank You,

Brenten Reust, PWS

Environmental Biologist

^{*} Please let us know about the quality of our service by taking this brief customer survey.



Mail completed record within 30 days to:
DIVISION OF WATER
NDIANA DEPARTMENT OF NATURAL RESOURCES
2475 DIRECTORS ROW
INDIANAPOLIS, INDIANA 46241
PHONE (317) 232-4160

| | WELL LOCATION (Fill in completely) | | Pro de la como | |
|--|------------------------------------|----------------------|-----------------|---|
| County where drilled | | | 15 m | ŀ |
| | Jasper | Jasper | Eliton | ļ |
| Civil Township | Marion | Jasphn Marion | ALC II | ļ |
| Driving directions to the divisions, lot number w tion) There is space for | ith consideration | to intersecting roa | | |
| 7/8 mi. 7/8 mile | East of | Renssela Renssela | ker on ez on | |
| 114, Nor | th side, | adjacen adjacent | * | |
| to Bethen | _ | | | |
| to Beth | ony Chur | rch | | |

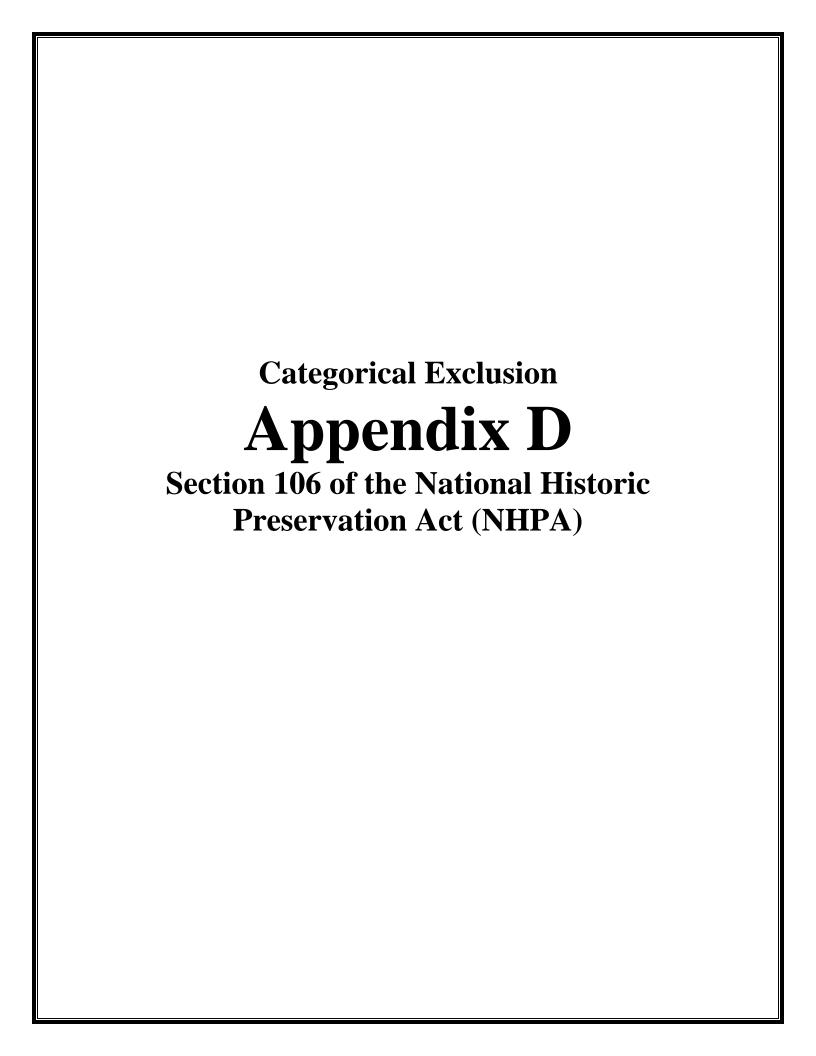
| O(\rightarrow\) | |
|---------------------|----------------------------|
| 07/9/ | OWNER — CONTRACTOR |
| Well owner | Gangloff Estate |
| Address | Box 257 Rensselaer, IN |
| Building contractor | |
| Address | |
| Findlay | Findlay Bros Well Dailling |
| Address | Box 177 West Point, IN |
| Equipment operator | Terry Findlay |
| Completion date | 7/3/87 |

| | CONS | TRUCTI | ON DET | AILS | |
|---|----------------------|---------|------------|---|--------|
| Type of well: | ☐ Gravel pack | ☐ Dri | ven | ☐ Other | |
| Use of well: | | | | *************************************** | |
| Home | ☐ Industry | ☐ Tes | st | ☐ Irrigation | |
| Public supply | √ Stock | ☐ Oth | er (specif | y) | |
| Method of drillin | g: | | | , | |
| ☐ Cable tool | 🗷 Rotary 🗆 J | et 🗆 Re | ev. rotary | ☐ Bucket rig | |
| Casing length | l) da | | Diamete | | |
| | 40 | feet | | 5 | inches |
| Screen length | | | Diamete | r | |
| | | feet | | | inches |
| Screen slot size | | | Total de | pth | |
| Depth of pump s | setting | | | | |
| Type of pump Submersible | Shallow- well jet | □ De | ep-well | Other (specify) | |
| | | | | | |
| (0) 1 | WEL | L CAPA | CITY TE | :ST | |
| (Check one) Bailing | ☐ Pumping § | goim | , | | |
| Test rate 13 | gpm | | 1 | wdown | feet |
| Static level (depth to water) | | 55 | | | feet |
| Water quality (clear, cloudy, odor, etc.) | | | | | |
| | | su | Iphu | C | |

| WELL LOG | | |
|---|---------|--------------|
| Formations: type of material | From | То |
| Top Soil Top Soil | Ø ft. | 2 ft. |
| Brown Clay Br. Clay | 2 | 17 |
| Gray Clay Gray Clay | 17 | 35 |
| Limestone Limestone | 35 | 160 |
| | | |
| | | |
| | | , . |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| (Additional space for Well Log on reverse side) | <u></u> | <u> </u> |

Date 7/6/87.

Signed



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

Date: 12/6/2019 **UPDATED 4/9/2020

Project Designation Number: 1701512

Route Number: SR 114

Project Description: Small Structure Replacement, 1.09 miles east of US 231

The proposed project will involve the replacement of the existing corrugated metal pipe (CMP) (CV 114-037-21.00) that conveys an unnamed tributary(UNT) to Iroquois River, with a new reinforced concrete box that is 92 feet long and has a five (5)-foot span and a five (5)-foot height. Additionally, Class II riprap will be installed at both the inlet and outlet of the new structure for scour protection. The roadway over the newly installed will be reconstructed and the approach pavement 107 feet west and 117 feet east of the new structure will be milled and a new hot mix asphalt overlay will be applied. Existing right-of-way (ROW) within the project area is the edge of pavement. The project is anticipated to require approximately 0.61 acre of new permanent ROW and approximately 0.60 acre of new temporary ROW.

**On 4/9/2020, INDOT-CRO was notified via email by Lochmueller Group, Inc., that guardrails will be installed as part of this project. A total of 243.75 feet of guardrail on the north side of SR 114 and 250 feet of guardrail on the south side of SR 114 will be installed within previously disturbed soils. Currently there are no guardrails adjacent to the CMP. Category B-4 was added to the form; the Minor Projects PA still applies.

| Feature crossed | (if a | oplicable): | UNT | to | Iroquoi | s River |
|-----------------|-------|-------------|-----|----|---------|---------|
|-----------------|-------|-------------|-----|----|---------|---------|

Township: Marion Township

City/County: Jasper County

Information reviewed (please check all that apply):

| General project location map | USGS map | Aerial photogr | aph | ▼ Interim Report |
|----------------------------------|-----------------|---------------------|-------------|--------------------|
| Written description of project a | rea 🔽 General p | project area photos | ▼ So | il survey data |
| Previously completed historic p | roperty reports | ✓ Previously comp | leted a | rchaeology reports |
| ☐ Bridge Inspection Information | | | | |

Other (please specify): SHAARD GIS; SHAARD; online street-view imagery; Indiana Historic Building, Bridges, and Cemeteries Map (IHBBCM); County GIS data (accessed via https://beacon.schneidercorp.com/); Bridge Inspection Application System (BIAS); project information provided by Lochmueller Group, Inc. dated 11/14/2019 and on file at INDOT-CRO;

Culver, Emily and Louis Bubb

2019 Phase Ia Field Reconnaissance for a Small Structure Replacement (Des. 1701512) along SR 114, 1.09 miles east of US 231 in Marion Township, Jasper County, Indiana.. Report on file, Indiana Department of Transportation, Cultural Resources Office.

Results of the Records Review for Above-Ground Resources:

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

The *Jasper County Interim Report* (2002; Marion Township, Rensselaer Scattered Sites) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The SHAARD information was checked against the Interim Report hard copy maps. One IHSSI site is recorded within 0.25 mile of the project: IHSSI #073-533-40019 (Bridge over Iroquois River; East State Road 114; c. 1900; rated "notable").

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered National Register eligible, if they retain material integrity. Historic districts identified in the IHSSI are usually considered eligible for the National Register.

IHSSI #073-533-40019 is over 900 feet away from the project area. Given the limited scope of the project, the resource is not considered adjacent to the project for the purposes of this determination.

The project area is semi-rural, located at the edge of a small city. Properties in the vicinity consist of agricultural fields, education-related buildings, commercial buildings, and residential houses. The majority of the above-ground structures date from the mid-to-late twentieth century, though an early-twentieth century farmhouse is present northeast of the culvert. However, the farmhouse is over 350 feet away from the subject structure and not considered adjacent to the project for the purposes of this determination. There is no evidence to suggest that any of the properties possess the significance and integrity necessary to be considered potentially eligible for the National Register.

Based on a review of aerial imagery and online street-view photography, there are unusual features located adjacent to the project area: two (2) wooden posts are present southeast of the subject structure. The property on which the posts are present is vacant with overgrown shrubs and volunteer trees. They do not appear to be associated with any extant above-ground structure. Individually, the wooden posts do not possess the significance and integrity necessary to be considered potentially eligible for the National Register. There are no other unusual features located adjacent to the project area.

The subject structure (CV 114-037-21.00) is a corrugated metal pipe (CMP); the construction date is unknown. Based on an examination of BIAS reports and photos provided from Lochmueller Group, Inc., 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:

Emily Culver and Louis Bubb/November 18, 2019

Summary of Archaeology Investigation Results:

An archaeological records check and Phase Ia field reconnaissance were conducted by 106 Consulting personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 (Culver and Bubb 2019). The archaeological records check determined that the project area had not been previously investigated for archaeological resources and contained no recorded archaeological sites. A 0.8 acre survey area was examined through visual inspection of the roadside ditches and channel of the UNT to Iroquois River and the excavation of six shovel probes in the northeastern agricultural field and southwestern lawn. No archaeological sites were identified by the reconnaissance. The report was reviewed by INDOT Cultural Resources personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by 106 consulting (Culver and Bubb: November 11, 2019). Therefore, there are no archaeological concerns.

| Does the project appear to fall under the Minor Projects PA? | yes 🖂 | no 🗌 |
|--|------------------|------------|
| If yes, please specify category, number, and condition(s) (condition highlighted): | ıs that are appl | icable are |

- A-4. Roadway work associated with surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking within previously disturbed soils where replacement, repair, or installation of curbs, curb ramps or sidewalks will not be required.
- A-9. Installation, repair, or replacement of erosion control measures along roadways, waterways and bridge piers within previously disturbed soils.
- B-4. Installation of new safety appurtenances, including but not limited to, guardrails, barriers, glare screens, and crash attenuators, under the following conditions [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

Condition A (Archaeological Resources)

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

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

Condition B (Above-Ground Resources)

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

B-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):

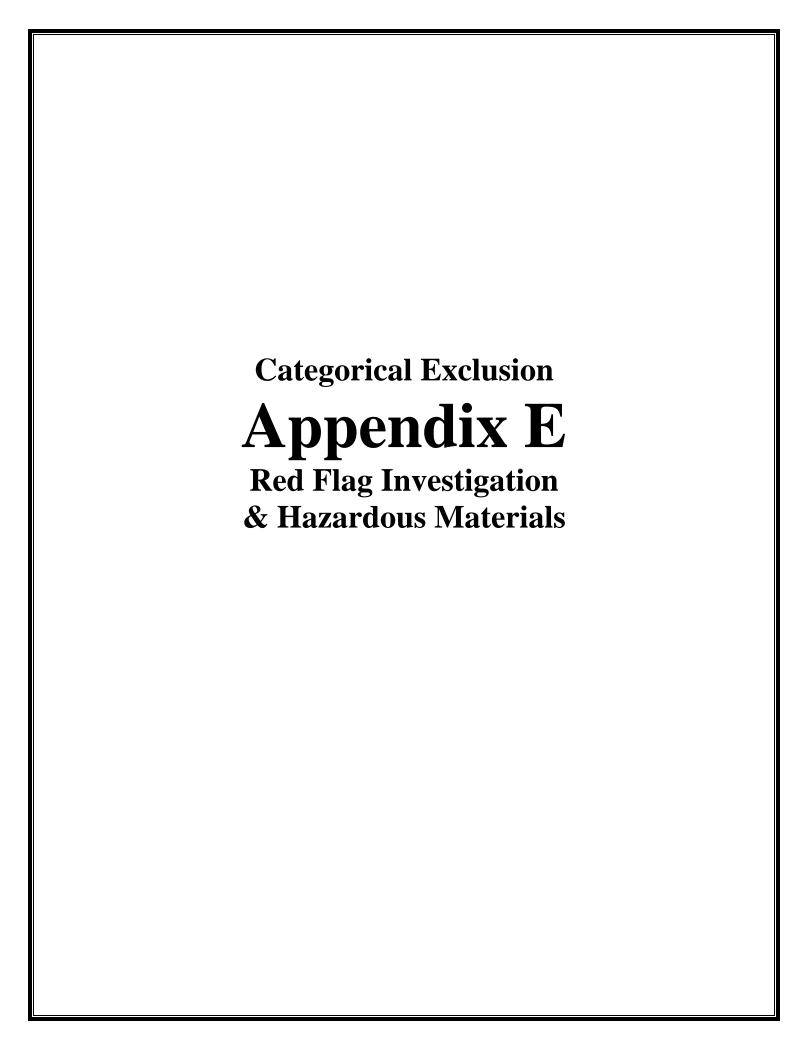
- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (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 Registereligible 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): Kelyn Alexander & Shaun Miller

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





INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue Room N642 Indianapolis, Indiana 46204-2216 (317) 232-5348 FAX: (317) 233-

Eric Holcomb, Governor Joe McGuinness, Commissioner

Date: September 26, 2019

To: Site Assessment & Management

Environmental Policy Office – Environmental Services Division

Indiana Department of Transportation 100 N Senate Avenue, Room N642

Indianapolis, IN 46204

From: Angela R. Kattmann, LPG

3502 Woodview Trace, Suite 150

Indianapolis, Indiana

AKattmann@lochgroup.com

Re: RED FLAG INVESTIGATION

Des. No. 1701512, State Project

Small Structure Replacement, CV 114-037-21.00

SR 114, 1.09 mi E of US 231 Jasper County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT), LaPorte District proposes to proceed with a new small structure replacement project on SR 114, 1.09 miles east of US 231 in Jasper County, Indiana (Des. No. 1701512). The proposed project would involve the replacement of the existing 85 feet x 6.5 feet elliptical corrugated metal pipe (CMP) structure CV 114-037-21.00 that conveys an Unnamed Tributary (UNT) to Iroquois River under SR 114, with a new structure that is hydrologically sufficient in size. The new structure dimensions would be 92 feet x 5 feet with a 5 foot rise. Guardrail would be installed for 243.75 feet on the north side of SR 114 and 250 feet of guardrail will be installed on the south side of SR 114. Class 2 riprap would be placed at the inlet and outlet of the pipe for scour protection.

| Bridge and/or Culvert Project: Yes ⊠ No □ Structur If this is a bridge project, is the bridge Historica (Note: If the project involves a <u>historical</u> bridg Section of the report). | al? Yes \square No \boxtimes , Select \square No | |
|--|--|--------------------------------------|
| Proposed right of way: Temporary # Acres | Permanent # Acres | Not Applicable ⊠ |
| Type of excavation: The maximum depth of excavation depth of excavation from the roadway surface is 15 fe | • | g culvert is 4 feet, and the maximum |

Maintenance of traffic: The maintenance of traffic (MOT) has yet to be determined but will likely include lane closure Signs and barrels will be placed along SR 114 notifying travelers of the lane closures. The MOT will be implemented per the *Indiana Design Manual* guidelines.

| Work in waterway: | Yes ⊠ | No □ | Below ordinary high water mark: | Yes ⊠ No | |
|-------------------|--------|------|---------------------------------|----------|--|
| State Project: ⊠ | LPA: □ | | | | |

INFRASTRUCTURE TABLE AND SUMMARY

Any other factors influencing recommendations: N/A.

| Infrastructure | | | | | | |
|-----------------------|-----|-------------------------|-----|--|--|--|
| Religious Facilities | 3* | Recreational Facilities | 3 | | | |
| Airports ¹ | 1 | Pipelines | N/A | | | |
| Cemeteries | N/A | Railroads | N/A | | | |
| Hospitals | 1 | Trails | 3 | | | |
| Schools | 3 | 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:

Religious Facilities: Three (3) religious facilities are located within the 0.5 mile search radius, however, only one is mapped within the GIS layer. The nearest facility (Bethany Evangelical Free Church) is not mapped and is located 0.36 mile east of the project area. No impact is expected.

Airports: One (1) airport is located within the 0.5 mile search radius. The airport, Jasper County Hospital, is a public heliport for the hospital located 0.24 mile west of the project area. Coordination with INDOT Aviation will occur.

Hospitals: One (1) hospital is located within the 0.5 mile search radius. The icon for the hospital, Jasper County Hospital (aka Franciscan Health Rensselaer), is mapped incorrectly within the project area. Jasper County Hospital is actually located 0.23 mile northwest of the project area. No impact is expected by the proposed project as traffic will be maintained with lane closures throughout construction; however, coordination with the hospital will occur to identify any potential issues arising with emergency services.

Schools: Three (3) schools are located within the 0.5 mile search radius. The icon for the nearest school, Rensselaer Central High School, is mapped incorrectly and is actually located 0.1 mile northwest of the project area. Coordination with Rensselaer Central High School will occur.

Recreational Facilities: Three (3) recreational facilities are located within the 0.5 mile search radius. The nearest facility, Rensselaer Public Access Site (Lairds's Landing), is 0.13 mile east of the project area. No impact is expected.

Trails: Three (3) trail segments are located within the 0.5 mile search radius. One (1) trail segment, a potential trail called Jasper County Vision Trails, is mapped in the project area. Coordination with Jasper County Economic Development Organization will occur.

WATER RESOURCES TABLE AND SUMMARY

| Water Resources | | | |
|---|-----|-------------------------|-----|
| NWI - Points | N/A | Canal Routes - Historic | N/A |
| Karst Springs | N/A | NWI - Wetlands | 8 |
| Canal Structures – Historic | N/A | Lakes | 1 |
| NPS NRI Listed | N/A | Floodplain - DFIRM | 13 |
| NWI-Lines | N/A | Cave Entrance Density | N/A |
| IDEM 303d Listed Streams and Lakes (Impaired) | N/A | Sinkhole Areas | N/A |
| Rivers and Streams | 6 | Sinking-Stream Basins | N/A |

Explanation:

Rivers and Streams: Six (6) rivers and streams are located within the 0.5 mile search radius. Although not mapped, one (1) stream, UNT to Iroquois River, is located within the project area. A Waters of the U.S. Report will be prepared and coordination with INDOT Environmental Services (ES) Ecology and Waterway Permitting will occur.

NWI – *Wetlands*: Eight (8) NWI-wetlands are located within the 0.5 mile search radius. One (1) wetland is located 0.05 mile south of the project area. No impact is expected.

Lakes: One (1) lake is located within the 0.5 mile search radius. The mapped lake is located 0.05 mile south of the project area. No impact is expected.

Floodplain – DFIRM: Thirteen (13) floodplain polygons are located within the 0.5 mile search radius. The project area is located within a floodplain polygon. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

URBANIZED AREA BOUNDARY SUMMARY

Explanation: The proposed project is located within the Rensselaer UAB; however, a Rule 13 Permit from IDEM has not been issued. No further coordination is necessary at this time.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

| Mining/Mineral Exploration | | | | | | |
|----------------------------|-----|---------------------|-----|--|--|--|
| Petroleum Wells | N/A | Mineral Resources | N/A | | | |
| Mines – Surface | N/A | Mines – Underground | N/A | | | |

Explanation: No mining or mineral exploration resources were located within the 0.5 mile search radius.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

| Hazardous Material Concerns | | | | | | |
|------------------------------|-----|------------------------------|-----|--|--|--|
| Superfund | N/A | Manufactured Gas Plant Sites | N/A | | | |
| RCRA Generator/ TSD | N/A | Open Dump Waste Sites | N/A | | | |
| RCRA Corrective Action Sites | N/A | Restricted Waste Sites | N/A | | | |
| State Cleanup Sites | N/A | Waste Transfer Stations | N/A | | | |

| Septage Waste Sites | N/A | Tire Waste Sites | N/A |
|---|-----|-----------------------------------|-----|
| Underground Storage Tank (UST) Sites | 1 | 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 | 1 |
| Leaking Underground Storage (LUST) Sites | N/A | Notice of Contamination Sites | N/A |

Explanation:

Underground Storage Tank (UST) Sites: One (1) underground storage tank (UST) (Jasper County Hospital, 1104 E Grace St., FID No. 13561, Agency ID No. 39632) is located within the 0.5 search radius. The icon is mapped incorrectly and is located approximately 0.23 mile southwest of the project area. A review of IDEM's Virtual File Cabinet (VFC) revealed a 1999 UST closure document. According to the 1999 UST closure document, the UST was used for diesel storage and was removed by excavation on July 1, 1998. No impact is expected.

NPDES of Contamination Sites: One (1) NPDES pipe location is located within the 0.5 mile search radius. It is located 0.43 mile west of the project area. The NPDES pipe location is associated with the City of Rensselaer Waste Water Treatment Plant and has an effective permit status. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Jasper County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of endangered species. Coordination with USFWS and IDNR will occur.

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 rural area surrounded by farm fields and residential properties. The July 3, 2019, inspection report for CV 114-037-21.00 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 "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

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

RECOMMENDATIONS SECTION

INFRASTRUCTURE:

Airports: One (1) airport is mapped within the 0.5 mile search radius, Jasper County Hospital. Coordination with INDOT Aviation will occur.

Hospitals: One (1) hospital, Jasper County Hospital, is located 0.23 mile search radius. No impact is expected by the proposed project as traffic will be maintained with lane closures throughout construction; however, coordination with the hospital will occur to identify any potential issues arising with emergency services.

www.in.gov/dot/ **An Equal Opportunity Employer**

Trails: One (1) trail segment, a potential trail associated with Jasper County Vision Trails, crosses the project area. Coordination with Jasper County Economic Development Organization will occur.

Schools: One (1) school is located 0.1 mile northwest of the project area. Coordination with Rensselaer Central High School will occur.

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

- One (1) unmapped stream segment, UNT to Iroquois River, flows through the project area.
- The project area is located within a floodplain polygon (coordination only).

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT 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 "Using the USFWS's IPaC System for Digitally signed by

Listed Bat Consultation for INDOT Projects."

Nicole Fohey-Breting Date: 2019.09.27 Breting

15:37:48 -04'00'

INDOT Environmental Services concurrence:

(Signature)

Prepared by:

Angie Kattmann, CPESC, CESSWI

Environmental Geologist Lochmueller Group

pylak Kathme

Graphics:

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

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: YES

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: YES

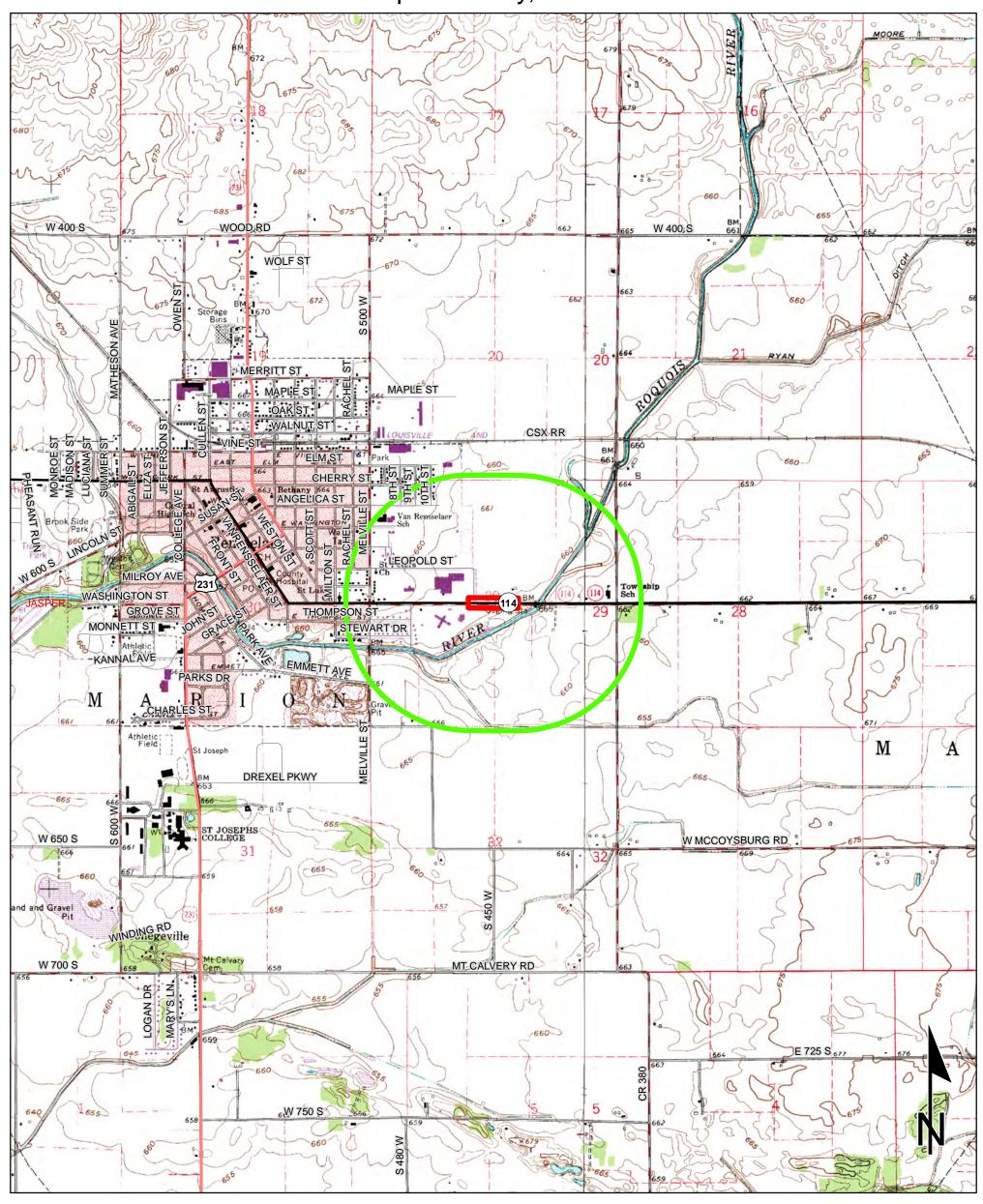
Supplemental Graphics:

www.in.gov/dot/ An Equal Opportunity Employer

JASPER COUNTY ETR LIST

Red Flag Investigation - Site Location SR 114, 1.09 mi E of Jct of US 231

Des. No. 1701512, Small Structure Replacement Jasper County, Indiana



Sources: 0.5 0.25 0 0.5

Non Orthophotography

Data - Obtained from the State of Indiana Geographical

<u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library

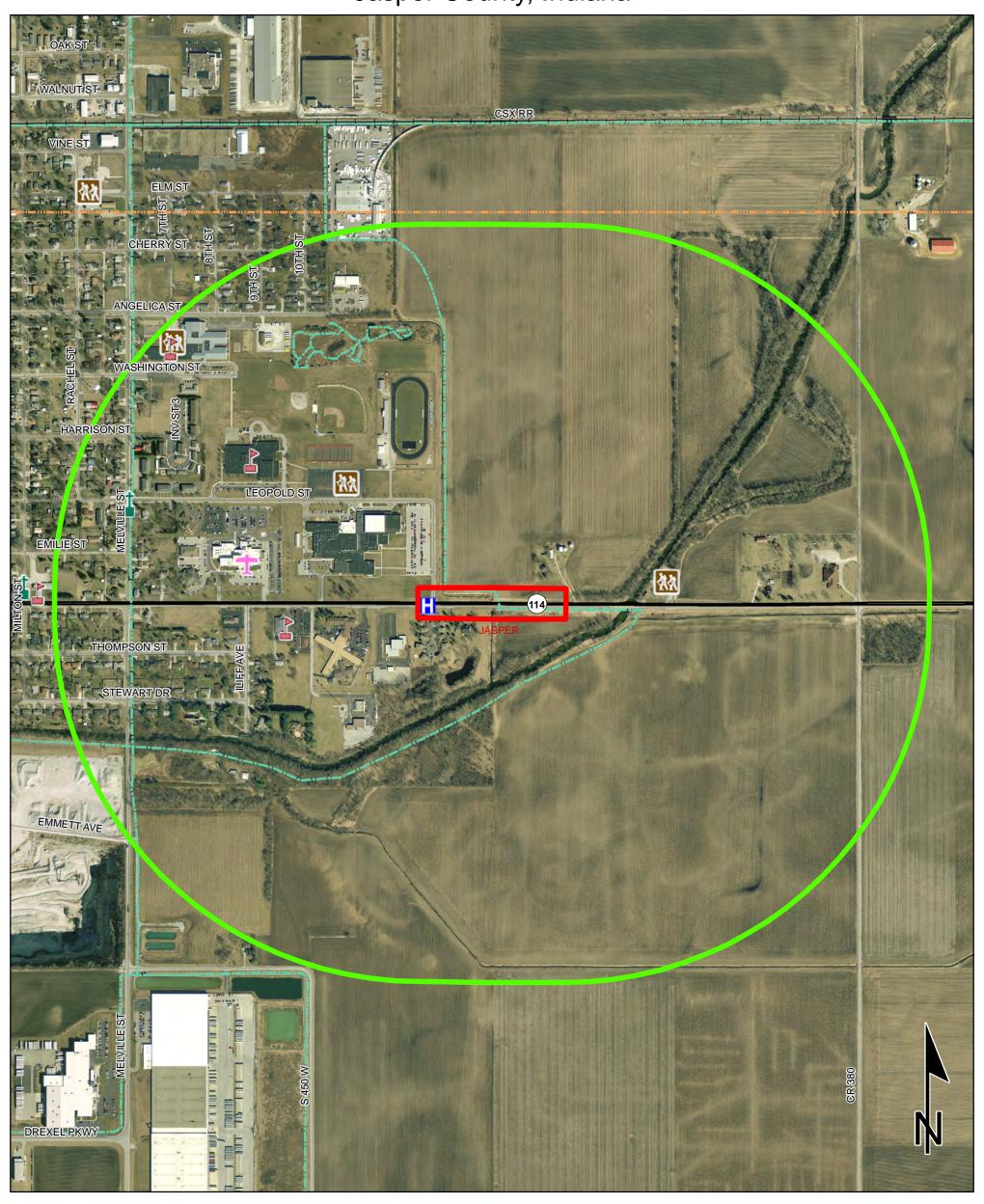
<u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org)

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.

RENSSELAER QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

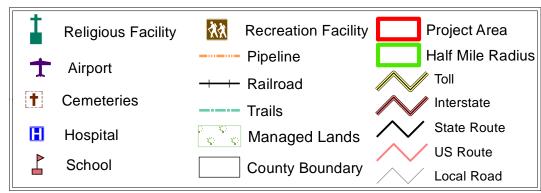
Red Flag Investigation - Infrastructure SR 114, 1.09 mi E of Jct of US 231 Des. No. 1701512, Small Structure Replacement Jasper County, Indiana



Sources:
Non Orthophotography

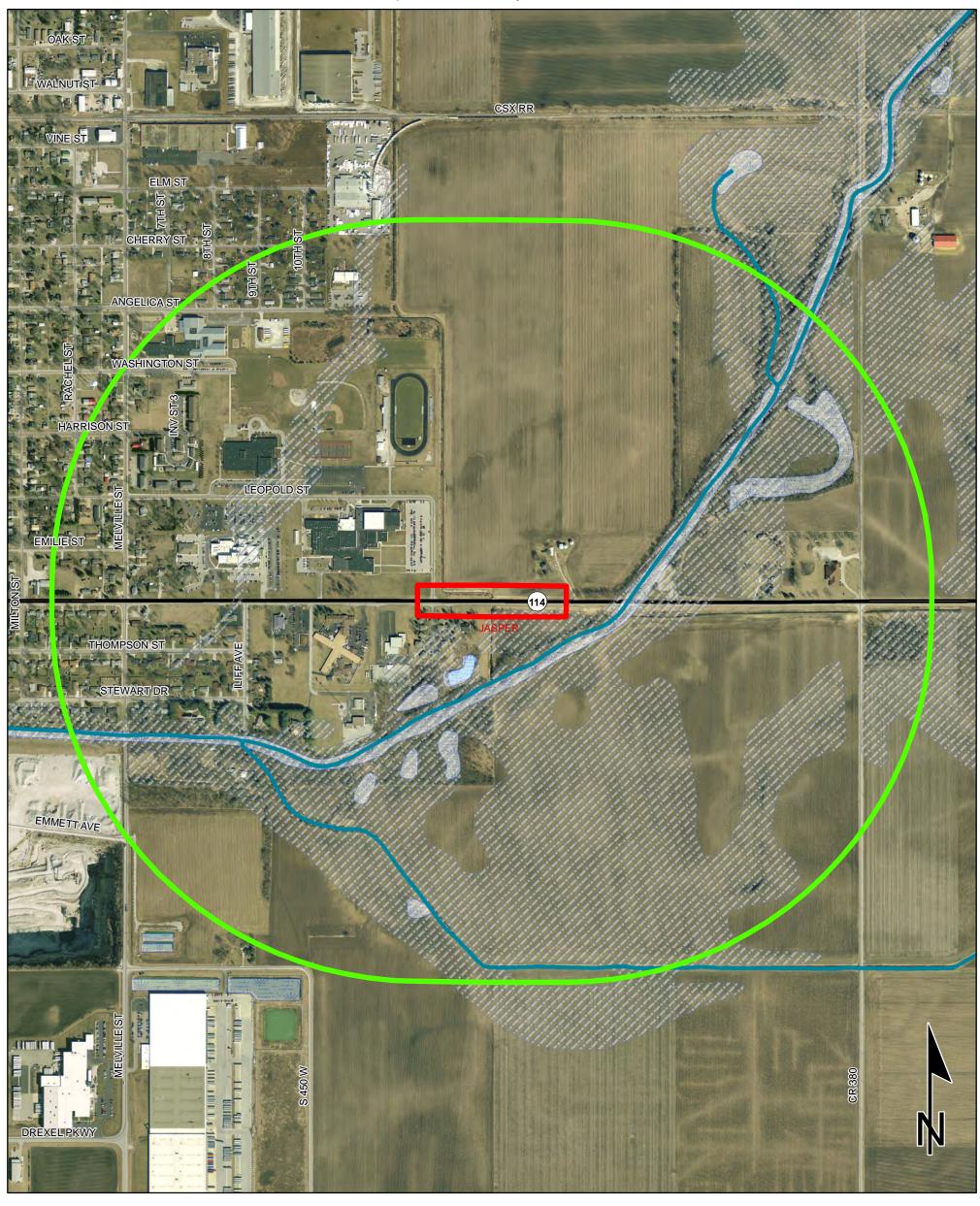
Data - Obtained from the State of Indiana Geographical
Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data
(www.indianamap.org)
Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted



for accuracy or other purposes.

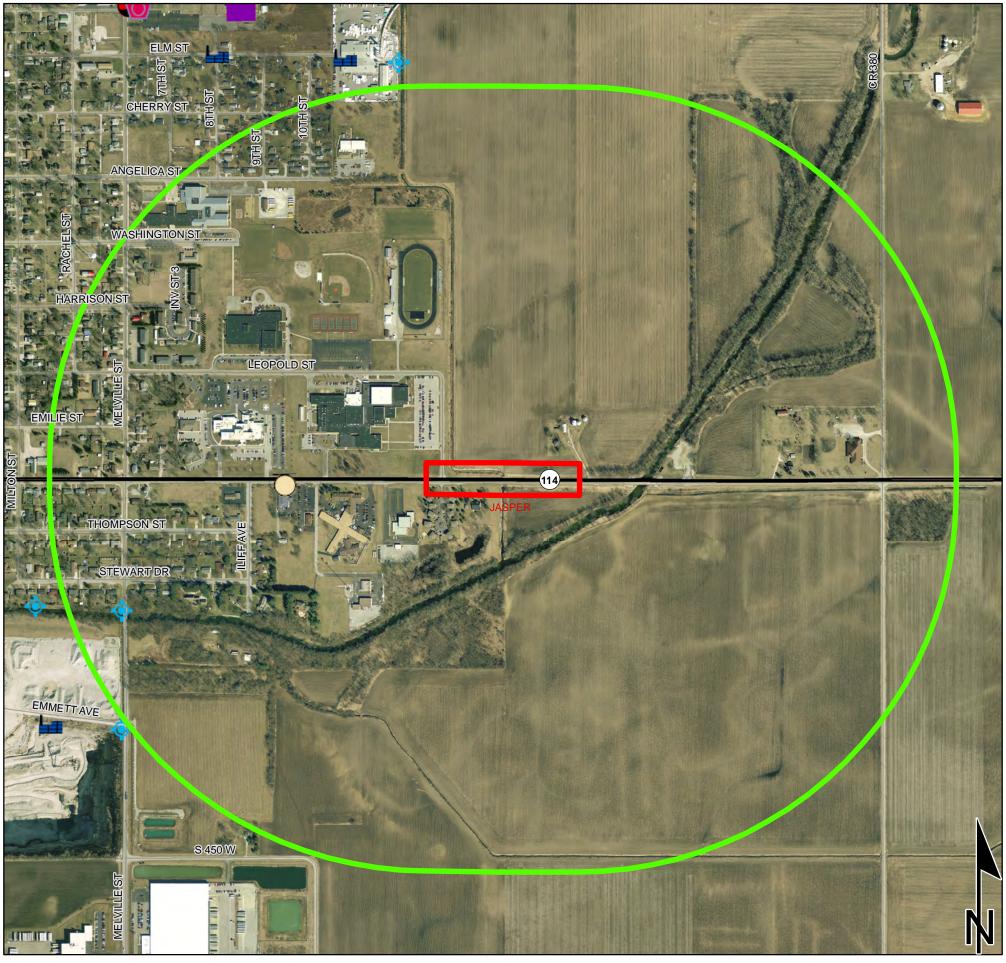
Red Flag Investigation - Water Resources SR 114, 1.09 mi E of Jct of US 231 Des. No. 1701512, Small Structure Replacement Jasper County, Indiana



0.15 0.15 0.075 0 NWI - Point Wetlands Sources: ■ Miles Non Orthophotography Lake **Data** - Obtained from the State of Indiana Geographical Karst Spring Information Office Library NWI- Line Orthophotography - Obtained from Indiana Map Framework Data Impaired_Stream_Lake (www.indianamap.org) Map Projection: UTM Zone 16 N Map Datum: NAD83 - NPS NRI listed This map is intended to serve as an aid in graphic River representation only. This information is not warranted

for accuracy or other purposes.

Red Flag Investigation - Hazardous Material Concerns SR 114, 1.09 mi E of Jct of US 231 Des. No. 1701512, Small Structure Replacement Jasper County, Indiana





0.15 0.075 0 0.15 Miles

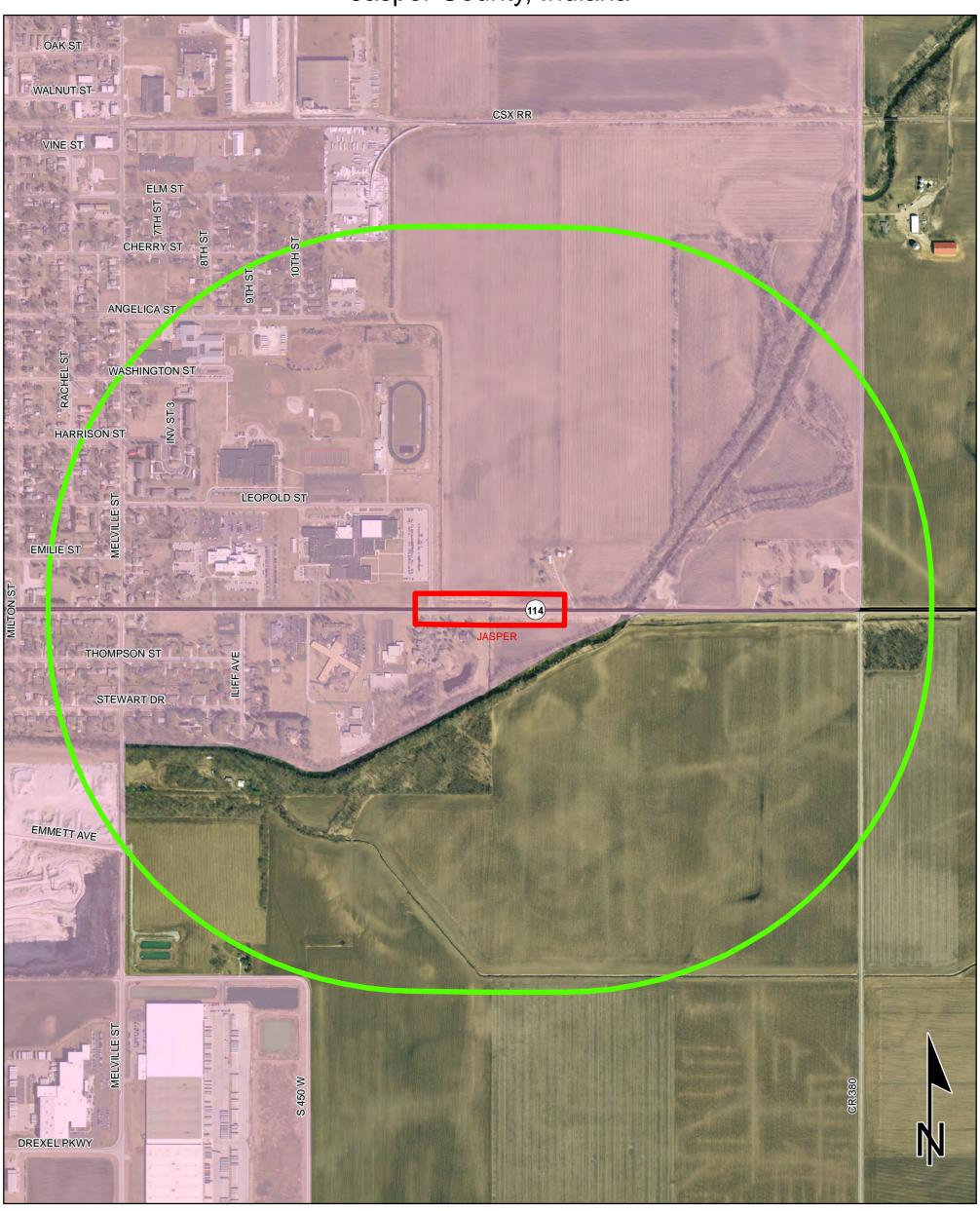
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Sources: Non Orthophotography

<u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N Map Datum: NAD83

Red Flag Investigation - Urbanized Area Boundary SR 114, 1.09 mi E of Jct of US 231 Des. No. 1701512, Small Structure Replacement Jasper County, Indiana



Sources: 0.15 0.0

5 0.075 0 0.15 Miles

<u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - 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.

RENSSELAER QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

County: Jasper

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|---|---|-------------------|-------|----------|-----------|
| Crustacean: Malacostraca Caecidotea beattyi | An Isopod | | | G3G4 | S1 |
| Mollusk: Bivalvia (Mussels) Plethobasus cyphyus | Sheepnose | LE | SE | G3 | S1 |
| Insect: Hymenoptera Bombus affinis | Rusty-patched Bumble Bee | LE | SE | G1 | S1 |
| Insect: Lepidoptera (Butterflies & Moths) Aethes patricia | | | SE | G3G4 | S1 |
| Atrytonopsis hianna | Dusted Skipper | | ST | G4G5 | S1S2 |
| Callophrys irus | Frosted Elfin | C | SE | G3 | <u>S1</u> |
| Cochylis ringsi | 110000 21111 | | SE | G3G4 | S1 |
| Erynnis martialis | Mottled Duskywing | | ST | G3 | S2S3 |
| Euchloe olympia | Olympia Marble | | ST | G5 | S2 |
| Hesperia leonardus | Leonard's Skipper | | SR | G5 | S2 |
| Hesperia metea | Cobweb Skipper | | ST | G4 | S2S3 |
| Hesperia ottoe | Ottoe Skipper | | SE | G3G4 | S1 |
| Hesperia sassacus | Indian Skipper | | ST | G5 | S2 |
| Macrochilo absorptalis | A Moth | | SR | G4G5 | S2S3 |
| Macrochilo hypocritalis | A Noctuid Moth | | SR | G4 | S2 |
| Papaipema beeriana | Beer's Blazing Star Borer Moth | | ST | G2G3 | S1S3 |
| Papaipema speciosissima | The Royal Fern Borer Moth | | ST | G4 | S2S3 |
| Platyperigea multifera | Dune rustic | | | GNR | S1S2 |
| Problema byssus | Bunchgrass Skipper | | ST | G3G4 | S2 |
| Spartiniphaga includens | The Included Cordgrass Borer | | ST | G4 | S1 |
| Speyeria idalia | Regal Fritillary | C | SE | G3 | S1 |
| Fish | | | | | |
| Moxostoma valenciennesi | Greater Redhorse | | SE | G4 | S2 |
| Amphibian Ambystoma laterale | Blue-spotted Salamander | | SSC | G5 | S2 |
| Cryptobranchus alleganiensis alleganiensis | Eastern Hellbender | C | SE | G3G4T3T4 | S1 |
| Lithobates blairi | Plains Leopard Frog | | SE | G5 | S1 |
| Lithobates pipiens | Northern Leopard Frog | | SSC | G5 | S2 |
| Reptile | | | | | |
| Clemmys guttata | Spotted Turtle | C | SE | G5 | S2 |
| Emydoidea blandingii | Blanding's Turtle | C | SE | G4 | S2 |
| Kinosternon subrubrum subrubrum | Eastern Mud Turtle | | SE | G5T5 | S2 |
| Opheodrys vernalis | Smooth Green Snake | | SE | G5 | S2 |
| Sistrurus catenatus catenatus | Eastern Massasauga | LT | SE | G3 | S2 |
| Terrapene ornata ornata | Ornate Box Turtle | | SE | G5T5 | S1 |
| Indiana Natural Heritage Data Center Fed: Division of Nature Preserves State: | LE = Endangered; LT = Threatened; C = candida SE = state endangered; ST = state threatened; SR | = state rare; SSC | _ | | |

Division of Nature Preserves Indiana Department of Natural Resources This data is not the result of comprehensive county

 $SX = state \ extirpated; \ SG = state \ significant; \ WL = watch \ list$

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

surveys.

County: Jasper

| Species Name | Common Name | | FED STATI | | GRANK | SRANK |
|--|------------------------------------|---|-----------|-----------|----------|----------|
| Thamnophis proximus proximus | | Western Ribbon Snake | | SSC | G5T5 | S3 |
| Bird | | | | | | |
| Ammodramus henslowii | | Henslow's Sparrow | | SE | G4 | S3B |
| Bartramia longicauda | | Upland Sandpiper | | SE | G5 | S3B |
| Buteo lineatus | | Red-shouldered Hawk | | SSC | G5 | S3 |
| Certhia americana | | Brown Creeper | | | G5 | S2B |
| Circus hudsonius | | Northern Harrier | | SE | G5 | S2 |
| Cistothorus palustris | | Marsh Wren | | SE | G5 | S3B |
| Cistothorus platensis | | Sedge Wren | | SE | G5 | S3B |
| Falco peregrinus | | Peregrine Falcon | | SSC | G4 | S2B |
| Grus canadensis | | Sandhill Crane | | SSC | G5 | S2B,S1N |
| Haliaeetus leucocephalus | | Bald Eagle | | SSC | G5 | S2 |
| Ixobrychus exilis | | Least Bittern | | SE | G5 | S3B |
| Lanius Iudovicianus | | Loggerhead Shrike | | SE | G4 | S3B |
| Mniotilta varia | | Black-and-white Warbler | | SSC | G5 | S1S2B |
| Nycticorax nycticorax | | Black-crowned Night-heron | | SE | G5 | S1B |
| Pandion haliaetus | | Osprey | | SE | G5 | S1B |
| Rallus limicola | | Virginia Rail | | SE | G5 | S3B |
| Vermivora chrysoptera | | Golden-winged Warbler | C | SE | G4 | S1B |
| Wilsonia canadensis | | Canada Warbler | | SE | G5 | S2B |
| | | Canada Waroro | | | | |
| Mammal Geomys bursarius | | Plains Paul of Cardan | | CCC | G5 | S2 |
| Myotis sodalis | | Plains Pocket Gopher | LE | SSC SE | G2 | S1 |
| Reithrodontomys megalotis | | Indiana Bat or Social Myotis | LE | SE | G2 G5 | S2 |
| Taxidea taxus | | Western Harvest Mouse | | 999 | G5 | S2 S2 |
| Taxidea taxus | | American Badger | | SSC | d5 | 32 |
| Vascular Plant | | | | | | - |
| Agalinis auriculata | | Earleaf Foxglove | | ST | G3 | S1 |
| Androsace occidentalis | | Western Rockjasmine | | ST | G5 | S2 |
| Arabis glabra | | Tower-mustard | | WL | G5 | S2 |
| Aralia hispida | | Bristly Sarsaparilla | | SE | G5 | S1 |
| Aristida intermedia | | Slim-spike Three-awn Grass | | SR | GNR | S2 |
| Armoracia aquatica | | Lake Cress | | SE | G4? | S1 |
| Carex conoidea | | Prairie Gray Sedge | | ST | G5 | S1 |
| Carex straminea | | Straw Sedge | | ST | G5 | S2 |
| Cirsium hillii | | Hill's Thistle | | SE | G3 | S1 |
| Comptonia peregrina | | Sweet Fern | | WL | G5 | S3 |
| Corydalis sempervirens | | Pale Corydalis | | ST | G5 | S1 |
| Cyperus dentatus | | Toothed Sedge | | SE | G4 | S1 |
| Dichanthelium boreale | | Northern Witchgrass | | SR | G5 | S2 |
| Dichanthelium sabulorum var. thinium | | Hemlock Panic-grass | | SR | G5T5 | S2 |
| 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: State: GRANK: SRANK: | 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 | | | | |

unranked

County: Jasper

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|---------------------------------|--------------------------|-------|---------------|------------|
| Diervilla lonicera | Northern Bush-honeysuckle | | SR | G5 | S2 |
| Orosera intermedia | Spoon-leaved Sundew | | SR | G5 | S2 |
| Eleocharis melanocarpa | Black-fruited Spike-rush | Black-fruited Spike-rush | | G4 | S2 |
| Eleocharis microcarpa | Small-fruited Spike-rush | | SE | G5 | S1 |
| Eleocharis robbinsii | Robbins Spikerush | | SR | G4G5 | S2 |
| Fimbristylis puberula | Carolina Fimbry | | SE | G5 | S1 |
| Gentiana alba | Yellow Gentian | | SR | G4 | S2 |
| Gentiana puberulenta | Downy Gentian | | ST | G4G5 | S2 |
| Geranium bicknellii | Bicknell Northern Crane's-bill | | SE | G5 | S1 |
| <mark>lypericum adpressum</mark> | Creeping St. John's-wort | | SE | G3 | S1 |
| uncus pelocarpus | Brown-fruited Rush | | SE | G5 | S2 |
| <mark>.iatris pycnostachya</mark> | Cattail Gay-feather | | ST | G5 | S2 |
| <mark>.inum intercursum</mark> | Sandplain Flax | | SE | G4 | S1 |
| inum sulcatum | Grooved Yellow Flax | | SR | G5 | S2 |
| _udwigia sphaerocarpa | Globe-fruited False-loosestrife | | SE | G5 | S1 |
| ycopodiella inundata | Northern Bog Clubmoss | | SE | G5 | S1 |
| ycopodium hickeyi | Hickey's Clubmoss | | SR | G5 | S2 |
| ycopodium tristachyum | Deep-root Clubmoss | | SR | G5 | S2 |
| ycopus amplectens | Sessile-leaved Bugleweed | | SE | G5 | S1 |
| <mark>/likania scandens</mark> | Climbing Hempweed | | SE | G5 | S1 |
| lonotropa hypopithys | American Pinesap | | WL | G5 | S3 |
| <mark>lyriophyllum pinnatum</mark> | Cutleaf Water-milfoil | | SE | G5 | S1 |
| <mark>/lyriophyllum verticillatum</mark> | Whorled Water-milfoil | | SR | G5 | S2 |
| lelumbo lutea | American Lotus | | WL | G4 | S3 |
| <mark>Panicum leibergii</mark> | Leiberg's Witchgrass | | ST | G4 | S2 |
| Panicum verrucosum | Warty Panic-grass | | ST | G4 | S2 |
| Perideridia americana | Eastern Eulophus | | SE | G4 | S1 |
| Platanthera ciliaris | Yellow-fringe Orchis | | SE | G5 | S1 |
| Platanthera flava var. herbiola | Pale Green Orchis | | WL | G4?T4Q | S3 |
| Poa wolfii | Wolf Bluegrass | | SR | G4 | S2 |
| Polygonum careyi | Carey's Smartweed | | ST | G4 | S2 |
| Polygonum hydropiperoides var. opelousanum | Northeastern Smartweed | | ST | G5TNRQ | S2 |
| Polygonum hydropiperoides var. setaceum | Swamp Smartweed | | SE | G5 | S 1 |
| <mark>Polytaenia nuttallii</mark> | Prairie Parsley | | SE | G5 | S 1 |
| Potamogeton bicupulatus | Snail-seed Pondweed | | SE | G4 | S1 |
| Potamogeton pulcher | Spotted Pondweed | | SE | G5 | <u>S1</u> |
| Potamogeton strictifolius | Straight-leaf Pondweed | | ST | G5 | <u>S1</u> |
| Prenanthes aspera | Rough Rattlesnake-root | | SR | G4? | S2 |
| Prunus pensylvanica | Fire Cherry | | SR | G5 | S2 |
| Rhynchospora macrostachya | Tall Beaked-rush | | SR | G4 | <u>S2</u> |

Indiana Department of Natural Resources

surveys.

This data is not the result of comprehensive county

 $SX = state \ extirpated$; $SG = state \ significant$; $WL = watch \ list$

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

County: Jasper

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|---|-----------------------------------|-----|-------|-------|-----------|
| Dhyrah can are recognite | | | GE | C52 | C1 |
| Rhynchospora recognita | Globe Beaked-rush | | SE | G5? | S1 |
| Rhynchospora scirpoides | Long-beaked Baldrush | | ST | G4 | S2 |
| Sabatia campanulata | Slender Marsh Pink | | SX | G5 | SX |
| Schoenoplectus torreyi | Torrey's Bulrush | | SE | G5? | S1 |
| Scirpus purshianus | Weakstalk Bulrush | | SR | G4G5 | S2 |
| Scleria muehlenbergii | Muehlenberg's Nutrush | | SE | G5 | S1 |
| Scleria pauciflora | Fewflower Nutrush | | WL | G5 | S3 |
| Scleria reticularis | Reticulated Nutrush | | ST | G4 | S2 |
| Sisyrinchium montanum | Strict Blue-eyed-grass | | SE | G5 | S1 |
| Symphyotrichum sericeum | Western Silvery Aster | | SR | G5 | S2 |
| Talinum rugospermum | Prairie Fame-flower | | ST | G3G4 | S2 |
| Trichostema dichotomum | Forked Bluecurl | | SR | G5 | S2 |
| Utricularia geminiscapa | Hidden-fruited Bladderwort | | SE | G4G5 | S1 |
| Utricularia radiata | Small Swollen Bladderwort | | SE | G4 | S1 |
| Utricularia subulata | Zigzag Bladderwort | | ST | G5 | S2 |
| Viola pedatifida | Prairie Violet | | ST | G5 | S2 |
| Viola primulifolia | Primrose-leaf Violet | | ST | G5 | S2 |
| Xyris difformis | Carolina Yellow-eyed Grass | | ST | G5 | S2 |
| High Quality Natural Community | | | | | |
| Forest - flatwoods dry | Dry Flatwoods | | SG | G2? | S2 |
| Prairie - mesic | Mesic Prairie | | SG | G2 | S2 |
| Prairie - sand dry | Dry Sand Prairie | | SG | G3 | S2 |
| Prairie - sand dry-mesic | Dry-mesic Sand Prairie | | SG | G3 | S3 |
| Prairie - sand wet-mesic | Wet-mesic Sand Prairie | | SG | G1? | S2 |
| Rhynchospora capitellata - Rhexia virginica - Rhynchospora scirpoides - Schoenoplectus hallii Herbaceous Vegetation | Inland Coastal Plain Marsh | | | G2? | SNR |
| Savanna - sand dry | Dry Sand Savanna | | SG | G2? | S2 |
| Savanna - sand dry-mesic | Dry-mesic Sand Savanna | | SG | G2? | S2S3 |
| Wetland - flat muck | Muck Flat | | SG | G2 | S2 |
| Wetland - flat sand | Sand Flat | | SG | G2 | S1 |
| Other Significant Feature Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade | Water Fall and Cascade | | | GNR | SNR |
| Migratory Bird Concentration Area | Migratory Bird Concentration Site | | SG | G3 | SNR |

LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting Indiana Natural Heritage Data Center Fed: Division of Nature Preserves SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; State: Indiana Department of Natural Resources $SX = state \ extirpated$; $SG = state \ significant$; $WL = watch \ list$ This data is not the result of comprehensive county GRANK: surveys.

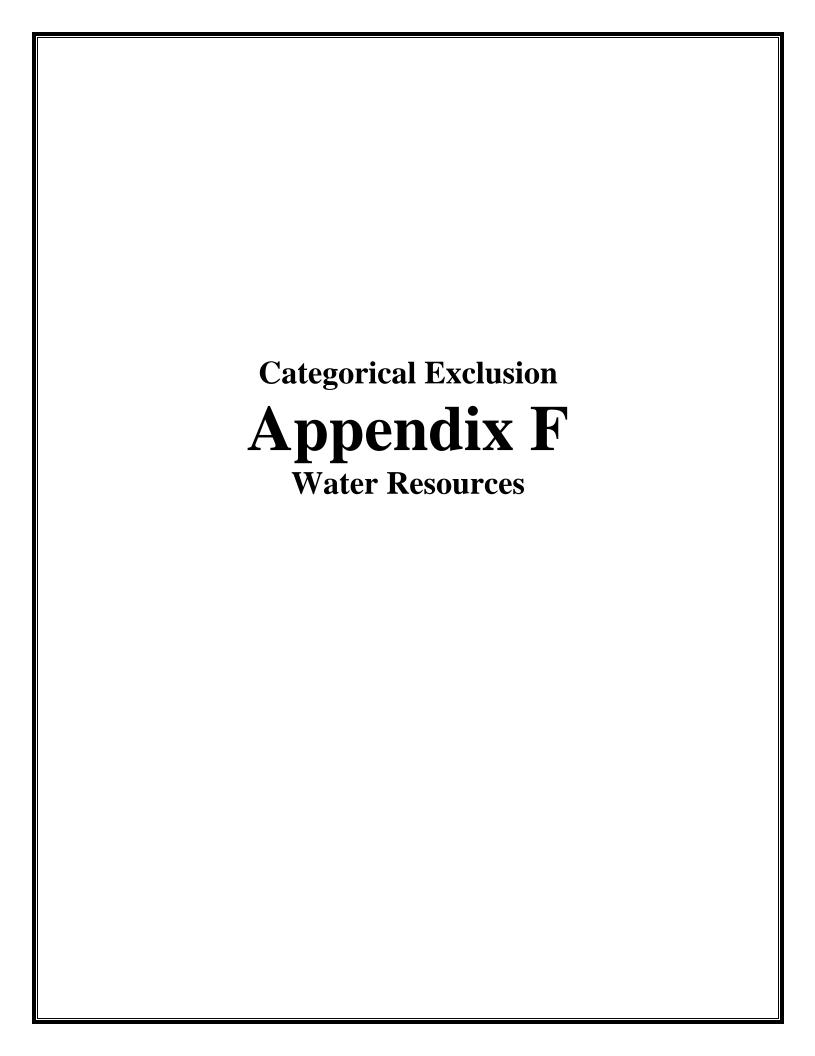
Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon

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



Waters of the U.S. Determination Report SR 114 Small Structure Replacement 1.09 mi. E of US 231 Jasper County, Indiana Des. No. 1701512



July 22, 2019

Prepared By:



3502 Woodview Trace, Suite 150 Indianapolis, IN, 46268 Ph: 317-222-3880

Prepared For:

INDOT – LaPorte District 315 Boyd Blvd. LaPorte, Indiana 46350

Waters of the U.S. Determination Report SR 114 Small Structure Replacement 1.09 mi. E of US 231 Jasper County, Indiana Des. No. 1701512

Table of Contents

| Date of Waters Investigation1 |
|--|
| Location1 |
| Project Description |
| National Wetlands Inventory (NWI)1 |
| Streams |
| Soils |
| Hydrology2 |
| Field Reconnaissance |
| Wetland Analysis2 |
| Stream Analysis3 |
| Conclusions3 |
| Preparers4 |
| Tables |
| Table 1: Stream Summary Table |
| Attachments |
| General Location MapA1 |
| USGS Topographic MapRemoved to avoid duplication, See Appendix B |
| USGS Topographic Map (Zoomed)A3 |
| Water Resources MapA4 |
| USFWS NWI MapA5 |
| Drainage Area MapA6 |
| FEMA FIRMETTEA7 |
| USDA Soil Map, Jasper CountyA8 |
| Photo Location Map |
| Project PhotosA14 |
| Preliminary Jurisdictional Determination Form |



Waters of the U.S. Determination Report SR 114 Small Structure Replacement 1.09 mi. E of US 231
Jasper County, Indiana Des. No. 1701512

Date of Waters Investigation

June 27, 2019

Location

The project is located in south central Jasper County, 1.09 miles east of US 231 outside the city of Rensselaer in Jasper County, Indiana (Attachment A1).

- Jasper County, Marion Township, Indiana
- Section 29, Township 29 North, Range 6 West
- Rensselaer 1:24,000 United States Geological Survey (USGS) Quadrangle (Attachment A2 and A3)

Project Description

The Indiana Department of Transportation – LaPorte District proposes to proceed with a small structure replacement project in south central Jasper County, Indiana (Des. No. 1701512). The proposed project will involve the replacement of the existing structure (CV 114-037-21.00) that conveys an unnamed tributary (UNT) to Iroquois River under SR 114, 1.09 miles east of US 231. The proposed project will remove the existing structure and replace it with a new structure. In addition to the new structure, scour protection upstream and downstream is anticipated to be installed. The maintenance of traffic will require a full closure and utilization of a detour.

National Wetlands Inventory (NWI)

Based on the U.S. Fish and Wildlife National Wetlands Inventory (NWI) data (www.fws.gov/wetlands/Data/State-Downloads.html) there is one wetland, associated with UNT to Iroquois River, mapped within the project area. This wetland is a riverine, lower perennial, unconsolidated bottom, semi-permanently flooded, excavated (R2UBFx) wetland (Attachment A5). In addition to this wetland, there are nine mapped within a half-mile of the project area.

- One palustrine, emergent, persistent, seasonally flooded (PEM1C) wetland.
- One palustrine, forested, broad-leaved deciduous, seasonally flooded (PFO1C) wetland.
- One palustrine, forested, broad-leaved deciduous/emergent, persistent, seasonally flooded (PFO1/EM1C) wetland.
- One palustrine, unconsolidated bottom, intermittently exposed, excavated (PUBGx) wetland.
- One palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded (PSS1C) wetland.
- One palustrine, forested, broad-leaved deciduous/emergent, persistent, temporary flooded (PFO1/EM1A) wetland
- Two riverine, lower perennial, unconsolidated bottom, semi-permanently flooded, excavated (R2UBFx) wetland.
- One riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) wetland.



Streams

HYDROGRAPHY_HIGHRES_FLOWLINE_NHD_USGS: Streams, Rivers, Canals, Ditches, Artificial Paths, Coastlines, Connectors, and Pipelines in Watersheds of Indiana (U. S. Geological Survey, 1:24,000, Line Shapefile) and the Rensselaer 1:24,000 scale USGS topographic map indicate that there are no stream features within the project area (Attachments A2 and A3). The Iroquois River is mapped immediately south of the project area

Soils

The Soil Survey Geographic (SSURGO) database for Jasper County includes the following mapped soil series within the SR 114 Small Structure Replacement project (Attachments A8-A12).

- Rensselaer loam (Re): This deep nearly level, very poorly drained soil is on outwash plains 0 to 1 percent slopes. It s frequently ponded for brief periods by runoff. Rensselaer loam is considered hydric with a hydric rating of 88.
- Sloan silt loam (So): This very deep, nearly level, very poorly drained soil is on long, narrow flood plains. It is frequently flooded for long periods between late fall and spring. Sloan silt loam is considered hydric and has a hydric rating of 100.

Hydrology

According to the Indiana Floodplain Information Portal, the project crosses the 100-year floodplain for the Iroquois River (http://dnrmaps.dnr.in.gov/appsphp/fdms/). The base floodplain elevation is 658.1 feet. According to the USGS StreamStats Website (https://water.usgs.gov/osw/streamstats/indiana.html) the UNT to Iroquois River is not mapped as a blue line feature. The upstream drainage area was calculated using GIS and is mapped at 0.03 square mile (Attachment A6). The entirety of the project lies within the Moore Ditch-Iroquois River 12 digit hydrologic unit code (HUC) (071200020305). The FEMA FIRMETTE can be found in the Attachments on page A7.

Field Reconnaissance

Lochmueller Group conducted a field review for streams and wetlands within the survey area for SR 114 Small Structure Replacement project on June 27, 2019. One stream, UNT to Iroquois River, and no wetlands were identified in the survey area. No indicators of wetland hydrology were observed. No roadside ditches with ordinary high water marks (OHWM) were observed. Identified features from the field reconnaissance can be seen in Attachments A14 to A31.

Wetland Analysis

Wetland determinations were conducted in accordance with the *U.S. Army Corps of Engineers Wetland Delineation Manual* (1987) and the *Regional Supplement of the Corps of Engineers Wetland Delineation Manual: Midwest Region 2.0* (2010).

The June 27, 2019 field investigation for the SR 114 Small Structure Replacement project did not result in the evaluation of any wetlands. The roadside in the southeast quadrant of the project area was dominated by reed canary grass (*Phalaris arundinacea*, *FACW*) however, there were no wetland hydrology indicators observed and no additional hydrophytic vegetation was observed. The dominate presence of a reed canary grass is likely due to the disturb nature of the roadside and the location within the 100 year floodplain for the Iroquois River.



Stream Analysis

The June 2019 field investigation for the SR 114 Small Structure Replacement project resulted in the evaluation of one jurisdictional resource, UNT to Iroquois River.

UNT to Iroquois River

UNT to Iroquois River is a stream feature that flows west to east upstream of the culvert along the north side of SR 114 and from north to south through the culvert within the survey area. Approximately 554 feet of this feature was evaluated as part of this field investigation. This feature appears to be an excavated channel, conveying drainage from the road, residential yards, and surrounding agricultural fields. The surrounding riparian habitat is narrow and consists of steep, vegetated slopes. The surrounding land use consists of the existing roadway, residential mowed and maintained yards, and agricultural fields. UNT to Iroquois River is characterized by a narrow channel with a silt substrate. Due to recent heavy rainfall and an above average rainfall record, the velocity of the stream was high. Upstream of the structure, the OHWM was 5-feet 7-inches wide by 2-feet 3-inches deep with no riffles or pools present. The upstream reach UNT to Iroquois River exhibited a moderate amount of riparian vegetation encroaching the channel which resulted in a narrower channel. The riparian vegetation was dominated by reed canary grass (Phalaris arundinacea) and Canada thistle (Crisium arvense.). These species were limited to the banks of UNT to Iroquois River and did not extend outside the constructed bank limits. The OHWM downstream of the structure was 5-feet 11-inches wide by 3-feet 10-inches deep. This OHWM was taken downstream of the scour hole and outside the influence of the structure. The stream channel was more open with vegetation limited to the steep banks and was dominated by reed canary grass (*Phalaris arundinacea*). This resource is a poor quality resource based on the substrate, lack of sinuosity, and excavated nature. UNT to Iroquois River is likely jurisdictional due to connectivity to the Iroquois River, a Traditionally Navigable Water (TNW).

Table 1: Stream Summary Table

| Stream | Photos | Lat/Long | онwм | USGS Blueline? | Riffles? Pools? | Substrate | Quality | Water of the U.S.? |
|-----------------------------|---------------------------------------|-----------------------|--------------------|-------------------|--------------------|-----------|---------|--------------------|
| UNT to Iroquois River | 5, 6, 7, 10, 11, 12, 13, 14, 15 | 40.9333° -87.1322° | 5' 11" x 3' 10" | No | No No | Silt | Poor | Yes |

Conclusions

The June 2019 field review for the SR 114 Small Structure Replacement project identified one stream feature, UNT to Iroquois River, within the investigation area. No wetland features were identified within the survey area. No roadside ditches exhibiting an OHWM were observed. UNT to Iroquois River would be considered jurisdictional due to connectivity to the Iroquois River, a TNW.

Every effort should be taken to avoid and minimize the impacts to the water resources listed above. Disturbance of a wetland or stream could result in a mitigation requirement to secure the required permits for the small structure replacement project. If construction exceeds the limits of the survey review area illustrated in this document, further field investigation will be needed. This report is this office's best judgment of water resources that are likely to be under federal jurisdiction, based on the guidelines set



forth by the USACE. The final determination of jurisdictional waters is ultimately the responsibility of the USACE.

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.

Preparers

| Lochmueller Group, Inc. Staff | Position | Contributing Effort |
|-------------------------------|-------------------------|-----------------------|
| Ruth Hook, CPESC, CESSWI | Environmental Biologist | Field Data Collection |
| | | Report Preparation |
| Samantha Beaupre | Environmental Biologist | Field Data Collection |

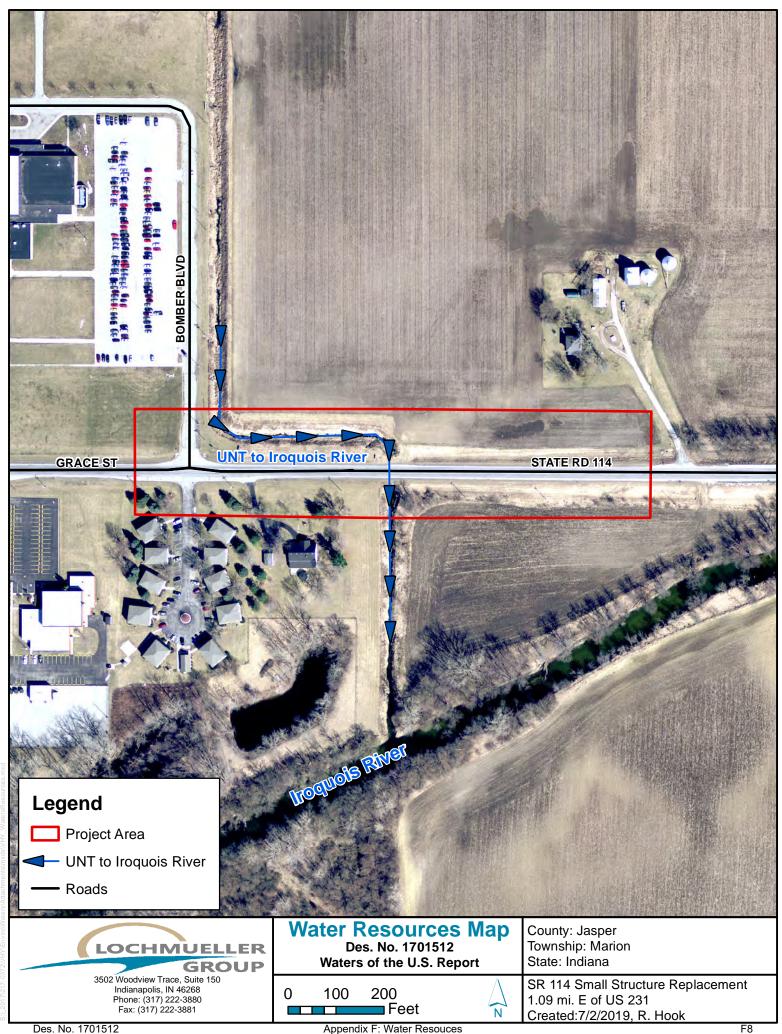
Signature of Preparer:

Ruth Hook, CPESC, CESSWI



ATTACHMENTS





Appendix F: Water Resouces

U.S. Fish and Wildlife Service National Wetlands Inventory

Des. No. 1701512 - SR 114 Small Structure Replacement



July 2, 2019

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

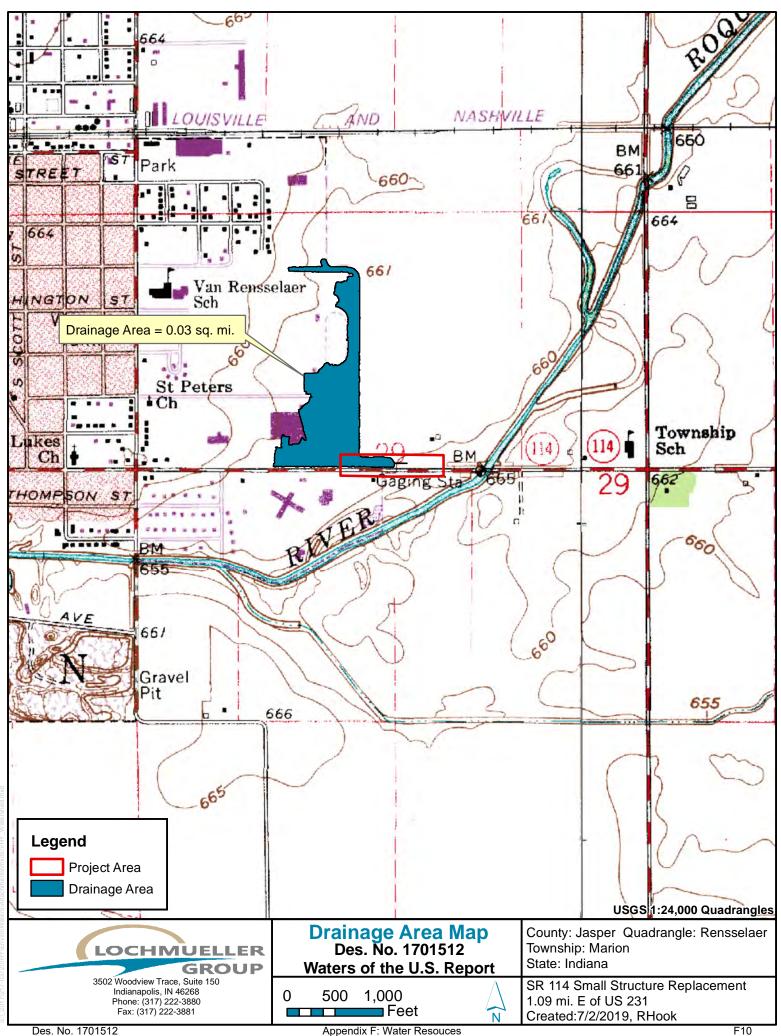
Freshwater Forested/Shrub Wetland

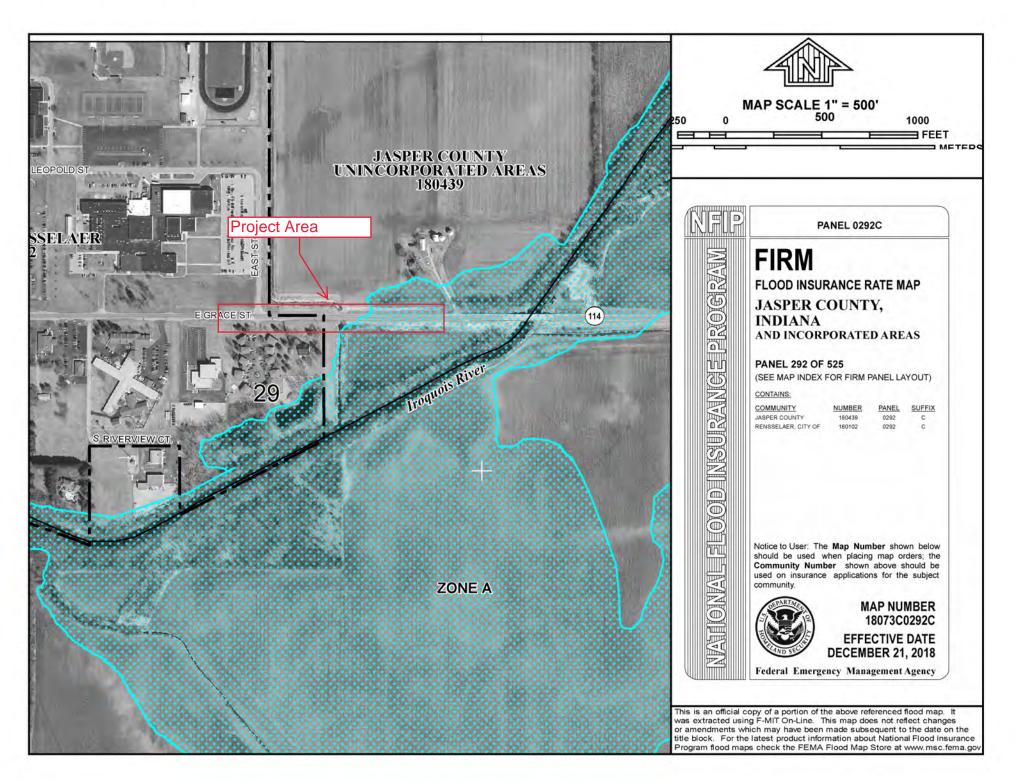
Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.







MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow

Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water
Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jasper County, Indiana Survey Area Data: Version 19, Sep 7, 2018

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 7, 2010—Dec 26, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Des. No. 1701512

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|--|--------------|----------------|
| Re | Rensselaer loam, 0 to 1 percent slopes | 2.7 | 49.6% |
| So | Sloan silt loam, frequently flooded, undrained | 2.8 | 50.4% |
| Totals for Area of Interest | | 5.5 | 100.0% |

Report—Hydric Soil List - All Components

| Hydric Soil List - All Components–IN073-Jasper County, Indiana | | | | | |
|--|----------------------------------|-------|----------------|------------------|----------------------------|
| Map symbol and map unit name | Component/Local Comp. Phase pct. | | Landform | Hydric status | Hydric criteria met (code) |
| Re: Rensselaer loam, 0 to 1 percent slopes | Rensselaer | 75-90 | Depressions | Yes | 2 |
| | Whitaker | 0-10 | Outwash plains | No | _ |
| Crosier | | 0-8 | Moraines | No | _ |
| | Houghton-Undrained | 0-8 | Depressions | Yes | 1,3 |
| So: Sloan silt loam, frequently flooded, undrained | Sloan-Undrained | 100 | Flood plains | Yes | 2 |

Data Source Information

Soil Survey Area: Jasper County, Indiana Survey Area Data: Version 19, Sep 7, 2018

Hydric Rating by Map Unit

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI | |
|-----------------------------|--|--------|--------------|----------------|--|
| Re | Rensselaer loam, 0 to 1 percent slopes | 88 | 2.7 | 49.6% | |
| So | Sloan silt loam, frequently flooded, undrained | 100 | 2.8 | 50.4% | |
| Totals for Area of Interest | | | 5.5 | 100.0% | |

7/2/2019

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PJD: July 3, 2019
- B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Ruth Hook, 3502 Woodview Trace, Indianapolis, IN 46268
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The Indiana Department of Transportation – LaPorte District proposes to proceed with a small structure replacement project in south central Jasper County, Indiana (Des. No. 1701512). The proposed project will involve the replacement of the existing structure (CV 114-037-21.00) that conveys an unnamed tributary (UNT) to Iroquois River under SR 114, 1.09 miles east of US 231. The proposed project will remove the existing structure and replace it with a new structure. In addition to the new structure, scour protection upstream and downstream is anticipated to be installed. The maintenance of traffic will require a full closure and utilization of a detour.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

| | State: IN | County/parish | /borough: Jasper | | City: Rensselaer | |
|----|---|---------------------------|-----------------------|--------|------------------|--|
| | Center coordinates of site (lat/long in degree decimal format): | | | | | |
| | Lat.: 40.9333 | L | .ong.: -87.1322 | | | |
| | Universal Transverse | Mercator: 488 | 870.58 E 4531361.18 N | Z16T | | |
| | Name of nearest water | ^{erbody:} Iroquo | ois River | | | |
| E. | REVIEW PERFORME | D FOR SITE E | VALUATION (CHECK | ALL TH | AT APPLY): | |
| | Office (Desk) Dete | ermination. Dat | e: | | | |
| | Field Determination | on. 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 Iroquois River | 40.9333 | -87.1322 | 553.9 | non-wetland waters | Section 404 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

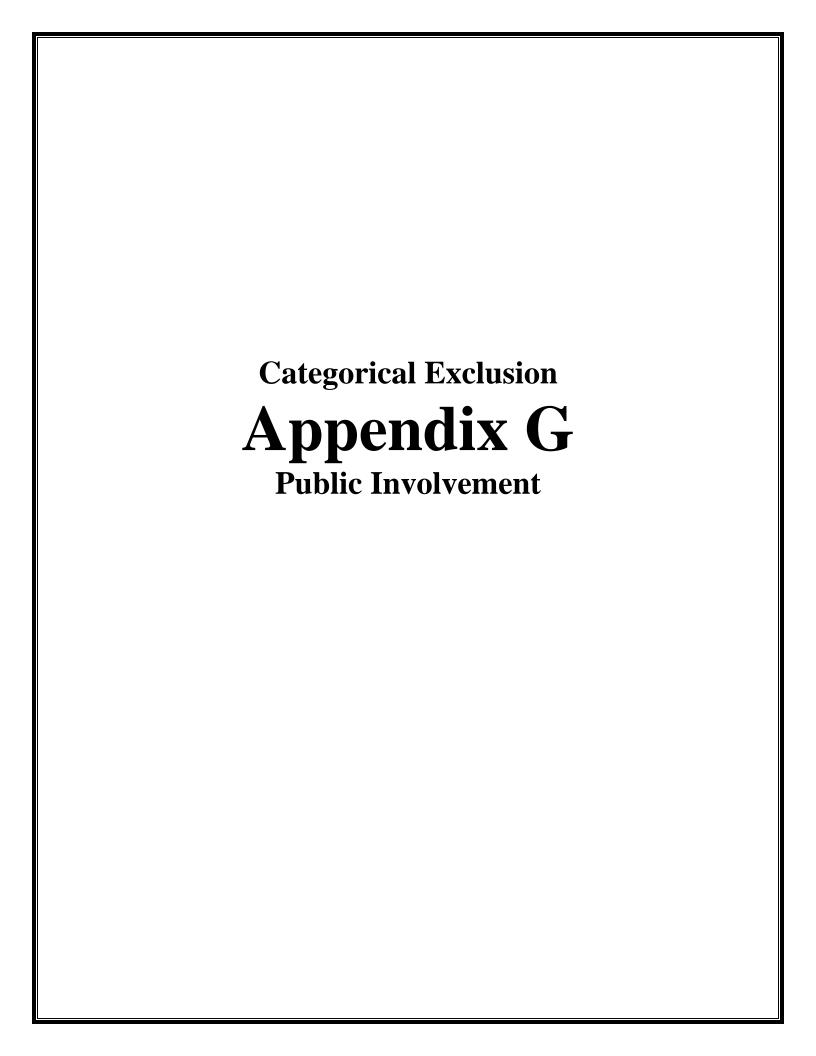
- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various 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 "preconstruction 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: Aerial, water resources, NWI, topographic, Streamstats, soils 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: Hydrography_HighRes_Flowline_NHD_USGS.shp USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Rensselaer 1:24,000 Quadrangle Natural Resources Conservation Service Soil Survey. Citation: NRCS web soil survey ■ National wetlands inventory map(s). Cite name: USFWS NWI wetland mapper ☐ State/local wetland inventory map(s): FEMA/FIRM maps: Panel 18073C0292C effective December 21, 2018 ■ 100-year Floodplain Elevation is: 658.1 feet NAVD88 .(National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Jasper County 2013 Other (Name & Date): Field photos from 6/27/19 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. Digitally signed by Ruth Hook Date: 2019.07.03 07:57:44 -04'00' Ruth Hook Signature and date of Signature and date of Regulatory staff member person requesting PJD completing 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.





«Name» «Mailing_Address» «Mailing_City», «Mailing_State» «Mailing_zip»

Sample Notice of Survey Letter

RE: INDOT Designation (DES) Number: 1701512

Lochmueller Group Project Number: 217-0372-VHY

State Road 114 Small Structure Replacement – 1.09 mi E of 231

Jasper County, Indiana

Notice of Entry for Survey or Investigation
October 19, 2018

Dear Property Owner,

Our information indicates that you own property near the above proposed transportation project. Lochmueller Group has been hired by the Indiana Department of Transportation – LaPorte District and will be performing a survey of the project area in the near future. It may be necessary for representatives from Lochmueller Group or sub-consultants for Lochmueller Group to come on your property to complete this work. This is permitted by law under Indiana Code (IC) § 8-23-7-26. Anyone performing this type of work has been instructed to identify him or herself to you, if you are available, before they enter your property. If you no longer own this property, or if it is currently occupied by someone else, please let us know the name of the new owner or occupant so we can contact them about the survey.

Please read the attached notice to inform you of what the "Notice of Entry for Survey or Investigation" means. The survey work may include the identification and mapping of wetlands, archaeological investigations (which may involve the survey, testing, or excavation of identified archaeological sites), and various other environmental studies. The information we obtain for such studies is necessary for the proper planning and design of this highway project. It is our sincere desire to cause you as little inconvenience as possible during this survey.

At this stage we generally do not know what effect, if any, this project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

It is our sincere desire to cause you as little inconvenience as possible during our work and we thank you in advance for your cooperation.

Sincerely,

Ruth Hook

Environmental Biologist

LOCHMUELLER GROUP

Attachment: INDOT's Notice of Entry for Survey or Investigation

3502 Woodview Trace, Suite 150 Indianapolis, Indiana 46268

PHONE: 317.222.3880 • TOLL FREE: 888.830.6977



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue Room N642 Indianapolis, Indiana 46204-2216

Eric J. Holcomb, Governor Joe McGuinness, Commissioner

Indiana Department of Transportation Notice of Entry for Survey or Investigation Indiana Department of Transportation

If you have received a "Notice of Entry for Survey or Investigation" from INDOT or an INDOT representative, you may be wondering what it means. In the early stages of a project's development, INDOT must collect as much information as possible to ensure that sound decisions are made in designing the proposed project. Before entering onto private property to collect that data, INDOT is required to notify landowners that personnel will be in the area and may need to enter onto their property. Indiana Code, Title 8, Article 23, Chapter 7, Section 26 deals with the department's authority to enter onto any property within Indiana.

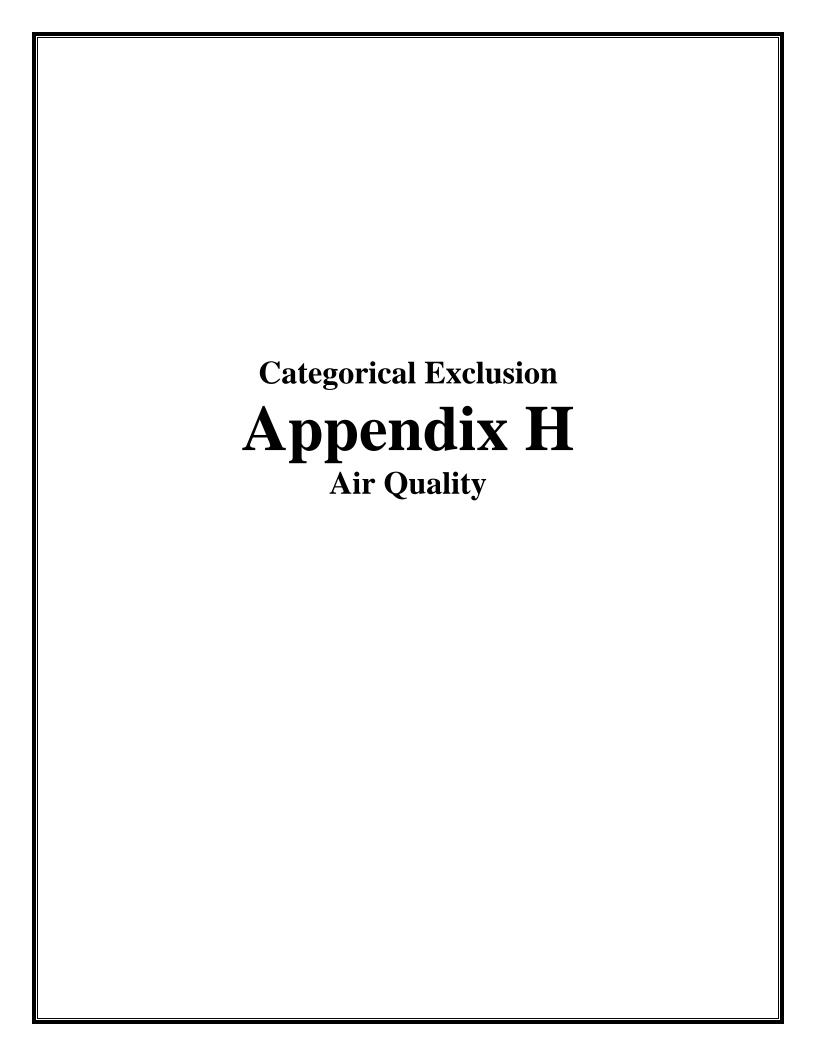
Receipt of a Notice of Entry for Survey or Investigation does not necessarily mean that INDOT will be buying property from you. It doesn't even necessarily mean that the project will involve your property at all. Since the Notice of Entry for Survey or Investigation is sent out in the very early stages and since we want to collect data within AND surrounding the project's limits more landowners are contacted than will actually fall within the eventual project limits. It may also be that your property falls within the project limits but we will not need to purchase property from you to make improvements to the roadway. Another thing to keep in mind is that when you receive a Notice of Entry for Survey or Investigation, very few specifics have been worked out and actual construction of the project may be several years in the future.

Before INDOT begins a project that requires them to purchase property from landowners, they must first offer the opportunity for a public hearing. If you were on the list of people who received a Notice of Entry for Survey or Investigation, you should also receive a notice informing you of your opportunity to request a public hearing. These notices will also be published in your local newspaper so interested individuals who are not adjacent to the project will also have the opportunity to request a public hearing. If a public hearing is to be held, INDOT will publicize the date, location, and time. INDOT will present detailed project information at the public hearing, comments will be taken from the public in spoken and written form, and question and answer sessions will be offered. Based on the feedback INDOT receives from the public, a project can be modified and improved to better serve the public.

So, if you have received a "Notice of Entry for Survey or Investigation", remember:

- 1. You do not need to take any action at this time. It is merely letting you know that people in orange/lime vests are going to be in your neighborhood.
- 2. The project is still in its very early planning stages.
- 3. You will be notified of your opportunity to comment on the project at a later date.

www.in.gov/dot/
An Equal Opportunity Employer



Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2020 - 2024

| White Courty MOSE MOSE MOSE MOSE Mose Place Bidge over Lake LaPorte .152 STBG \$2,277,500 Local Bidge PE .523,120.00 10,000 (83,720.00 .152,120 | 2023 2024 | | 2021 | \$62,600.00 (\$23,120.00) | \$62,600.00 \$0.00 | \$0.00 | \$0.0 | | | Cost left to Complete Project* | | MILES | DISTRICT | LOCATION | WORK TYPE | ROUTE | | ACT#/ | SPONSOR |
|---|-------------------------|---------------------|----------------|------------------------------|-----------------------|----------|---------------|----------|-------------------|--------------------------------------|---------------------|-----------------|----------------------|--------------------------------------|---------------------------|-------------|----------------|---------------|---------------------------------------|
| 1902/25 Pays | | \$75,740,00 | | (\$23,120.00) | \$0.00 | | | PE | Local Funds | \$2,266,000.00 | | | | | | | | | |
| Registromental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 local. Commental No MPO-Decreasing PE tunds in FY20 in the Amount of \$23,100.00 rederal and \$5,750.00 rederal and \$5,750.0 | | \$75,740,00 | | | | 3,120.00 | -\$23,120.0 | <u> </u> | | | STBG | .152 | LaPorte | | | IR 5220 | A 10 | 1 | Vhite County |
| Registration 182935 No. No. Replacement Shafer No. | | \$75,740,00 | | | | 3,120.00 | -\$23,120.0 | | | | | | 1 | | 0 and local \$62,600.00 | l 250,400.0 | 0 Federa | Add PE FY2 | Comments:No MPO- |
| Comments No MPO-Decreasing PE funds in Pt/20 in the amount of \$23,120,00 federal and \$5,780,00 local. | | \$75,740,00 | | (\$5,780.00) | ¢£ 700 00 | | | PE | _ | | STBG | .152 | LaPorte | _ | 1 | IR 5220 | M 04 | | White County |
| Indiana Department 42222 / | | \$75.740.00 | | | -\$5,760.00 | \$0.00 | \$0.0 | PE | Local Funds | ' | | | • | | | | | | |
| Inclains Department 42222 / A01 US 24 HMA Overlay Preventive Son W of SR 39 (CR 300E) LaPorte 2.61 NHPP S1,470,894.00 Road Consulting PE \$207,744.00 \$51,936.00 \$183,940.00 \$75,740.00 \$120,000.00 | | \$75,740.00 | | | | | | | | | | | |) federal and \$5,780.00 local. | the amount of \$23,120.00 | n FY20 in t | PE funds i | Decreasing F | Comments:No MPO-I |
| Road Construction PE \$105,700.00 \$242,242.80 \$10,000.00 \$1,201,214.0 | | 4. 5,. 10.00 | | \$183,940.00 | \$51,936.00 | 7,744.00 | \$207,744.0 | PE | Road Consulting | \$1,470,894.00 | NHPP | 2.61 | LaPorte | | Preventive | US 24 | A 01 | | · · · · · · · · · · · · · · · · · · · |
| Bridge Construction Constructi | | \$1,201,214.00 | \$10,000.00 | | \$242,242.80 | 8,971.20 | \$968,971.2 | CN | | | | | ı | | | | | | |
| Comments:Please amend all phases into the STIP. No MPO Indiana Department 42245 / of Transportation 1700103 No Indiana Department 170 | | | | \$132,125.00 | \$26,425.00 | 5,700.00 | \$105,700.0 | PE | Bridge Consulting | | | | | | | | | | |
| Indiana Department of Transportation 1700103 17001 | | \$175,683.00 | | | \$35,136.60 | 0,546.40 | \$140,546.4 | CN | | | | | | | | | | | |
| of Transportation 1700103 Concrete of SR 16 S1,911,953.60 \$477,988.40 \$95,000.00 \$2,294,942.0 Costs for this project are included under lead Des. No. (1700103) Construction Const | | | | | L | | | 1 | | | | | | | o MPO | ne STIP. No | ses into th | end all phas | Comments:Please am |
| Construction | | | \$250,000.00 | | \$50,000.00 | 0,000.00 | \$200,000.0 | RW | Bridge ROW | \$1,261,110.00 | NHPP | 0 | LaPorte | , | | US 421 | A 01 | | • |
| Indiana Department 42254 / A 04 SR 18 Pavement from 0.25 mi W to 0.25 mi E of I- Crawfordsville .5 STBG \$5,088,897.00 Road Consulting PE \$531,015.20 \$132,753.80 \$663,769.00 Road Consulting PE \$531,015.20 \$132,753.80 \$132 | | \$2,294,942.00 | \$95,000.00 | | \$477,988.40 | 1,953.60 | \$1,911,953.6 | CN | | | | | 700103) | er lead Des. No. (17 | ncluded unde | t are i | rojec | this p | Costs for |
| of Transportation 1900358 Replacement 65 Road CN \$3,540,102.40 \$885,025.60 Construction | | | <u> </u> | | | | 1 | <u> </u> | | | | | | | o MPO. | ne STIP. No | ses into th | end all phas | Comments:Please am |
| Construction | | | | \$663,769.00 | \$132,753.80 | 1,015.20 | \$531,015.2 | PE | Road Consulting | \$5,088,897.00 | STBG | .5 | Crawfordsville | • | | SR 18 | A 04 | | · · |
| | \$4,425,128 | | | | \$885,025.60 | 0,102.40 | \$3,540,102.4 | CN | | | | | ı | | | | | | |
| Comments:PE phase for \$600,000 FY20, CN phase for \$13,247,514, No MPO | | | | | | | | | | | | | | | or \$13,247,514, No MPO | N phase fo | 0 FY20, C | for \$600,000 | Comments:PE phase |
| Indiana Department | \$100,000 |) | \$170,000.00 | | \$54,000.00 | 6,000.00 | \$216,000.0 | PE | Bridge Consulting | \$1,405,696.00 | STBG | 0 | LaPorte | , | | SR 16 | A 15 | 1 | |
| Bridge CN \$908,556.80 \$227,139.20 Construction | \$15,000.00 \$1,120,696 | | | | \$227,139.20 | 8,556.80 | \$908,556.8 | CN | | | | 1 | ı | ı | 1 | ı | ı | 1 | |
| Comments:No MPO. Amend FY21 PE \$170,000 and FY24 PE/CE \$100,000 and FY23 CN \$15,000 and FY 24 CN \$1,120,696. FY24 phase is for illustrative purpose only. | | | | | | | ı | | | | ative purpose only. | is for illustra | ,120,696. FY24 phase | nd FY23 CN \$15,000 and FY 24 CN \$1 | FY24 PE/CE \$100,000 and | 0,000 and F | 1 PE \$170 | Amend FY2 | Comments:No MPO. |
| Indiana Department 42601 / A 11 165 Other Type Project (Mi From CR-100 W to US-24 Crawfordsville 17.86 NHPP \$1,145,388.00 Safety CN \$1,030,849.20 \$114,538.80 \$1,145,388.00 \$1,1 | |) | \$1,145,388.00 | | \$114,538.80 | 0,849.20 | \$1,030,849.2 | CN | · | | NHPP | 17.86 | Crawfordsville | | | I 65 | A 11 | | · · · · · · · · · · · · · · · · · · · |
| Comments:CN phase for \$1,145,388 FY21, No MPO | | | | | | | | | | | | 1 | | | | No MPO | I 888 FY21, | for \$1,145,3 | Comments:CN phase |

White County Total

Federal: \$36,088,184.60 Match: \$8,512,951.27 2020: \$10,076,065.00 2022: \$5,072,044.00 2023: \$3,547,840.00 2024: \$7,598,824.00 2021: \$18,306,362.87

Page 420 of 422 Report Created:3/27/2020 12:06:01PM

*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.

Des. No. 1701512 H1 Appendix H: Air Quality

| SPONSOR | CONTR ACT#/ LEAD DES | STIP NAME | ROUTE | | LOCATION | DISTRICT | MILES | FEDERAL CATEGORY | Estimated Cost left to Complete Project* | PROGRAM | PHASE | FEDERAL | MATCH | 2018 | 2019 | 2020 | 2021 |
|---|-------------------------------|------------------|------------|---------------------------------|--|----------|--------|---------------------|--|------------------------|-------|--------------|-------------|------|--------------|--------------|------------|
| Comments:Amend F | | FY21 UT/ | | s into the current STIP. No | MPO. | | | | _ | _ | | _ | | | | | |
| Indiana Department of Transportation | 40608 / 1700085 | A 04 | US 41 | Bridge Replacement, Concrete | SB over Chizum Ditch, 1.63 mi N of SR 16 | LaPorte | | 0 NHPP | \$802,706.00 | Bridge Construction | PE | \$40,000.00 | \$10,000.00 | | | | \$50,000.0 |
| | | | | | | | | 1 | | Bridge Consulting | PE | \$108,852.80 | \$27,213.20 | | \$136,066.00 | | |
| Comments:Amend F | Y19 PE and | FY21 UT | /PE phase | s into the current STIP. N | o MPO. | | | | | <u> </u> | | | | | | | |
| Indiana Department of Transportation | 40608 / 1700124 | A 04 | SR 114 | Small Structure - New | 1.75mi W of SR 55 | LaPorte | | 0 STP | \$437,954.00 | Bridge ROW | RW | \$40,000.00 | \$10,000.00 | | | | \$50,000.0 |
| | | | ı | ı | ı | | 1 | I | | Bridge Construction | PE | \$12,000.00 | \$3,000.00 | | | | \$15,000.0 |
| | | | | | | | | | | Bridge Consulting | PE | \$50,150.40 | \$12,537.60 | | \$62,688.00 | | |
| Comments:Amend F | Y19 PE, FY2 | 1 UT/PE | and FY21 I | ROW phases into the curr | ent STIP. No MPO. | | | | | | | | | | | | |
| Indiana Department of Transportation | 40608 / 1701324 | A 04 | US 41 | Small Structure Pipe Lining | 0.28mi S of SR 16 | LaPorte | | 0 NHPP | \$904,110.00 | Bridge Consulting | PE | \$51,200.00 | \$12,800.00 | | \$64,000.00 | | |
| Comments:Amend F | Y19 PE phas | se into the | current S1 | TP. No MPO. | | | | | | 1 | | | | | | | |
| Indiana Department of Transportation | 40608 / 1701492 | A 04 | SR 114 | Small Structure Pipe Lining | 0.43mi W of JCT of SR 55 | LaPorte | | 0 STP | \$32,671.00 | Bridge Consulting | PE | \$1,840.00 | \$460.00 | | \$2,300.00 | | |
| Comments:Amend F | Y19 PE phas | e into the | current S1 | TP. No MPO. | | | | | | l | l l | | | | | | |
| Indiana Department of Transportation | 40608 / 1701505 | A 04 | US 24 | Small Structure Pipe Lining | 1.6 mi W of SR 55 | LaPorte | | 0 NHPP | \$56,329.00 | Bridge Consulting | PE | \$3,200.00 | \$800.00 | | \$4,000.00 | | |
| Comments:Amend F | Y19 PE phas | l se into the | current ST | I TP. No MPO. | | | | | | | | | | | | | |
| Indiana Department of Transportation | 40608 / 1701510 | A 04 | | Small Structure Pipe Lining | East Side of US 41 and SR 10 | LaPorte | (| 0 STP | \$297,418.00 | Bridge Consulting | PE | \$16,800.00 | \$4,200.00 | | \$21,000.00 | | |
| Comments:Amend F | Y19 PE phas | L se into the | current ST | IP. No MPO | | | | | | | | | | | | | |
| Indiana Department of Transportation | 40608 / 1701512 | A 04 | SR 114 | Small Structure Pipe Lining | 1.09 mi E of Jct of US 231 | LaPorte | | 0 STP | \$95,759.00 | Bridge Consulting | PE | \$5,440.00 | \$1,360.00 | | \$6,800.00 | | |
| Comments:Amend F | Y19 PE phas | e into the | current ST | IP. No MPO. | | | | | | | | | | | | | |
| Indiana Department of Transportation | 41434 / 1800065 | A 27 | SR 114 | HMA Overlay Minor Structural | US 41 to I-65 | LaPorte | 11.018 | 8 STP | \$5,289,903.00 | Road Consulting | PE | \$379,520.00 | \$94,880.00 | | | \$474,400.00 | |
| Comments:Amend F | Y20 PE phas | I se into the | current ST | I TP. No MPO | l | | | | | | | | | | | | |
| Indiana Department | 41840 / 1802846 | A 35 | SP PARK | Surface Treatment, Chip Seal | Willow Slough Fish & Wildlife, Main Entrance Road to Boat | LaPorte | (| 0 STPBG | \$416,000.00 | DNR/INST | CN | \$332,800.00 | \$83,200.00 | | | \$416,000.00 | |

Newton County Total

Federal: \$20,938,061.80 Match: \$5,012,749.20

2018: \$8,308,721.00

2019: \$7,302,444.00

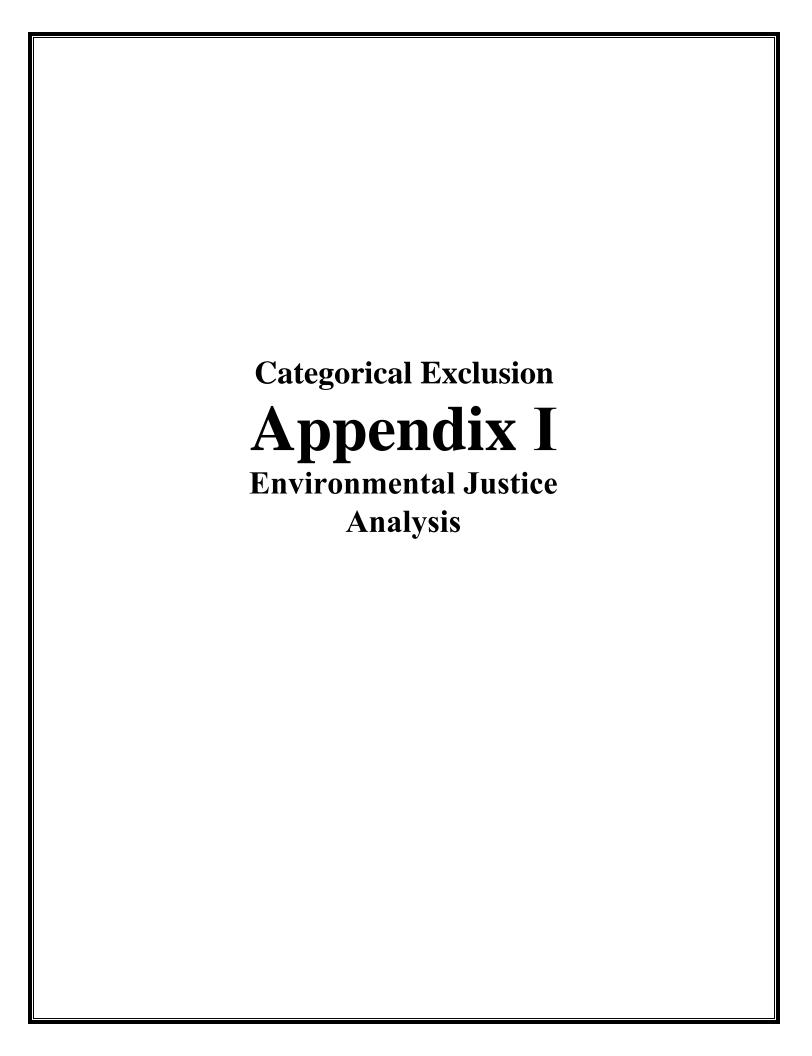
2020: \$8,174,434.00

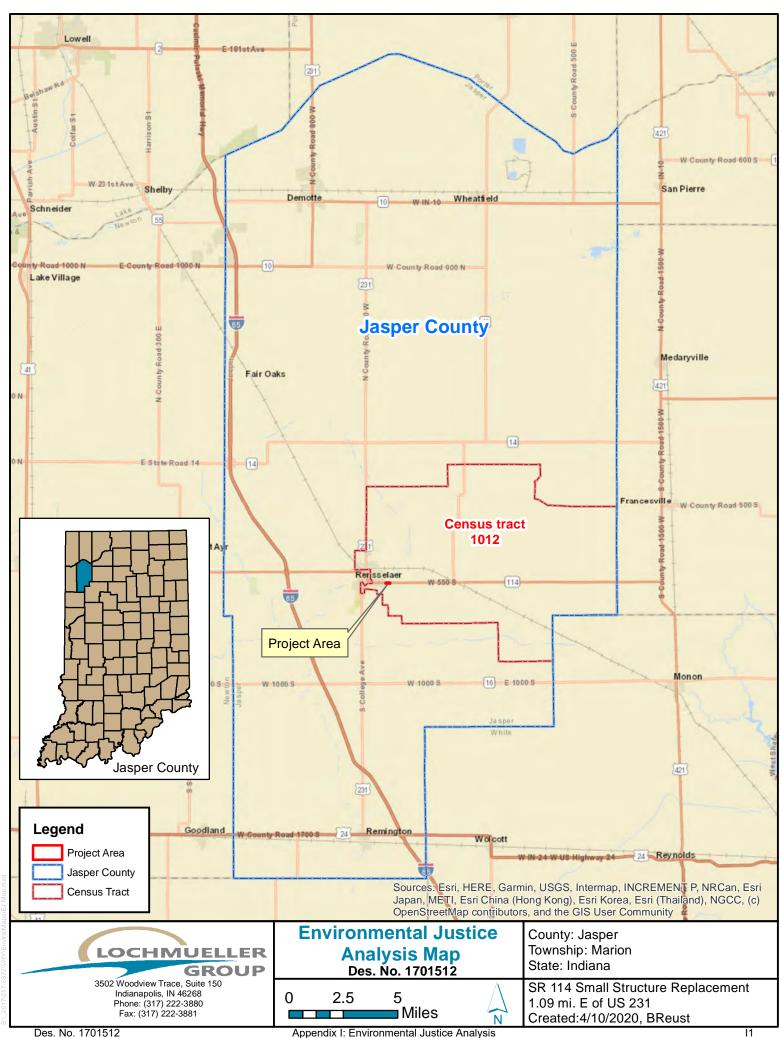
2021: \$2,165,212.00

Page 520 of 857 Report Created:6/17/2019 12:31:59PM

*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.

Des. No. 1701512 H2 Appendix H: Air Quality





| | coc | AC 1 |
|--|---------------------------|----------------------|
| | Jasper County, Indiana | Census Tract 1012 |
| LOW-INCOME POPULATION | | |
| Total Population for Whom Poverty Status is Determined | 32,373 | 3,417 |
| Total Population Below Poverty Level | 2,898 | 358 |
| Percent Low-Income | 9.0% | 10.5% |
| 125 Percent of COC | 11.2% | |
| AC Percent Low-Income Greater Than 125 Percent of COC? | | No |
| AC Percent Low-Income Greater Than 50 Percent? | | No |
| Population of EJ Concern? | | No |
| MINORITY POPULATION | _ | = |
| Total Population | 33,448 | 3,629 |
| Minority Population | 2,767 | 268 |
| Percent Minority | 8.3% | 7.4% |
| 125 Percent of COC | 10.3% | |
| AC Percent Minority Greater Than 125 Percent of COC? | | No |
| AC Percent Minority Greater Than 50 Percent? | | No |
| Population of EJ Concern? | | No |



B03002

HISPANIC OR LATINO ORIGIN BY RACE

Universe: Total population 2013-2017 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

| | Jasper Coun | ty, Indiana | Census Tract 1012 India | | |
|--|-------------|-----------------|----------------------------|-----------------|--|
| | Estimate | Margin of Error | Estimate | Margin of Error | |
| Total: | 33,448 | **** | 3,629 | +/-271 | |
| Not Hispanic or Latino: | 31,459 | **** | 3,541 | +/-275 | |
| White alone | 30,681 | +/-11 | 3,361 | +/-290 | |
| Black or African American alone | 231 | +/-82 | 125 | +/-77 | |
| American Indian and Alaska Native alone | 0 | +/-24 | 0 | +/-11 | |
| Asian alone | 119 | +/-75 | 0 | +/-11 | |
| Native Hawaiian and Other Pacific Islander alone | 0 | +/-24 | 0 | +/-11 | |
| Some other race alone | 0 | +/-24 | 0 | +/-11 | |
| Two or more races: | 428 | +/-117 | 55 | +/-46 | |
| Two races including Some other race | 7 | +/-11 | 0 | +/-11 | |
| Two races excluding Some other race, and three or more races | 421 | +/-116 | 55 | +/-46 | |
| Hispanic or Latino: | 1,989 | **** | 88 | +/-84 | |
| White alone | 1,083 | +/-256 | 88 | +/-84 | |
| Black or African American alone | 8 | +/-14 | 0 | +/-11 | |
| American Indian and Alaska Native alone | 41 | +/-62 | 0 | +/-11 | |
| Asian alone | 0 | +/-24 | 0 | +/-11 | |
| Native Hawaiian and Other Pacific Islander alone | 0 | +/-24 | 0 | +/-11 | |
| Some other race alone | 752 | +/-271 | 0 | +/-11 | |
| Two or more races: | 105 | +/-77 | 0 | +/-11 | |
| Two races including Some other race | 78 | +/-69 | 0 | +/-11 | |
| Two races excluding Some other race, and three or more races | 27 | +/-43 | 0 | +/-11 | |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

1 of 2 03/17/2020 Appendix I: Environmental Justice Analysis

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

- 1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
- 2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
 - 3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
 - 4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
- 5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
 - 6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
- 7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
 - 8. An '(X)' means that the estimate is not applicable or not available.



B17001

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Universe: Population for whom poverty status is determined 2013-2017 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

| | Jasper Coun | ty, Indiana | Census Tract 1012 India | | |
|---|-------------|-----------------|----------------------------|-----------------|--|
| | Estimate | Margin of Error | Estimate | Margin of Error | |
| Total: | 32,373 | +/-179 | 3,417 | +/-295 | |
| Income in the past 12 months below poverty level: | 2,898 | +/-509 | 358 | +/-165 | |
| Male: | 1,273 | +/-259 | 183 | +/-97 | |
| Under 5 years | 85 | +/-62 | 10 | +/-17 | |
| 5 years | 27 | +/-40 | 0 | +/-11 | |
| 6 to 11 years | 268 | +/-135 | 53 | +/-58 | |
| 12 to 14 years | 77 | +/-49 | 10 | +/-16 | |
| 15 years | 21 | +/-18 | 0 | +/-11 | |
| 16 and 17 years | 62 | +/-55 | 0 | +/-11 | |
| 18 to 24 years | 86 | +/-61 | 10 | +/-17 | |
| 25 to 34 years | 136 | +/-76 | 0 | +/-11 | |
| 35 to 44 years | 103 | +/-64 | 37 | +/-33 | |
| 45 to 54 years | 203 | +/-104 | 35 | +/-42 | |
| 55 to 64 years | 122 | +/-68 | 8 | +/-13 | |
| 65 to 74 years | 28 | +/-22 | 7 | +/-12 | |
| 75 years and over | 55 | +/-34 | 13 | +/-17 | |
| Female: | 1,625 | +/-343 | 175 | +/-84 | |
| Under 5 years | 38 | +/-43 | 0 | +/-11 | |
| 5 years | 0 | +/-24 | 0 | +/-11 | |
| 6 to 11 years | 223 | +/-144 | 0 | +/-11 | |
| 12 to 14 years | 38 | +/-42 | 27 | +/-38 | |
| 15 years | 55 | +/-69 | 0 | +/-11 | |
| 16 and 17 years | 14 | +/-18 | 0 | +/-11 | |
| 18 to 24 years | 204 | +/-101 | 38 | +/-33 | |
| 25 to 34 years | 278 | +/-97 | 68 | +/-62 | |
| 35 to 44 years | 214 | +/-96 | 10 | +/-18 | |
| 45 to 54 years | 114 | +/-59 | 0 | +/-11 | |
| 55 to 64 years | 271 | +/-88 | 24 | +/-22 | |
| 65 to 74 years | 41 | +/-35 | 0 | +/-11 | |
| 75 years and over | 135 | +/-58 | 8 | +/-13 | |
| Income in the past 12 months at or above poverty level: | 29,475 | +/-521 | 3,059 | +/-315 | |
| Male: | 14,704 | +/-305 | 1,645 | +/-192 | |
| Under 5 years | 911 | +/-60 | 151 | +/-102 | |

1 of 2 03/17/2020 Appendix I: Environmental Justice Analysis

| | Jasper Coun | ty, Indiana | | 112, Jasper County, diana | | |
|-------------------|-------------|-----------------|----------|------------------------------|--|--|
| | Estimate | Margin of Error | Estimate | Margin of Error | | |
| 5 years | 205 | +/-78 | 29 | +/-42 | | |
| 6 to 11 years | 1,151 | +/-169 | 144 | +/-64 | | |
| 12 to 14 years | 470 | +/-125 | 34 | +/-33 | | |
| 15 years | 151 | +/-57 | 10 | +/-18 | | |
| 16 and 17 years | 484 | +/-89 | 72 | +/-38 | | |
| 18 to 24 years | 1,280 | +/-124 | 118 | +/-74 | | |
| 25 to 34 years | 1,699 | +/-134 | 268 | +/-69 | | |
| 35 to 44 years | 1,930 | +/-91 | 177 | +/-63 | | |
| 45 to 54 years | 1,984 | +/-97 | 164 | +/-76 | | |
| 55 to 64 years | 2,090 | +/-90 | 256 | +/-87 | | |
| 65 to 74 years | 1,480 | +/-40 | 116 | +/-41 | | |
| 75 years and over | 869 | +/-81 | 106 | +/-45 | | |
| Female: | 14,771 | +/-353 | 1,414 | +/-202 | | |
| Under 5 years | 939 | +/-70 | 111 | +/-90 | | |
| 5 years | 238 | +/-91 | 9 | +/-16 | | |
| 6 to 11 years | 1,278 | +/-158 | 87 | +/-50 | | |
| 12 to 14 years | 503 | +/-127 | 25 | +/-25 | | |
| 15 years | 222 | +/-93 | 12 | +/-18 | | |
| 16 and 17 years | 414 | +/-105 | 56 | +/-47 | | |
| 18 to 24 years | 926 | +/-132 | 54 | +/-45 | | |
| 25 to 34 years | 1,583 | +/-108 | 150 | +/-59 | | |
| 35 to 44 years | 1,809 | +/-89 | 222 | +/-67 | | |
| 45 to 54 years | 2,152 | +/-92 | 184 | +/-58 | | |
| 55 to 64 years | 2,001 | +/-97 | 256 | +/-68 | | |
| 65 to 74 years | 1,641 | +/-60 | 132 | +/-42 | | |
| 75 years and over | 1,065 | +/-77 | 116 | +/-49 | | |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

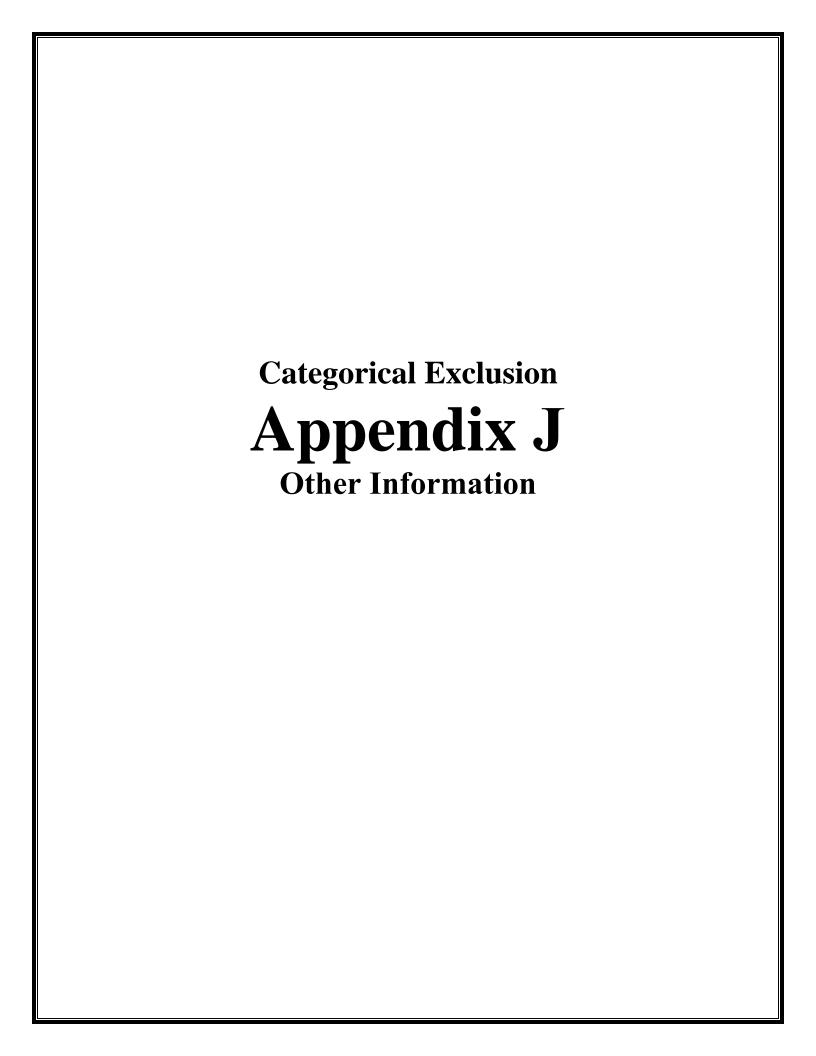
While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

- 1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
- 2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
 - 3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
 - 4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
- 5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
 - 6. An '***** entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
- 7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
 - 8. An '(X)' means that the estimate is not applicable or not available.



Jasper County Indiana DNR: Land & Water Conservation Fund

| Project Number | SubProject Code | County | Property |
|----------------|-----------------|--------|--|
| 1800268 | 1800268 | Jasper | Brook Side Park (LaRue Pool) Rensselaer Municipal Park |
| 1800355 | 1800355 | Jasper | Spencer Park |
| 1800385 | 1800385 | Jasper | Spencer Park |
| 1800438 | 1800438 | Jasper | Remington Town Park |
| 1800603 | 1800603 | Jasper | Remington Community Park |

Please note, some of the property names are cut off on the ends due to character limits.

Also, park names may have changed and is not reflected on the list.

^{*}Various - this may inloude multiple sites in multiple countries and should always be included in your searches by county.