



11. IHSSI 105-055-20076 (C) 5169 N Old SR 37, stone-veneer ranch with large garage addition



12. NC 5097 N Old SR 37, modest ranch with new garage doors, some new windows, vinyl



13. IHSSI 105-055-20075 (C), 4899 N Old SR 37, altered double-pile, vinyl siding, porch canopy and new windows added c. 1920s



14. 105-055-G4 (C) 1100 Prairie Rd, modest ranch, new porch, new garage door



15. 105-055-G5 (C) 1101 Prairie Rd, c. 1965 split-level, new door, vinyl siding



16. Looking east toward Old SR 37 N from Prairie Rd



17. 105-055-G6 (C) 4850 N Old SR 37, two-section massed ranch with breezeway and dovecote on garage, high integrity, but replaced garage doors



18. Looking south on N Old SR 37 from Payne Cemetery



19. IHSSI 105-055-20087 Payne Cemetery



20. Looking north on N Old SR 3& at Payne Cemetery



21. IHSSI 105-055-20026 (Notable) 4705 N Old SR 37, eligible for NRHP



22. IHSSI 105-055-20031 (C) 4871-4869 N Old SR 37, new windows, siding, doors (NC)



23. IHSSI 105-055-20031 barn south of the house



24. IHSSI 105-055-20037 (C) 4425 N Old SR 37--enclosed porch on north side (behind tree), additions on north side & rear



25. IHSS 105-055-20037 close up showing clapboard siding, original windows



26. IHSSI 105-055-20037 pool



27. 105-055-G8 (C) 4498 N Old SR 37, modest ranch with integrity, but new garage door



28. Looking north at N Old SR 37 near Bethel Road



29. Looking south at N Old SR 37 near Bethel Road



30. NC 4414 N Old SR 37, ranch with new windows, vinyl siding



31. IHSSI 105-055-20036 (C) 4393 N Old SR 37, c. 1951 large ranch with integrity, original windows, garage doors, clapboard



32. 105-055-G9 (C) 4328 N Old SR 37, double-gable with new porch baluster



33. Looking north from Audubon Rd at N Old SR 37



34. Looking west at Audubon Road from near end of APE



35. Looking north at N Old SR 37 from end of APE



36. IHSSI 105-055-20039 (C) 4293 N Old SR 37, cottage with attached garage addition, original windows, vinyl siding

Invited consulting parties

Chad Slider, Director of Environmental Review, DHPA	cslider@dnr.in.gov
Mark Dollase, Indiana Landmarks, Central Office	mdollase@indianalandmarks.org
Monroe County Historian	jpoling@homefinder.org
Monroe County History Center	director@monroehistory.org
Bloomington Historic Preservation Commission	emenhisb@bloomington.in.gov
Bloomington Restorations, Inc.	bri@bloomingtonrestorations.org
Downtown Bloomington Commission	tcoppock@downtownbloomington.com
Monroe County Historic Preservation Review Board	cpeterson.co.monroe.in.us
Stinesville Renaissance, Inc.	
Preservation Development, Inc.	preserve@bluemarble.com
Housing and Neighborhood Development	hand@bloomington.in.gov.us
Monroe County Planning Department	lwilson@co.monroe.in.us
Bloomington/Monroe Co. Metropolitan Planning Org.	desmondj@bloomington.in.gov
Monroe County Commissioners	monroecommissionerthomas@gmail.com

Tribal Contacts:

Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians

Bolded type = accepted consulting party status



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

August 1, 2017

This letter was sent to the listed parties.

Re: Unionville Bicentennial Trail, Monroe County, Indiana (Des. No. 0902215).

Dear Consulting Party,

Monroe County, with funding from the Federal Highway Administration (FHWA) and administrative oversight from INDOT, proposes to proceed with the Unionville Bicentennial Trail Project, Des. No. 0902215. Green 3, LLC is under contract with Monroe County to advance the environmental documentation for the referenced project.

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above DES Number and project description in your reply and your comments will be incorporated into the formal environmental study.

The proposed undertaking is located on Old SR 37, from Audubon Drive to Robinson Road, Bloomington Township, Monroe County, Indiana. The project site is located in Sections 2, 3, 10, 15 and 16, Township 9 North, Range 1 West within Monroe County, Indiana. Please see attached topographic map of the project area.

The Unionville Bicentennial Trail (Bicentennial Pathway Project, Phase 1 of the overall Griffy Lake to Lake Lemon bicycle improvements project), is to provide bicycle improvements along Old S.R. 37 from Audubon Drive to Robinson Road, approximately 2.3 miles in length. FHWA is the funding agency. The addition of paved shoulders is expected to enhance vehicular and bicyclist safety. Old SR 37 is a narrow, winding road, which, in many places, does not allow for an upcoming view of bicyclists who may be occupying the travel lanes. It also has considerable drop-offs from the shoulder in some locations. These conditions create a safety issue for bicyclists. Currently, a significant number of bicyclists utilize this route for travel north out of the City of Bloomington and no continuous paved shoulders or bicycle lanes are provided on this section of the road. The proposed project generally consists of the addition of four- (4) or five-foot (5) wide asphalt shoulders with one- (1) or two-foot (2) graded shoulders to both sides of the existing mainline roadway pavement.

The existing travel lanes may be narrowed or adjusted to allow for best fit of the bicycle improvements. The project will also include foreslope grading, ditch grading, backslopes in various locations along the route, modified to match the new improvements. Curb and gutter may be utilized in certain areas to minimize adjacent impacts. Street and driveway approaches will be adjusted accordingly. Existing guardrail in most areas will be removed and replaced to meet current standards; complete removal of guardrail may occur in other areas. Existing culverts will be extended or modified as necessary to correspond with the new improvements. Existing bridges are to remain in place with no planned modifications. Construction is planned for 2020. Traffic is planned to be maintained on the existing roadway, although delays and modifications may occur during construction. The proposed project site is to be located within the limits of existing county road right-of-way or new right-of-way yet to be acquired. Exact right-of-way requirements are not yet available.

Section 106 of the National Historic Preservation Act requires that Federal agencies take into account the effects of their undertakings on historic properties. In accordance with 36 CFR 800.2(c), you are hereby requested to be a consulting party to participate in the Section 106 process. Entities that have been invited to participate in the Section 106 consultation process for this project are identified in the attached list. Per 36 CFR 800.3(f), we hereby request that the Indiana State Historic Preservation Officer (SHPO) notify this office if the SHPO staff is aware of any other parties that may be entitled to be consulting parties or should be contacted as potential consulting parties for the project.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess the undertaking's effects, and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's Guide *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <http://www.achp.gov/citizensguide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. A historian who meets the Secretary of the Interior's Professional Qualification Standards, identified 23 sites within the project area. As a result of these efforts, the property at 4705 N. Old SR 37, IHSSI 105-055-20026 is recommended eligible for listing in the NRHP. With regards to archaeological resources, an Archaeology Report will be prepared for this project and submitted to the SHPO and made available to tribal contacts on IN SCOPE after INDOT approval.

The Historic Property Report is available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/>: (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request within seven (7) days.

Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the

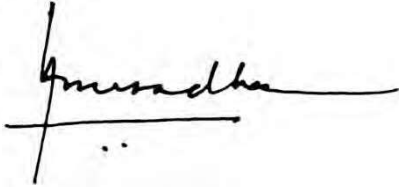
time allotted, the project will proceed consistent with the proposed design and you will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Connie Zeigler at (317) 634-4110 or e-mail to connie@green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3, LLC at the following address:

Connie Zeigler
Architectural Historian/Historian
Green 3 LLC
1104 Prospect Street
Indianapolis, IN 46203
connie@green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317- 233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:

Topographic Project Area Map
Historic Property Report (this may be found on the In-Scope site if you are receiving this letter by email)

Distribution List:

C: Indiana State Historic Preservation Officer
INDOT-CRO
Michele Allen, FHWA
Indiana Landmarks, Central Office
Monroe County Historian
Monroe County History Center
Bloomington Historic Preservation Commission
Bloomington Restorations, Inc.
Downtown Bloomington Commission
Monroe County Historic Preservation Review Board

Stinesville Renaissance, Inc.
Preservation Development, Inc.
Housing and Neighborhood Development
Monroe County Planning Department
Bloomington/Monroe County Metropolitan Planning Organization
Monroe County Commissioners
Tribal Contacts:
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians

Connie Zeigler

From: Connie Zeigler
Sent: Tuesday, August 1, 2017 3:59 PM
To: 'mdollase@indianalandmarks.org'; 'jpoling@homefinder.org'; 'director@monroehistory.org';
'emenhisb@bloomington.in.gov'; 'bri@bloomingtonrestorations.org';
'tcoppock@downtownbloomington.com'; 'jscanlan@co.monroe.in.us'; 'preserve@bluemarble.com';
'hand@bloomington.in.gov'; 'mogle@co.monroe.in.us'; 'desmondj@bloomington.in.gov';
'monroecommissionerthomas@gmail.com'
Cc: 'Ross, Anthony'; Erin Mulryan
Subject: Unionville Bicentennial Trail: Des. No. 0902215 Bloomington, Monroe County, Indiana
Attachments: UnionvilleBicentennialTrail_Topo.pdf; Unionville_Bicentennial_Trail_Project_des0902215_ECL_08-01-2017.pdf

Des. No.: 0902215
Project Description: Trail Project
Location: Bloomington Township

Hello,

Monroe County, with funding from the Federal Highway Administration (FHWA) and administrative oversight from INDOT, proposes to proceed with the Unionville Bicentennial Trail Project, Des. No. 0902215.

Section 106 of the National Historic Preservation Act requires Federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties for this project:

Indiana State Historic Preservation Officer (SHPO)
Indiana Landmarks, Central Office
Monroe County Historian
Monroe County History Center
Bloomington Historic Preservation Commission
Bloomington Restorations, Inc.
Downtown Bloomington Commission
Monroe County Historic Preservation Review Board
Stinesville Renaissance, Inc.
Preservation Development, Inc.
Housing and Neighborhood Development
Monroe County Planning Department
Bloomington/Monroe County Metropolitan Planning Organization
Monroe County Commissioners

Tribal Contacts:
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above DES Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the letter and HPR located in IN-SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des No. 0902215 is the most efficient search term, once in IN-SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30 days) from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party in the time allotted, the project will proceed consistent with the proposed design. **Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.**

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317- 233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Connie Zeigler
Architectural Historian

connie@green3studio.com



Connie Zeigler

From: Dee Gardner <dgardner@estoo.net>
Sent: Wednesday, August 2, 2017 8:57 AM
To: Ross, Anthony
Subject: RE: FHWA Project: Des. No. 0902215, Unionville Bicentennial Trail, Monroe County, Indiana

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

Thank you

From: Ross, Anthony [mailto:ARoss3@indot.IN.gov]
Sent: Wednesday, August 02, 2017 7:16 AM
To: Dee Gardner; dhunter@miamination.com; lpappenfort@peoriatribe.com; Jason.wesaw@pokagonband-nsn.gov
Cc: Miller, Shaun (INDOT); michelle.allen@dot.gov; Kennedy, Mary; Kumar, Anuradha; Connie Zeigler; Erin Mulryan
Subject: FHWA Project: Des. No. 0902215, Unionville Bicentennial Trail, Monroe County, Indiana

Des. No.: 0902215

Project Description: Trail Project

Location: Bloomington Township

Monroe County, with funding from the Federal Highway Administration (FHWA) and administrative oversight from INDOT, proposes to proceed with the Unionville Bicentennial Trail Project, Des. No. 0902215.

Section 106 of the National Historic Preservation Act requires Federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties for this project:

Indiana State Historic Preservation Officer (SHPO)
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 Monroe County Historian
 Monroe County History Center
 Bloomington Historic Preservation Commission
 Bloomington Restorations, Inc.
 Downtown Bloomington Commission
 Monroe County Historic Preservation Review Board
 Stinesville Renaissance, Inc.
 Preservation Development, Inc.
 Housing and Neighborhood Development
 Monroe County Planning Department
 Bloomington/Monroe County Metropolitan Planning Organization
 Monroe County Commissioners

Tribal Contacts:

Eastern Shawnee Tribe of Oklahoma
 Miami Tribe of Oklahoma
 Peoria Tribe of Indians of Oklahoma
 Pokagon Band of Potawatomi Indians

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above DES Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the letter and HPR located in IN-SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des No. 0902215 is the most efficient search term, once in IN-SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30 days) from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party in the time allotted, the project will proceed consistent with the proposed design. **Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.**

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317- 233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Anthony Ross, Ph.D.

Historian

Cultural Resources Office

Environmental Services

100 N. Senate Ave., Room N642

Indianapolis, IN 46204

Office: (317) 234-0142

Email: aross3@indot.in.gov



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Miami Tribe of Oklahoma

3410 P St. NW, Miami, OK 74354 • P.O. Box 1326, Miami, OK 74355
Ph: (918) 541-1300 • Fax: (918) 542-7260
www.miamination.com

CP Correspondence



August 17, 2017

Shaun Miller
Archaeological Team Lead
Cultural Resources Office
Indiana DOT
575 North Pennsylvania Street
Indianapolis, IN 46204

Re: Des. No. 0902215, Unionville Bicentennial Trail, Monroe County, Indiana – Comments of the Miami Tribe of Oklahoma

Dear Mr. Miller:

Aya, kikwehsitoole – I show you respect. My name is Diane Hunter, and I am the Tribal Historic Preservation Officer for the Federally Recognized Miami Tribe of Oklahoma. In this capacity, I am the Miami Tribe's point of contact for all Section 106 issues.

The Miami Tribe offers no objection to the above-mentioned project at this time, as we are not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, as this site is within the aboriginal homelands of the Miami Tribe, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. In such a case, please contact me at 918-541-8966 or by email at dhunter@miamination.com to initiate consultation.

The Miami Tribe accepts the invitation to serve as a consulting party to the proposed project. In my capacity as Tribal Historic Preservation Officer I am the point of contact for consultation.

Respectfully,

Diane Hunter
Tribal Historic Preservation Officer
Miami Tribe of Oklahoma



Division of Historic Preservation & Archaeology-402 W. Washington Street, W274 Indianapolis, IN 46204-2739
Phone 317-232-1646-Fax 317-232-0693 dhpa@dnr.IN.gov



August 24, 2017

Connie Zeigler
Green3
1104 Prospect Street
Indianapolis, Indiana 46203

Federal Agency: Federal Highway Administration

Re: Historic property report (Zeigler, 8/1/2017) for the proposed Unionville Bicentennial Trail Project
(Designation #0902215; DHPA #21436)

Dear Ms. Zeigler:

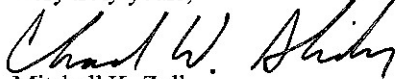
Pursuant to Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana," the staff of the Indiana State Historic Preservation Officer has conducted an analysis of the materials dated August 1, 2017 and received on August 4, 2017, for the above indicated project in Bloomington Township, Monroe County, Indiana.

In regard to buildings and structures within the area of potential effects, we agree with the consultant's assessment that the house at 4705 N. Old SR 37 (IHSSI #105-055-20026) appears to be the only property eligible for inclusion in the National Register of Historic Places.

The above comments are strictly in regards to historic structures, since no information has been provided thus far regarding archaeology.

A copy of the revised 36 C.F.R. Part 800 that went into effect on August 5, 2004 may be found on the Internet at www.achp.gov for your reference. If you have questions about archaeological issues please contact Mitch Zoll at (317) 232-3492 or mzoll@dnr.IN.gov. If you have questions about buildings or structures please contact Chad Slider at (317) 234-5366 or cslider@dnr.IN.gov. Additionally, in all future correspondence regarding the above indicated project, please refer to DHPA #21436.

Very truly yours,


Mitchell K. Zoll
Deputy State Historic Preservation Officer

MKZ:CWS:cws

emc: Anuradha Kumar, INDOT
Shaun Miller, INDOT
Mary Kennedy, INDOT
Shirley Clark, INDOT



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

June 4, 2019

This letter was sent to the listed parties.

RE: Unionville Bicentennial Trail Project, Des. No. 0902215

Dear Consulting Party,

Monroe County Commissioners, with funding from the Federal Highway Administration (FHWA) and administrative oversight from INDOT, propose to proceed with the Unionville Bicentennial Trail Project, Des. No. 0902215. Green 3, LLC is a subconsultant to IXOYE Trail & Greenways Engineering, who is under contract with the Monroe County Commissioners to advance the environmental documentation for the referenced project.

This letter is part of the Section 106 review process for this project. A Section 106 early coordination letter was distributed to consulting parties on August 1, 2017.

The proposed undertaking is on Old SR 37 from Audubon Drive to Robinson Road in Monroe County, Indiana. It is within Bloomington Township and located on the USGS Bloomington and Unionville quads (7.5) map, Section 2, 3, 10, 11, 15 and 16 Township 9 North, Range 1 West.

The need of the project is due to the unsafe conditions along Old SR 37 for cyclists using the roadway. The existing corridor along Old SR 37 is narrow, winding, and has poor visibility of upcoming cyclists who may be occupying the travel lanes in many sections. The project area receives a significant amount of bicycle traffic from the City of Bloomington and currently has no paved shoulders or bicycle lanes. The road also has steep drop-offs from the shoulder along some sections of the route that create safety issues for cyclists. Currently, there are no cyclist accommodations that connect the City of Bloomington to the nearby Lake Lemon and its numerous recreational activities. The purpose of the project is to address the lack of cyclist accommodations along Old SR 37 and provide cyclist connectivity between the City of Bloomington, Griffy Lake, and Lake Lemon.

The project proposes the addition of paved shoulders along approximately 2.3 miles of Old SR 37 from Audubon Road to Robinson Road. Throughout the proposed alignment, there will be four- (4') to six-foot (6') wide asphalt shoulders with one- (1') or two-foot (2') graded shoulders to both sides of the existing mainline roadway pavement. The existing travel lanes may be narrowed or adjusted to allow for a best fit of the bicycle improvements. The project will also include foreslope grading, ditch grading, backslopes in various locations along the route, modified to match the new improvements. Curb and gutter may be utilized in certain areas to minimize adjacent impacts. Street and driveway approaches will be adjusted accordingly. Existing guardrail in most areas will be removed and replaced to meet current standards; complete removal of guardrail may occur in

other areas. Existing culverts will be extended or modified as necessary to correspond with the new improvements. Existing bridges are to remain in place with no planned modifications. It is anticipated that tree removal will be required along the roadside. The current proposed method for maintenance of traffic during construction is temporary lane closures and flagging. Approximately 7 acres of permanent right-of-way, 5.6 acres of re-acquisition of existing right-of-way, and 5 acres of temporary right-of-way, totaling approximately 17.6 affected acres, is anticipated at this time.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process. Entities that have accepted consulting party status are identified in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, the property at 4705 N. Old SR 37, IHSSI 105-055-20026 is recommended as eligible for listing in the NRHP. The SHPO concurred with the HPR recommendation in a letter dated August 24, 2017. The limits of the project changed slightly after the Historic Property Report was completed; however, the above-ground APE was large enough to encompass the new project area and no additional above-ground survey work is recommended.

With regards to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified two (2) sites within the project area. As a result of these efforts, site(s) 12-Mo-1560 and 12-Mo-1647 were recommended not eligible for listing in the NRHP and no further work is recommended.

This letter and the Archaeology Report (Tribes only) is available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request within seven (7) days.

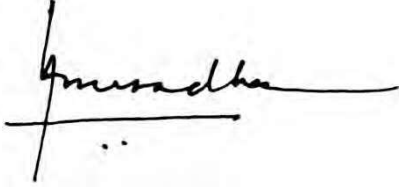
Please review the information and comment within thirty (30) calendar days of receipt.

For questions concerning specific project details, you may contact Connie Zeigler at (317) 634-4110 or e-mail to connie@green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3, LLC at the following address:

Connie Zeigler
Architectural Historian/Historian
Green 3 LLC
1104 Prospect Street
Indianapolis, IN 46203
connie@green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:

Topographic Map
Preliminary plans

Distribution List:

C: Indiana State Historic Preservation Officer
Indiana Landmarks, Central Office
Monroe County Historian
Monroe County History Center
Bloomington Historic Preservation Commission
Bloomington Restorations, Inc.
Downtown Bloomington Commission
Monroe County Historic Preservation Review Board
Stinesville Renaissance, Inc.
Preservation Development, Inc.
Housing and Neighborhood Development
Monroe County Planning Department
Bloomington/Monroe County Metropolitan Planning Organization
Monroe County Commissioners
Gerald Stasny
Tribal Contacts:
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Delaware Tribe of Indians, Oklahoma

Connie Zeigler

From: Connie Zeigler
Sent: Thursday, June 6, 2019 10:25 AM
To: Slider, Chad (DNR); Tharp, Wade
Cc: Moffatt, Charles D; Kumar, Anuradha; Ross, Anthony; Branigin, Susan; Miller, Shaun (INDOT); Erin Mulryan; Chris Jackson; Kevin McLane
Subject: FHWA Project: Des. No. 0902215 Unionville Bicentennial Trail, Monroe County, Indiana

Dear Consulting Parties,

Des. No.: 0902215
Project Description: Unionville Bicentennial Trail
Location: Monroe County, Indiana

Monroe County with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation, proposes to proceed with the Unionville Bicentennial Trail, Monroe County, Indiana, Des. No. 0902215.

As part of Section 106 of the National Historic Preservation Act, a Section 106 Distribution Letter and Archaeology Report have been prepared and are ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Connie Zeigler
Architectural Historian

connie@green3studio.com



Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203

p 317.634.4110
f 866.477.2046

Connie Zeigler

From: Miller, Shaun (INDOT) <smiller@indot.IN.gov>
Sent: Thursday, June 6, 2019 2:39 PM
To: 'thpo@estoo.net'; 'dhunter@miamination.com'; 'lpappenfort@peoriatribe.com';
'Matthew.Bussler@pokagonband-nsn.gov'; lheady@delawaretribe.org
Cc: Michelle (FHWA) Allen; Connie Zeigler; Ross, Anthony; Moffatt, Charles D
Subject: FHWA Project: Des. No. 0902215 Unionville Bicentennial Trail, Monroe County, Indiana

Dear Consulting Parties,

Des. No.: 0902215
Project Description: Unionville Bicentennial Trail
Location: Monroe County, Indiana

Monroe County with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation, proposes to proceed with the Unionville Bicentennial Trail, Monroe County, Indiana, Des. No. 0902215.

As part of Section 106 of the National Historic Preservation Act, a Section 106 Distribution Letter and Archaeology Report have been prepared and are ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Shaun Miller
INDOT, Cultural Resources Office
Archaeology Team Lead
(317)233-6795



Division of Historic Preservation & Archaeology 402 W. Washington Street, W274 Indianapolis, IN 46204-2739
Phone 317-232-1646 Fax 317-232-0693 dhpa@dnr.IN.gov



July 8, 2019

Connie Zeigler
Green 3, LLC
1104 Prospect Street
Indianapolis, Indiana 46203

Federal Agency: Federal Highway Administration ("FHWA")

Re: Phase Ia archaeological study (Jackson, 04/10/2019) for the proposed Unionville Bicentennial Trail Project Designation No. 0902215; DHPA No. 21436)

Dear Ms. Zeigler:

Pursuant to Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana," the staff of the Indiana State Historic Preservation Officer has conducted an analysis of the materials received along with your Review Request Submittal Form dated June 6, 2019, all of which we received on June 7, 2019, for the above indicated project in Bloomington Township, Monroe County, Indiana.

In regard to archaeological resources within the proposed project area, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places ("NRHP") within the portions of the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the Phase Ia archaeological study (Jackson, 04/10/2019), that no further archaeological investigations appear necessary at the proposed project area.

Additionally, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, there is insufficient information regarding archaeological site 12-Mo-1560 (which was identified during the archaeological investigations) to determine whether it is eligible for inclusion in the NRHP. However, the portions of this site that lie within the proposed project area do not appear to contain significant archaeological deposits, and no further archaeological investigations appear necessary in those areas.

Furthermore, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, there is insufficient information regarding archaeological site 12-Mo-1647 (which was identified during the archaeological investigations) to determine whether it is eligible for inclusion in the NRHP. However, it is our understanding that the entirety of this site lies outside the proposed project area, and will be avoided by all proposed project-related ground-disturbing activities.

The portions of archaeological site 12-Mo-1560 that lie outside the proposed project area, along with the entirety of archaeological site 12-Mo-1647, must either be avoided by all proposed project-related ground-disturbing activities or subjected to further archaeological investigations. Additionally, those areas of the sites should be clearly marked so that they are avoided by all ground-disturbing project activities. If avoidance is not feasible, then a plan for subsurface archaeological investigations must be submitted to the Division of Historic Preservation and Archaeology ("DHPA") for review and comment. Any further

Connie Zeigler
July 8, 2019
Page 2

archaeological investigations must be done in accordance with the "Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation" (48 F.R. 44716).

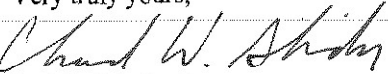
Moreover, we note that portions of the proposed project area lie immediately adjacent to Payne Cemetery (CR-53-89 in the Indiana DHPA SHAARD database system). Please note that, if any portion of the proposed project area is within 100 feet of a cemetery, then a cemetery development plan may be necessary under IC 14-21-1-26.5. The aforementioned cemetery must be avoided by all project activities, and provisions of relevant state statutes regarding cemeteries (including IC 14-21-1 and IC 23-14) must be adhered to. Please also be aware of Indiana Code 23-14-44-1 and Indiana Code 23-14-44-2, regarding restrictions on roads and utility construction in cemeteries.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery must be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. 800.

Additionally, as previously indicated, in regard to buildings and structures within the area of potential effects, we agree with the consultant's assessment that the house at 4705 N. Old SR 37 (IHSSI #105-055-20026) appears to be the only property eligible for inclusion in the NRHP.

A copy of the revised 36 C.F.R. Part 800 that went into effect on August 5, 2004 may be found on the Internet at www.achp.gov for your reference. If you have questions about archaeological issues please contact Wade T. Tharp at (317) 232-1650 or wtharp1@dnr.IN.gov. If you have questions about buildings or structures please contact Chad Slider at (317) 234-5366 or cslider@dnr.IN.gov. Additionally, in all future correspondence regarding the above indicated project, please refer to DHPA No. 21436.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:WTT:wtt

emc: Anuradha Kumar, INDOT
Shaun Miller, INDOT
Mary Kennedy, INDOT
Shirley Clark, INDOT



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

August 27, 2019

This effects letter was sent to the listed parties.

Re: Unionville Bicentennial Trail Project, Old SR 37, Bloomington Township, Monroe County, Indiana– Effects Letter

Dear Consulting Party,

Pursuant to Section 106 of the National Historic Preservation Act (1966) and 36 CFR Part 800 (Revised January 2001 and incorporating amendments effective August 5, 2004), federal agencies are required to take into account the effects of their undertakings on historic and archaeological properties Monroe County, with funding from the Federal Highway Administration (FHWA) and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with Unionville Bicentennial Trail, Monroe County, Indiana (Des. No. 0902215). Green 3, LLC is under contract with Monroe County to advance the environmental documentation for the referenced project.

The project proposes the addition of paved shoulders along approximately 2.3 miles of Old SR 37 from Audubon Road to Robinson Road. Throughout the proposed alignment, there will be four- (4') to six-foot (6') wide asphalt shoulders with one- (1') or two-foot (2') graded shoulders to both sides of the existing mainline roadway pavement. The existing travel lanes may be narrowed or adjusted to allow for a best fit of the bicycle improvements. The project will also include foreslope grading, ditch grading, backslopes in various locations along the route, modified to match the new improvements. Curb and gutter may be utilized in certain areas to minimize adjacent impacts. Street and driveway approaches will be adjusted accordingly. Existing guardrail in most areas will be removed and replaced to meet current standards; complete removal of guardrail may occur in other areas. Existing culverts will be extended or modified as necessary to correspond with the new improvements. Existing bridges are to remain in place with no planned modifications. It is anticipated that tree removal will be required along the roadside. The current proposed method for maintenance of traffic during construction is temporary lane closures and flagging. Approximately 7 acres of permanent right-of-way, 5.6 acres of re-acquisition of existing right-of-way, and 5 acres of temporary right-of-way, totaling approximately 17.6 affected acres, is anticipated at this time. Please see Preliminary Plans attached.

On August 1, 2017, an early coordination letter was distributed to potential consulting parties inviting them to participate in the Section 106 process and review the Historic Property Report (HPR; Zeigler, 8/1/2017) for this project. The HPR recommended one resource in the project area as eligible for the National Register of Historic Places (NRHP): the house at 4705 N. Old SR 37, Indiana Historic Sites and Structures (IHSSI) # 105-055-20026.

The State Historic Preservation Officer (SHPO) staff concurred with the recommendations of the HPR in a letter dated August 24, 2017, stating that “we agree with the consultant’s assessment that the house at 4705 N. Old SR 37 (IHSI #105-055-20026) appears to be eligible for inclusion in the National Register of Historic Places.”

On August 18, 2017, the Miami Tribe of Oklahoma accepted consulting party status and offered no objection to the project; however, the tribe requested immediate consultation if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered.

A Phase Ia archaeological investigation was prepared (Jackson April 10, 2019). It was submitted to the SHPO and distributed to tribes via IN SCOPE, along with a distribution letter, on June 4, 2019. The report identified two (2) sites within the project area. As a result of these efforts, site(s) 12-Mo-1560 and 12-Mo-1647 were recommended not eligible for listing in the NRHP and no further work was recommended. The SHPO staff replied to the archaeological report in a letter dated July 8, 2018, stating that “we have not identified any currently known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the portions of the proposed project area; and we concur with the opinion of the archaeologist . . . that no further archaeological investigations appear necessary at the proposed project area.”

The Division of Archaeology and Historic Preservation responded to the archaeology report in a letter dated July 8, 2019, concurring with the recommendations of the report that there are no “known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the portions of the proposed project area; and . . . that no further archaeological investigations appear necessary in those areas.”

No other consulting party comments were received. Copies of all consulting party correspondence are found in CP Correspondence attached.

Project Effects

According to CFR 800.5(a)(1), “an adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property’s location, design, setting, materials, workmanship, feeling, or association.” While the project will be visible from the property, the project will not require right-of-way or have any direct impacts at this location. The slight changes in viewshed that may be created from construction of shoulders on Old SR 37 will be visible only from the stone walls at the front of the property and will not in any way impact the integrity of this property. The project will have No Adverse Effect on the House, IHSSI #105-055-20026, 4705 N. Old SR 37.

The House at 4705 N. Old SR 37, IHSSI #105-055-20026 is a limestone English Cottage with red tile roof constructed c. 1920. The property also included entry walls/gates adjacent to Old SR 37, a stacked-stone wall along the drive to the house, and a stone well-house.

House, 4705 N. Old SR 37, IHSSI #105-055-20026, Per 800.5(a)(2)(i), the undertaking will not result in the “Physical destruction of or damage to all or part of the property;” there will be no right-of-way acquired from the property. See plan sheet 11 attached.

Per 36 CFR 800.5(a)(2)(ii), the undertaking will not cause the “Alteration of a property, including restoration, rehabilitation, repair, maintenance, stabilization, hazardous material remediation and provision of handicapped access, that is not consistent with the Secretary’s Standards for the Treatment of Historic Properties and/or other applicable guidelines.”

Per 36 CFR 800.5(a)(2)(iii), the undertaking will not result in the “Removal of the property from its historic location.”

Per 36 CFR 800.5(a)(2)(iv), the undertaking will not result in the “Change of the character of the property’s use or physical features within the property’s setting that contribute to its historic significance.” There will be no direct impacts and the project will have little to no impact on the property’s setting. Project elements, such as the addition of shoulders and a retaining wall on the opposite side of Old SR 37 will be visible only from the entry gate walls of the property and will not change any features that contribute to its historic significance.

Per 36 CFR 800.5(a)(2)(v), the undertaking will not result in the “Introduction of visual, atmospheric or audible elements that diminish the integrity of the property’s significant historic features.” The project will not introduce elements that diminish the historic architecture or materials of the house, which make it eligible for the NRHP.

Per 36 CFR 800.5(a)2(vi), the undertaking will not cause the “Neglect of a property which causes its deterioration...”

Per 36 CFR 800.5(a)2(vii), the undertaking will not cause the “Transfer, lease, or sale of property out of Federal ownership or control...”

Efforts to minimize the effects of the project resulted in moving the project limits south at this location to avoid taking right-of-way that might impact the entry walls at the historic property. A commitment to work within existing right-of-way at this location has been placed on the plans, thus avoiding impacts the stone walls/gates at the front of the property.

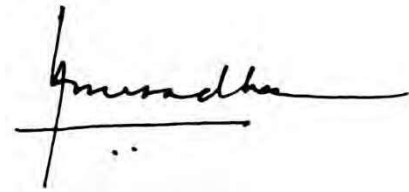
We look forward to comments and input from consulting parties regarding the effects of the project. Consulting parties may respond to this letter by email, phone or standard mail.

Please review the information and comment within thirty (30) calendar days of receipt. For questions concerning specific project details, you may contact Connie Zeigler of Green 3 at 317-634-4110 or connie@Green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3 at the following address:

Connie Zeigler
Architectural Historian
Green 3, LLC
1104 Prospect St.
Indianapolis, IN 46203
connie@Green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317- 233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:

Consulting Party Correspondence
Preliminary Plans with property boundary outlined
Photos of walls and Aerial Parcel GIS Map

Distribution List:

SHPO
Miami Tribe of Oklahoma
Gerald Stasny, property owner

Connie Zeigler

From: Connie Zeigler
Sent: Thursday, August 29, 2019 12:08 PM
To: Chad Slider (cwslider@gmail.com)
Cc: Ross, Anthony; Branigin, Susan; Miller, Shaun (INDOT); Kumar, Anuradha; Erin Mulryan; Karen Wood
Subject: FHWA Project: Des. No 0902215, Unionville Bicentennial Trail, Monroe County, Indiana
Attachments: Old SR 37_BicentennialTrail_des0902215_distribution_2019-08-27.pdf

Des. No.: 0902215
Project Description: Unionville Bicentennial Trail
Location: Bloomington Township, Washington County, Indiana

Monroe County with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation, proposes to proceed with the **Unionville Bicentennial Trail, Monroe County, Indiana**. The Section 106 Early Coordination Letter for this project was originally distributed on August 1, 2017.

As part of Section 106 of the National Historic Preservation Act, an effects letter has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Connie Zeigler
Architectural Historian

connie@green3studio.com

g r e e n 3



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Connie Zeigler

From: Ross, Anthony <ARoss3@indot.IN.gov>
Sent: Thursday, August 29, 2019 12:35 PM
To: 'dhunter@miamination.com'
Cc: Miller, Shaun (INDOT); Branigin, Susan; Kumar, Anuradha; Allen, Michelle (FHWA); Connie Zeigler; Karen Wood; Erin Mulryan; Hicks, Zachary; ljridge@co.monroe.in.us
Subject: FHWA Project: Des. No 0902215, Unionville Bicentennial Trail, Monroe County, Indiana

Des. No.: 0902215
Project Description: Unionville Bicentennial Trail
Location: Bloomington Township, Washington County, Indiana

Monroe County with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation, proposes to proceed with the **Unionville Bicentennial Trail, Monroe County, Indiana**. The Section 106 Early Coordination Letter for this project was originally distributed on August 1, 2017.

As part of Section 106 of the National Historic Preservation Act, an effects letter has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Anthony Ross, Ph.D.

LPA Program Administrator

Cultural Resources Office

Environmental Services

100 N. Senate Ave., Room N642-ES

Indianapolis, IN 46204

Office: (317) 234-0142

Email: aross3@indot.in.gov



**** Historic Property Report (HPR) guidelines can be found [here](#)**



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September 30, 2019

Connie Zeigler
Architcctural Historian
Green 3, LLC
1104 Prospect Street
Indianapolis, Indiana 46203

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration (“FHWA”)

Re: Effects assessment and bikeway plans for the proposed Unionville Bicentennial Trail Project in
Bloomington Township, Monroe County, Indiana. (Des. No. 0902215; DHPA No. 21436)

Dear Ms. Zeigler:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO or DNR-DHPA”) has reviewed INDOT’s August 27, 2019, letter, submitted with the Review Request Submittal form by Green 3, LLC, dated August 29, 2019, all of which was received on August 30, 2019.

Based on the information provided in this submission, we agree that the only historic property identified within the area of potential effects, the house at 4705 N. Old SR 37 (IHSSI Site # 105-055-20026), will not be adversely affected by this project.

Additionally, as previously indicated, in regard to archaeological resources within the proposed project area, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places (“NRHP”) within the portions of the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the Phase Ia archaeological study (Jackson, 04/10/2019), that no further archaeological investigations appear necessary at the proposed project area.

Furthermore, as previously indicated, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, there is insufficient information regarding archaeological site 12-Mo-1560 (which was identified during the archaeological investigations) to determine whether it is eligible for inclusion in the NRHP. However, the portions of this site that lie within the proposed project area do not appear to contain significant archaeological deposits, and no further archaeological investigations appear necessary in those areas.

Moreover, as previously indicated, based upon the submitted information and the documentation available to the staff of the Indiana SHPO, there is insufficient information regarding archaeological site 12-Mo-1647 (which was identified during the archaeological investigations) to determine whether it is eligible for inclusion in the NRHP. However, it is our understanding that the entirety of this site lies outside the proposed project area, and will be avoided by all proposed project-related ground-disturbing activities.

As previously indicated, the portions of archaeological site 12-Mo-1560 that lie outside the proposed project area, along with the entirety of archaeological site 12-Mo-1647, must either be avoided by all proposed project-related ground-disturbing activities or subjected to further archaeological investigations. Additionally, those areas of the sites should be clearly marked so that they are avoided by all ground-disturbing project activities. If avoidance is not feasible, then a plan for subsurface archaeological investigations must be submitted to the Division of Historic Preservation and Archaeology ("DHPA") for review and comment. Any further archaeological investigations must be done in accordance with the "Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation" (48 F.R. 44716).

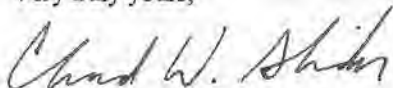
Additionally, as previously indicated, we note that portions of the proposed project area lie immediately adjacent to Payne Cemetery (CR-53-89 in the Indiana DHPA SHAARD database system). Please note that, if any portion of the proposed project area is within 100 feet of a cemetery, then a cemetery development plan may be necessary under IC 14-21-1-26.5. The aforementioned cemetery must be avoided by all project activities, and provisions of relevant state statutes regarding cemeteries (including IC 14-21-1 and IC 23-14) must be adhered to. Please also be aware of Indiana Code 23-14-44-1 and Indiana Code 23-14-44-2, regarding restrictions on roads and utility construction in cemeteries.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery must be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. 800.

The structures reviewer for this project on the Indiana SHPO staff is Chad Slider, and the archaeological reviewer is Wade T. Tharp. However, if you have a question about our comments or about the review process, please contact initially one of the INDOT Cultural Resources Office staff members assigned to this project.

If there is any future correspondence regarding for the Unionville Bicentennial Trail Project in Bloomington Township, Monroe County (Des. No. 0902215), please refer to DHPA No. 21436.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:CWS:WTT:wtt

emc: Anuradha Kumar, INDOT
Susan Branigin, INDOT
Shaun Miller, INDOT
Anthony Ross, INDOT
Shirley Clark, INDOT

Unionville Bicentennial Trail Project

HISTORIC PROPERTY REPORT

Bloomington Township, Monroe County, Indiana
Des. No. 0902215



August 1, 2017
Prepared for:
IXOYE Engineering
By:

Connie Zeigler
Green3 LLC
Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203



Executive Summary

The Federal Highway Administration (FHWA) and Monroe County plan to proceed with the Bicentennial Bike Trail Project (Des. No. 0902215). The project is located adjacent to Old SR 37 in Bloomington Township, Monroe County, Indiana.

The Unionville Bicentennial Pathway Project, Phase 1 of the overall Griffy Lake to Lake Lemon bicycle improvements project is to provide bicycle improvements along Old SR 37 from Audubon Drive to Robinson Road, approximately 2.3 miles in length.

The area of potential effects (APE) of the project includes all properties adjacent to the project and those with a proximate viewshed of the project. Forested areas, rolling landscape and bends in the road limited the APE.

Connie Zeigler, a qualified professional who meets the Secretary of the Interior Standards, evaluated properties in the APE and prepared the Historic Property Report. There are 14 previously surveyed resources within the APE; 11 are rated Contributing and two are rated Notable in the Indiana Historic Sites and Structures Inventory (IHSSI), one resource has been demolished. Nine resources that were not evaluated in the IHSSI were evaluated for this project and considered to be Contributing or Notable. One of the previously evaluated (and rated Notable) resources, House 105-055-20026, is recommended eligible for the National Register of Historic Places (NRHP).

**Phase Ia Archaeological Study for the Proposed Unionville
Bicentennial Trail Project (Des. No. 0902215) in Bloomington
Township, Monroe County, Indiana**
ARCHAEOLOGICAL REPORT

April 10, 2019

Prepared for:
IXOYE Engineering
349 Southway Court
Bargersville, Indiana 46106



Christopher Jackson, M.S., RPA
Archaeologist, Historian/QP
Green3 LLC
Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203

p. 317.634.4110

f. 866.422.2046

e. chris@green3studio.com

ABSTRACT

In April 2017, IXOYE Engineering contracted Green 3 to conduct a Phase Ia archaeological study for the proposed Unionville Bicentennial Bike Trail project in Bloomington Township, Monroe County, Indiana. The proposed trail is in Sections 2, 3, 10, 15, and 16, Township 9 North, Range 1 West.

The proposed project is part of the larger Unionville Bicentennial Bike Trail that will eventually connect Griffey Lake to Lake Lemon. The current study examined Phase I of the overall project, which commences at the intersection of Old SR 37 and Audubon Road and terminates at the intersection of Old SR 37 and Robinson Road. This section is approximately 2.3 miles in length and originally the width was from approximately 10 feet (from edge of pavement) to 30 feet. However, since the time of the original investigation, the plans were revised. The revised width of the proposed alignment ranged from the existing right-of-way to 50 feet from the Old SR 37 centerline; most of the proposed trail will have a width of approximately 30 feet. The project area encompassed approximately six acres (2.4 ha).

The records review indicated that no portion of the project area had been professionally examined and that no archaeological sites had been recorded in the project area. No National Register of Historic Places (NRHP) properties have been documented either in or within 100 feet of the project area. The eastern edge of Payne Cemetery will be impacted by the proposed project; thus, a cemetery development plan needs to be submitted.

The field investigation entailed visual inspection, pedestrian survey, and the excavation of shovel probes. Two sites (12-Mo-1560 and 12-Mo-1647) were documented by this investigation. Site 12-Mo-1560 consists of foundation remnants of a couple of silos, while site 12-Mo-1647 is the foundation remnant of a house. Based on cartographic sources and aerial photographs, it was determined that both sites were utilized during the 20th century.

The proposed alignment traverses the western section of site 12-Mo-1560. An evaluation of that area indicated that it was not eligible for placement on the NRHP under Criterion D. Therefore, no further work is recommended in that section of the site.

The eastern section of site 12-Mo-1560 and all of site 12-Mo-1647 are located immediately outside of the proposed alignment. Because of this, they were not evaluated regarding their potential for placement on the NRHP. It is recommended that if the alignment is altered in such a way that either the eastern portion of site 12-Mo-1560, or site 12-Mo-1647 would be directly impacted by the proposed trail, then additional work would need to be undertaken in order to evaluate them for inclusion on the NRHP.

Based on the data collected from this study, it can be ascertained that the proposed project will have no effect on any archaeological resources that are eligible for placement on the NRHP. While it is recommended that no further archaeological work should be undertaken for this proposed project, it is also recommended that, if possible, Payne Cemetery should be avoided by all proposed construction activities.

Thu 4/11/2019 8:44 AM

From: Moffatt, Charles D <CMoffatt@indot.IN.gov>

To: Chris Jackson chris@green3studio.com

Cc: Karen Wood <karen@green3studio.com>; Miller, Shaun (INDOT) <smiller@indot.IN.gov>; Hicks, Zachary <ZHicks@indot.IN.gov>

RE: Des 0902215 Proposed Unionville Bicentennial Trail Project

Chris,

Thank you for the quick turn around on the revisions. The above referenced archaeological 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 Jackson (April 10, 2019). Please submit one copy of the archaeology report to SHPO for review and concurrence. In addition, we ask that a copy of the SHPO submittal form be sent to INDOT, CRO care of David Moffatt at cmoffatt@indot.in.gov during the time of submission and that the approved report be posted to INSCOPE.

Please discuss the Payne Cemetery with IXOYE Engineering letting them know that, if the cemetery cannot be avoided than a cemetery development plan will be required. A development plan will likely require archaeological fieldwork to determine if there are graves within the project area. You should also be aware that INDOT, CRO has the capability to complete geophysical investigations, both resistivity and magnetometry. We can provide this service for projects with INDOT oversight with no cost to the client with a request from the INDOT Project Manager.

If there are any questions or concerns regarding this project, please contact me.

David Moffatt
Archaeologist
Environmental Services
Cultural Resources Office
Indiana Department of Transportation
317-233-3703



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-5168

Eric Holcomb, Governor
Joe McGuinness, Commissioner

December 19, 2019

This letter was sent to the listed parties.

RE: Unionville Bicentennial Trail, Des. No. 0902215; Monroe County, Indiana; DHPA No. 21436

Dear Consulting Party,

Monroe County Commissioners, with funding from the Federal Highway Administration (FHWA) and administrative oversight from the Indiana Department of Transportation (INDOT), propose to proceed with Unionville Bicentennial Trail, Monroe County, Indiana (Des. No. 0902215). Green 3, LLC is under contract with Monroe County to advance the environmental documentation for the referenced project.

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on August 1, 2017. In addition, a letter distributed on June 4, 2019 notified consulting parties that an archaeology report was available for review and comment.

The proposed undertaking is on Old SR 37 from Audubon Drive to Robinson Road in Monroe County, Indiana. It is within Bloomington Township, Bloomington and Unionville USGS Topographic Quadrangles, in Sections 2, 3, 10, 11, 15 and 16, Township 9 North, Range 1 West.

The need of the project is due to the unsafe conditions along Old SR 37 for cyclists using the roadway. The existing corridor along Old SR 37 is narrow, winding, and has poor visibility of upcoming cyclists who may be occupying the travel lanes in many sections. The project area receives a significant amount of bicycle traffic from the City of Bloomington and currently has no paved shoulders or bicycle lanes. The road also has steep drop-offs from the shoulder along some sections of the route that create safety issues for cyclists. Currently, there are no cyclist accommodations that connect the City of Bloomington to the nearby Lake Lemon and its numerous recreational activities. The purpose of the project is to address the lack of cyclist accommodations along Old SR 37 and provide cyclist connectivity between the City of Bloomington, Griffy Lake, and Lake Lemon.

The project proposes the addition of paved shoulders along approximately 2.3 miles of Old SR 37 from Audubon Road to Robinson Road. Throughout the proposed alignment, there will be four- (4') to six-foot (6') wide asphalt shoulders with one- (1') or two-foot (2') graded shoulders to both sides of the existing mainline roadway pavement. The existing travel lanes may be narrowed or adjusted to allow for a best fit of the bicycle improvements. The project will also include foreslope grading, ditch grading, backslopes in various locations along the route, modified to match the new improvements. Curb and gutter may be utilized in certain areas to

minimize adjacent impacts. Street and driveway approaches will be adjusted accordingly. Existing guardrail in most areas will be removed and replaced to meet current standards; complete removal of guardrail may occur in other areas. Existing culverts will be extended or modified as necessary to correspond with the new improvements. Existing bridges are to remain in place with no planned modifications. It is anticipated that tree removal will be required along the roadside. The current proposed method for maintenance of traffic during construction is temporary lane closures and flagging. Approximately 7 acres of permanent right-of-way, 5.6 acres of re-acquisition of existing right-of-way, and 5 acres of temporary right-of-way, totaling approximately 17.6 affected acres, is anticipated at this time. The limits of the project changed slightly after the ECL and Historic Property Report were submitted; however, the above-ground APE was large enough to encompass the new project area and no additional above-ground survey work is recommended.

Green 3, LLC has been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, to assess the undertaking's effects and to seek ways to avoid, minimize, or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, the house at 4705 N. Old SR 37, IHSSI # 105-055-20026 is recommended as eligible for listing in the NRHP.

With regards to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified two (2) sites within the project area. Site 12-Mo-1560 is located partially within the project area and site 12-Mo-1647 is located adjacent to but outside the project boundary. As a result of these efforts, the portion of site 12-Mo-1560 within the project area was recommended not eligible for listing in the NRHP and no further work was recommended. The portions of archaeological site 12-Mo-1560 that lie outside the proposed project area, along with the entirety of archaeological site 12-Mo-1647, must either be avoided by all proposed project-related ground-disturbing activities or subjected to further archaeological investigations.

Part 2, Part 6, and Appendix D of the 800.11(e) Documentation has been revised regarding the two archaeological sites, and the recommendations were updated for accuracy at the request of the Indiana State Historic Preservation Officer (SHPO) staff.

The 800.11(e) is available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and respond with comments on any historic resource impacts incurred as a result of this project so that an

environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request within seven (7) days.

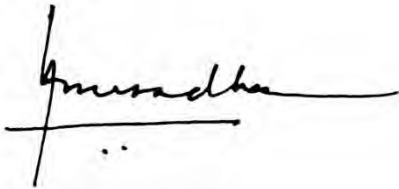
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party or if you have not previously accepted consulting party status and you do not respond to this letter, you will not be included on the list of consulting parties for this project and will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Karen Wood of Green 3, LLC at 317.634.4110 or karen@green3studio.com. All future responses regarding the proposed project should be forwarded to Green 3, LLC at the following address:

Karen Wood
Environmental and Cultural Resources Manager
Green 3, LLC
1104 Prospect St.
Indianapolis, IN 46203
karen@green3studio.com

Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Enclosures:

800.11 Documentation (this document may be found on IN SCOPE)

Distribution List:

SHPO, cslider@dnr.in.gov, wtharp1@dnr.in.gov
Miami Tribe of Oklahoma, dhunter@miamination.com

Karen Wood

From: Miller, Shaun (INDOT) <smiller@indot.IN.gov>
Sent: Wednesday, February 19, 2020 10:14 AM
To: Diane Hunter
Cc: Karen Wood
Subject: FHWA Project: Des. No. 0902215, Unionville Bicentennial Trail, Monroe County, Indiana
Attachments: Old SR 37_BicentennialTrail_des0902215_distribution_2019-12-18.pdf; 2020-01-31-DHPA-Response-Letter-Des.#0902215-DHPA#21436.pdf

Des. No.: 0902215
Project Description: Unionville Bicentennial Trail
Location: Bloomington Township, Washington County, Indiana

Monroe County with funding from the Federal Highway Administration and administrative oversight from the Indiana Department of Transportation, proposes to proceed with the **Unionville Bicentennial Trail, Monroe County, Indiana.**

INDOT on behalf of FHWA has signed a determination of “No Adverse Effect” for this Section 106 undertaking. In accordance with 36 CFR 800.4(d), you and the other consulting parties that responded to the early coordination letter are being provided the documentation for this finding. You can view the determination of “No Adverse Effect” electronically by accessing INDOT’s Section 106 document posting website IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Tribal contacts may contact Shaun Miller at smiller@indot.in.gov or 317-233-6795 or Michelle Allen at FHWA at michelle.allen@dot.gov or 317-226-7344.

Thank you in advance for your input,

Shaun Miller
INDOT, Cultural Resources Office
Archaeology Team Lead
(317)233-6795

APPENDIX E – RED FLAG AND HAZARDOUS MATERIALS



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204-2216 (317) 232-5348 FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness, Commissioner

Date: July 24, 2017

To: Hazardous Materials Unit
Environmental Services
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Kevin McLane
Seymour District (Project Location)
1104 Prospect St.
Indianapolis, IN
kevin@green3studio.com

Re: RED FLAG INVESTIGATION
DES # 0902215, LPA Project
Unionville Bicentennial Pathway Project, Phase 1
Old State Road 37
Monroe County, Indiana

NARRATIVE

The Bicentennial Pathway Project, Phase 1 (Des # 0902215) of the overall Griffy Lake to Lake Lemon bicycle improvements project is to provide bicycle improvements along Old SR 37 from Audubon Drive to Robinson Road, approximately 2.3 miles in length. Old SR 37 is an Urban Minor Arterial south of Whisnand Road and a Rural Major Collector to the north, with two eleven (11) foot lanes. Sidewalk exists in remnants south of Bethel Lane on the west side of the road, but are absent elsewhere. The project site is located in Sections 2, 3, 10, 15, and 16, Township 9 North, Range 1 West within Monroe County, Indiana. The project sponsor is Monroe County and it is to be funded with 80% federal funding through the Indiana Department of Transportation (INDOT). Construction is planned for 2020.

The proposed project generally consists of the addition of four (4) or five (5) foot wide asphalt shoulders with one (1) or two (2) foot graded shoulders to both sides of the existing mainline roadway pavement. The existing travel lanes may be narrowed or adjusted to allow for a best fit of the bicycle improvements. The project will also include foreslope grading, ditch grading, backslopes in various locations along the route, modified to match the new improvements. New curb and gutter may be utilized in certain areas to minimize adjacent impacts. Street and driveway approaches will be adjusted accordingly. Existing guardrail in most areas will be removed and replaced to meet current standards, however, complete removal of guardrail may occur in other areas. Approximately four (4) existing culverts will be extended or modified as necessary to correspond with the new improvements. Existing bridges are to remain in place with no planned modifications. Traffic is planned to be maintained on the existing roadway, although delays and modifications may occur during construction. It is anticipated that over 0.5 acre of right-of-way will need to be acquired for this project. It is currently assumed that tree removal will be necessary for this project, but amounts are not known at this time.

SUMMARY

Infrastructure			
Indicate the number of items of concern found within 0.5 mile and an explanation why each item within the 0.5 mile search radius will/will not impact the project. If there are no items, please indicate N/A:			
Religious Facilities	1	Recreational Facilities	1
Airports	N/A	Pipelines	7
Cemeteries	1	Railroads	N/A
Hospitals	N/A	Trails	2
Schools	1	Managed Lands	3

Explanation:

Religious Facilities: One (1) religious facility is located within the 0.5-mile search radius of the project location, the New Prospect Baptist Church. The New Prospect Baptist Church is located adjacent to Old SR 37 at the northernmost portion of the project alignment. Coordination should occur with the New Prospect Baptist Church.

Cemeteries: One (1) cemetery is located within the 0.5-mile search radius of the project location, the Payne Cemetery of New Prospect Baptist Church. The Payne Cemetery is located adjacent to the project alignment on Old SR 37, approximately 0.19 mile south of the junction with E Whisnand Rd. Since construction will occur within 100 feet of the cemetery, a Cemetery Development Plan will be required for this project.

Schools: One (1) school is located within the 0.5-mile search radius of the project location, Marlin Elementary School. Marlin Elementary School is located approximately 0.17 mile east of the project alignment, along E Bethel Lane. Coordination will occur with Marlin Elementary School.

Recreational Facilities: One (1) recreational facility is located within the 0.5-mile search radius of the project location, the playgrounds at Marlin Elementary School. Marlin Elementary School is located approximately 0.17 mile east of the project alignment, along E Bethel Lane. Coordination will occur with Marlin Elementary School.

Pipelines: Seven (7) pipelines are located within the 0.5-mile search radius of the project location, all owned by the Indiana Gas Co. Inc. Three of these natural gas pipelines either run adjacent to or under the project alignment. Coordination will occur with the Indiana Gas Company.

Trails: Two (2) trails are located within the 0.5-mile search radius of the project location. The closest trail is the Griffy Lake Trails, located approximately 0.37 mile southeast of the southernmost end of the project alignment. Due to the distance from the project, no impacts will occur to any trails.

Managed Lands: Three (3) managed lands are located within the 0.5-mile search radius of the project location. The closest managed land is Ghurye Preserve, located approximately 0.22 mile west of the southernmost end of the project alignment. Due to the distance from the project, no impacts will occur to any managed lands.

Water Resources			
Indicate the number of items of concern found within 0.5 mile and an explanation why each item within the 0.5 mile search radius will/will not impact the project. If there are no items, please indicate N/A:			
NWI - Points	N/A	NWI - Wetlands	33
Karst Springs	1	IDEM 303d Listed Lakes	N/A
Canal Structures – Historic	N/A	Lakes	14
NWI - Lines	18	Floodplain - DFIRM	6
IDEM 303d Listed Rivers and Streams (Impaired)	1	Cave Entrance Density	N/A
Rivers and Streams	21	Sinkhole Areas	2
Canal Routes - Historic	N/A	Sinking-Stream Basins	N/A
Urbanized Area Boundary (UAB)	1		

Explanation:

Karst Springs: One (1) karst spring is located within the 0.5-mile search radius of the project location. This karst spring is located approximately 0.36 mile southwest of the southernmost end of the project alignment. Due to the distance from the project area, no impacts are anticipated.

NWI Lines: Eighteen (18) NWI-lines are located within the 0.5-mile search radius of the project location. Two lines cross under the project alignment along Old SR 37, Muddy Fork and an unnamed tributary (UNT) of Muddy Fork. A Waters of the U.S. Report will be completed and coordination with the appropriate agency will occur, if applicable.

Rivers and Streams: Twenty-one (21) river and stream segments are located within the 0.5-mile search radius of the project location. Three segments cross under the project alignment: Muddy Fork, the UNT of Muddy Fork, and an UNT of Griffy Creek. A Waters of the U.S. Report will be completed and coordination with the appropriate agency will occur, if applicable.

Urbanized Area Boundary (UAB): The section of the project south of Whisenand Road lies within the Bloomington – Monroe County UAB. Post-construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area will be sent to the Bloomington MS4 Coordinator, PO Box 1216, Bloomington, IN 47402.

NWI – Wetlands: Thirty-three (33) wetlands are located within the 0.5-mile search radius of the project location. The closest wetland is approximately 0.03 mile east of the project area. Due to the scope of this project and the distance of the nearest wetland, no impacts are anticipated to any mapped wetlands.

IDEM 303d Listed Rivers & Streams (Impaired): One (1) IDEM 303d Listed Impaired Stream is located within the 0.5-mile search radius of the project location, Beanblossom Creek. Beanblossom Creek is located approximately 0.08 mile north of the northernmost end of the project alignment. Due to the scope of this project and the distance from Beanblossom Creek, no impacts are anticipated to any impaired streams.

Lakes: Fourteen (14) lakes are located within the 0.5-mile search radius of the project location. The closest lake is approximately 0.03 mile east of the project area (also mapped as the closest wetland). Due to the scope of this project and the distance of the nearest lake, no impacts are anticipated to any mapped lakes.

Floodplains: Six (6) floodplains are located within the 0.5-mile search radius of the project location. The closest floodplain is within the project area, and is the floodplain of Muddy Fork. Coordination with the appropriate agency will occur, if applicable.

Sinkhole Areas: Two (2) sinkhole areas are located within the 0.5-mile search radius of the project location. One (1) sinkhole area is located 0.25 mile north of the southernmost end of the project alignment. Coordination with the appropriate agency will occur.

Mining/Mineral Exploration			
Indicate the number of items of concern found within 0.5 mile and an explanation why each item within the 0.5 mile search radius will/will not impact the project. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Petroleum Fields	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: There are no Mining/Mineral resources within the 0.5-mile radius of the project area.

Hazardous Material Concerns			
Indicate the number of items of concern found within 0.5 mile and an explanation why each item within the 0.5 mile search radius will/will not impact the project. If there are no items, please indicate N/A:			
Brownfield Sites	N/A	Restricted Waste Sites	N/A
Corrective Action Sites (RCRA)	N/A	Septage Waste Sites	N/A
Confined Feeding Operations	N/A	Solid Waste Landfills	N/A
Construction Demolition Waste	N/A	State Cleanup Sites	N/A
RCRA Generators	N/A	Tire Waste Sites	N/A
Infectious/Medical Waste Sites	N/A	Waste Transfer Stations	N/A
Lagoon/Surface Impoundments	N/A	RCRA Waste Treatment, Storage, and Disposal Sites (TSDs)	N/A
Leaking Underground Storage Tanks (LUSTs)	2	Underground Storage Tanks (USTs)	1
Manufactured Gas Plant Sites	N/A	Voluntary Remediation Program	N/A
NPDES Facilities	N/A	Superfund	N/A
NPDES Pipe Locations	N/A	Institutional Control Sites	N/A
Open Dump Sites	N/A		

Explanation:

LUSTs: Two (2) LUSTs are located within the 0.5-mile search radius of the project location. These two LUSTs are mapped adjacent to Old SR 37. According to the physical addresses, one site is located at the Bloomington Township Fire Department at 5081 N Old SR 37 and the other is at 6175 N Old SR 37. According to the IDEM VFC, the 6175 N Old SR 37 site received a No Further Action determination from IDEM on December 20, 1999 after the closure on January 28, 1999. According to the IDEM VFC, the 5081 N Old SR 37 site received a No Further Action determination from IDEM on July 2, 1999 after the closure in 1994. Due to the scope of the project, no impacts are anticipated.

USTs: One (1) UST is located within the 0.5-mile search radius of the project location. This UST is located adjacent to the northernmost end of the project alignment at 6128 N Old SR 37. According to the IDEM VFC, this site received closure on November 30, 1995. Due to the distance from and USTs and the scope of the project, no impacts will occur.

Ecological Information

The Crawford 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. Coordination with USFWS and IDNR will occur.

A review of the USFWS database indicated the presence of endangered bat species in or within 0.5 mile of the project area. Additional investigation to confirm the presence or absence of bats under bridges or in small structures within the project area will be necessary. Additional coordination with INDOT ES will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects" dated October 25, 2017.

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.

Cultural Resources

Due to the scope, this project will likely require full Section 106 coordination. Coordination with INDOT Cultural Resources will occur.

RECOMMENDATIONS

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

INFRASTRUCTURE:

- Coordination should occur with the New Prospect Baptist Church.
- Since construction will occur within 100 feet of the Payne Cemetery, a Cemetery Development Plan will be required for this project.
- Coordination with Marlin Elementary School will occur.
- Three natural gas pipelines either run adjacent to or under the project alignment. Coordination with Indiana Gas Company will occur.

WATER RESOURCES: Due to the following resources, a Waters of the U.S. Report will be completed and coordination with the appropriate agency will occur, if applicable:

- Two (2) NWI-lines, Muddy Fork and an Unnamed Tributary (UNT) of Muddy Fork, cross under the project alignment.
- Three (3) stream segments, Muddy Fork, an UNT of Muddy Fork, and an UNT of Griffy Creek, cross under the project alignment.
- The section of the project south of Whisenand Road lies within the Bloomington – Monroe County UAB. Post-construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area will be sent to the Bloomington MS4 Coordinator, P.O. Box 1216, Bloomington, IN 47402.
- The project lies within the floodplain of Muddy Fork. Coordination with the appropriate agency will occur.

- One (1) sinkhole area is located 0.25 mile north of the southernmost end of the project alignment. Coordination with the appropriate agency will occur.

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. A review of the USFWS database indicated the presence of endangered bat species in or within 0.5 mile of the project area. Additional investigation to confirm the presence or absence of bats under bridges or in small structures within the project area will be necessary. Additional coordination with INDOT ES will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects" dated October 25, 2017.

CULTURAL RESOURCES: Due to the scope, this project will likely require full Section 106 coordination. Coordination with INDOT Cultural Resources will occur.

INDOT Environmental Services concurrence:

Marlene Mathas

Digitally signed by Marlene Mathas
DN: cn=Marlene Mathas, o=INDOT
Environmental Services, ou=Hazardous
Materials, email=mmathas@indot.in.gov, c=US
Date: 2018.01.19 07:14:33 -05'00'

(Signature)

Prepared by:
Kevin McLane
Ecologist
Green 3, LLC

Graphics:

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

GENERAL SITE MAP SHOWING PROJECT AREA: YES

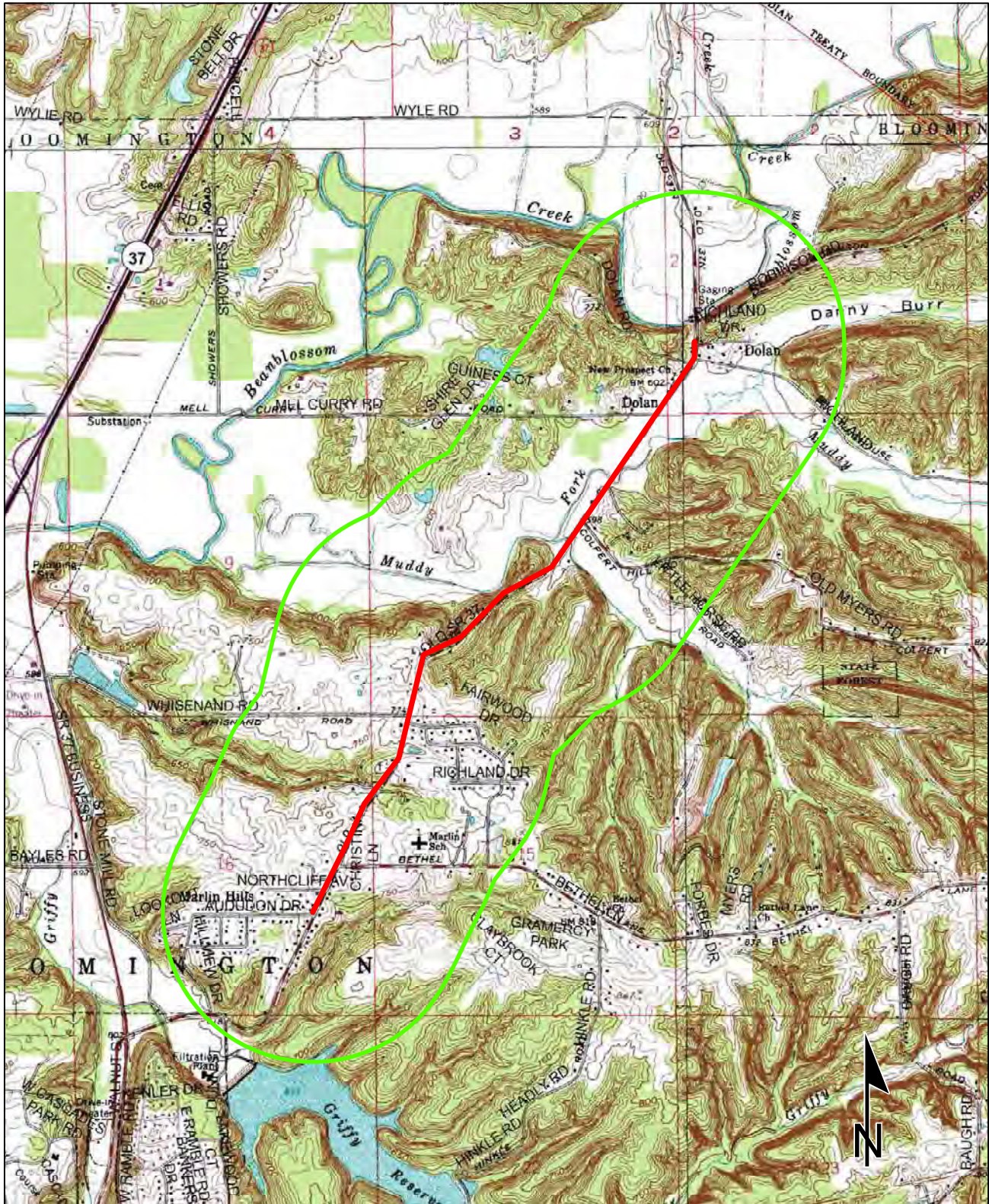
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: YES

USGS Topographic Map
 Unionville Bicentennial Pathway Project, Phase 1
 Des. 0902215, Old SR 37
 Marion County, Indiana



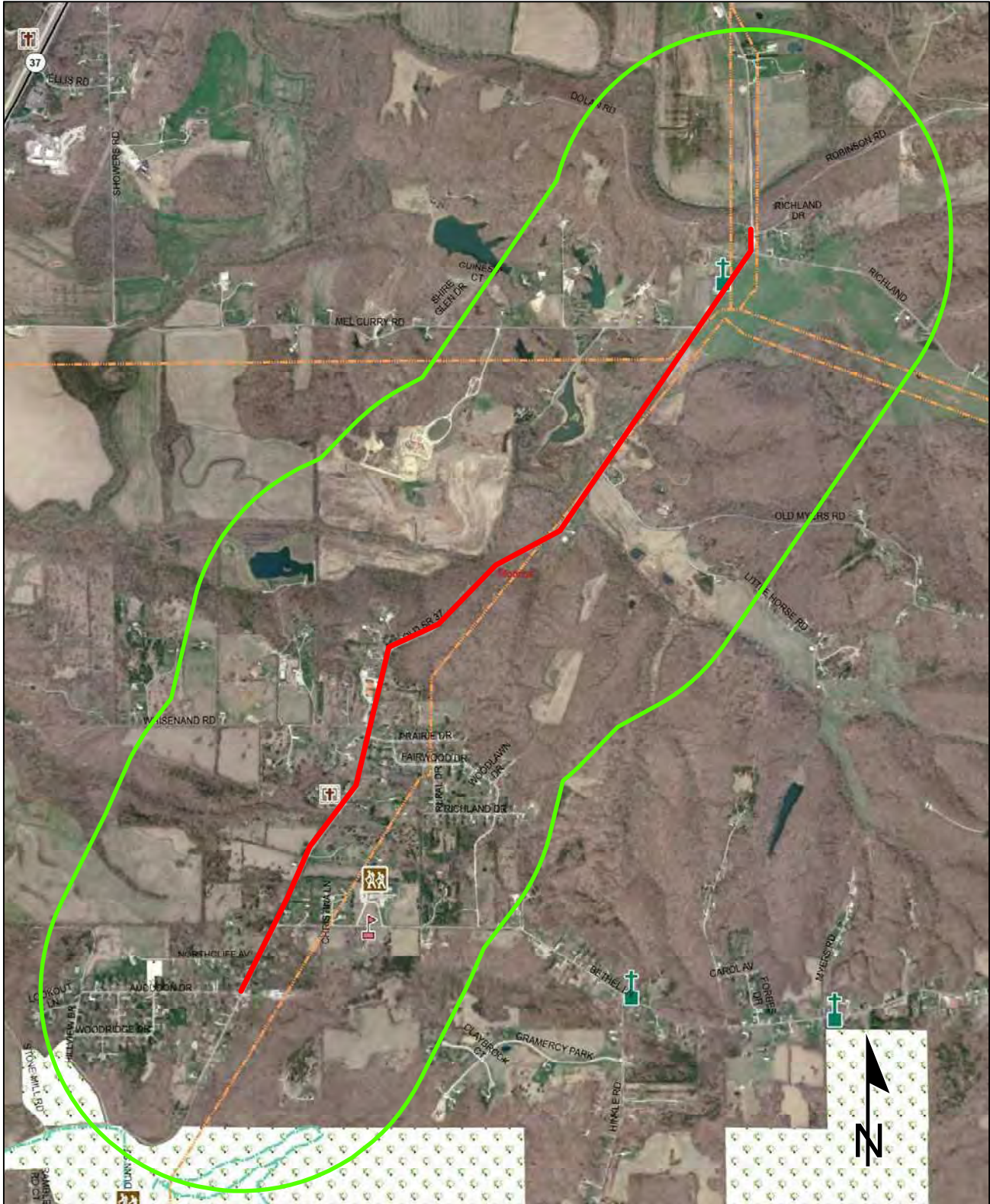
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 Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

BLOOMINGTON and
 UNIONVILLE QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure

Unionville Bicentennial Pathway Project, Phase 1

Des. 0902215, Old SR 37 Marion County, Indiana

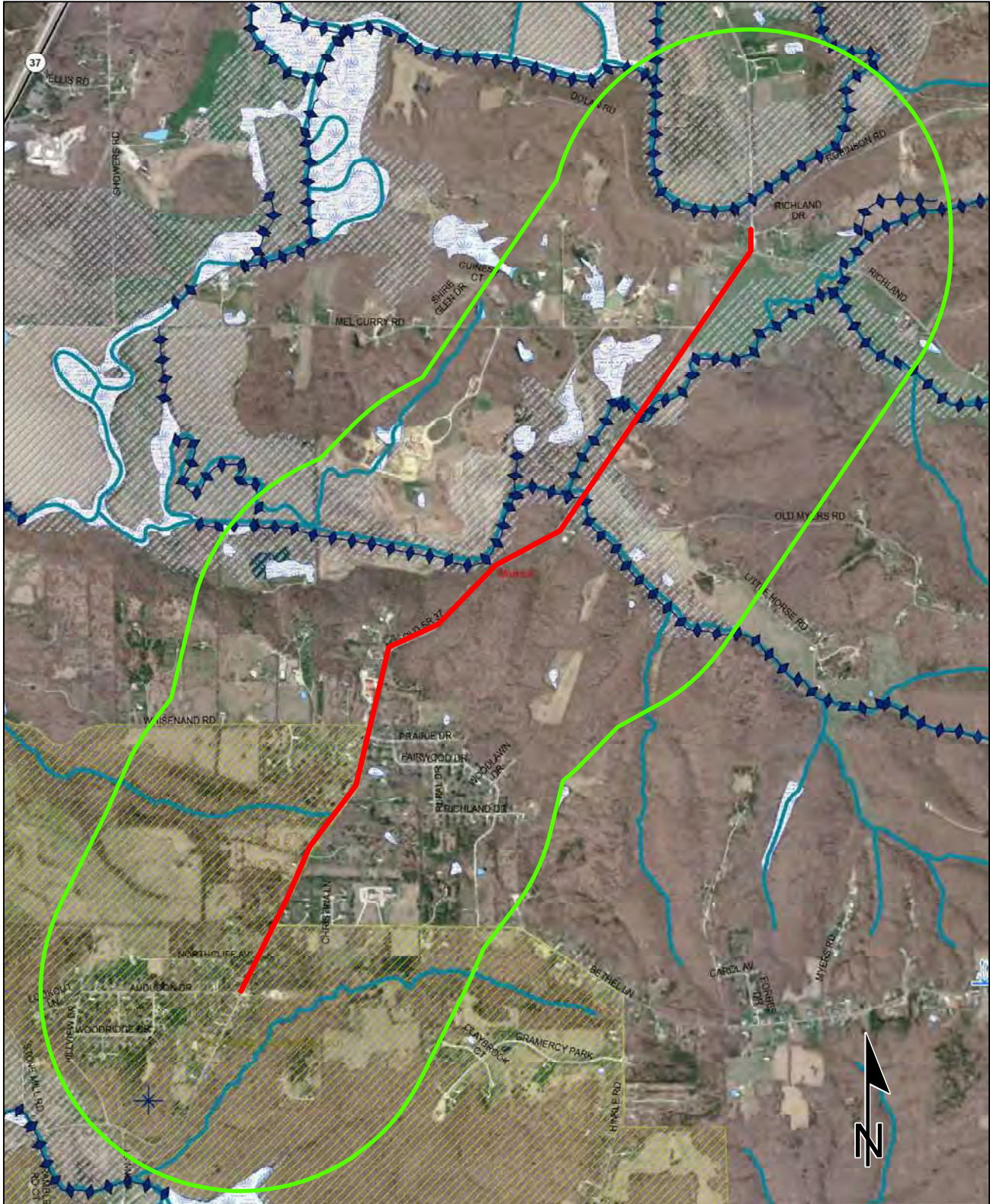


Sources:
 Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

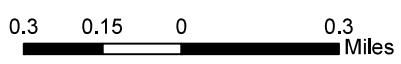
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

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

Red Flag Investigation - Water Resources
 Unionville Bicentennial Pathway Project, Phase 1
 Des. 0902215, Old SR 37
 Marion 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.

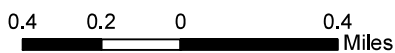
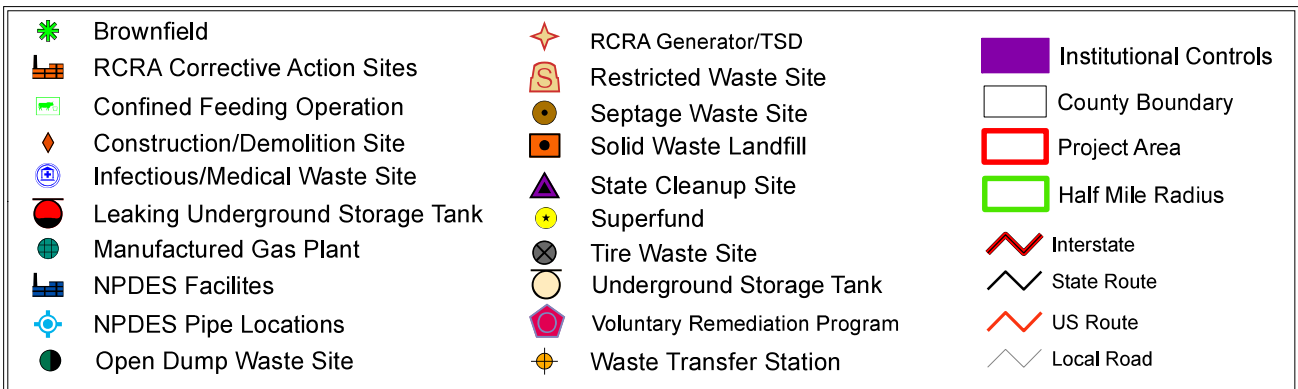
NWI - Point	Wetlands	Project Area
Karst Spring	Lake - Impaired	Half Mile Radius
Canal Structure - Historic	Lake	Interstate
NWI - Line	Floodplain - DFIRM	State Route
Stream - Impaired	Cave Entrance Density	US Route
NPS NRI listed	Sinkhole Area	Local Road
River	Sinking-Stream Basin	
Canal Route - Historic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

Red Flag Investigation - HazMat Concerns

Unionville Bicentennial Pathway Project, Phase 1

Des. 0902215, Old SR 37

Marion County, Indiana



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

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

Indiana County Endangered, Threatened and Rare Species List

County: Monroe

Species Name	Common Name	FED	STATE	GRANK	SRANK
Diplopoda					
Conotyia bollmani	Bollman's Cave Milliped		WL	G5	S4
Crustacean: Malacostraca, Amphipods					
Crangonyx packardi	Packard's Cave Amphipod		WL	G4	S3
Crustacean: Malacostraca, Crayfish					
Orconectes inermis testii	Troglobitic Crayfish		SR	G5T3	S3
Crustacean: Malacostraca, Isopods					
Caecidotea jordani	Jordan's groundwater isopod		SE	G2G3	S1
Crustacean: Ostracoda					
Pseudocandona jeanneli	Jeannel's Cave Ostracod		SE	G2	S1
Sagittocythere barri	Barr's Commensal Cave Ostracod		WL	G5	S3S4
Mollusk: Bivalvia (Mussels)					
Cyprogenia stegaria	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
Epioblasma torulosa torulosa	Tubercled Blossom	LE	SE	G2TX	SX
Fusconaia subrotunda	Longsolid		SE	G3	SX
Obovaria subrotunda	Round Hickorynut		SE	G4	S1
Pleurobema clava	Clubshell	LE	SE	G1G2	S1
Quadrula cylindrica cylindrica	Rabbitsfoot	LT	SE	G3G4T3	S1
Villosa lienosa	Little Spectaclecase		SSC	G5	S3
Mollusk: Gastropoda					
Fontigens cryptica	Hidden Springs Snail		SE	G1	S1
Punctum minutissimum	Small Spot			G5	S2
Ellipluran: Collembola					
Hypogastrura gibbosus	Humped Springtail		WL	GNR	SNR
Isotoma anglicana	A Springtail		WL	GNR	SNR
Pseudosinella argentea	A Springtail		SE	GNR	S1
Pseudosinella collina	Hilly Springtail		SR	GNR	S2?
Pseudosinella fonsa	Fountain Cave Springtail		ST	G3G4	S2
Sinella alata	Springtail		WL	G5	S4
Insect: Coleoptera (Beetles)					
Aleochara lucifuga	Rove beetle		WL	GNR	S4
Atheta annexa	Rove beetle		WL	G4	S4
Nicrophorus americanus	American Burying Beetle	LE	SX	G2G3	SX
Pseudanophthalmus shilohensis mayfieldensis	Monroe cave ground beetle		SE	G1G2T1T2	S1S2
Pseudanophthalmus stricticollis	Marengo Cave Ground Beetle			G4	S3
Insect: Lepidoptera (Butterfly)					
Celastrina nigra	Sooty Azure		ST	G4	S2
Insect: Odonata (Dragonflies)					
Aeshna mutata	Spatterdock Darner		ST	G4	S1S2

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

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Indiana County Endangered, Threatened and Rare Species List

County: Monroe

Species Name	Common Name	FED	STATE	GRANK	SRANK
Insect: Tricoptera (Caddisflies)					
Agapetus gelbae	An Agapetus Caddisfly		ST	G3	S2
Diplectrona metaqui	A Diplectronan Caddisfly		ST	G4G5	S2
Goera stylata	A Northern Casemaker Caddisfly		SE	G5	S1
Homoplectra doringa	A Homoplectran Caddisfly		SE	G5	S1
Arachnida					
Dolomedes scriptus	Lined Nursery Web Spider			GNR	S1?
Nesticus carteri	Carter's Cave Spider			GNR	S1
Fish					
Amblyopsis spelaea	Northern Cavefish		SE	G3G4	S1
Amphibian					
Acris blanchardi	Northern Cricket Frog		SSC	G5	S4
Hemidactylum scutatum	Four-toed Salamander		SSC	G5	S2
Lithobates areolatus circulosus	Northern Crawfish Frog		SE	G4T4	S2
Reptile					
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Crotalus horridus	Timber Rattlesnake		SE	G4	S2
Opheodrys aestivus	Rough Green Snake		SSC	G5	S3
Terrapene carolina carolina	Eastern Box Turtle		SSC	G5T5	S3
Thamnophis proximus proximus	Western Ribbon Snake		SSC	G5T5	S3
Bird					
Accipiter striatus	Sharp-shinned Hawk	No Status	SSC	G5	S2B
Aimophila aestivalis	Bachman's Sparrow			G3	SXB
Ardea alba	Great Egret		SSC	G5	S1B
Bartramia longicauda	Upland Sandpiper		SE	G5	S3B
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
Buteo platypterus	Broad-winged Hawk		SSC	G5	S3B
Coragyps atratus	Black Vulture			G5	S1N,S2B
Dendroica cerulea	Cerulean Warbler		SE	G4	S3B
Dendroica virens	Black-throated Green Warbler			G5	S2B
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Helmitheros vermivorus	Worm-eating Warbler		SSC	G5	S3B
Ixobrychus exilis	Least Bittern		SE	G5	S3B
Mniotilta varia	Black-and-white Warbler		SSC	G5	S1S2B
Wilsonia citrina	Hooded Warbler		SSC	G5	S3B
Mammal					
Lasiurus borealis	Eastern Red Bat		SSC	G5	S4
Lasiurus cinereus	Hoary Bat		SSC	G5	S4
Mustela nivalis	Least Weasel		SSC	G5	S2?

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Indiana County Endangered, Threatened and Rare Species List

County: Monroe

Species Name	Common Name	FED	STATE	GRANK	SRANK
Myotis lucifugus	Little Brown Bat		SSC	G3	S2
Myotis septentrionalis	Northern Myotis		SSC	G1G3	S2S3
Myotis sodalis	Indiana Bat or Social Myotis	LE	SE	G2	S1
Neotoma magister	Eastern Woodrat		SE	G3G4	S2
Perimyotis subflavus	Eastern Pipistrelle		SSC	G3	S2S3
Taxidea taxus	American Badger		SSC	G5	S2
Vascular Plant					
Acalypha deamii	Mercury		SR	G4?	S2
Armoracia aquatica	Lake Cress		SE	G4?	S1
Castanea dentata	American Chestnut		WL	G4	S3
Catalpa speciosa	Northern Catalpa		SR	G4?	S2
Cypripedium calceolus var. pubescens	Large Yellow Lady's-slipper		WL	G5T5	S3
Epigaea repens	Trailing Arbutus		WL	G5	S3
Hydrastis canadensis	Golden Seal		WL	G4	S3
Juglans cinerea	Butternut		WL	G4	S3
Linum striatum	Ridged Yellow Flax		WL	G5	S3
Lithospermum incisum	Narrow-leaved Puccoon		SE	G5	S1
Malaxis unifolia	Green Adder's-mouth		SE	G5	S1
Oryzopsis racemosa	Black-fruit Mountain-ricegrass		SR	G5	S2
Oxalis illinoensis	Illinois Woodsorrel		WL	G4Q	S2
Panax quinquefolius	American Ginseng		WL	G3G4	S3
Potamogeton pusillus	Slender Pondweed		WL	G5	S2
Rubus centralis	Illinois Blackberry		SE	G2?Q	S1
Zannichellia palustris	Horned Pondweed		SR	G5	S2
Zizia aptera	Golden Alexanders		SR	G5	S2
High Quality Natural Community					
Forest - floodplain mesic	Mesic Floodplain Forest		SG	G3?	S1
Forest - upland dry	Dry Upland Forest		SG	G4	S4
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Primary - cave aquatic	Aquatic Cave		SG	GNR	SNR
Primary - cliff limestone	Limestone Cliff		SG	GU	S1
Other Significant Element					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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Kevin McLane

From: Mathas, Marlene <MMathas@indot.IN.gov>
Sent: Tuesday, November 26, 2019 2:09 PM
To: Kevin McLane
Subject: RE: Status of Des. 0902215 Bicentennial Pathway RFI review

Hi, Kevin –

You can either do a simple addendum or make a note in the CE document. Either one should work.

Thanks!
Marlene

Marlene Mathas, CHMM
Site Assessment & Management (SAM) Team Lead
Environmental Policy Office
INDOT Environmental Services Division
(317) 232-5113

The Site Assessment and Management (SAM) Manual can be found at <http://www.in.gov/indot/2523.htm>
Be sure to refer to the updated information in the SAM Manual for document preparation and submission.

From: Kevin McLane [mailto:kevin@green3studio.com]
Sent: Tuesday, November 26, 2019 2:01 PM
To: Mathas, Marlene <MMathas@indot.IN.gov>
Subject: RE: Status of Des. 0902215 Bicentennial Pathway RFI review

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

Marlene,

The Bicentennial Pathway RFI submitted below (signed version attached) was approved on January 19, 2018 and the project has been stuck in Section 106 for quite a while. We are just now getting ready to submit the CE document at the beginning of the new year and I wanted to check with you and see if you would like an RFI addendum. I have reviewed the project area in GIS today and the only new feature within the 0.5 mile radius is a NPDES facility located approximately 0.47 mile southwest of the project terminus. I think its safe to say that substantive changes have not occurred that will have an impact on the project.

Let me know what you think.

Thanks,

Kevin McLane
Ecologist

APPENDIX F– WATER RESOURCES

WETLAND DELINEATION AND WATERS OF THE U.S. DETERMINATION REPORT

Bicentennial Pathway Project, Phase 1

Monroe County, Indiana – Old State Road 37

Prepared By: Kevin McLane, Ecologist, Green3, LLC
kevin@green3studio.com

Date of Report Completion: December 13, 2017

Date of Waters Field Investigation: October 18, 2017

Location:

Section 2, 3, 10, 15, and 16, Township 9 N, Range 1 W

Unionville and Bloomington Quadrangles

Monroe County, Indiana

Beanblossom Creek Watershed, Buck Creek -Beanblossom Creek Subwatershed, 8-Digit
Code: 05120202

Project Description

This Bicentennial Pathway Project, Phase 1 of the overall Griffy Lake to Lake Lemon bicycle improvements projects is located along Old State Road 37 in Bloomington Township, Monroe County, Indiana. The proposed pathway will involve the addition of paved shoulders with possible culvert extensions along approximately 2.3 miles of Old SR 37 from Audubon Road to Robinson Road.

National Wetland Inventory (NWI) Information:

One wetland was identified within 200 feet of the proposed pathway on the National Wetland Inventory (NWI) Wetland Map (Figure 2). This wetland was mapped as a freshwater pond (Cowardin: PUBGh) located approximately 100 feet east of Old SR 37. The next closest mapped wetland was approximately 290 feet east of Old SR 37, near the Northern Branch of Muddy Fork stream. During the site visit conducted on October 18, 2017, five sampling points were taken as representative samples of the project area's vegetative community, soils and hydrology. Refer to Data Points & Wetland Analysis sections for results.

National Hydrography Dataset:

Three surface waters were identified in the project area as blue-line streams on the USGS Topographic map, National Hydrography Dataset, and NWI map. Muddy Fork is a stream with a northern and southern branch that both flow west under Old SR 37 and meet west of Old SR 37. These branches are both labeled as a riverine, lower perennial, unconsolidated bottom, permanently flooded streams (Cowardin Classification: R2UBH). The upstream drainage area of the Northern Branch of Muddy Fork at the project site is 6.051 square miles (USGS StreamStats, Version 4.0:

<http://streamstatsags.cr.usgs.gov/streamstats/>). The upstream drainage area of the

Southern Branch of Muddy Fork at the project site is 2.215 square miles. The third surface water is an unnamed tributary (UNT) to Griffy Creek, which has an upstream drainage area of 0.08 square mile. This stream is labeled as the Southern UNT to Griffy Creek in this report and identified as a riverine, intermittent, and seasonally flooded (Cowardin Classification: R4SBC).

Soils:

According to the Soil Survey Geographic (SSURGO) Database for Monroe County, Indiana, the project area contains the following soil units (Figure 3):

Table 1. Soil Types along Bicentennial Pathway Project

Soil abbreviation	Soil name	Hydric Soil Rating
BdB	<i>Bedford silt loam, 2-6% slopes</i>	Not Hydric
BkF	<i>Brownstown-Gilwood silt loams, 25-75% slopes</i>	Not Hydric
Bu	<i>Burnside silt loam, occasionally flooded</i>	Not Hydric
CaD	<i>Caneyville silt loam, 12 to 18 percent slopes</i>	Not Hydric
Cb	<i>Caneyville-Hagerstown silt loam, karst</i>	Not Hydric
CrB	<i>Crider silt loam, 2-6% slopes</i>	Not Hydric
CrC	<i>Crider silt loam, 6-12% slopes</i>	Not Hydric
EkF	<i>Elkinsville silt loam, upland, 20-40% slopes</i>	Not Hydric
St	<i>Stendal silt loam, 0-2% slopes, frequently flooded, brief duration</i>	Contains Hydric Inclusions

Investigation Methodology:

Kevin McLane and Emily Stulik of Green3, LLC conducted a Waters of the U.S. Determination/Wetland Delineation for the proposed pathway on October 18, 2017. The delineation of wetlands and other “Waters of the U.S.” on the site were based on the methodology described in the *Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987)* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Environmental Laboratory, April 2012)* as required by current United States Army Corps of Engineers (USACE) policy. Soil characteristics were compared to indicators listed in the *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 7.0.*, to determine if hydric soils were present. Observed vegetation was documented using Wetland Determination Data Forms for the Eastern Mountains and Piedmont Region that are included with this report. Thirty-nine (39) photographs of the site and their locations and orientations are included in the photographs and figures section of this report (Figure 6). The ordinary high water mark

(OHWM) is drawn with red lines on the photographs where it was considered difficult to identify.

Site Investigation

Site Description

The area investigated is located in Monroe County, Indiana, along the corridor of Old State Road 37, between Audubon Road and Robinson Road. All stream crossings, mapped and unmapped, were investigated. Land use surrounding Old SR 37 was roadside right-of-way, residential, agricultural, cemetery and forested. Four Waters of the U.S. streams and no wetlands were identified during the field visit on October 18, 2017.

Soil Sample (Data) Points

A total of five data points were investigated to determine if wetlands were present (Figure 5). A summary of the data points follows:

Sample Point 1 (SP 1) was taken along the west side of Old SR 37, near the northern Muddy Fork stream. The vegetation in the community was dominated by American sycamore trees (*Platanus occidentalis*), Amur honeysuckle (*Lonicera maackii*), wingstem (*Verbesina alternifolia*), and Virginia wild rye (*Elymus virginicus*). This sample satisfied the dominance test for hydrophytic vegetation. The soil sample taken did not correspond to any indicators for hydric soils. One secondary indicator for wetland hydrology, geomorphic position, was observed, but it did not qualify as wetland hydrology. Since all three wetland criteria were not met, this sample point was not located within a wetland.

Sample Point 2 (SP 2) was taken along the east side of Old SR 37, near the northern Muddy Fork stream. The vegetation in the community was dominated by eastern cottonwood trees (*Populus deltoides*), Amur honeysuckle (*Lonicera maackii*), poison ivy (*Toxicodendron radicans*), and giant goldenrod (*Solidago gigantea*). This sample satisfied the dominance test for hydrophytic vegetation. The soil sample taken did not correspond to any indicators for hydric soils. One secondary indicator for wetland hydrology, geomorphic position, was observed, but it did not qualify as wetland hydrology. Since all three wetland criteria were not met, this sample point was not located within a wetland.

Sample Point 3 (SP 3) was taken along the west side of Old SR 37, near the southern Muddy Fork stream. The vegetation in the community was dominated by black walnut trees (*Juglans nigra*), boxelder (*Acer negundo*), Amur honeysuckle (*Lonicera maackii*), giant goldenrod (*Solidago gigantea*), and Virginia wild rye (*Elymus virginicus*). This sample satisfied the dominance test for hydrophytic vegetation. The soil sample taken did not correspond to any indicators for hydric soils. One secondary indicator for wetland hydrology, geomorphic position, was observed, but it did not qualify as wetland hydrology. Since all three wetland criteria were not met, this sample point was not located within a wetland.

Sample Point 4 (SP 4) was taken along the west side of Old SR 37, near the UNT Muddy Fork. The vegetation in the community was dominated by sugar maple trees (*Acer saccharum*), Amur honeysuckle (*Lonicera maackii*), and Canadian wild ginger (*Asarum canadense*). This sample did not satisfy any indicators for hydrophytic vegetation. The soil sample taken did not correspond to any indicators for hydric soils. One secondary indicator for wetland hydrology, geomorphic position, was observed, but it did not qualify as wetland hydrology. It appears as though this location has been disturbed by roadway construction, culvert installation, and placement of roadside fill. Since all three wetland criteria were not met, this sample point was not located within a wetland.

Sample Point 5 (SP 5) was taken along the west side of Old SR 37, near the southern UNT to Griffy Creek. The vegetation in the community was dominated by American sycamore trees (*Platanus occidentalis*), sugar maple trees (*Acer saccharum*), paw paw trees and saplings (*Asimina triloba*), and winter creeper (*Euonymus fortunei*). This sample did not satisfy any of the indicators for hydrophytic vegetation. The soil sample taken did not correspond to any indicators for hydric soils. One secondary indicator for wetland hydrology, geomorphic position, was observed, but it did not qualify as wetland hydrology. Since all three wetland criteria were not met, this sample point was not located within a wetland.

Stream Analysis

Northern Branch of Muddy Fork (~0.01 linear miles, ~0.06 acre in project area)

The Northern Branch of Muddy Fork is a riverine stream feature that flows west under Old SR 37. This segment of Muddy Fork was identified as a blue-line stream on the USGS Topographic map, National Hydrography Dataset, and NWI map. The Northern Branch of Muddy Fork exhibited a defined bed and bank, an approximately 20 ft. wide and 1 ft. deep OHWM, and a bankfull width of 25 ft. The Northern Branch of Muddy Fork is characterized by rocky substrate, perennial flow, and no riffle or run complexes. The Northern Branch of Muddy Fork is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

Southern Branch of Muddy Fork (~0.01 linear miles, ~0.06 acre in project area)

The Southern Branch of Muddy Fork is a riverine stream feature that flows west under Old SR 37. This segment of Muddy Fork was identified as a blue-line stream on the USGS Topographic map, National Hydrography Dataset, and NWI map. The Southern Branch of Muddy Fork exhibited a defined bed and bank, an approximately 17 ft. wide and 3 ft. deep OHWM, and a bankfull width of 28 ft. The Southern Branch of Muddy Fork is characterized by rocky silt substrate, perennial flow, and some riffle or run complexes. The Southern Branch of Muddy Fork is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

UNT 1 to Muddy Fork (~0.27 linear miles, ~0.13 acre along project alignment)

The UNT 1 to Muddy Fork is located adjacent to Old SR 37, along the northwest side of the road, and flows southwest toward Muddy Fork. This feature was not mapped as a blue-line stream on the USFS Topographic map, National Hydrography Dataset, or NWI Map. UNT 1 to Muddy Fork exhibited a defined bed and bank, an approximately 4 ft wide OHWM and 3 inches deep, a bankfull width of 4 ft, and appears to be an excavated roadside drainage feature. The feature was characterized by silt substrate, ephemeral flow, and no riffle or run complexes. This UNT 1 to Muddy Fork is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

UNT 2 to Muddy Fork (~0.01 linear miles, ~0.05 acre in project area)

The UNT 2 to Muddy Fork is located approximately 415 ft south of the southern fork of Muddy Fork, and flows west under Old SR 37. This feature was not mapped as a blue-line stream on the USGS Topographic map, National Hydrography Dataset, or NWI map. UNT 2 to Muddy Fork exhibited a defined bed and bank, an approximately 15 ft wide and 1 ft deep OHWM, and a bankfull width of 20 ft. The UNT 2 to Muddy Fork is characterized by pebble and silt substrate, intermittent flow, and no riffle or run complexes. This UNT 2 to Muddy Fork is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

Northern UNT to Griffy Creek (~0.01 linear miles, ~0.04 acre in project area)

The Northern UNT to Griffy Creek is a riverine stream feature that flows west under Old SR 37. This feature was not observed as a blue-line stream on the USGS Topographic map, National Hydrography Dataset, and NWI map. It did appear on the USFWS Streamstats map with an upstream drainage area of 0.066 square miles. The Northern UNT to Griffy Creek exhibited a defined bed and bank, an approximately 12 ft. wide and 0.5 ft. deep OHWM, and a bankfull width of 12 ft. The Northern UNT to Griffy Creek is characterized by rocky silt substrate, ephemeral flow, and no riffle or run complexes. The Northern UNT to Griffy Creek is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

Southern UNT to Griffy Creek (~0.01 linear miles, ~0.04 acre in project area)

The Southern UNT to Griffy Creek is a riverine stream feature that flows west under Old SR 37. This feature was identified as a blue-line stream on the USGS Topographic map, National Hydrography Dataset, and NWI map. The UNT to Griffy Creek exhibited a defined bed and bank, an approximately 18 ft. wide and 1 ft. deep OHWM, and a bankfull width of 25 ft. The Southern UNT to Griffy Creek is characterized by rocky silt substrate, perennial flow, and no riffle or run complexes. The Southern UNT to Griffy Creek is likely a Waters of the U.S. (Table 3) due to the presence of an OHWM.

Other Drainage Features

Some grassy drainage swales and ditches exist along Old SR 37 and drain uplands; however, none of these features exhibit an OHWM, a defined bed and bank, or relatively permanent water flow.

Conclusions

Five Waters of the U.S. were observed in the investigated study area, Northern Branch of Muddy Fork, Southern Branch of Muddy Fork, UNT to Muddy Fork, Northern UNT to Griffy Creek, and Southern UNT to Griffy Creek. All of these stream features exhibited an OHWM and a defined bed and bank and are likely Waters of the U.S.

All work within these water resources will require the appropriate permits and coordination with regulatory agencies. The final determination of jurisdictional waters is ultimately made by appropriate regulatory staff at the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Table 2.

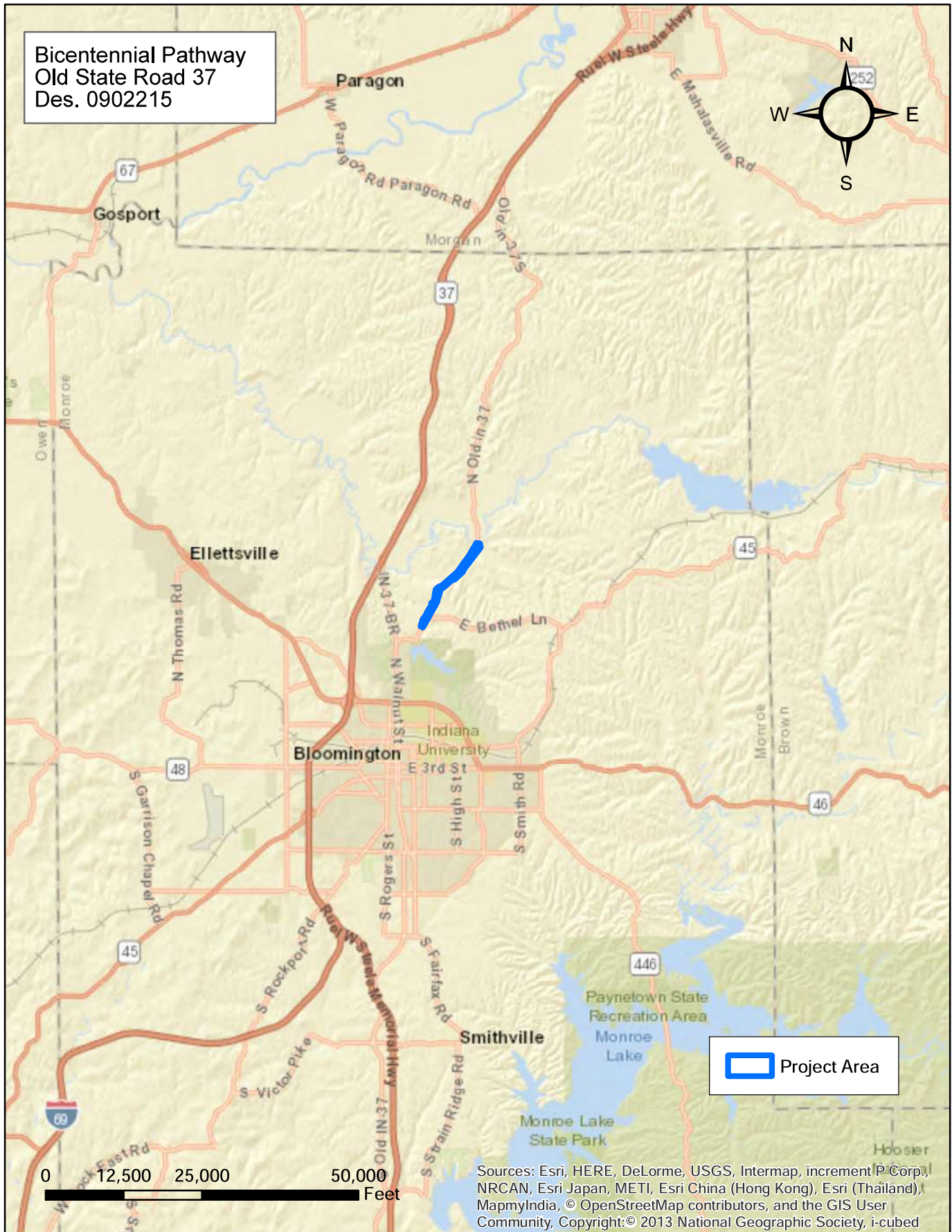
Stream Summary Table
Bicentennial Pathway, Phase 1
Old SR 37
Monroe County, Indiana

Stream Name	Photos	Lat/Long	OHWM Width (ft)	OHWM Depth (ft)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
Northern Branch of Muddy Fork	3-5,8,10	N 39.233711° W -86.504662°	20	1	Yes	No	Rock	Fair	Yes
Southern Branch of Muddy Fork	13-15	N 39.231023° W -86.507124°	17	3	Yes	Yes	Rock/Silt	Fair	Yes
UNT 1 to Muddy Fork	39	N 39.234593° W -86.503993°	4	3 inches	No	No	Silt	Poor	Yes
UNT 2 to Muddy Fork	18-20	N 39.229855° W -86.508156°	15	1	No	No	Pebble/Silt	Poor	Yes
N.UNT to Griffy Creek	28,31,32	N 39.220956° W -86.517554°	12	0.5	No	No	Rock/Silt	Poor	Yes
S. UNT to Griffy Creek	34-36	N 39.219356° W -86.519013°	18	1	Yes	No	Rock	Fair	Yes

References

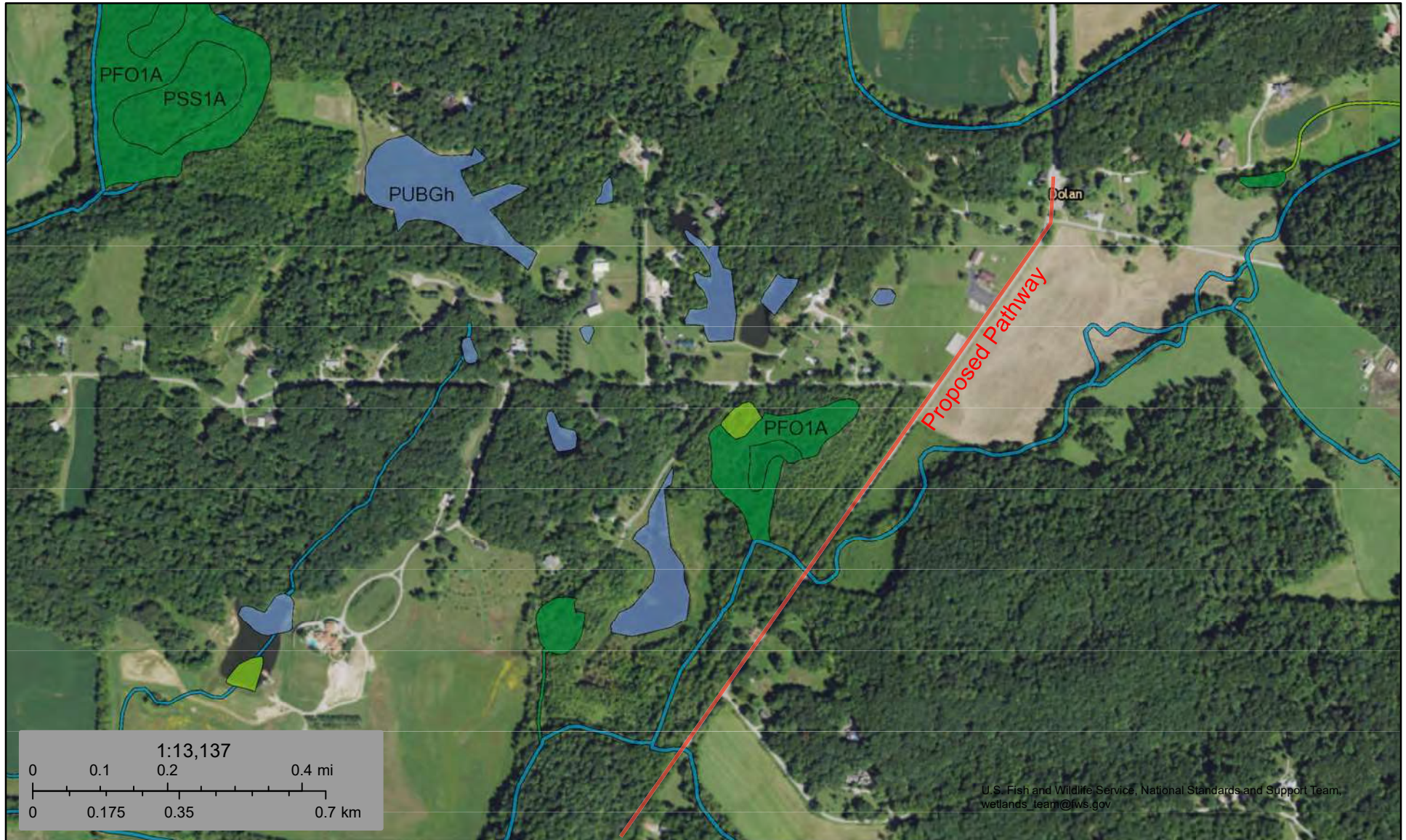
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General Location



Township: Bloomington
County: Monroe

Figure 1.



November 29, 2017

Figure 2a.

Wetlands

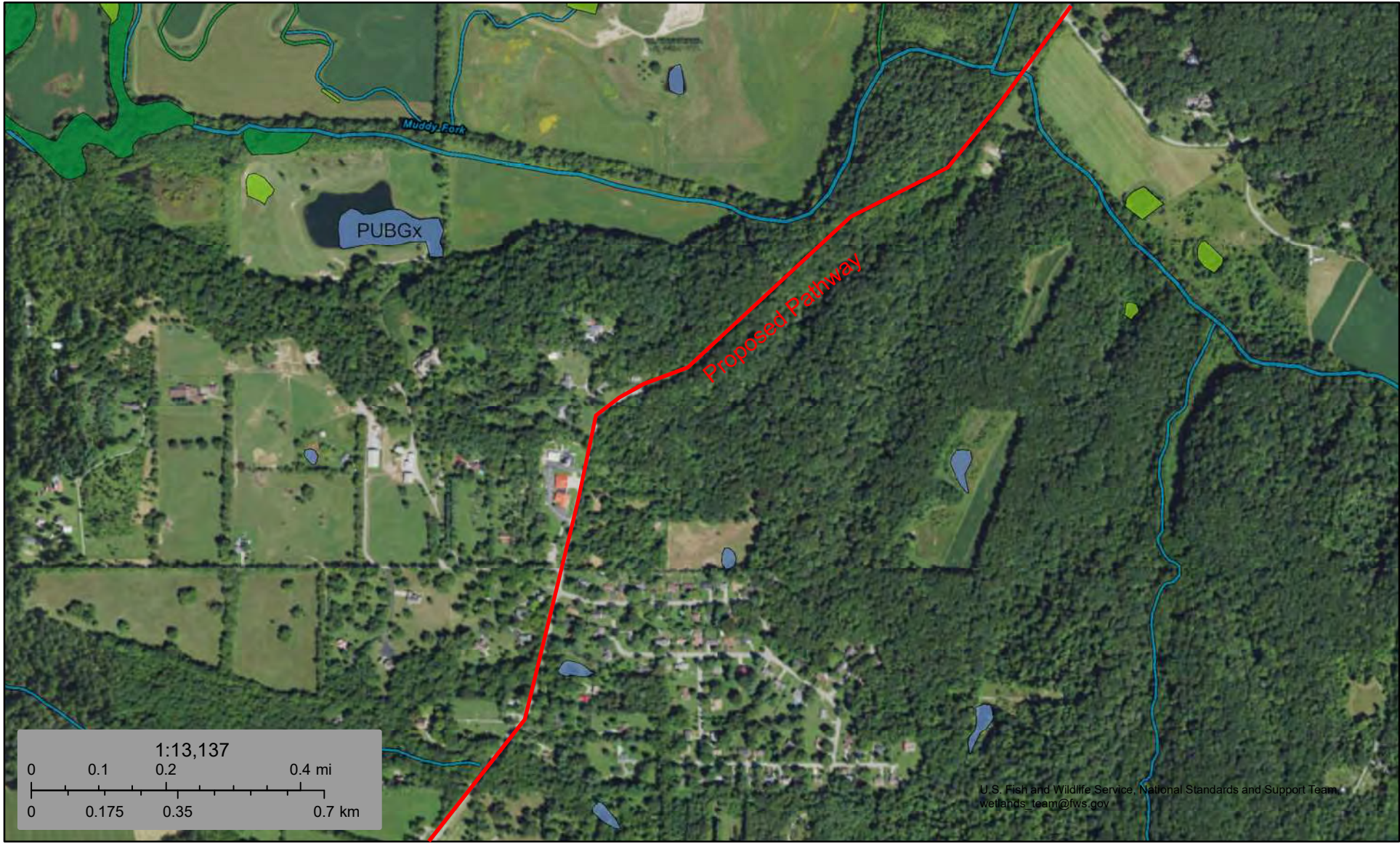
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- 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.









November 29, 2017

Figure 2b.

Wetlands

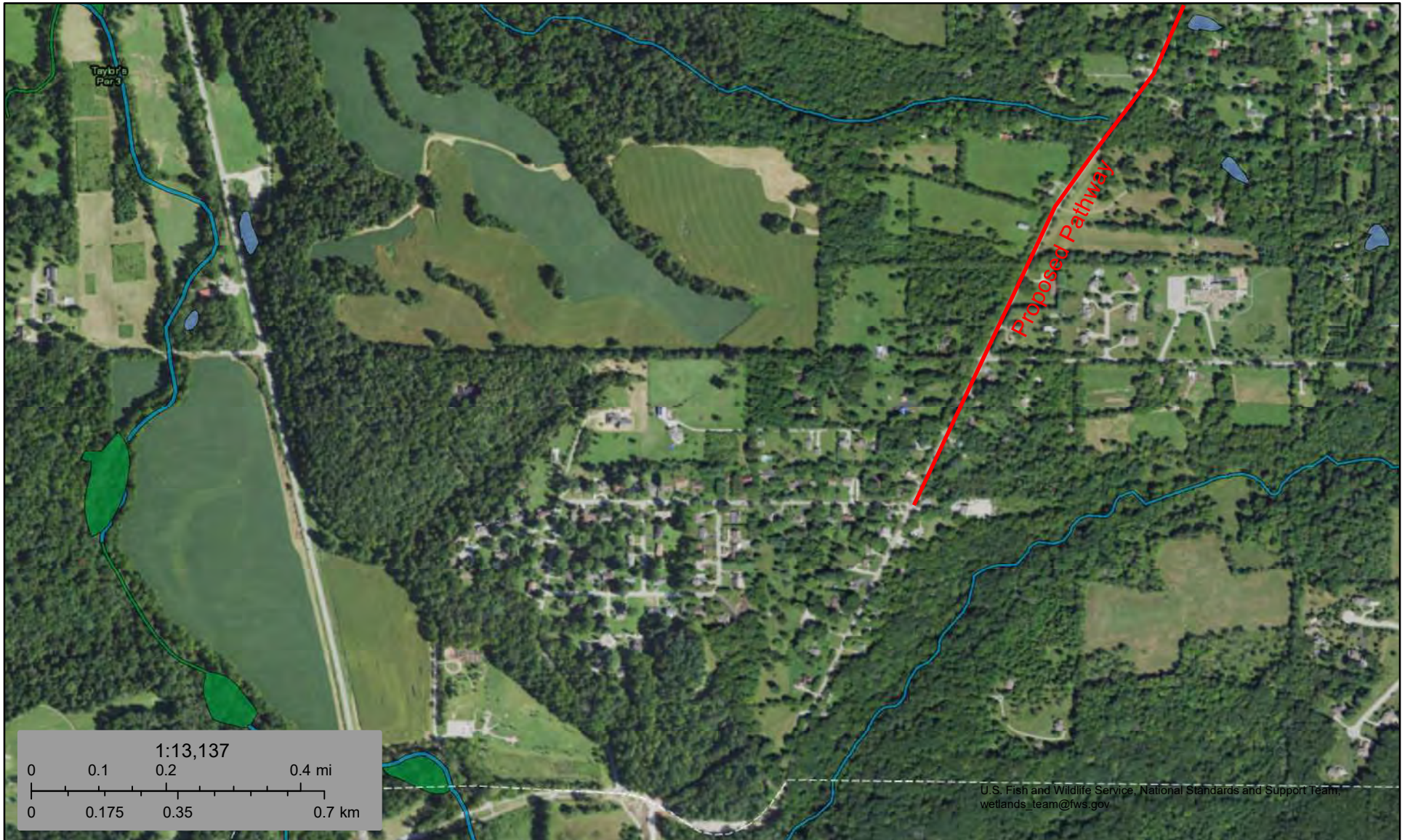
-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  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.



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

November 29, 2017

Figure 2c.

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine



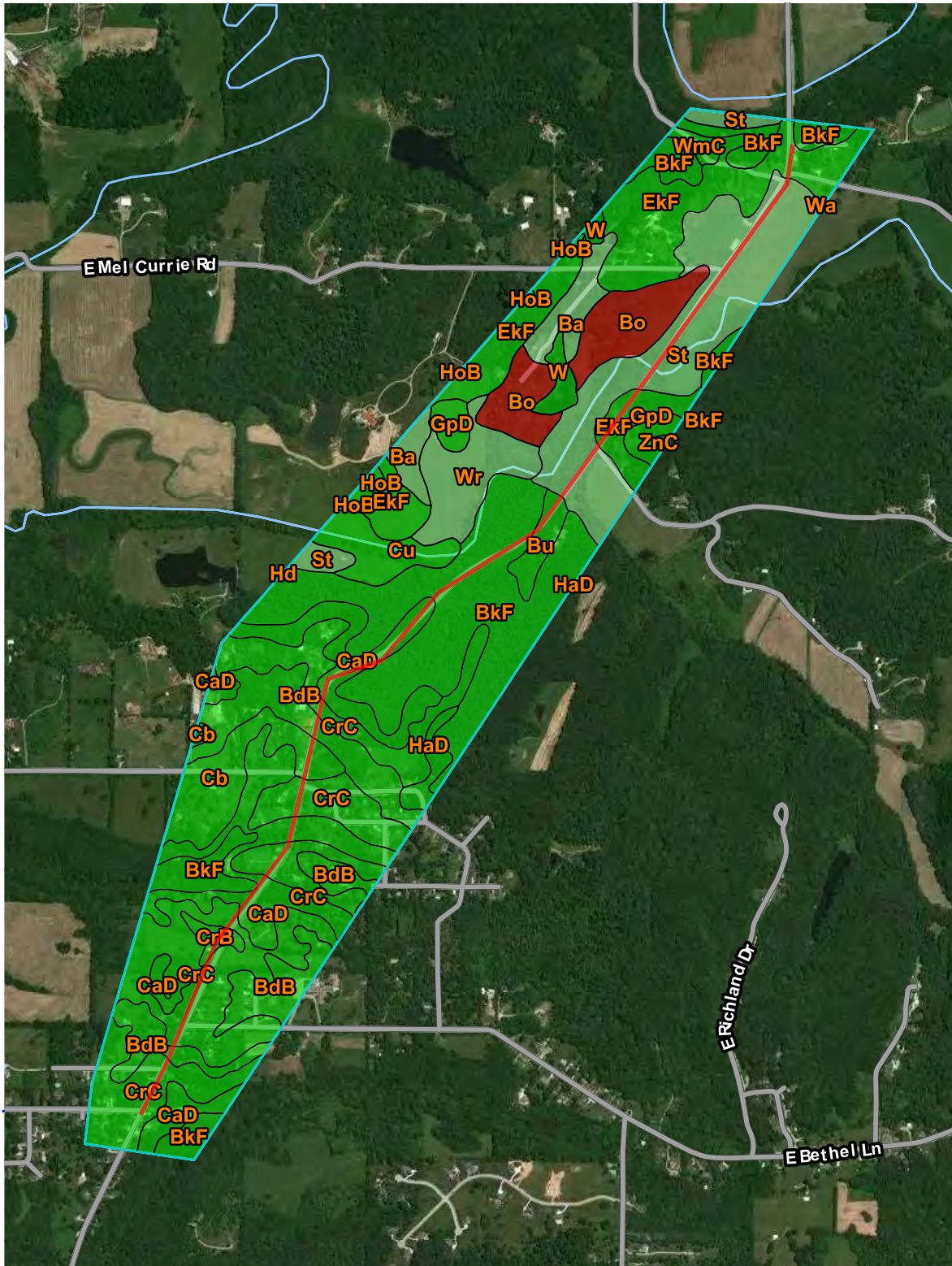
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

86° 31' 41" W

86° 29' 35" W

39° 14' 40" N

39° 14' 40" N



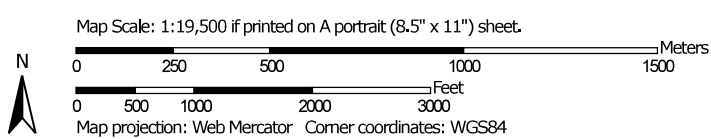
39° 12' 30" N

39° 12' 30" N

Figure 3.

86° 31' 41" W


86° 29' 35" W



— Proposed Pathway







MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available

Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available

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.

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: Monroe County, Indiana
 Survey Area Data: Version 23, Sep 15, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 25, 2014—Mar 20, 2017

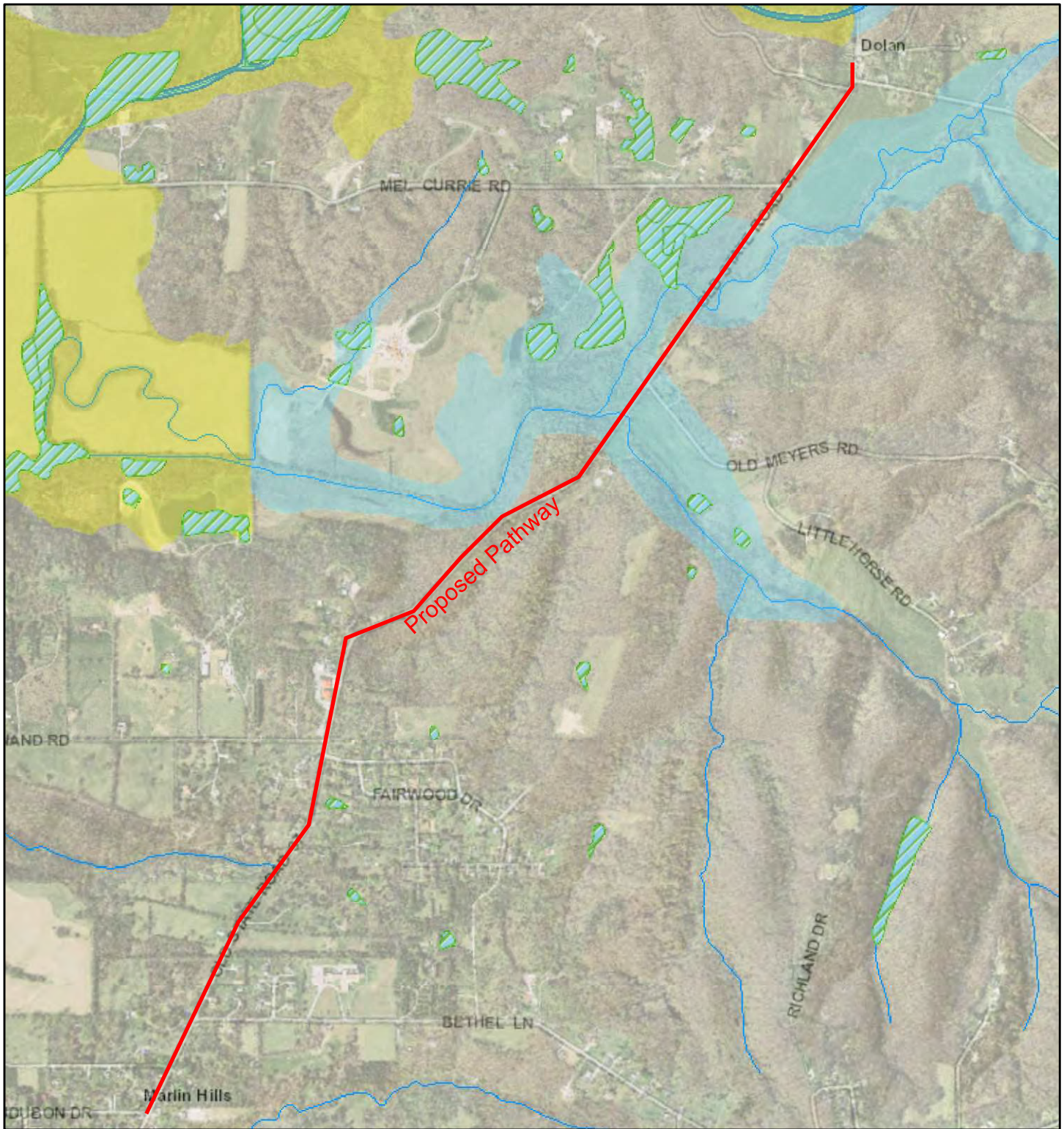
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ba	Bartle silt loam, 0 to 2 percent slopes	3	15.4	2.5%
BdB	Bedford silt loam, 2 to 6 percent slopes	0	48.1	7.9%
BkF	Brownstown-Gilwood silt loams, 25 to 75 percent slopes	0	113.5	18.5%
Bo	Bonnie silt loam, frequently flooded	100	28.8	4.7%
Bu	Burnside silt loam, occasionally flooded	0	6.1	1.0%
CaD	Caneyville silt loam, 12 to 18 percent slopes	0	61.3	10.0%
Cb	Caneyville-Hagerstown silt loam, karst	0	23.1	3.8%
CrB	Crider silt loam, 2 to 6 percent slopes	0	3.0	0.5%
CrC	Crider silt loam, 6 to 12 percent slopes	0	111.1	18.1%
Cu	Cuba silt loam, frequently flooded	0	13.1	2.1%
EkF	Elkinsville silt loam, upland, 20 to 40 percent slopes	0	72.2	11.8%
GpD	Gilpin silt loam, 12 to 18 percent slopes	0	7.9	1.3%
HaD	Hagerstown silt loam, 12 to 18 percent slopes	0	4.5	0.7%
Hd	Haymond silt loam, frequently flooded	3	0.1	0.0%
HoB	Hosmer silt loam, 2 to 6 percent slopes	0	1.2	0.2%
St	Stendal silt loam, frequently flooded	3	73.5	12.0%
W	Water	0	5.5	0.9%
Wa	Wakeland silt loam, frequently flooded	3	0.2	0.0%
WmC	Wellston-Gilpin silt loams, 6 to 20 percent slopes	0	2.4	0.4%
Wr	Wilbur silt loam, frequently flooded	3	21.1	3.4%



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ZnC	Zanesville silt loam, 6 to 12 percent slopes	0	0.7	0.1%
Totals for Area of Interest			612.8	100.0%

Bicentennial Pathway, Old State Road 37
 Monroe County, IN - Des. 0902215
 Water Resources







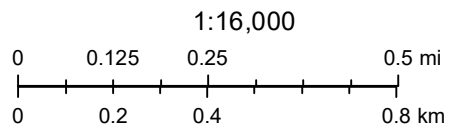
December 6, 2017

Figure 4.

-  Wetlands NWI (USFWS)
-  Wetlands Project Metadata NWI (USFS)

Floodplains - FIRM

-  Floodway
-  1% Annual Chance Flood Hazard
-  0.2% Annual Chance, Protected by Levee
-  0.2% Annual Chance Flood Hazard



U.S. Geological Survey
 U.S. Fish and Wildlife Service (USFWS), National Standards and Support
 Team, National Wetlands Inventory (NWI)
 Indiana Spatial Data Portal, UITS, ESRI
 Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
 F-17

Bicentennial Path, Old State Road 37
Monroe County, Indiana - Des. 0902215
Site Photographs - Map 1

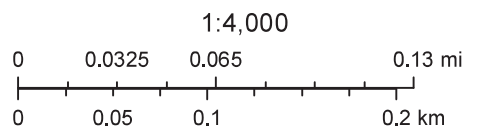


December 5, 2017

Figure 5a.

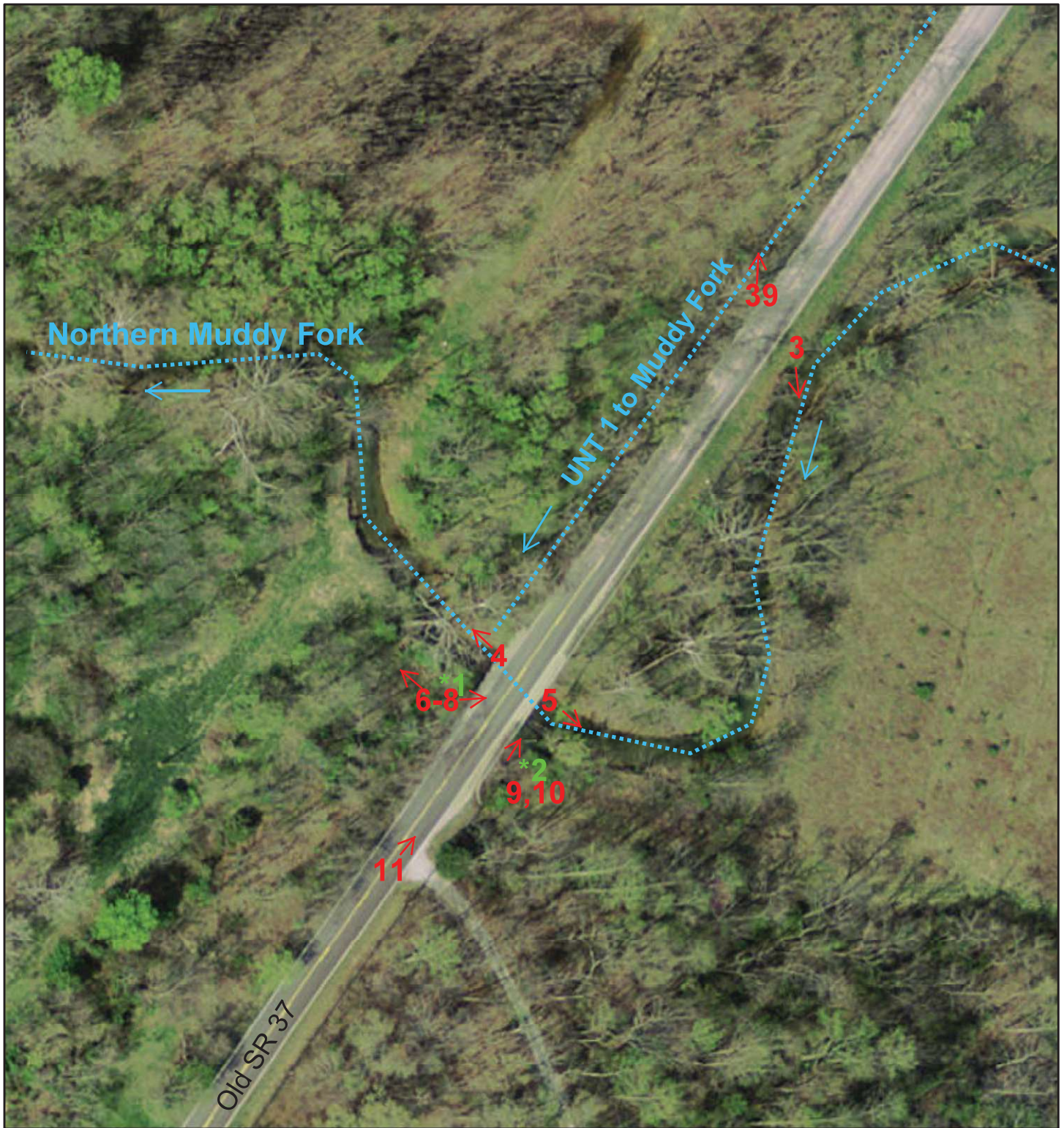
Photo Locations

..... Stream



Indiana Spatial Data Portal, UITS, ESRI
Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
Portal

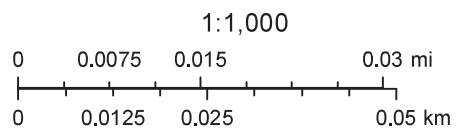
Bicentennial Path, Old State Road 37
 Monroe County, Indiana - Des. 0902215
 Site Photographs - Map 2



December 6, 2017

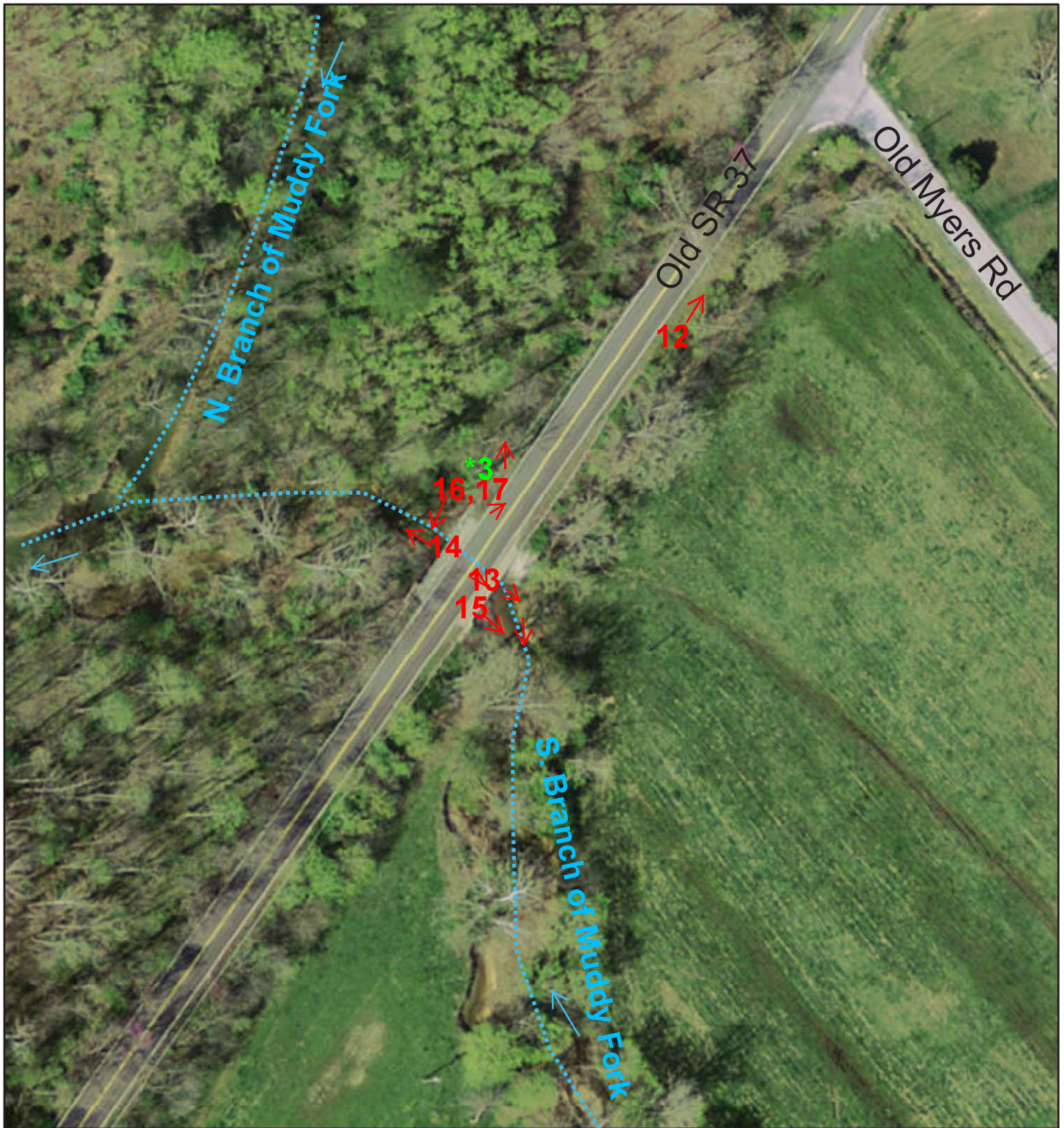
Figure 5b.

- # Photo Locations
- Stream
- * Sample Point Location



Indiana Spatial Data Portal, UITS, ESRI
 Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
 Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
 Portal

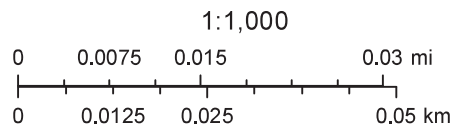
Bicentennial Path, Old State Road 37
 Monroe County, Indiana - Des. 0902215
 Site Photographs - Map 3



December 6, 2017

Figure 5c.

- # Photo Locations
- Stream
- * Sample Point Location



Indiana Spatial Data Portal, UITS, ESRI
 Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
 Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
 Portal

Bicentennial Path, Old State Road 37
Monroe County, Indiana - Des. 0902215
Site Photographs - Map 4



December 6, 2017

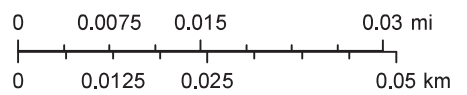
Figure 5d.

1:1,000

Photo Locations

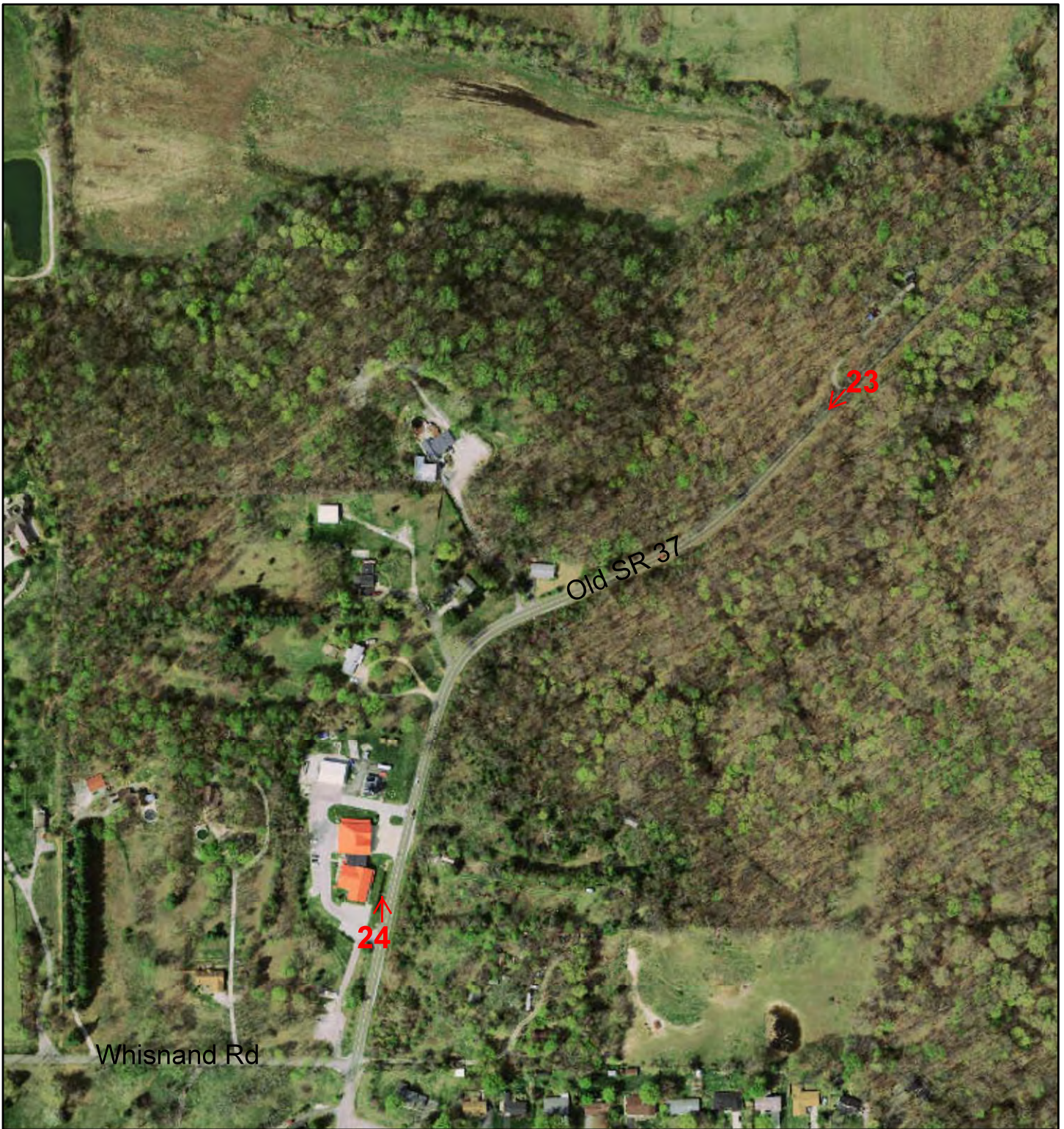
..... Stream

* Sample Point Location



Indiana Spatial Data Portal, UITS, ESRI
Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
Portal

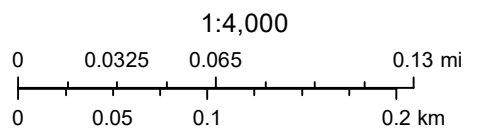
Bicentennial Path, Old State Road 37
Monroe County, Indiana - Des. 0902215
Site Photographs - Map 5



December 5, 2017

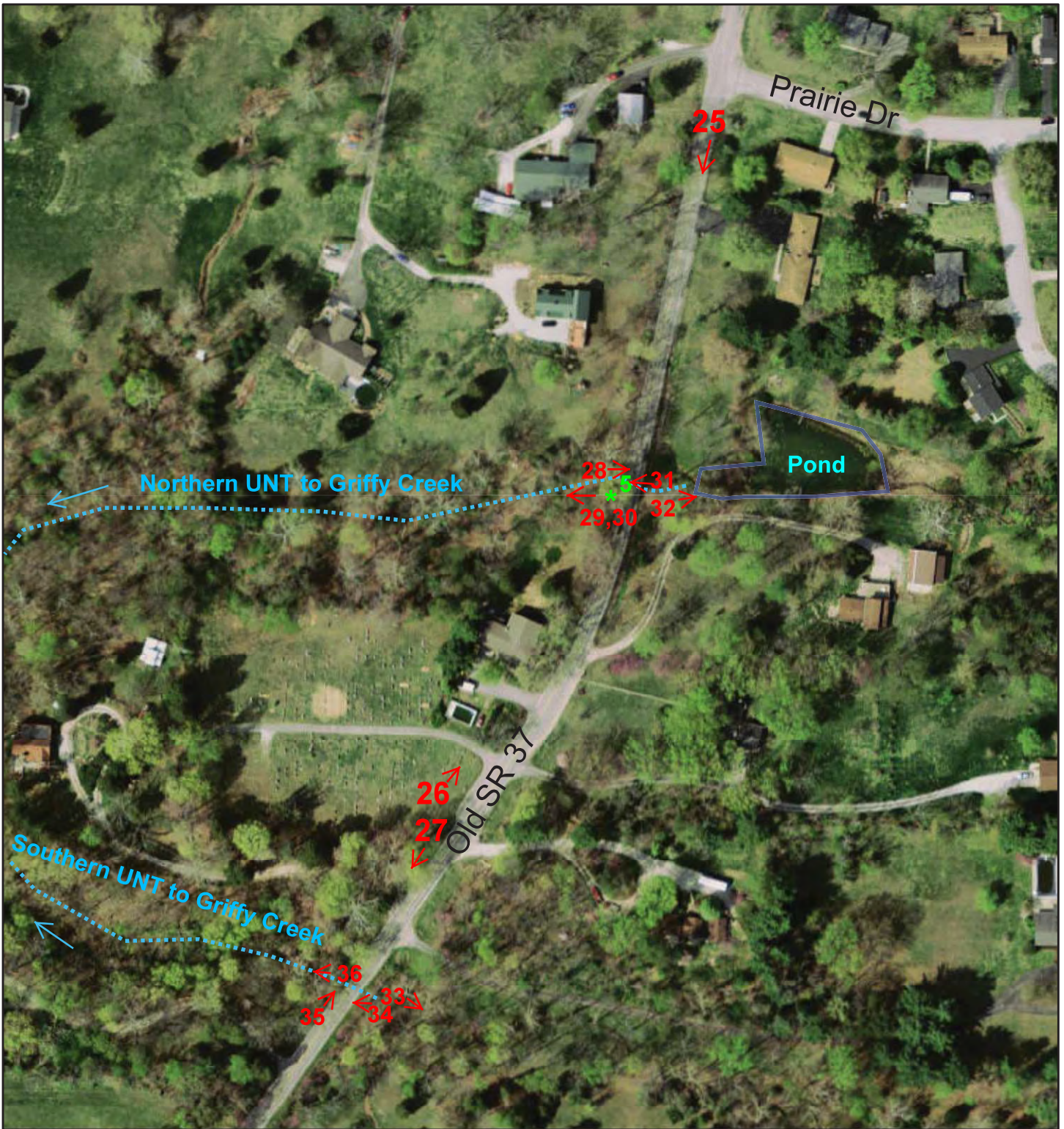
Figure 5e.

Photo Locations



Indiana Spatial Data Portal, UITS, ESRI
Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
Portal

Bicentennial Path, Old State Road 37
 Monroe County, Indiana - Des. 0902215
 Site Photographs - Map 6

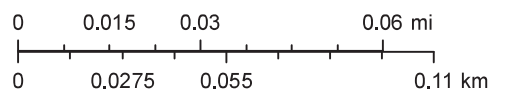


December 6, 2017

Figure 5f.

1:2,000

Photo Locations



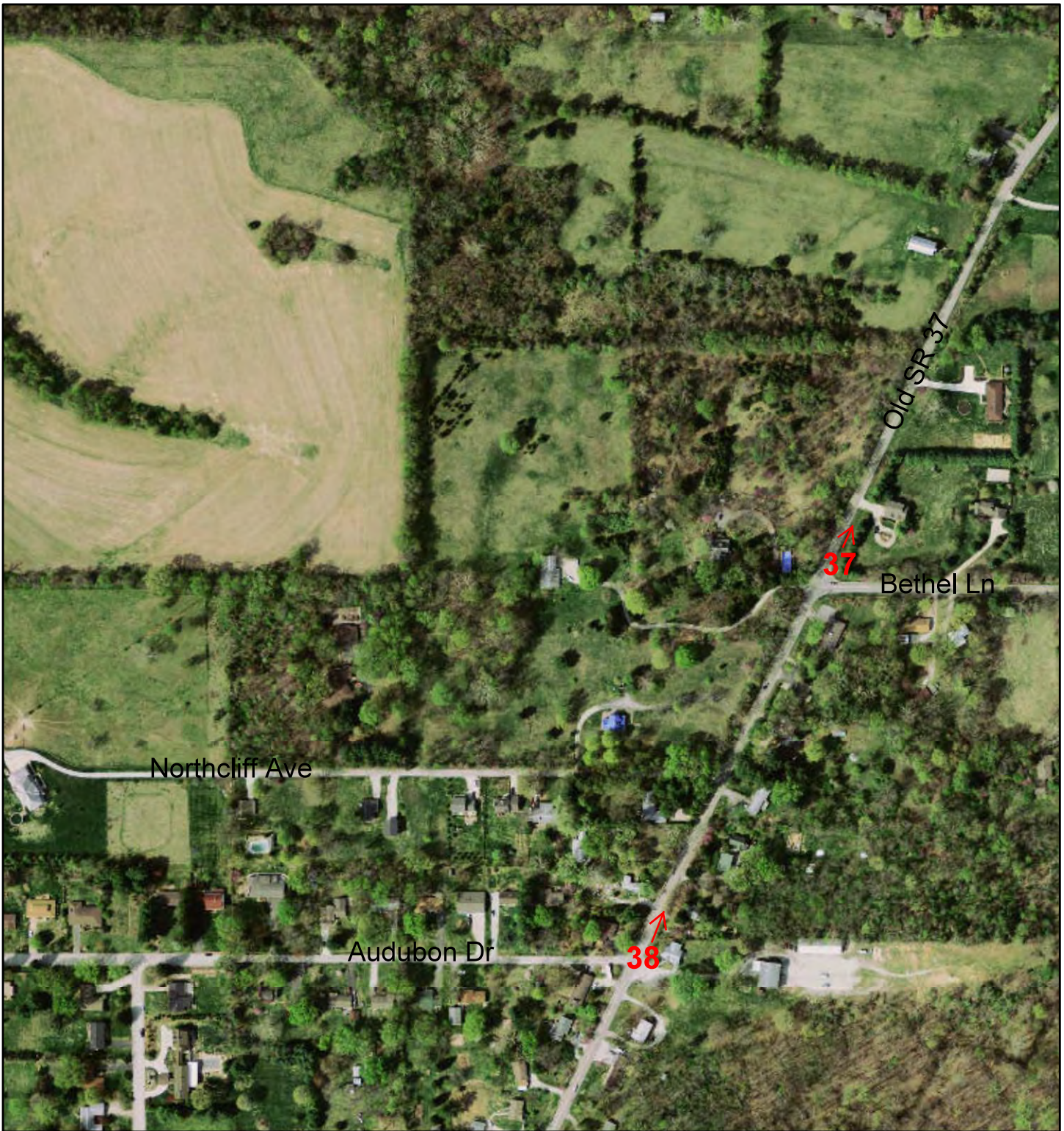
..... Stream

* Sample Point Location

□ Mapped Wetland

Indiana Spatial Data Portal, UITS, ESRI
 Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
 Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
 Portal

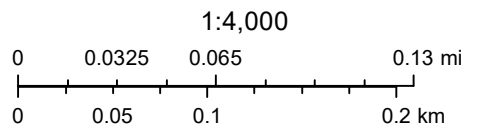
Bicentennial Path, Old State Road 37
Monroe County, Indiana - Des. 0902215
Site Photographs - Map 7



December 5, 2017

Figure 5g.

Photo Locations



Indiana Spatial Data Portal, UITS, ESRI
Indiana Department of Transportation (INDOT), U.S. Census Bureau (USCB),
Indiana Geographic Information Council (IGIC), UITS, Indiana Spatial Data
Portal