



Photo D-1. Streetscape from the intersection of N Raceway and Rockville roads, facing east.



Photo D-2. Streetscape from a location near 9057 Rockville Road, facing southeast.



Photo D-3. IHSSI # 097-117-56005, 9055 Rockville Road, north (front) and west (side) façades, facing southeast.



Photo D-4. IHSSI # 097-117-56005, 9055 Rockville Road, west (side) façade, facing east.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-5. IHSSI # 097-117-56005, 9055 Rockville Road, south (rear) façade, facing north.



Photo D-6. IHSSI # 097-117-56005, 9055 Rockville Road, east (side) façade, facing west.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-7. IHSSI # 097-117-56005, 9055 Rockville Road, east (side) and north (front) façades, facing southwest.

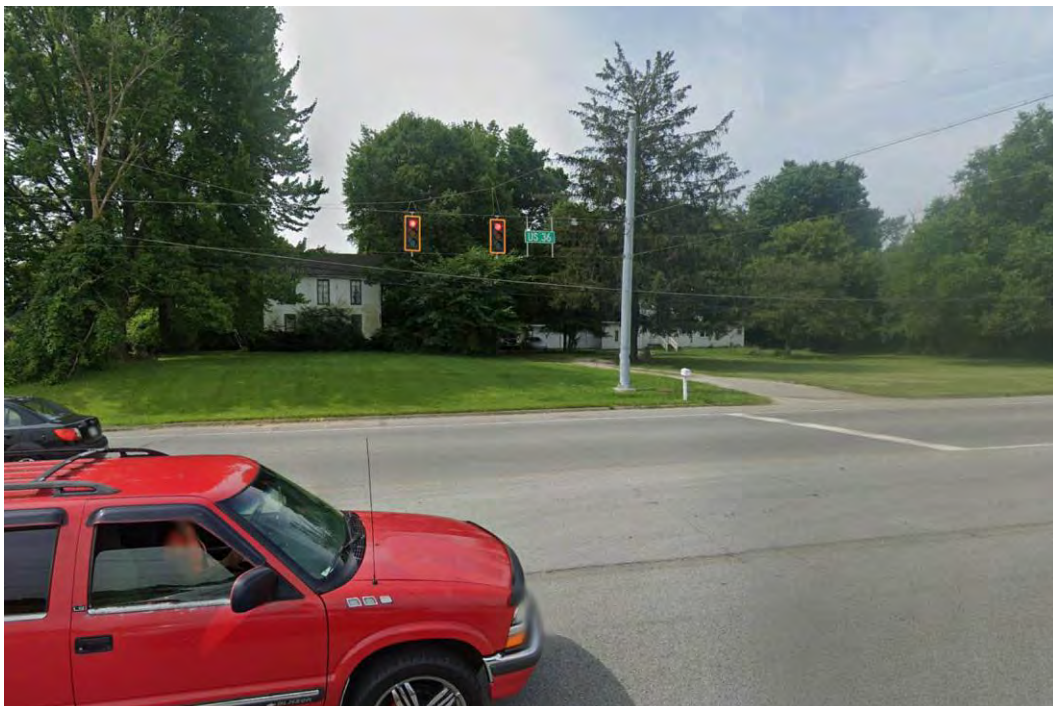


Photo D-8. Streetscape from the access road to LA Fitness (near 9055 Rockville Road), facing south.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-9. Streetscape from the access road to LA Fitness (near 9055 Rockville Road), facing north.



Photo D-10. Streetscape from the intersection of Coronado and Rockville roads, facing west.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-11. Streetscape from the intersection of Coronado and Rockville roads, facing east.



Photo D-12. IHSSI # 097-117-56003, 8835 Rockville Road, showing vacant lot, facing south.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-13. Streetscape from the intersection of Bridgeport and Rockville roads, facing west.



Photo D-14. Streetscape from the intersection of Bridgeport and Rockville roads, facing south.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-15. Streetscape from the intersection of Bridgeport and Rockville roads, facing east.



Photo D-16. Streetscape from the intersection of Bridgeport and Rockville roads, facing northwest.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-17. Streetscape from a location near 8530 Rockville Road, facing west.



Photo D-18. Streetscape from a location near 8530 Rockville Road, facing east.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-19. MB-035, bridge carrying US 36 over the Little White Lick Creek showing the south elevation, facing northeast.



Photo D-20. MB-035, bridge carrying US 36 over the Little White Lick Creek showing the north elevation, facing southeast.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-21. MB-035, bridge carrying US 36 over the Little White Lick Creek showing the south approach, facing west.



Photo D-22. Streetscape from a location near Kroger, facing west.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-23. Streetscape from a location along Westpoint Commons shopping center, facing east.



Photo D-24. MB-036, bridge carrying railroad tracks over US 36 showing the west elevation, facing east.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-25. MB-036, bridge carrying railroad tracks over US 36 showing center pier, floor beams, and south abutment, facing south.



Photo D-26. MB-036, east elevation of bridge carrying railroad tracks over US 36 showing center pier and south abutment, facing southwest.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-27. Streetscape from the intersection of N Girls School and Rockville roads, facing west.



Photo D-28. Streetscape from the intersection of N Girls School and Rockville roads, facing northeast.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-29. Streetscape from the intersection of Heather Drive and Rockville Road, facing west.



Photo D-30. Streetscape, from the intersection of Heather Drive and Rockville Road, facing northeast.

800.11(e) Findings and Documentation: US 36 Modern Rockville Road



Photo D-31. Streetscape from Rockville Road near the I-74 interchange, facing west.

Appendix E:
Report Abstracts

HISTORIC PROPERTY REPORT

US 36: Modern Rockville Road

Raceway Road to I-465
Wayne Township, Indianapolis

Marion County, Indiana

Des. Nos. 1800035 (lead #), 1800037, 1900340, and 1900341
DHPA No. 27127

January 2022

Prepared For:
Indiana Department of Transportation
Cultural Resources Office
Indianapolis, Indiana

Prepared By:
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Authors: Justin Greenawalt, MS
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Abstract

This report documents the identification and evaluation efforts for properties included in the area of potential effects (APE) for the US 36: Added Travel Lanes Project, Raceway Road to I-465, Marion County, Indiana. Above-ground properties located within the project APE were identified and evaluated in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings on historic properties within the APE of the proposed undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (NRHP). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains no properties listed in the NRHP.

The APE contains one individual property that is recommended eligible for listing in the NRHP. The David Faucett House, 9055 Rockville Road (IHSSI # 097-117-56005), is an I-House constructed ca. 1848. It is eligible under Criteria A and C of the NRHP Criteria for Evaluation (US Department of the Interior, National Park Service 1991). The APE contains one historic district that is recommended eligible for listing in the NRHP. The Fair Meadows subdivision (both the 1st and 2nd sections) is a post-war subdivision platted in 1955 and built-up by 1965. It has Criterion A significance in the area of Community Planning and Development.

EFFECTS REPORT

US 36 Modern Rockville Road

Raceway Road to I-465
Wayne Township, Indianapolis

Marion County, Indiana

Des. Nos. 1800035 (lead #), 1800037, 1900340, and 1900341
DHPA No. 27127

March 2022

Prepared For:
Indiana Department of Transportation
Cultural Resources Office
Indianapolis, Indiana

Prepared By:
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FINDING: The US 36 Modern Rockville Road project results in a finding of *No Adverse Effect* for the David Faucett House under the **Preferred Alternative**.

FINDING: The US 36 Modern Rockville Road project results in a finding of *No Adverse Effect* for the Ernie Pyle Highway Homes Subdivision historic district under the **Preferred Alternative**.

FINDING: The US 36 Modern Rockville Road project results in a finding of *No Adverse Effect* for the Buisdale Subdivision historic district under the **Preferred Alternative**.

FINDING: The US 36 Modern Rockville Road project results in a finding of *No Adverse Effect* for the Fair Meadows Subdivision historic district under the **Preferred Alternative**.

CONFIRMATION



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 Indianapolis, In 46225

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Text of Ad: 08/30/2022

Public Notice
Des. Nos. 1800035 (lead #), 1800037, 1900340, and 1900341

The Indiana Department of Transportation (INDOT) is planning to undertake an added travel lane project, funded in part by the Federal Highway Administration (FHWA). The project is located along US 36 in Marion County, Indiana.

Under the preferred alternative, the proposed project would involve the construction of an additional travel lane (to the outside) in each direction along US 36 approximately from Raceway Road to I-465. It also includes the construction of sidewalks along both sides of US 36, gutter and curb repair and replacement, and milling and resurfacing of the existing pavement. The additional lanes will require the twin bridges over Little White Lick Creek to be widened to allow for the additional travel lanes and sidewalks on both sides of US 36.

Properties listed in or eligible for the National Register of Historic Places (NRHP) located within the Area of Potential Effects (APE) include the David Faucett House, Ernie Pyle Highway Homes Subdivision, Buisdale Subdivision, and Fair Meadows Subdivision. The proposed action impacts properties listed in or eligible for the NRHP. INDOT, on behalf of the FHWA, has issued a "No Adverse Effect" finding for the project because the project will not diminish the integrity of the characteristics that qualify the historic properties within the APE for inclusion in the NRHP. In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.4(d)(2), the documentation specified in 36 CFR 800.11(e) is available for inspection in Michael Baker International's office. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <http://erms.indot.in.gov/Section106Documents>. This documentation serves as the basis for the "No Adverse Effect" finding. The views of the public on this effect finding are being sought. Please reply with any comments to Katherine Molnar, Architectural Historian, Michael Baker International, 3815 River Crossing Parkway, Suite 20, Indianapolis, IN 46240; Phone: 602-294-2250, email: Katherine.molnar@mbakerintl.com; no later than October 3, 2022. In accordance with the "Americans with Disabilities Act," if you have a disability for which INDOT needs to provide accessibility to the document(s) such as interpreters or readers, please contact Richard Gilyeat at: 765-361-5684 or rgilyeat@indot.in.gov. (INI - 9/3/22 - 5395827) hspaxlp

FW: EXTERNAL: RE: US 36 Rockville Rd._1800035_Update

Molnar, Katherine J <Katherine.Molnar@mbakerintl.com>

Tue 1/10/2023 2:19 PM

To: Thurman, Julie A <Julie.Thurman@mbakerintl.com>; Kirk Roth <kroth@CORRADINO.com>

Cc: Zinn, Timothy <Tzinn@mbakerintl.com>; Curtis, William <William.Curtis@mbakerintl.com>; Jack, Laura <Laura.Jack@mbakerintl.com>

FYI

Katherine J Molnar | Architectural Historian

Rapid City, SD | [O] 602-294-2250 | [M] 970-482-8094

katherine.molnar@mbakerintl.com | www.mbakertnl.com

From: Branigin, Susan <SBranigin@indot.IN.gov>

Sent: Tuesday, January 10, 2023 12:16 PM

To: Molnar, Katherine J <Katherine.Molnar@mbakerintl.com>

Cc: Coon, Matthew <mcoon@indot.IN.gov>; Branigin, Susan <SBranigin@indot.IN.gov>

Subject: EXTERNAL: RE: US 36 Rockville Rd._1800035_Update

Katie,

Apologies—I read through the materials last week and meant to respond. Since what you're talking about is most-relevant to above-ground resources, I think what you're proposing below (**highlighted**) is acceptable.

Thanks,

Susan

Susan R. Branigin

History Unit Team Lead

Cultural Resources Office

Environmental Services

100 N. Senate Ave., Rm. N758-ES

Indianapolis IN 46204

Office: 317.417.1622

Email: sbranigin@indot.in.gov

Work Hours: M-F 7:30 a.m.-3:30 p.m.

-
****For the latest updates from INDOT's Cultural Resources Office, subscribe to the Environmental Services listserv: <https://www.in.gov/indot/3217.htm>**

****Link to the CRO-Public Web Map App can be found [here](#)**

From: Molnar, Katherine J

Sent: Tuesday, January 3, 2023 9:35 AM

To: SBranigin <SBranigin@indot.IN.gov>

Cc: Coon, Matthew <mcoon@indot.in.gov>; Jack, Laura <Laura.Jack@mbakerintl.com>; Curtis, William <William.Curtis@mbakerintl.com>; Thurman, Julie A <Julie.Thurman@mbakerintl.com>

Subject: US 36 Rockville Rd._1800035_Update

Dear Susan,

On July 20, 2022, Matt Coon signed the Determinations and Finding document for the above-listed project, concluding the S106 process with a finding of No Adverse Effect.

As the larger environmental report is now being finalized, we discovered a slight discrepancy between the original project description and the Stage 2 drawings--- namely that the latter includes an 800-foot stretch of sidewalk not referenced in the former. While I do not believe this warrants reopening the S106 process, I wanted to keep you apprised of this update.

The project description indicates that Des. 1800035 ends 800 feet east of Raceway Road; Michael Baker's roadway engineering work also ends at this point (though the APE extends all the way to Raceway Road as a buffer) (see attached graphic). Another Des. (1601072) begins at this point and carries the project to the west (including the Raceway Road intersection). Between the two projects, the entirety of the area has been surveyed/evaluated for aboveground resources and cleared of archaeological potential. Because Des. 1601072 did not provide for sidewalks in the 800 feet extending east of Raceway Road, our designers completed this feature; it is partially illustrated in the Plan figures included in the Effects Report and the 800.11. Though technically located outside the limits of our original project area, the sidewalk segment is not adjacent to any historic resource, and is located entirely within the existing APE.

The 800-foot sidewalk segment is thus: located outside of the original project limits; within the current APE; depicted on Plan Set figures; and not adjacent to any historic properties. We recognize that sidewalks of this nature are often cleared through the MPPA process and are not likely to result in an affect to historic properties. We plan to update the project description for publication of the EA, but do not plan to make revisions to any of the S106 deliverables.

Please let me know if you have any questions or concerns,

Katie

Katherine J Molnar | Architectural Historian

Rapid City, SD | [O] 602-294-2250 | [M] 970-482-8094

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APPENDIX E

Red Flag and Hazardous Materials

DES 1800035, 1800037, 1900340, 1900341, 2002284



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (855) 463-6848
(855) INDOT4U

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: January 26, 2022

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N758-ES
Indianapolis, IN 46204

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

Re: RED FLAG INVESTIGATION
DES # 1800035, 1800037, 1900340, 1900341, State Project
Added Travel Lanes & Roadway Improvements
US 36, 800 foot east of Raceway Road to I-465 southbound ramps
Marion County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The project is located on US 36, also known as Rockville Road, on the west side of Indianapolis in Marion County, Indiana. The project is publicly known as Modern Rockville Road. The project is a 3-mile-long roadway project that spans from the western terminus located approximately 0.15 mile (800 foot) east of the Raceway Road and US 36 intersection. The project extends to the east along US 36 to the eastern terminus at the I-465 southbound ramps intersection.

The project has been separated into the following four Designation Numbers (Des. Nos.):

- Des. No. 1800035: Roadway improvements from 0.15-mile (800 ft) east of Raceway Road to Transfer Drive in Marion County
- Des. No. 1800037: Roadway improvements from Transfer Drive east to I-465 southbound ramps in Marion County
- Des. No. 1900340: Bridge widening for US 36 (Rockville Road) eastbound over East Fork of White Lick Creek
- Des. No. 1900341: Bridge widening for US 36 (Rockville Road) westbound over East Fork of White Lick Creek

The proposed project will be an Added Travel Lanes (ATL) project which will be constructed without substantially widening the existing pavement. Full-depth reconstruction of the existing outside shoulder will convert it to a third travel lane in each direction with adjacent new curb and gutter and a closed drainage system. The new total cross-section width from the back-of-curb to back-of-curb will be 87 foot, as compared to the existing total pavement width of 84 foot. The new US 36 pavement section will consist of two 11 foot inside lanes and a 12 foot outside lane with a 2 foot curb and gutter in each direction, separated by a 15 foot raised (curbed) center median. The center median will help control access

along the corridor and will also be used to provide dedicated left turn lanes along US 36 at major intersections, as well as significant commercial developments and neighborhood entrances. A 6 foot wide sidewalk, integral with the new outside curb, will be constructed along the south side of US 36. A 10 foot wide multi-use path, separated by a 5 foot wide buffer, will be constructed along the north side of US 36. All pedestrian and non-motorized improvements will be Americans with Disabilities Act (ADA) compliant. Signage will be added along the corridor when needed. Added travel lanes will be built at the following intersections:

- Eastbound US 36 to southbound Richie Avenue/Bridgeport Road right turn lane.
- Second (dual) eastbound US 36 to northbound Country Club Road left turn lane.
- Westbound US 36 to northbound Country Club Road right turn lane.
- Southbound Country Club road to westbound US 36 right turn lane.
- Westbound US 36 to northbound Transfer Drive right turn lane.
- Eastbound and westbound US 36 to Girls School Road right turn lanes.
- Eastbound US 36 to southbound High School Road right turn lane.

Signal modifications/replacements will occur throughout the corridor to accommodate the proposed lane configuration. Loop detectors will be included at each signal and pedestrian push buttons and countdown heads will be added at signalized locations.

Roadway drainage will be added throughout the project corridor. Curb and gutter, storm sewer, and roadside ditches will be updated and installed. Inlets will be located in the proposed curb line and drainage improvements will be included in the project. Dual trunkline will be added on the northside and southside of US 36 to limit the need to cross the existing pavement which will remain in place. The culvert for Shiloh Creek will be rehabilitated. Drainage improvements will occur at Kirk Drive and Burke Avenue.

The eastbound and westbound US 36 bridges over the East Fork of White Lick Creek will be widened to the outside to accommodate the 3rd added travel lane in each direction and the pedestrian/non-motorized facilities. The proposed rehabilitation would consist of bridge widening, replacing bridge railings, existing deck patching and overlay of the existing deck.

The intersections where ADA curb ramp work is proposed to occur are provided in the below table:

Intersection:	Quadrants:	Depth of Excavation (feet below ground surface)	Des. No.
L. A. Fitness Signalized Intersection	NW and NE corner	1.5 ft-bgs	1800035
Coronado Road	NW and NE corner	1.5 ft-bgs	1800035
Richie Avenue/Bridgeport Road	All four corners	1.5 ft-bgs	1800035
Burke Avenue	NW and NE corner	1.5 ft-bgs	1800035
Kirk Drive	NW and NE corner	1.5 ft-bgs	1800035
Country Club Road	All four corners	1.5 ft-bgs	1800035
Country Village Drive	SW and SE corner	1.5 ft-bgs	1800035
Transfer Drive	NW and NE corner	1.5 ft-bgs	1800035
Unnamed Industrial Road	NW and NE corner	1.5 ft-bgs	1800037
Rockleigh Avenue	NW and NE corner	1.5 ft-bgs	1800037
Lenora Avenue	SW and SE corner	1.5 ft-bgs	1800037
Unnamed Apartment Road	NW and NE corner	1.5 ft-bgs	1800037
Girls School Road	All four corners	1.5 ft-bgs	1800037
Waynecroft Avenue	SW and SE corner	1.5 ft-bgs	1800037
Buisdale Drive	NW and NE corner	1.5 ft-bgs	1800037
Furman Avenue	SW and SE corner	1.5 ft-bgs	1800037

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Eleanor Street	SW and SE corner	1.5 ft-bgs	1800037
Heather Drive	NW and NE corner	1.5 ft-bgs	1800037
Bauman Street	SW and SE corner	1.5 ft-bgs	1800037
Sigsbee Street	NW and NE corner	1.5 ft-bgs	1800037
Plainview Street	SW and SE corner	1.5 ft-bgs	1800037
Brandt Street	NW and NE corner	1.5 ft-bgs	1800037
Mission Drive West	NW and NE corner	1.5 ft-bgs	1800037
Mission Drive East	SW and SE corner	1.5 ft-bgs	1800037
Merrimac Place	NW and NE corner	1.5 ft-bgs	1800037
High School Road	All four corners	1.5 ft-bgs	1800037

Bridge and/or Culvert Project: Yes No Structure # 036-49-03898 AEBL and 036-49-03898 AWBL

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

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

Proposed right of way: Temporary 1 acre Permanent 0.71 acre

Type of excavation: Excavation will occur along the project corridor at depths of:

- 1.5 foot to 2 foot for the pavement and curbing and ADA ramp installation.
- Maximum depth of 7 foot when installing the storm sewer.
- Up to 2.5 foot of excavation will occur to accommodate roadway widening for inclusion of the third lane in each direction.
- Up to 5 foot of excavation will occur at the bridges substructure to accommodate bridge widening.

Maintenance of traffic (MOT): MOT will maintain two lanes of traffic in each direction at all times. There is a possibility of a closure at Girls School Road, if this occurs, coordination with DPW will occur. Urban crossovers will be required east of Raceway Road and west of High School Road.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	9*	Recreational Facilities	3
Airports ¹	1	Pipelines	3
Cemeteries	N/A	Railroads	14
Hospitals	N/A	Trails	2
Schools	2*	Managed Lands	3

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

Explanation:

***Religious Facilities:** Five (5) mapped and four (4) unmapped religious facilities are located within the 0.5 mile search radius. The nearest facilities, (unmapped) Westlake Church of God and Rockville Road Church of Christ, are adjacent to the project area (near the intersections of US 36 and Heather Drive and US 36 and Waynecroft Avenue, respectively). Coordination with Westlake Church of God and Rockville Road Church of Christ will occur.

Airports: Although not located within the 0.5 mile search radius, one (1) public-use airport, Indianapolis International Airport, is located within 3.8 miles (20,000 feet) of the project area. The public-use airport is located approximately 1.91 miles south of the project area; therefore early coordination with INDOT Aviation will occur.

Schools: One (1) mapped school and one (1) unmapped school are located within the 0.5 mile search radius. The nearest school, (unmapped) Crosspointe Baptist Church & Christian Academy, is located approximately 0.22 mile north of the project area. No impact is expected.

Recreational Facilities: Three (3) recreational facilities are located within the 0.5 mile search radius. The nearest facility, Cloverleaf Conservation Area, is adjacent to the project area, located 0.10 mile west of the intersection of US 36 and Country Club Road. Coordination with Indy Parks will occur.

Pipelines: Three (3) pipeline segments are located within the 0.5 mile search radius. Two (2) pipeline segments, owned by Citizens Gas & Coke Utility and Texas Eastern Transmission Corp., cross the project area west of the intersection of US 36 and Country Club Road and at the intersection of US 36 and the railroad. Coordination with INDOT Utilities and Railroads should occur.

Railroads: Fourteen (14) railroad segments are located within the 0.5 mile search radius. One (1) railroad segment, owned by CSX Transportation, crosses the project area. This railroad goes over US 36 and is 0.26 mile east of the intersection of US 36 and Country Club Road. Standard coordination will occur with INDOT Utilities and Railroads by the Project Management Team or their consultant no later than the Ready for Contracts (RFC) date.

Trails: Two (2) trails are located within the 0.5 mile search radius. The nearest trail, Krannert Park Woods Trail, is located approximately 0.45 mile south of the project area. No impact is expected.

Managed Lands: Three (3) managed lands are located within the 0.5 mile search radius. The nearest managed land, Cloverleaf Conservation Area, managed by Indy Parks, is adjacent to the project area, located 0.10 mile west of the intersection of US 36 and Country Club Road. Coordination with Indy Parks is recommended.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	38
Canal Structures – Historic	N/A	Lakes	7
NPS NRI Listed	N/A	Floodplain - DFIRM	18
NWI-Lines	7	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	5	Sinkhole Areas	N/A
Rivers and Streams	11	Sinking-Stream Basins	N/A

Explanation:

NWI-Lines: Seven (7) NWI-Lines are located within the 0.5 mile search radius. One (1) NWI-Line is located within the project area, 0.12 mile west of the intersection of US 36 and Kirk Drive. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes (Impaired): Five (5) IDEM 303d listed stream segments are located within the 0.5 mile search radius. Two (2) IDEM 303d listed stream segments, East Fork of White Lick Creek and Shiloh Creek, are located within the project area, 0.19 mile west of the intersection of US 36 and Richie Ave. and 0.13 mile west of the intersection of US 36 and Country Club Road, respectively. East Fork of White Lick Creek and Shiloh Creek are listed as impaired for Impaired Biotic Communities (IBC). Concerning Impaired Biotic Communities (IBC), Best Management Practices (BMPs) will be used to avoid further degradation to the stream.

Rivers and Streams: Eleven (11) river and stream segments are located within the 0.5 mile search radius. Two (2) stream segments, East Fork of White Lick Creek and Shiloh Creek, are located within the project area, located 0.39 mile west of the intersection of US 36 and Kirk Drive and 0.12 mile east of the intersection of US 36 and Kirk Drive, respectively. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI-Wetlands: Thirty-eight (38) NWI-Wetlands are located within the 0.5 mile search radius. Two (2) NWI-Wetlands are adjacent and/or within the project area, located 0.29 west of the intersection of US 36 and Richie Ave and 0.11 mile west of the intersection of US 36 and Country Club Road. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes: Seven (7) lakes are located within the 0.5 mile search radius. The nearest lake is adjacent to the project area, located 0.20 mile east of the intersection of US 36 and Raceway Road. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Floodplain-DFIRM: Eighteen (18) floodplain polygons are located within the 0.5 mile search radius. The project area is located within two (2) floodplain polygons, located at the intersection of US 36 and Country Club Road. Coordination with INDOT Ecology and Waterway Permitting will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	2	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation:

Petroleum Wells: Two (2) petroleum wells are located within the 0.5 mile search radius. One (1) petroleum well, which is operated by Citizens Gas & Coke Utility, is adjacent to the project area and located at the intersection of US 36 and Girls School Road. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	2	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	5	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	6	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	1	Brownfields	1
Construction Demolition Waste	N/A	Institutional Controls	7
Solid Waste Landfill	N/A	NPDES Facilities	18
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	1
Leaking Underground Storage (LUST) Sites	10	Notice of Contamination Sites	N/A

Explanation:

RCRA Generator/TSD: Two (2) RCRA Generators/TSD are located within the 0.5 mile search radius. The nearest RCRA Generator/TSD is adjacent the project area, located 0.27 mile west of the intersection of US 36 and Girls School Road.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) – The Hazardous Waste Handler form, dated March 20, 2019, indicates the site is no longer a generator of hazardous waste as the property was sold in 2018. No impact is expected.

State Cleanup Sites: Five (5) State Cleanup Sites are located within the 0.5 mile search radius. The nearest State Cleanup Site is located 0.08 mile east of the eastern termini of the project area.

Coach Horses Restaurant/Weybourne Plaza Development, 9251 Rockville Road Indianapolis, IN 46234 (AI #21024) – IDEM issued a No Further Action letter, dated July 20, 2004, following the removal of an orphan UST and 285 tons of impacted soil as part of redevelopment activities. Residual contamination does not appear to extend toward the project area. No impact is expected.

Underground Storage Tank (UST) Sites: Six (6) Underground Storage Tank Sites (UST) are located within the 0.5 mile search radius. Four (4) UST sites are adjacent to the project area.

Seven Eleven, 8450 Rockville Road Indianapolis, IN 46214 (AI #22059) is located at the northwest corner of Country Club Road and US 36. A Return to Compliance Letter was issued on July 14, 2020 stating that the UST owner and/or operator had achieved compliance since the March 20, 2020 letter. No impact is expected.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) located 0.27 mile west of the intersection of US 36 and Girls School Road. Three USTs (two 1,000 gallon and one 10,000 gallon) were removed from the site in October of 1990. The site is undergoing additional investigation under the VRP program. See the VRP section for additional information.

Edward C Grande Inc., 7600 Rockville Road Indianapolis, IN 46214 (AI #21205) is located on the northeast corner of Transfer Drive and US 36. An IDEM Incident Report, dated March 20, 2007, reported discovery of soil contamination in the vicinity of three former above ground storage tanks (ASTs) and was summarized in a Limited Subsurface Investigation Report, dated March 28, 2007. Residual contamination does not appear to extend into the project area. No impact is expected.

Bill's Auto Service, 6345 Rockville Road Indianapolis, IN 46214 (AI #20812) is located 0.08 mile east of Mission Drive on the south side of US 36. A UST System Closure Report was sent by Terra Environmental Corporation on March 25, 1999, documenting the removal of one 550-gallon waste oil UST. Approximately 50 cubic yards of impacted soil was removed and disposed off-site. Sidewall and base samples appear to show clean closure. No impact is expected.

Voluntary Remediation Program (VRP)/Brownfields: One (1) Voluntary Remediation Program (VRP) is located within the 0.5 mile search radius. The VRP is adjacent to the project area, located 0.27 mile west of the intersection of US 36 and Girls School Road.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) – A Final Report Phase I Environmental Site Assessment (ESA) was submitted on March 29, 2018. The site is enrolled in two (2) different VRPs. The site is enrolled in this program due to the presence of chlorinated solvents in the soil/groundwater on two (2) acres of the site which exceeds the IDEM commercial/industrial concentrations vapor intrusion screening levels. An Environmental Restrictive Covenant (ERC) was recorded on September 22, 2020 to address potential future exposure pathways; however, groundwater contaminated with chlorinated solvents extends to the northern property boundary and may impact the project area. A Phase II Environmental Site Assessment is recommended to occur before RFC. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

Leaking Underground Storage Tank (LUST) Sites: Ten (10) Leaking Underground Storage Tank Sites (LUST) are located within the 0.5 mile search radius. There are six (6) LUST Sites adjacent to the project area.

Byrd-Jones Property, 8751 Rockville Road Indianapolis, IN 46234 (AI #20889) is located on the southeast corner of Bridgeport Road and US 36. The property owner oversaw the removal of two USTs (one 550-gallon and one 1,000 gallon UST) in November of 1989 and a release from the system was noted. Per IDEM request, sampling was later completed in December of 1989, in addition to the removal of approximately 600 gallons of petroleum impacted (sheen) water. The extent of contamination does not appear to have been delineated. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Kroger Store 905, 8150 Rockville Road Indianapolis, IN 46214 (AI #25319) is located 0.14 mile east of Country Club Road and US 36. Although mapped as a LUST site, it does not appear as though the facility has had a petroleum release. No impact is expected.

Amoco Station, 7301 Rockville Road Indianapolis, IN 46214 (AI #16766) is located on the southwest corner of Girls School Road and US 36. Approximately 725 tons of petroleum impacted soil and 19,740 gallons of impacted groundwater was removed in May of 2000 during remediation activities. Residual contamination remains on and off-site (beneath US 36); however, residual contamination is below the 1994 UST Branch Guidance Manual action levels. No impact is expected.

Speedway LLC, 7169 Rockville Road Indianapolis, IN 46214 (AI #12417) is located on the southeast corner of Girls School Road and US 36. IDEM issued a No Further Action Determination Approval Pursuant to IDEM RISC Guidance letter, dated April 27, 2012, following the recording of an ERC on the deed of the property; however, residual soil and groundwater contamination remains along the northern property boundary and appears to extend beneath the US 36 right-of-way and roadway. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Crystal Flash, 6380 West Rockville Road Indianapolis, IN (AI #21226) is located on the northeast corner of Merrimac Place and US 36. IDEM issued a No Further Action Pursuant to 1994 Underground Storage Tank Branch Guidance letter, dated October 26, 2012. Residual soil and groundwater impacts remain on-site and appear to have potential to extend beneath US 36. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Speedway LLC, 5351 Rockville Road Indianapolis, IN 46214 (AI #12428) is located on the northwest corner of High School Road and US 36. IDEM issued a No Further Action Approval Pursuant to IDEM RISC Guidance letter, dated July 23, 2014, following the recording of an ERC on the deed of the property. Residual soil and groundwater contamination appears to remain on and off-site and extends beneath High School Road and has the potential to extend beneath US 36. If excavation occurs in this area, proper handling, removal, and disposal of soil/and or groundwater may be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Institutional Controls IDEM: Seven (7) Institutional Controls are located within the 0.5 mile search radius. Six (6) Institutional Controls are located adjacent to the project area. Three Institutional Controls are located at Rexnord Industries and three are located at Speedway LLC.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) located 0.27 mile west of the intersection of US 36 and Girls School Road. The ERC was recorded on September 22, 2020 by BBT Holdings 2 LLC. The ERC proposes limits the use of the property to commercial/industrial purposes. Restrictions also include no residential or agricultural use of any kind, prohibition of extraction and use of groundwater for drinking water, and new construction limited to open air structures to prevent vapor exposure unless further study is conducted. POC wells are being analyzed and tracked to make sure the plumes are not expanding. If excavation occurs in this area, it is possible that the contamination may be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Institutional Controls section (institutionalcontrols@idem.IN.gov) before RFC. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Speedway LLC, 5351 Rockville Road Indianapolis, IN 46214 (AI #12428) is located on the northwest corner of High School Road and US 36. An ERC was recorded on the deed of the property on June 24, 2014, as part of No Further Action activities. The ERC restricts the use of the property, including proper handling on impacted soil and groundwater. Coordination will be conducted with the IDEM Institutional Controls section (institutionalcontrols@idem.IN.gov) before RFC.

NPDES Facilities: Eighteen (18) NPDES Facilities are located within the 0.5 mile search radius. Ten (10) NPDES Facilities, are located adjacent/within the project area.

Tire Discounters Avon, 9073 Rockville Road Indianapolis, IN 46214 (AI #124815) is located 0.16 mile east of the intersection of S Raceway Road and US 36. Is an active permit that expires in July of 2024. Coordination with the permit holder will occur.

Fresh Thyme, 9110 Rockville Road Indianapolis, IN 46234 (AI #112249) is located 0.21 mile east of the intersection of N Raceway Road and US 36. This permit expired in October of 2020. No impact is expected.

GetGo, 8249 Rockville Road Indianapolis, IN 46214 (AI #112251) is located in the southwest quadrant of the intersection of Country Club Road and US 36. On January 26, 2018, IDEM sent an Inspection Summary Letter. The item states that no violations were discovered during the inspection. The inspection was conducted on November 16, 2017. The inspection was of three (3) USTs. IDEM notified GetGo on January 2, 2020 that there would be an inspection of the facility in the next ninety (90) days. No other documentation of the most recent inspection is available. This permit expired in July of 2020. No impact is expected.

Belle Tire, 8212 Country Village Dr., Indianapolis, IN 46234 (AI #121330) is located 0.12 mile east of the intersection of Country Club Road and US 36 – Is an active permit that expires in June of 2023. Coordination with the permit holder will occur.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) located 0.27 mile west of the intersection of US 36 and Girls School Road. A Hazardous Waste Handler Identification Form was filed on December 20, 2018 stating that the Site was a Small Quantity Generator, but no longer generated hazardous waste when the form was completed. This permit expired on October 31, 2020. For more information on the site, view RCRA Generator, Underground Storage Tank Sites, Voluntary Remediation Program/Brownfields, Institutional Controls IDEM, NPDES Pipe Location sections. No impact is expected.

Edward C Grande Inc. (Carolina Logistics Services, LLC), 7600 Rockville Road Indianapolis, IN 46214 (AI #21205) is located on the northeast corner of Transfer Drive and US 36. On March 1, 2019, a Hazardous Waste Handler Identification Form stated that the site is a large quantity generator and generated items such as bleach, flammable aerosol, hair colorant with hydrogen peroxide, light bulbs with lead, mercury, flammable aerosols, and flammable solids. See additional information on this site under UST Sites section. This permit expired in January of 2022. No impact is expected.

INDOT DES 1600627 Intersection Improvement US 36, Rockville Road & High School Rd., Indianapolis, IN 46214 (AI #126189) – Is an active permit that expires in January of 2025. Coordination with the permit holder will occur.

Furman Stout Neighborhood Drainage Improvements, S. Girls School Rd. & Rockville Rd., Indianapolis, IN 46214 (AI #124930) – Is an active permit that expires in July of 2024. Coordination with the permit holder will occur.

Speedway LLC, 7169 Rockville Road Indianapolis, IN 46214 (AI #12417) is located on the southeast corner of Girls School Road and US 36. On October 8, 2012 IDEM issued a Well Abandonment Report. The report shows a No Further Action Determination Approval from April 19, 2012. The wells were abandoned on July 19, 2012. The Monitoring Well Abandonment report was approved October 19, 2012. This permit expired on June 30, 2013. No impact is expected.

NPDES Pipe Locations: One (1) NPDES Pipe Location is located within the 0.5 mile search radius. One (1) NPDES Pipe Location is adjacent to the project area, located 0.27 mile west of the intersection of US 36 and Girls School Road.

Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) – A Final Report Phase I Environmental Site Assessment (ESA) was submitted on March 29, 2018 and August Mack Environmental, Inc. (August Mack) completed the Phase I ESA for the site. The report states that the west portion of the Site has been used for sanitary and industrial

wastewater treatment from the late 1950s to 1991. The lagoons on the property were used for processing sludge and were decommissioned in 1992 and 1993. For more information on this site, view RCRA Generator/TSD. If excavation occurs on this Site, proper handling, removal, and disposal of soil and/or groundwater may be necessary.

ECOLOGICAL INFORMATION SUMMARY

The Marion County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did indicate the presence of ETR species within the 0.5 mile search radius. 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 coordination with INDOT District Environmental personnel will be necessary, and the range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

Note: Corradino identified bat guano under the bridge during a site inspection on September 17, 2020. Corradino requested an informal consultation with USFWS on October 19, 2021. USFWS responded on December 20, 2021 stating the project does not qualify for the Indiana bat and northern long-eared bat rangewide programmatic consultation for transportation projects due to bat use of the existing structure. USFWS provided recommendations to reduce potential impacts to bat species.

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE:

RELIGIOUS FACILITIES: Westlake Church of God and Rockville Road Church of Christ are adjacent to the project area (near the intersections of US 36 and Heather Drive and US 36 and Waynecroft Avenue, respectively). Coordination with Westlake Church of God and Rockville Road Church of Christ will occur.

AIRPORTS: Although not mapped within the 0.5 mile search radius, one (1) public-use airport, Indianapolis International Airport, is located within 3.8 mile (20,000 feet) of the project area. Coordination with INDOT Aviation will occur.

RECREATIONAL FACILITIES: Cloverleaf Conservation Area is adjacent to the project area, 0.10 mile west of the intersection of US 36 and Country Club Road. Coordination with Indy Parks will occur.

PIPELINES: Two (2) pipeline segments, owned by Citizens Gas & Coke Utility and Texas Eastern Transmission Corp., cross the project area, west of the intersection of US 36 and Country Club Road and at the intersection of US 36 and the railroad. Coordination with INDOT Utilities and Railroads should occur.

RAILROAD: One (1) railroad segment, owned by CSX Transportation, crosses the project area. This railroad goes over US 36 and is 0.26 mile east of the intersection of US 36 and Country Club Road. Standard coordination will occur with INDOT Utilities and Railroads by the Project management Team on their consultant no later than the Ready for Contracts (RFC) date.

MANAGED LANDS: Cloverleaf Conservation Area is adjacent to the project area, 0.10 mile west of the intersection of US 36 and Country Club Road. Coordination with Indy Parks is recommended.

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

- One (1) NWI-Line is located within the project area, 0.12 mile west of the intersection of US 36 and Kirk Drive.
- Two (2) river/stream segments are located within the project area, 0.39 mile west of the intersection of US 36 and Kirk Drive and 0.12 mile east of the intersection of US 36 and Kirk Drive.
- Two (2) NWI-Wetlands are within the project area, 0.29 west of the intersection of US 36 and Richie Ave and 0.11 mile west of the intersection of US 36 and Country Club Road.
- One (1) lake is adjacent to the project area, 0.20 mile east of the intersection of US 36 and Raceway Road.
- The project area is located within two (2) floodplain polygons, at the intersection of US 36 and Country Club Road. (coordination only)

East Fork White Lick Creek and Shiloh Creek are listed for Impaired Biotic Communities (IBC) Concerning Impaired Biotic Communities (IBC), Best Management Practices (BMPs) will be used to avoid further degradation to the stream.

MINING/MINERAL EXPLORATION: One (1) petroleum well, which is operated by Citizens Gas & Coke Utility, is adjacent to the project area, located at the intersection of US 36 and Girls School Road. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS:

Underground Storage Tank (UST) Sites: Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) located 0.27 mile west of the intersection of US 36 and Girls School Road. Three USTs (two 1,000 gallon and one 10,000 gallon) were removed from the site in October of 1990. The site is undergoing additional investigation under the VRP program. See the VRP section for additional information.

Voluntary Remediation Program (VRP)/Brownfields: Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) – A Final Report Phase I Environmental Site Assessment (ESA) was submitted on March 29, 2018. The site is enrolled in two (2) different VRPs. The site is enrolled in this program due to the presence of chlorinated solvents in the soil/groundwater on two (2) acres of the site which exceeds the IDEM commercial/industrial concentrations vapor intrusion screening levels. An Environmental Restrictive Covenant (ERC) was recorded on September 22, 2020 to address potential future exposure pathways; however, groundwater contaminated with chlorinated solvents extends to the northern property boundary and may impact the project area. A Phase II Environmental Site Assessment is recommended to occur before RFC. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

Leaking Underground Storage Tank (LUST) Sites: Byrd-Jones Property, 8751 Rockville Road Indianapolis, IN 46234 (AI #20889) is located on the southeast corner of Bridgeport Road and US 36. The property owner oversaw the removal of two USTs (one 550-gallon and one 1,000 gallon UST) in November of 1989 and a release from the system was noted. Per IDEM request, sampling was later completed in December of 1989, in addition to the removal of approximately 600 gallons of petroleum impacted (sheen) water. The extent of contamination does not appear to have been delineated. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Speedway LLC, 7169 Rockville Road Indianapolis, IN 46214 (AI #12417) is located on the southeast corner of Girls School Road and US 36. IDEM issued a No Further Action Determination Approval Pursuant to IDEM RISC Guidance letter, dated April 27, 2012, following the recording of an ERC on the deed of the property; however, residual soil and groundwater contamination remains along the northern property boundary and appears to extend beneath the US 36 right-of-way and roadway. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be

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Speedway LLC, 5351 Rockville Road Indianapolis, IN 46214 (AI #12428) is located on the northwest corner of High School Road and US 36. IDEM issued a No Further Action Approval Pursuant to IDEM RISC Guidance letter, dated July 23, 2014, following the recording of an ERC on the deed of the property. Residual soil and groundwater contamination appears to remain on and off-site and extends beneath High School Road and has the potential to extend beneath US 36. If excavation occurs in this area, proper handling, removal, and disposal of soil/and or groundwater may be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

Institutional Controls IDEM: Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) located 0.27 mile west of the intersection of US 36 and Girls School Road. The ERC was recorded on September 22, 2020 by BBT Holdings 2 LLC. The ERC proposes limits the use of the property to commercial/industrial purposes. Restrictions also include no residential or agricultural use of any kind, prohibition of extraction and use of groundwater for drinking water, and new construction limited to open air structures to prevent vapor exposure unless further study is conducted. POC wells are being analyzed and tracked to make sure the plumes are not expanding. Coordination will be conducted with the IDEM Institutional Controls section (institutionalcontrols@idem.IN.gov) before RFC. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.

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NPDES Facilities: Tire Discounters Avon, 9073 Rockville Road Indianapolis, IN 46214 (AI #124815) is located 0.16 mile east of the intersection of S Raceway Road and US 36. Is an active permit that expires in July of 2024. Coordination with the permit holder will occur.

Belle Tire, 8212 Country Village Dr., Indianapolis, IN 46234 (AI #121330) is located 0.12 mile east of the intersection of Country Club Road and US 36 – Is an active permit that expires in June of 2023. Coordination with the permit holder will occur.

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Furman Stout Neighborhood Drainage Improvements, S. Girls School Rd. & Rockville Rd., Indianapolis, IN 46214 (AI #124930) – Is an active permit that expires in July of 2024. Coordination with the permit holder will occur.

NPDES Pipe Locations: Rexnord Industries LLC, 7601 Rockville Road Indianapolis, IN 46214 (AI #10845) – A Final Report Phase I Environmental Site Assessment (ESA) was submitted on March 29, 2018 and August Mack Environmental, Inc. (August Mack) completed the Phase I ESA for the site. The report states that the west portion of the Site has been used

for sanitary and industrial wastewater treatment from the late 1950s to 1991. The lagoons on the property were used for processing sludge and were decommissioned in 1992 and 1993. For more information on this site, view RCRA Generator/TSD. If excavation occurs on this Site, proper handling, removal, and disposal of soil and/or groundwater may be necessary.

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

INDOT Environmental Services concurrence: Nicole Fohey-Breting Digitally signed by Nicole Fohey-Breting Date: 2022.02.03 13:38:11 -05'00' (Signature)

Prepared by:
Rachel Pluckebaum
Environmental Specialist
Corradino, LLC

Graphics:

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

SITE LOCATION: YES

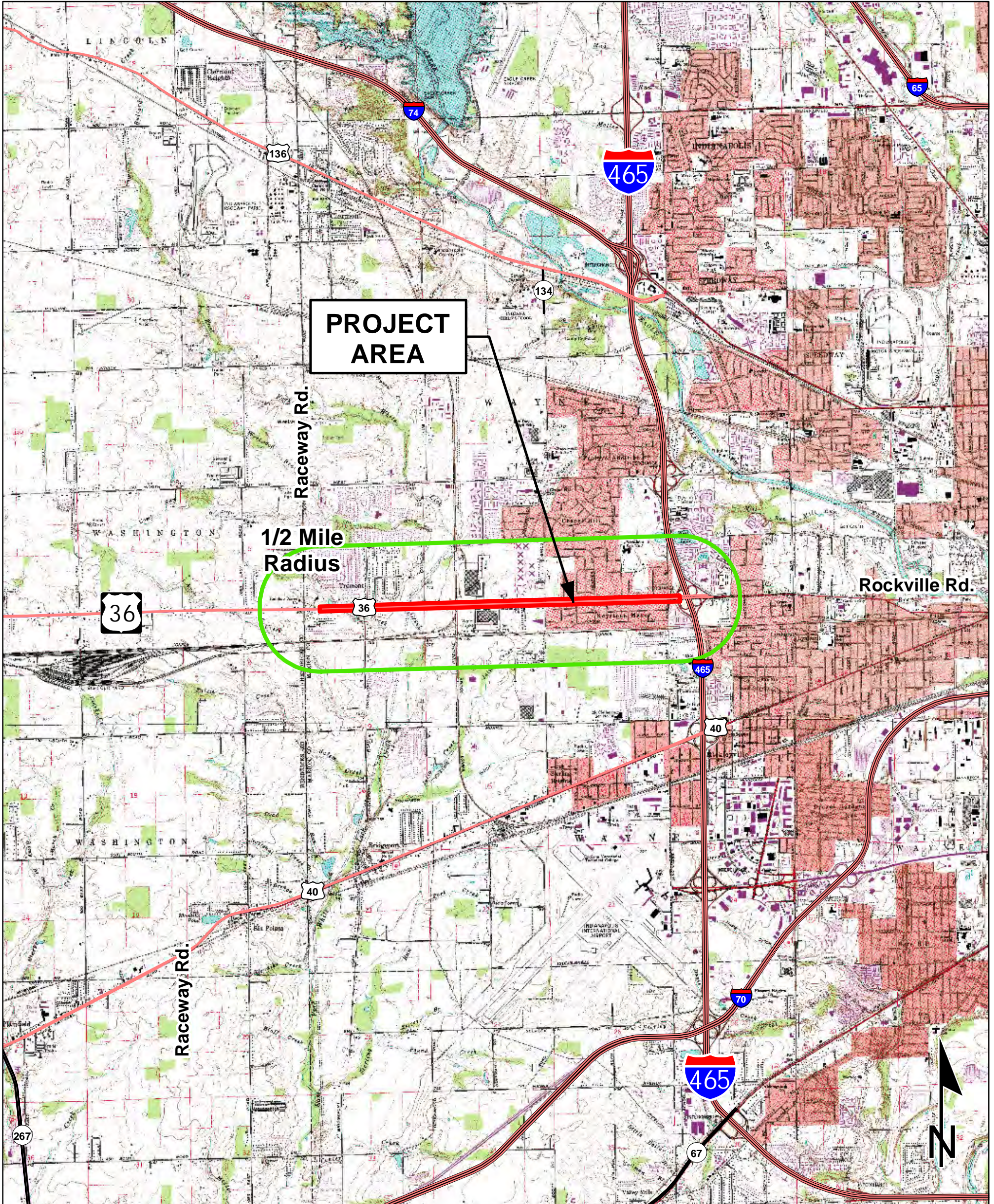
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

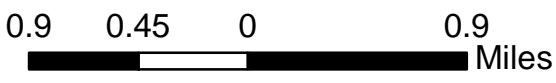
HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 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.



**CLERMONT & BRIDGEPORT
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

Red Flag Investigation - Infrastructure

Des. No. 1800035, 1800037, 1900340 & 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana

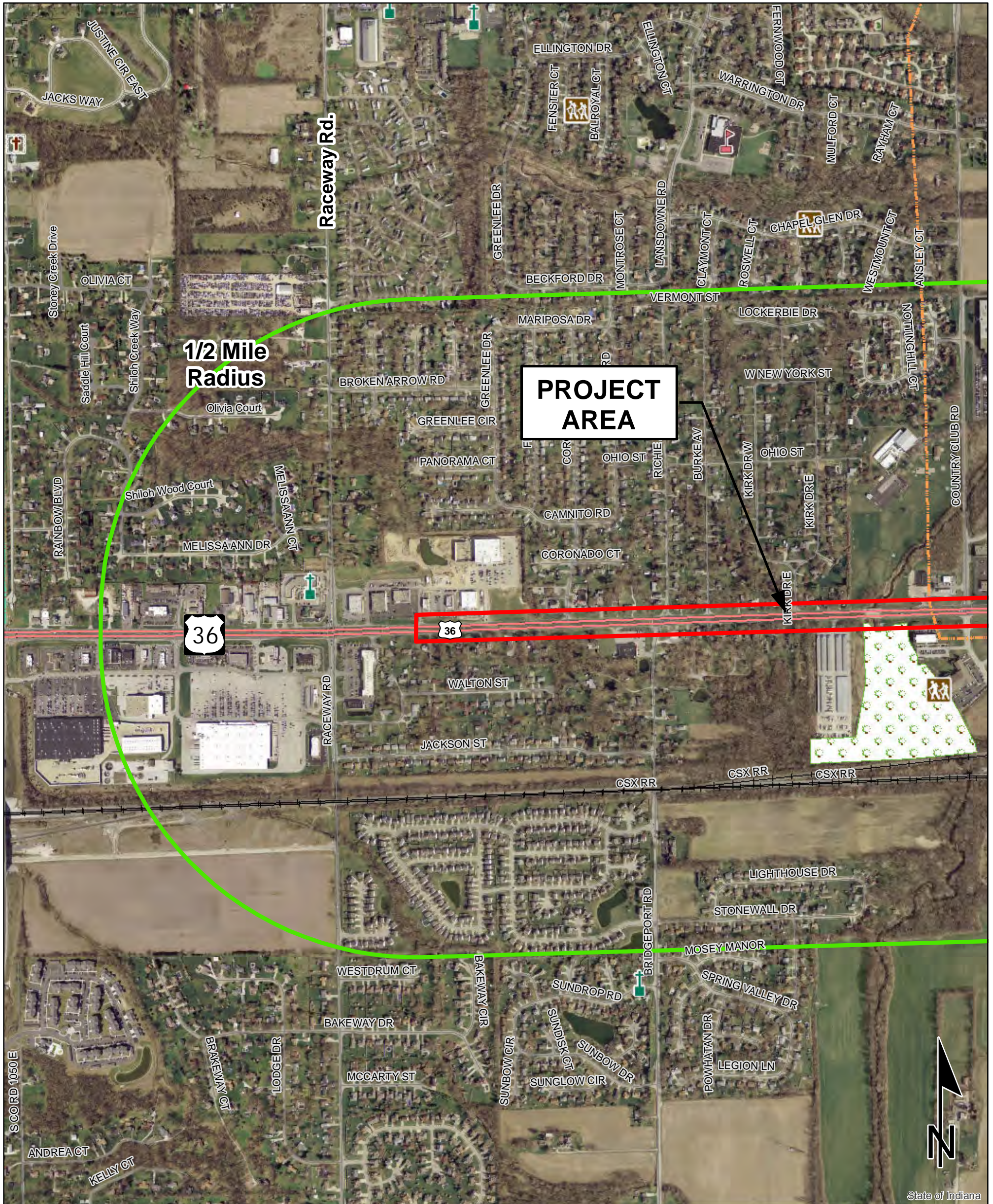


Sources:
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Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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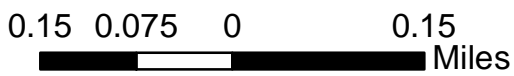
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Infrastructure (1 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana



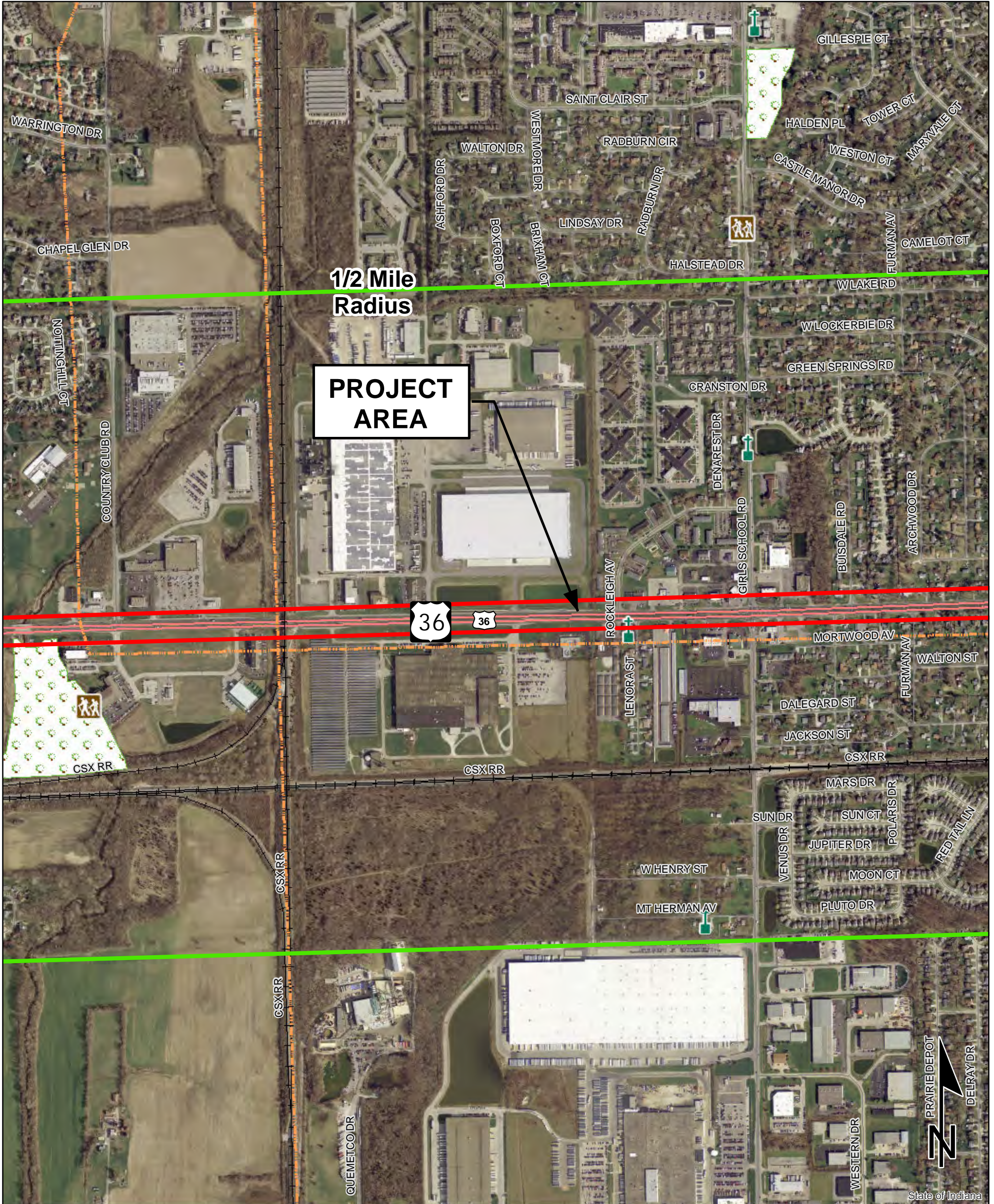
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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Infrastructure (2 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 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

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

Red Flag Investigation - Infrastructure (3 of 3)
Des. No. 1800035, 1800037, 1900340 & 1900341
Added Travel Lanes & Roadway Improvements
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.

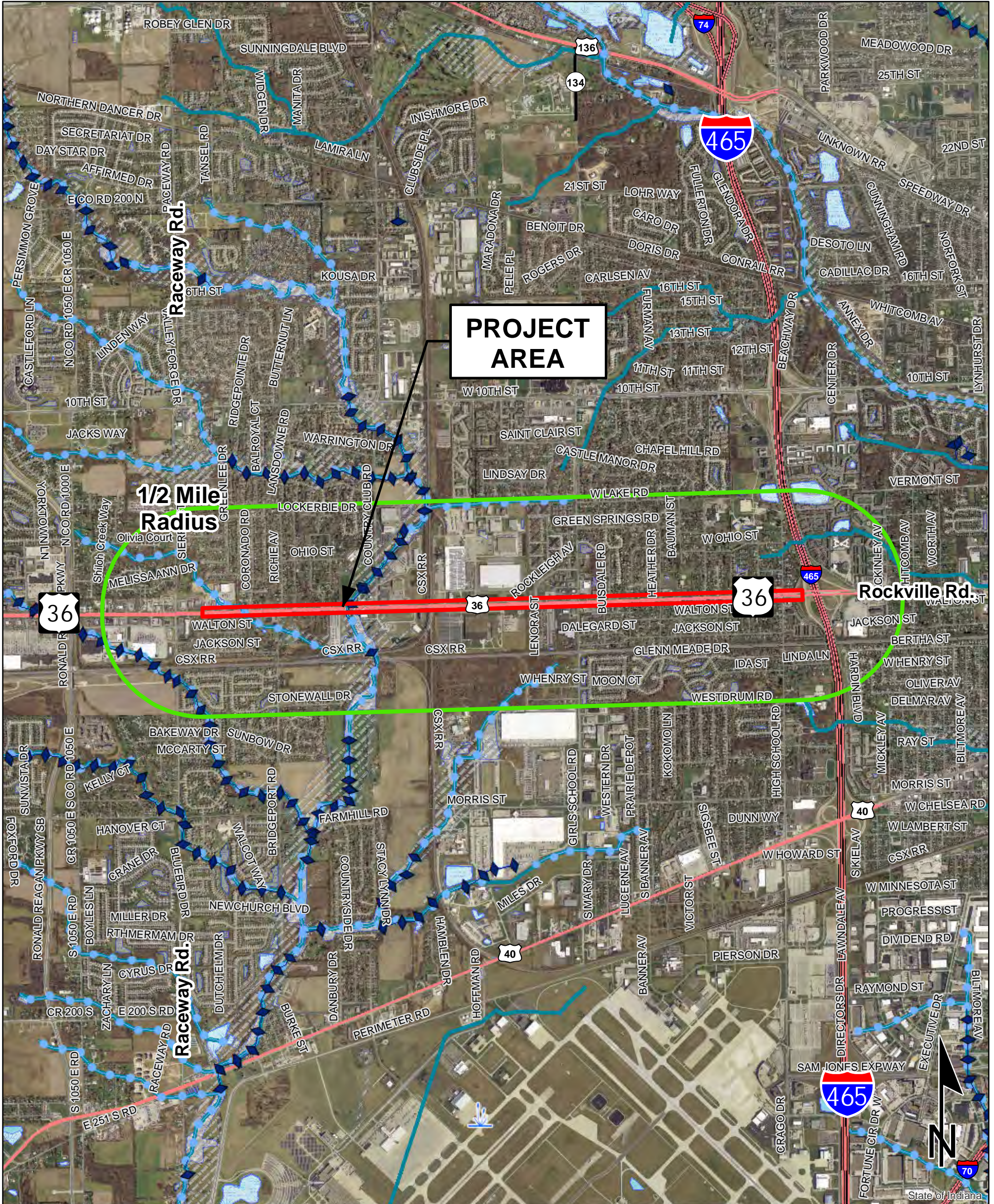
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources

Des. No. 1800035, 1800037, 1900340 & 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana

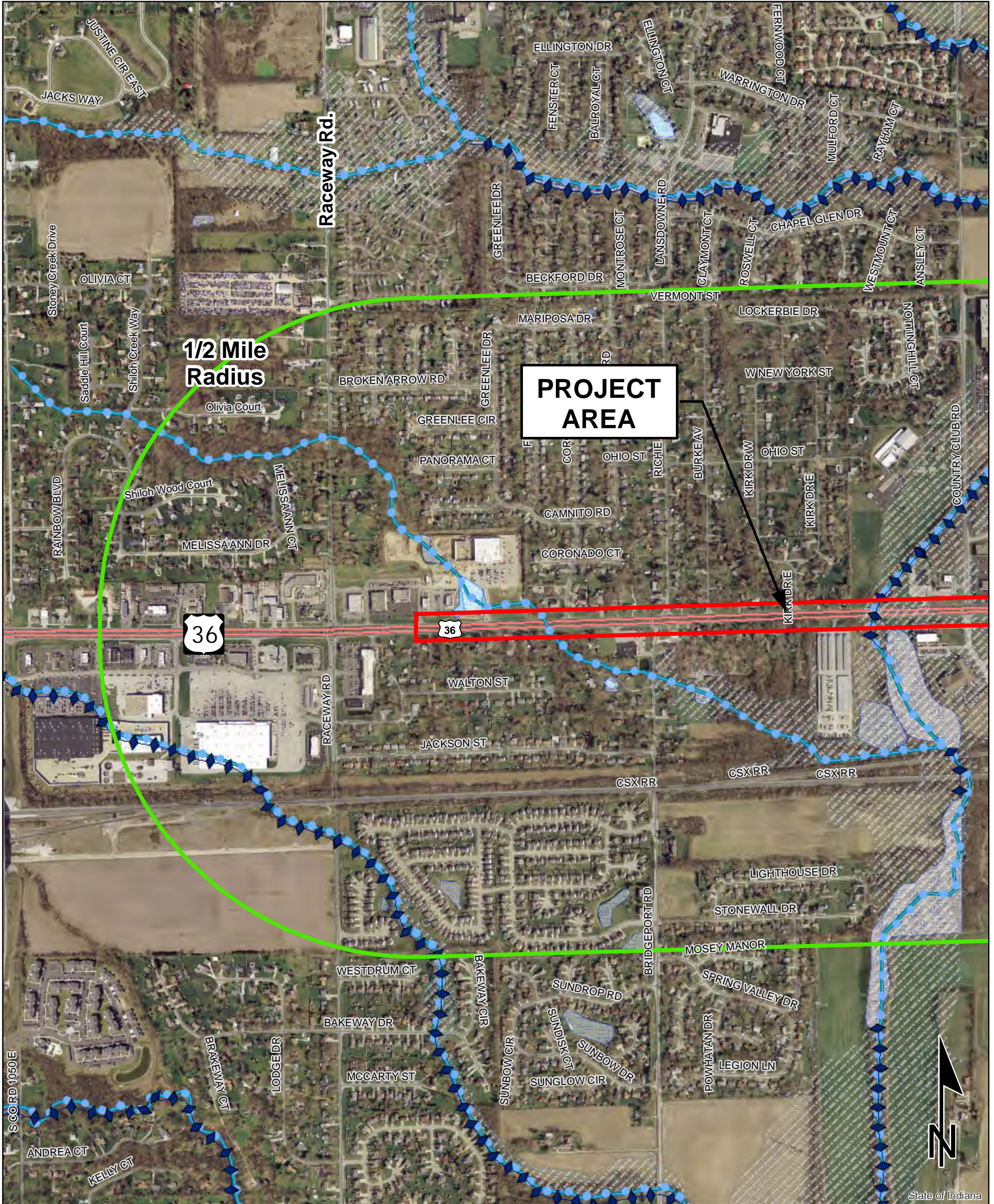


Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

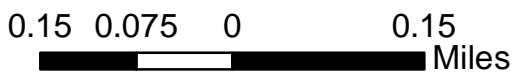
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Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local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

Red Flag Investigation - Water Resources (1 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana



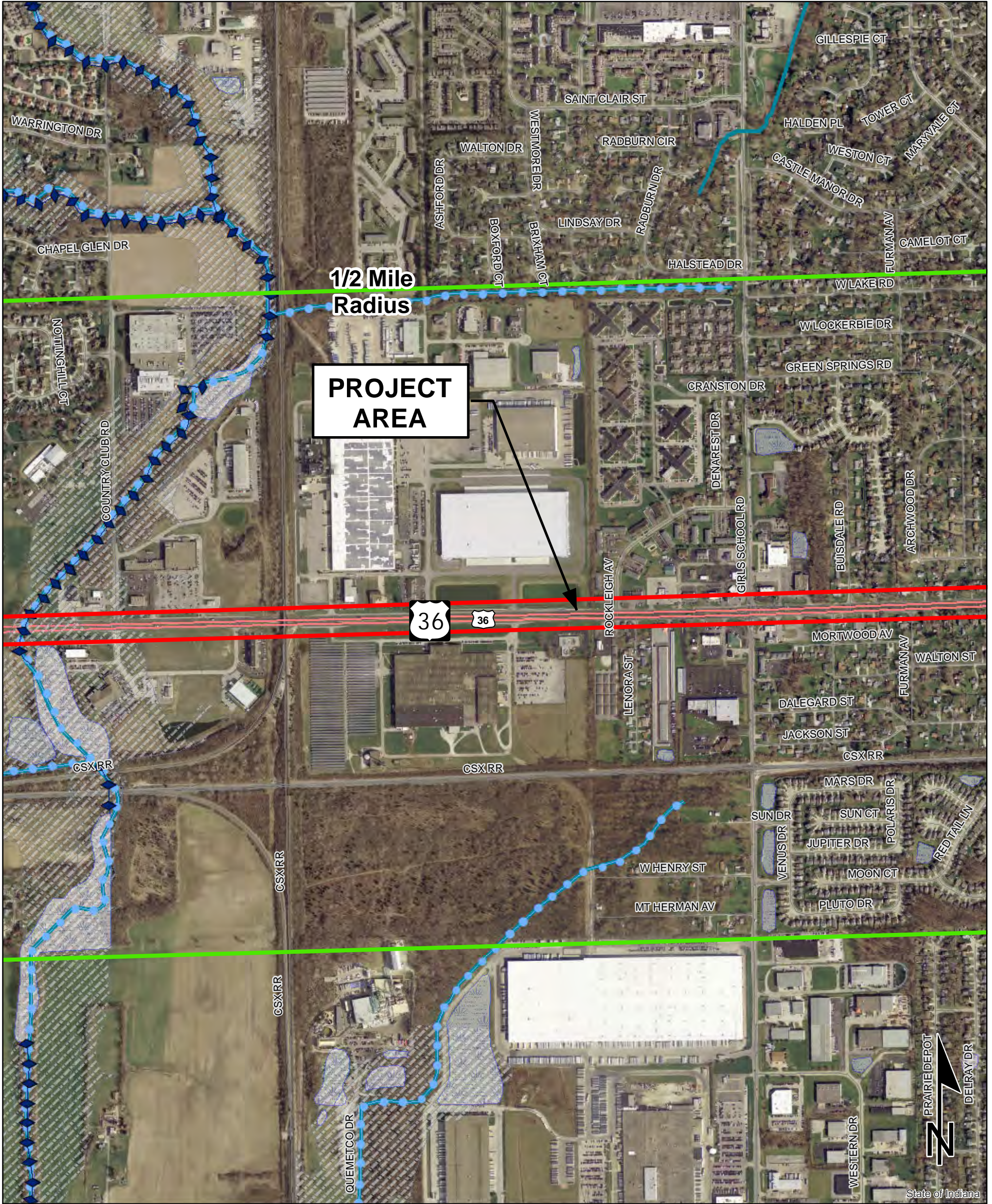
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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure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

Red Flag Investigation - Water Resources (2 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana

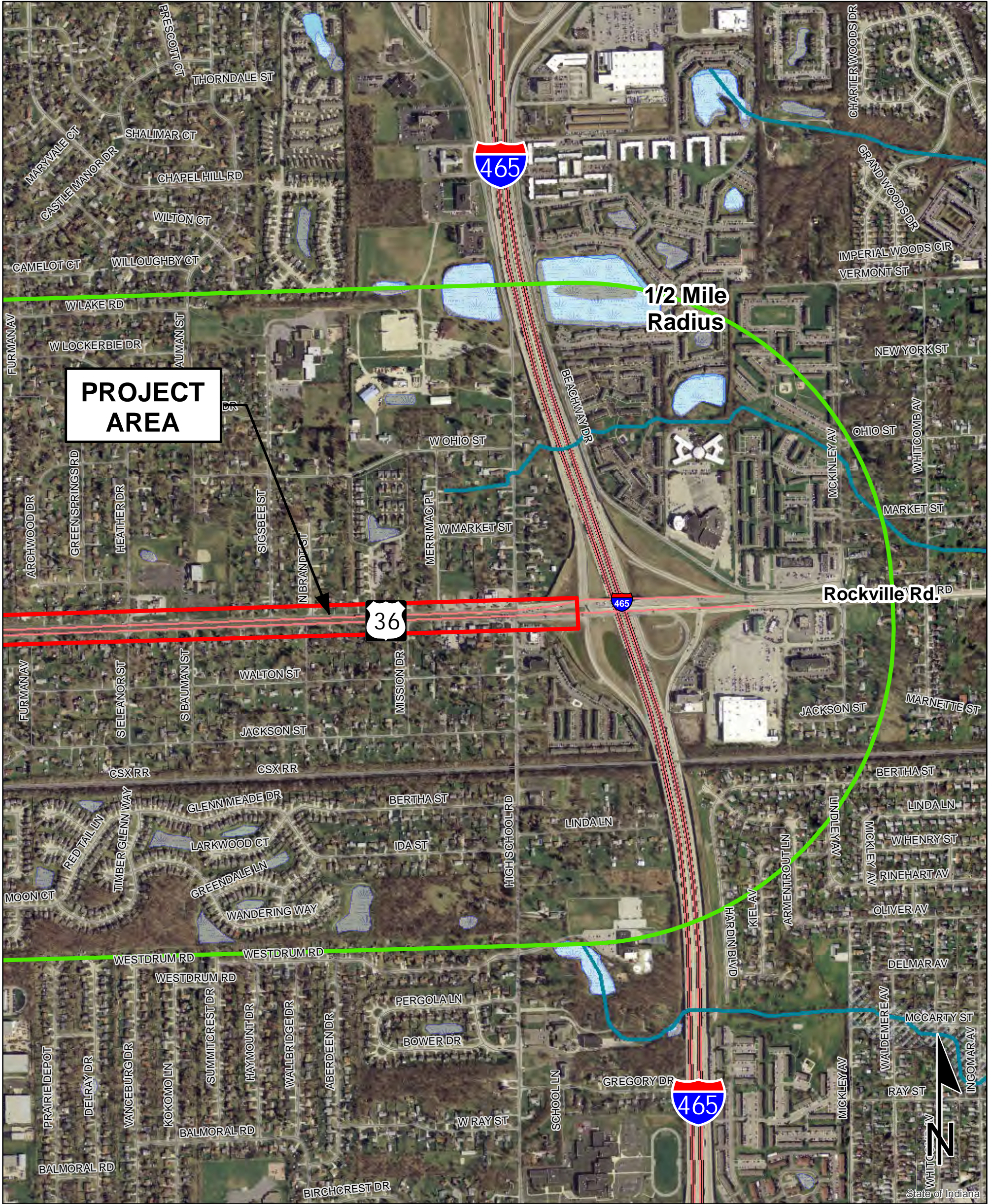


Sources:
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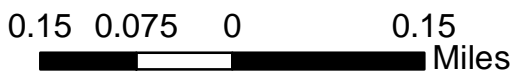
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Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local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

Red Flag Investigation - Water Resources (3 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana



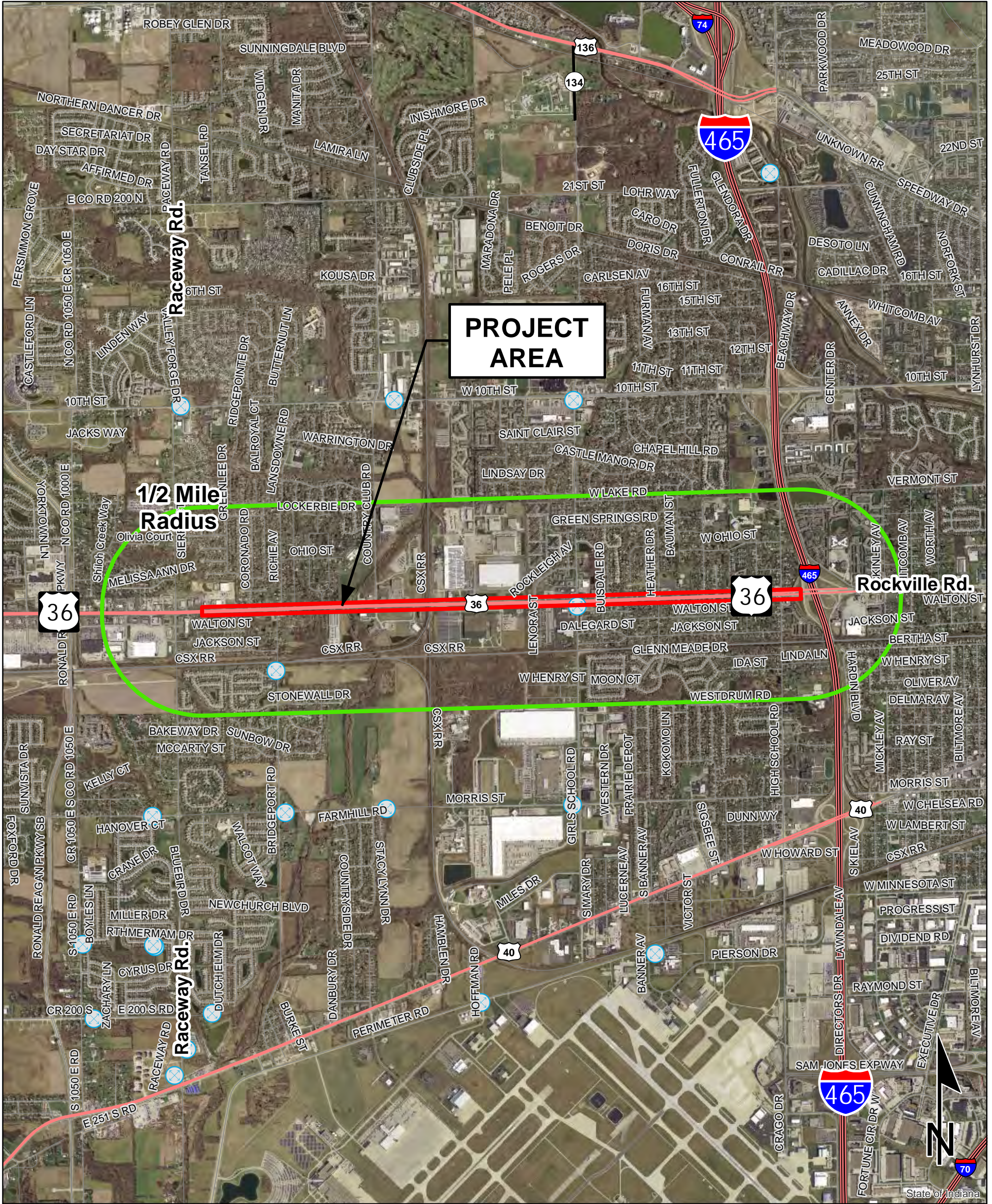
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Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

Red Flag Investigation - Mining and Mineral Des. No. 1800035, 1800037, 1900340 & 1900341 Added Travel Lanes & Roadway Improvements Marion County, Indiana



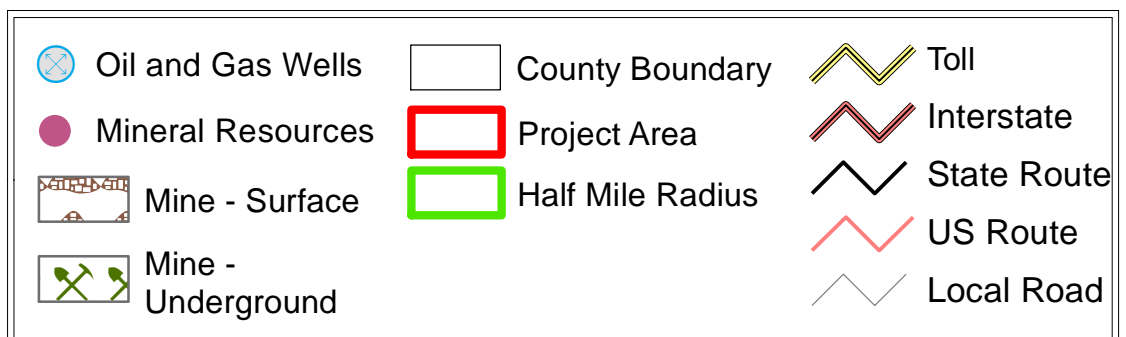
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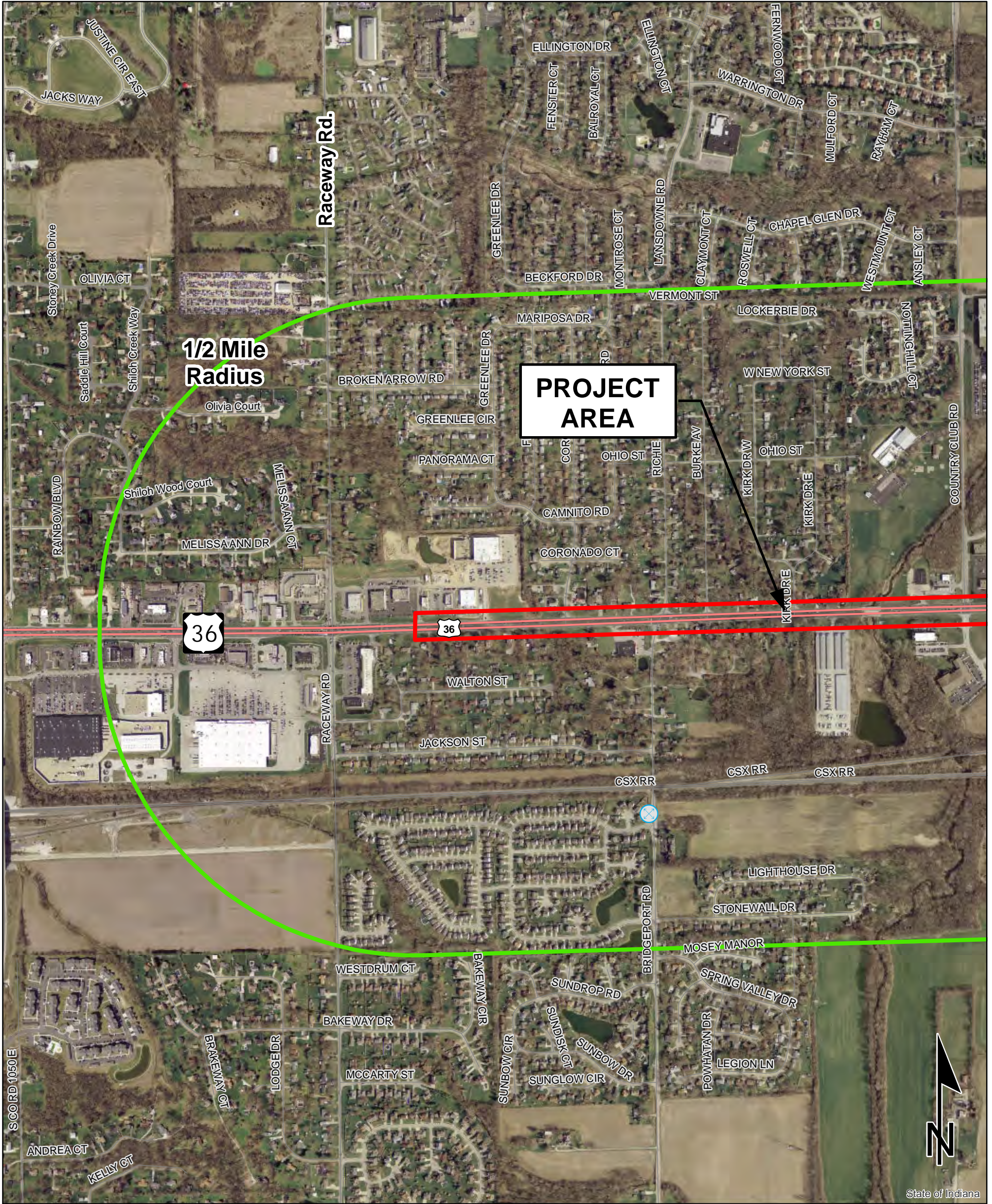
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Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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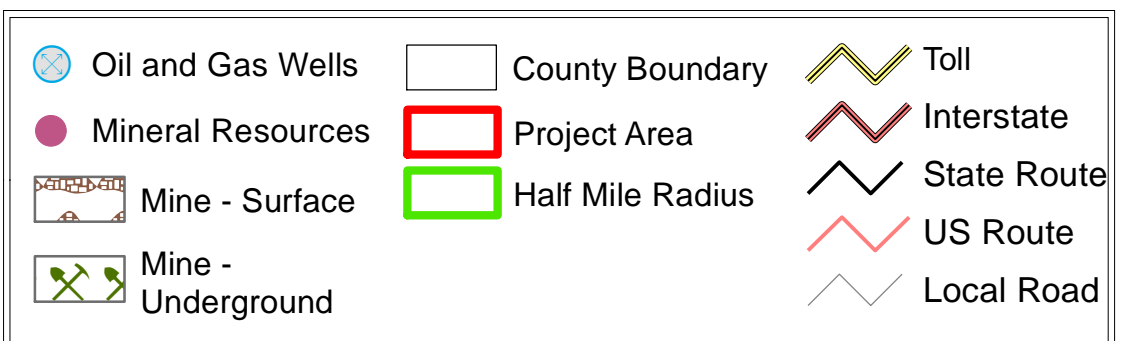


Red Flag Investigation - Mining and Mineral (1 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana

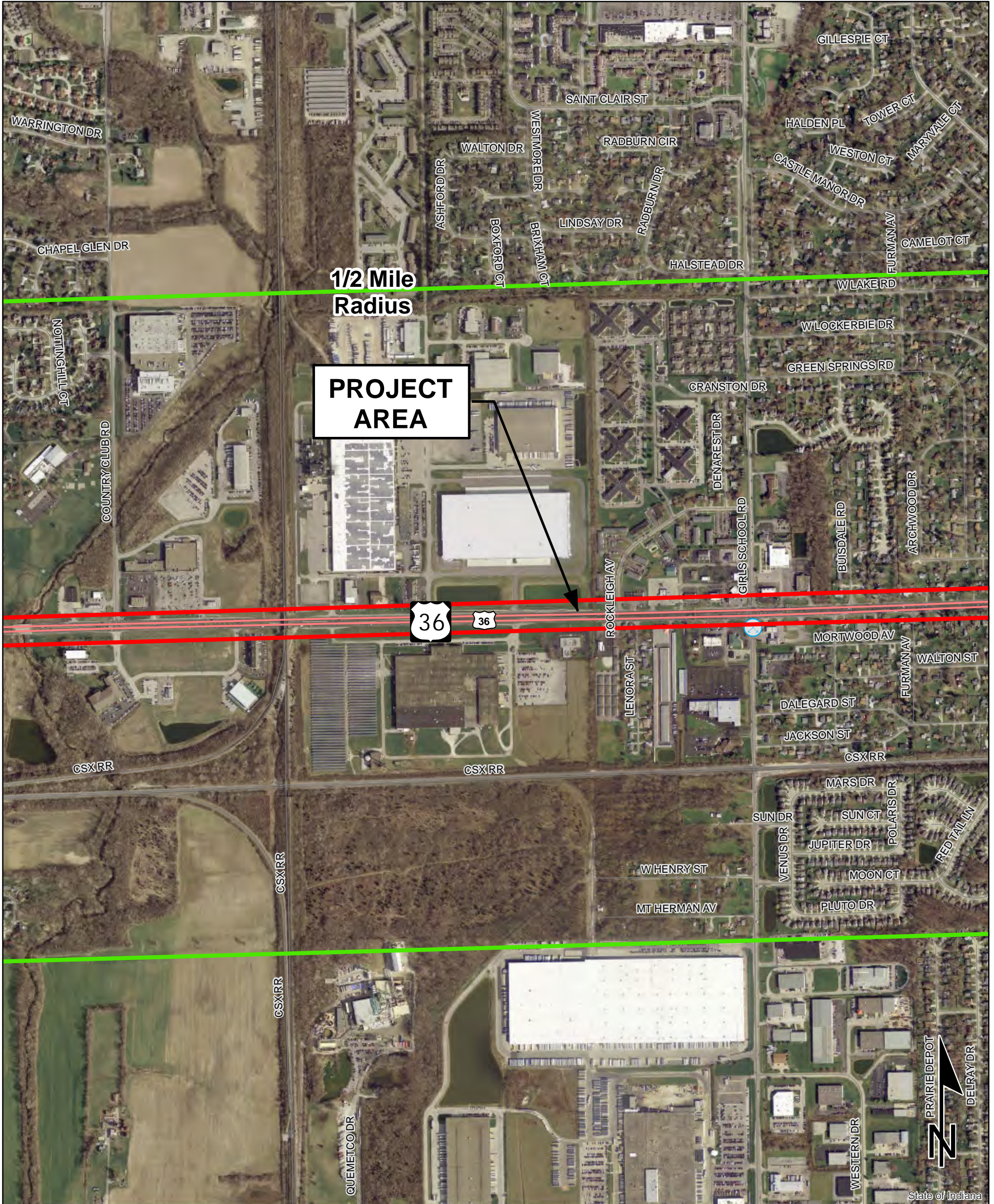


Sources:
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 Data - Obtained from the State of Indiana Geographical Information Office Library
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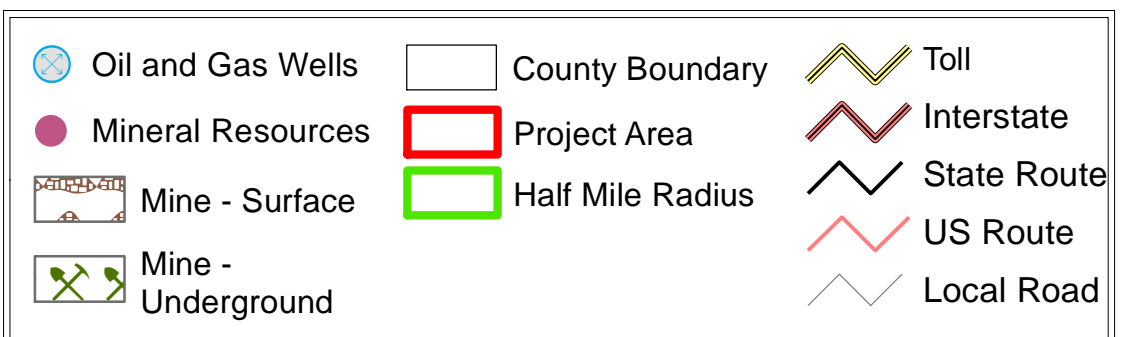


Red Flag Investigation - Mining and Mineral (2 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana

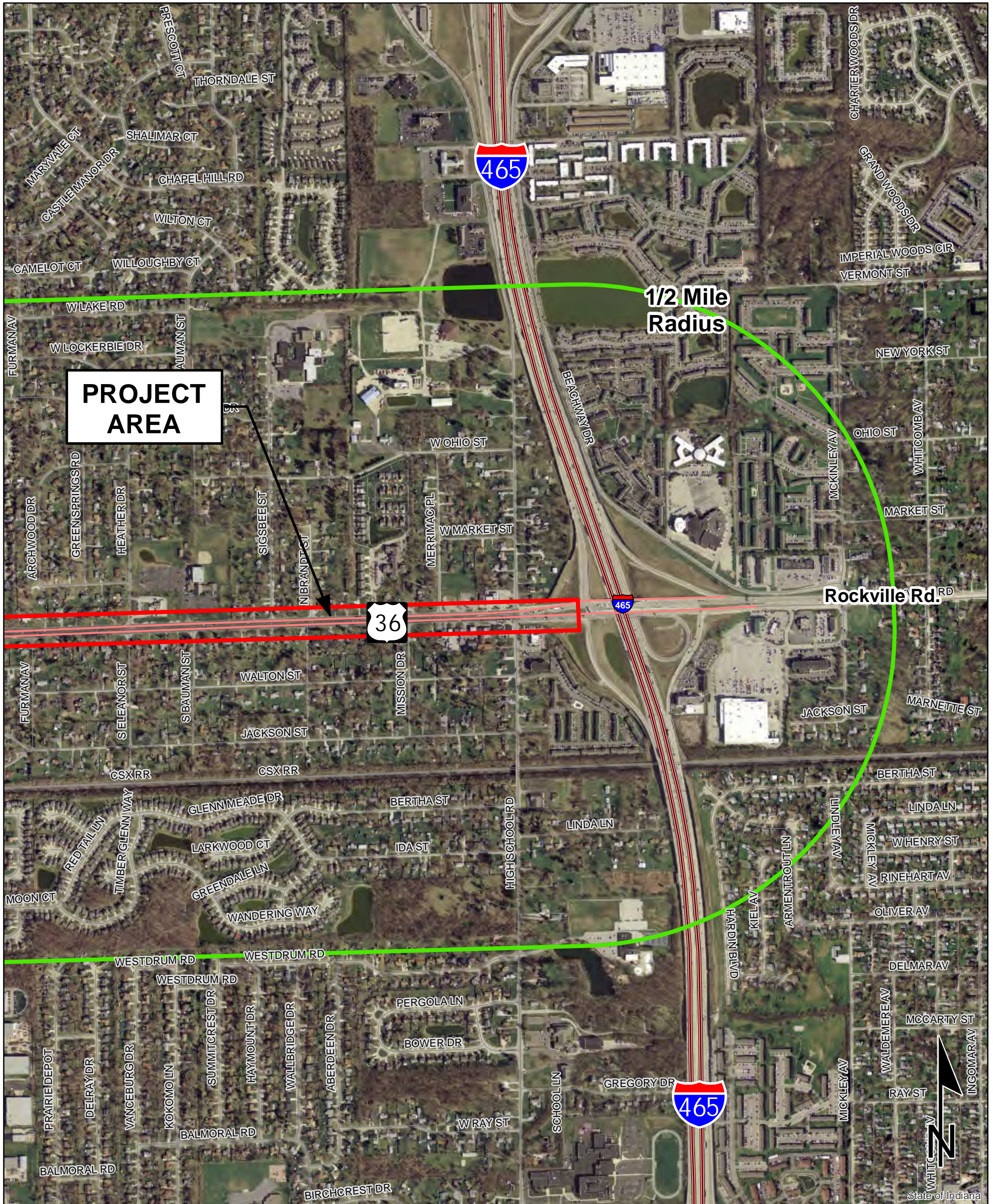


Sources:
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
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Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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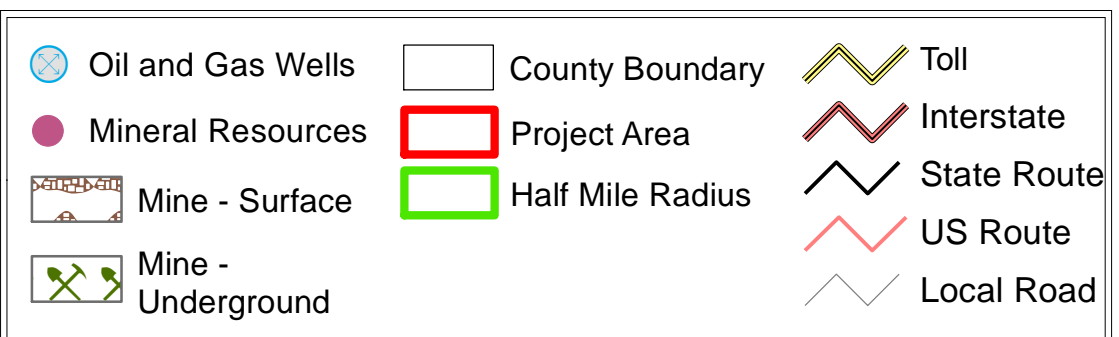


Red Flag Investigation - Mining and Mineral (3 of 3)
 Des. No. 1800035, 1800037, 1900340 & 1900341
 Added Travel Lanes & Roadway Improvements
 Marion County, Indiana



Sources: 0.15 0.075 0 0.15 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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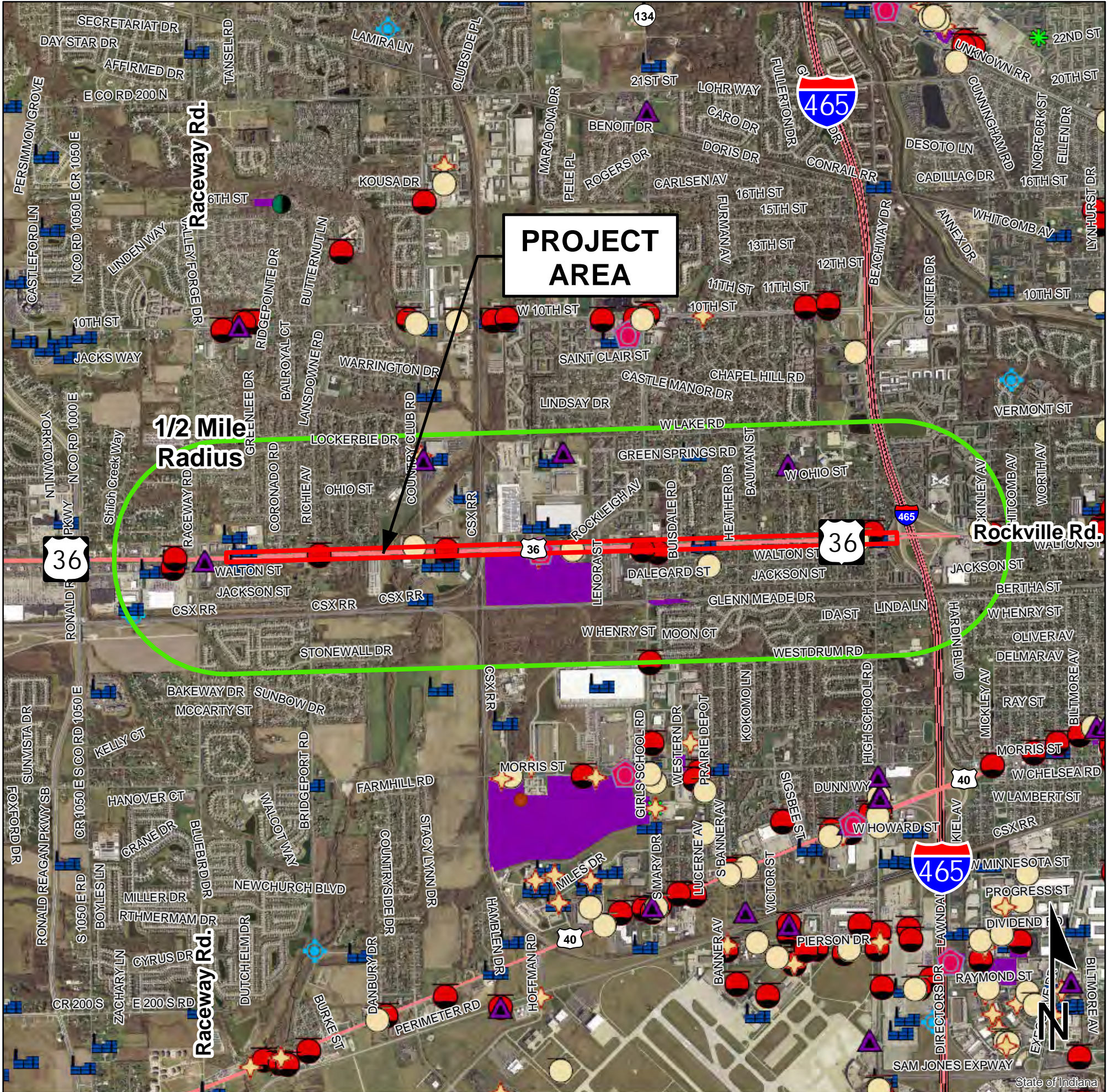


Red Flag Investigation - Hazardous Material Concerns

Des. No. 1800035 & 1800037, 1900340, 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana



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



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

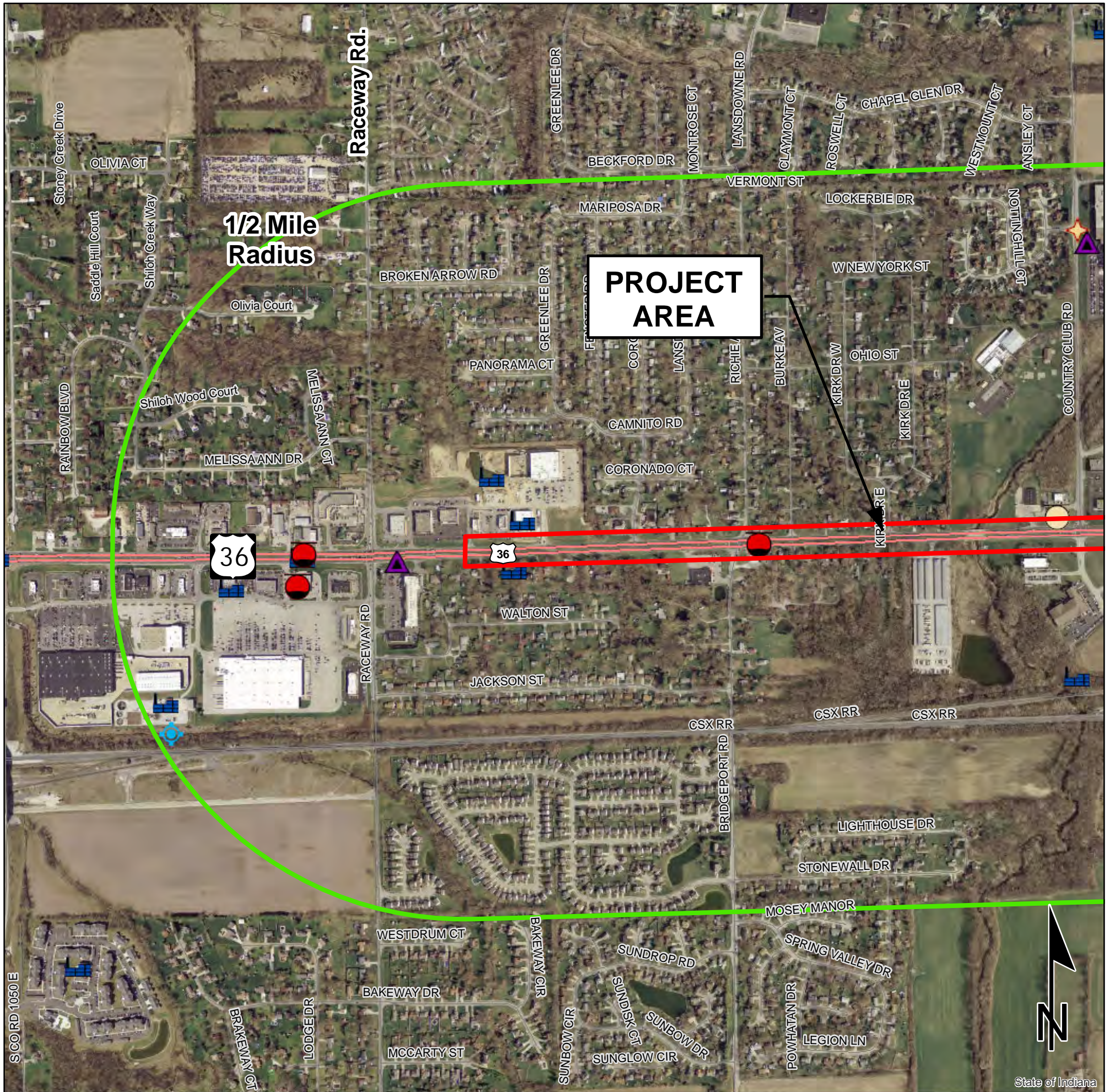
Sources:
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Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
Appendix E-28

Red Flag Investigation - Hazardous Material Concerns (1 of 3)

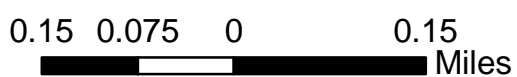
Des. No. 1800035 & 1800037, 1900340, 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana



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



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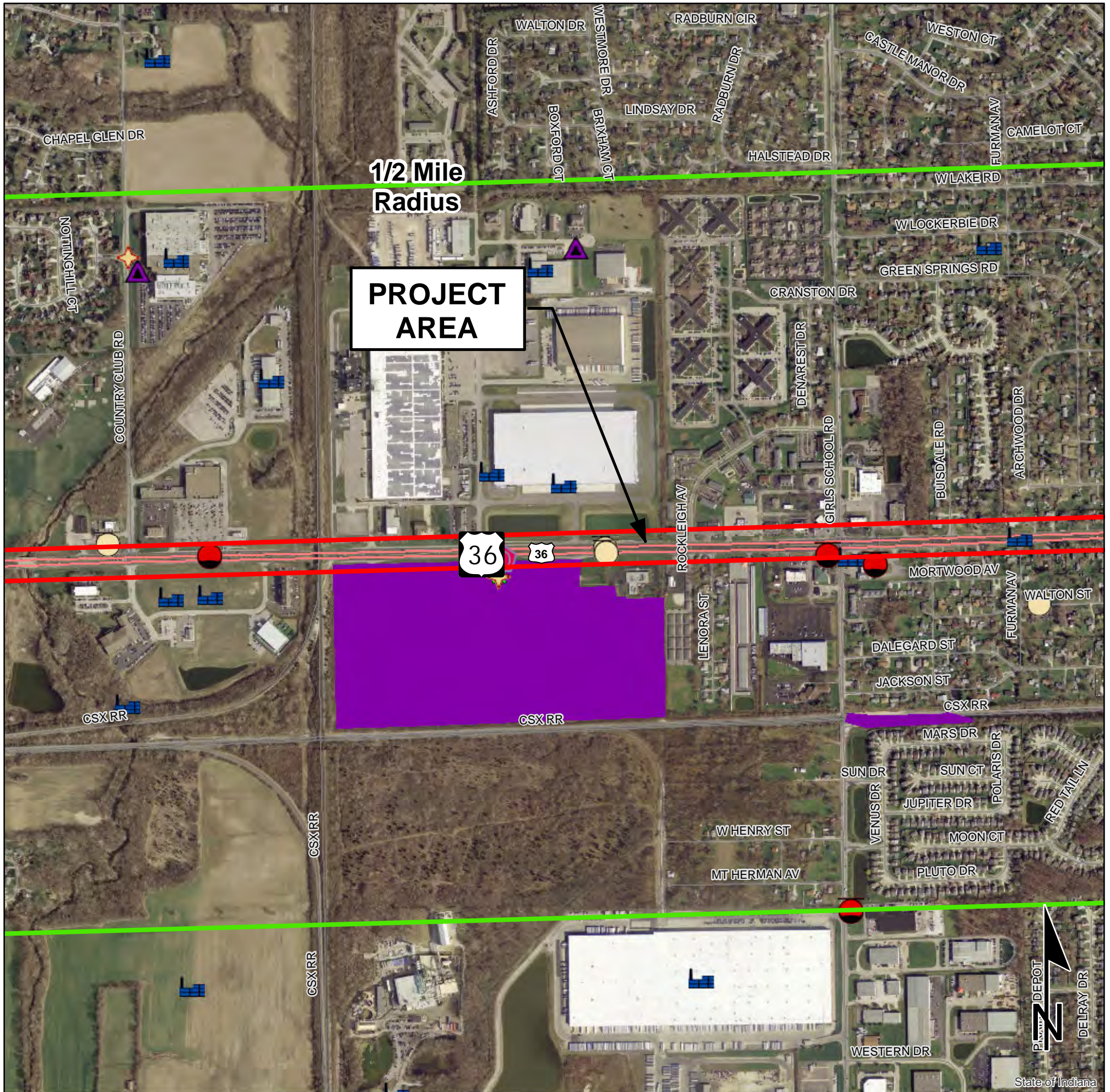
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Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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Appendix E-29

Red Flag Investigation - Hazardous Material Concerns (2 of 3)

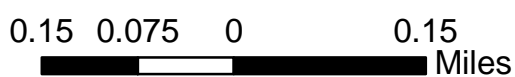
Des. No. 1800035 & 1800037, 1900340, 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana



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



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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
Appendix E-30

Red Flag Investigation - Hazardous Material Concerns (3 of 3)

Des. No. 1800035 & 1800037, 1900340, 1900341

Added Travel Lanes & Roadway Improvements

Marion County, Indiana



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

0.15 0.075 0 0.15 Miles

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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

APPENDIX F

Water Resources

DES 1800035, 1800037, 1900340, 1900341, 2002284

Jennifer Cunniff

Approved 8.23.21

Waters of the U.S. Determination

US 36 in Marion County, Indiana

Modern Rockville Road

US 36 (Rockville Road) from Raceway Road to I-465

Designation Number 1800035, 1800037, 1900340 & 1900341

Prepared by:

Kirk Roth

kroth@corradino.com

317-488-2363

Corradino, LLC

August 11, 2021

1. Project Information

Dates of Field Reconnaissance:

Field work for this report was conducted on September 17, 2020, September 18, 2020, October 7, 2020, and March 12, 2021 by Corradino, LLC. All wetland delineations were conducted on September 17, 2020 or October 7, 2020.

Project Location:

Clermont Quadrangle

Sections 1, 2, 3, 4, 9, 10, 11, 12 Township 15 North, Range 2 East

Marion County, Indiana

Coordinates: 39.764301, -86.302840 (Approximate Project Center)

Project Description: The proposed project is located on US 36, also known as Rockville Road, on the west side of Indianapolis in Marion County, Indiana. The proposed project is a 3-mile-long roadway project that spans from the western terminus located approximately 0.15 mile (800 ft) east of the Raceway Road intersection and extends to the east along US 36 to the eastern terminus at the I-465 southbound ramps intersection. The proposed project will include roadway and intersection improvements, pedestrian sidewalks, multi-use path, roadway curbs and curb ramps, bridge widening, and drainage improvement as well as possible lighting structures. The improvements have been separated into the following four (4) Designation Numbers (Des. No.):

Des. No. 1800035: Roadway Improvements from 0.15-mile (800 feet) east of Raceway Road to Transfer Drive in Marion County.

Des. No. 1800037: Roadway improvements from Transfer Drive east to I-465 southbound ramps in Marion County.

Des. No. 1900340: Bridge widening for US 36 (Rockville Road) eastbound over East Fork of White Lick Creek (and within the span of the Des. No. 1800035 roadway improvements).

Des. No. 1900341: Bridge widening for US 36 (Rockville Road) westbound over East Fork of White Lick Creek (and within the span of the Des. No. 1800035 roadway improvements).

Roadway: Within the Des. No. listed above; the project has two (2) Roadway Alternatives under consideration as of the date of this document.

Added Travel Lanes (ATL) Alternative - would provide a third travel lane in each direction throughout the corridor with raised medians that would narrow at each intersection to allow for the left-turn lanes at all signalized intersections.

An additional turn lane will be provided on the north approach for both Country Club Road and High School Road. This alternative would extend the pavement on US 36 from 84 feet wide to 85 feet. The alternative would widen the bridge over East Fork of White Lick Creek and add sidewalk and possible lighting along the project corridor. The existing paved shoulders on both sides of US 36 that would be milled and overlaid. The depth of milling will be determined during the pavement design process.

Displaced Left-Turn Intersections (DLTI) Alternative would provide displaced left turn intersections at Country Club Road, Girls School Road, and High School Road. All other signalized intersections would be designed as traditional intersections with left turn lanes.

An additional turn lane would be provided on the north approach for both Country Club Road and High School Road. The alternative would widen the bridge over East Fork of White Lick Creek and add sidewalk and possible lighting along the project corridor.

Both Roadway Alternatives would convert the existing two-way left-turn-lane (TWLTL) into a median, separated from the travel lanes by a raised curb, and include removal of the existing paved shoulders on both sides of US 36 that would be milled and overlaid. The depth of milling will be determined during the pavement design process.

Additional locations of left-turn lanes are being considered throughout the corridor and would be recommended based on traffic analysis and public comments. Inclusion of lighting structures are also under consideration for either Roadway Alternative.

Bridges: Both of the bridges consist of two (2) 12-foot travel lanes and a 10-foot shoulder. The bridges would be widened along the exterior fascia, lanes will be configured to match either of the Roadway Alternatives, and include one of the Sidewalk Alternatives.

Drainage: Both Roadway Alternatives would collect and transport drainage through replacement of existing roadway curbs, curb inlets and a storm water trunk line. The addition of impervious surface areas as part of the project would require the use of in-line detention given the heavily urbanized nature of the corridor.

Sidewalk: Both Roadway Alternatives would include a 6-foot-wide sidewalk adjacent to the southside of the US 36 roadway. Three Sidewalk Alternatives are being considered along the northern side of US 36 including 1) a 6-foot wide sidewalk adjacent to the roadway, 2) 5-foot-wide sidewalk with a 5-foot grass buffer, and 3) a 10-foot-wide multi-use path with a 5-foot grass buffer. Some areas along the corridor have sidewalk and would receive updated improvements to the sidewalk to match the other sidewalk improvements. American Disability Act (ADA) compliant curb ramps would be included throughout the project for each of these alternatives.

2. Desktop Reconnaissance

Soils

According to the Soil Survey Geographic (SSURGO) Database for Marion County, Indiana, the project area does contain soil areas with nationally listed hydric soils. The soils within the project area are summarized in the table below.

Soil	Abbreviation	Hydric %	Location within Project Area
Crosby silt loam, fine-loamy subsoil	CrA	2	Central
Udorthents, cut and filled	Ua	3	Entire Project Area
Urban land-Brookston complex	UbaA	40	Central
Urban land-Crosby silt loam complex, fine-loamy subsoil	UcfA	5	Central
Urban land-Miami silt loam complex	UkbB2	3	Central
Urban land-Shoals silt loam complex	UshAH	3	Western and Central
Brookston silty clay loam-Urban land complex	YbvA	65	Entire Project Area
Crosby silt loam, fine-loamy subsoil-Urban land complex	YclA	5	Entire Project Area
Crosby-Urban land-Miami silt loams complex	YcmB2	5	Western and Eastern
Miami silt loam-Urban land complex	YmsB2	5	Western and Eastern
Miami silt loam-Urban land complex	YmsC2	5	Western
Shoals silt loam-Urban land complex	YshAH	5	Western and Central
Sloan silt loam-Urban land complex	YsmAH	70	Western

National Wetland Inventory Information

Wetland/Water Feature Name	Location from Project	Distance from Raceway Road
East Fork White Lick Creek (R5UBH)	Project Area	0.84 mile east
Shiloh Creek (R4SBC)	Project Area	0.34 mile east
PFO1A (East Fork White Lick Creek)	0.02 mile south	0.88 mile east
PUBGh	0.02 mile north	0.21 mile east
R4SBC (Shiloh Creek)	0.02 mile north	0.23 mile east
R5UBH (Shiloh Creek)	0.06 mile north	0.20 mile east
R4SBC (Shiloh Creek)	0.13 mile north	0.14 mile east
PUBGh	0.08 mile south	0.43 mile east
PUBGh	0.10 mile south	0.58 mile east
PUBGx	0.13 mile south	0.83 mile east
PFO1A	0.09 mile north	0.92 mile east
PUBGx	0.21 mile south	1.86 miles east
PUBGx	0.10 mile north	2.08 miles east
PEM1C	0.10 mile north	2.44 miles east
PUBGx	0.11 mile north	2.79 miles east
R4SBC (Lynn Creek)	0.19 mile north	2.92 miles east

National Hydrography Dataset Information

12-digit Hydrologic Unit – 051202011308 west of Bauman Street; 051202011110 east of Bauman Street

Reach Code	Flowline Type	Location
05120201126410 ^A (Shiloh Creek)	Connector	Shiloh Creek, extending northwest/ southeast
05120201131117 ^A	Pipeline	30 feet south of US 36, extending west from Shiloh Creek
05120201130929 ^A (UNT2 to Shiloh Creek)	Pipeline	Project area, extending north/south 120 feet west of Burke Avenue
05120201130940 ^B	Pipeline	20 feet north of US 36, extending west from East Fork White Lick Creek
05120201130938 ^B	Pipeline	20 feet north of US 36, extending west from 05120201130940 at 30 feet west of Kirk Drive
05120201128939 ^B (RSD1)	Canal/Ditch	20 feet north of US 36, extending north from 05120201130940 at 30 feet west of Kirk Drive
05120201125001 ^B (East Fork White Lick Creek)	Stream/River	East Fork White Lick Creek, extending north/south
05120201128953 ^B (Wetland 1)	Canal/Ditch	35 feet north of US 36, extending east from East Fork White Lick Creek
05120201131142 ^B	Pipeline	35 feet north of US 36, extending east from 05120201128953 at 240 feet west of Country Village Drive
05120201131138 ^B	Pipeline	30 feet north of US 36, extending north from 05120201131142 at 80 feet east of CSX railroad
05120201131153 ^B	Pipeline	30 feet north of US 36, extending east from 05120201131142 at 80 feet east of CSX railroad
05120201138540 ^B	Unclassified Drainage	30 feet north of US 36, extending east from 05120201131153 at 220 feet west of Transfer Drive
05120201138452 ^B	Unclassified Drainage	Project area, extending south from 05120201138540 at 60 feet east of Transfer Drive
05120201138538 ^B	Unclassified Drainage	65 feet north of US 36, extending east from 05120201138540 at 60 feet east of Transfer Drive
05120201128837 ^B (UNT to East Fork White Lick Creek)	Canal/Ditch	150 feet north of US 36, extending north from 0512020113081 at 185 feet west of Rockleigh Avenue
05120201130981 ^B	Pipeline	150 feet north of US 36, extending east from 05120201128837 at 180 feet west of Rockleigh Avenue
05120201129156 ^C (JAR1 & RSD6)	Canal/Ditch	30 feet south of US 36, extending south and east from 55 feet east of Girls School Road
05120201129157 ^C	Canal/Ditch	30 feet south of US 36, extending east from 05120201129156 at 20 feet west of Waynecroft Street
05120201129158 ^C	Canal/Ditch	30 feet south of US 36, extending south from 05120201129156 at 20 feet west of Waynecroft Street
05120201131011 ^C	Pipeline	30 feet south of US 36, extending south from 05120201129157 at 260 feet west of Waynecroft Street
05120201112725 ^D (Wetland 2)	Connector	Project area, extending north and south at 400 feet west of I-465
05120201100435 ^D (Open Water 2)	Artificial Path	150 feet south of US 36, extending south from 05120201112725

A- Shiloh Creek complex

B- East Fork White Lick Creek complex

C- Julia Creek complex

D- Lynn Creek complex

Attached Documents:

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

3. Field Reconnaissance

Site reconnaissance was conducted on September 17, 2020, September 18, 2020, October 7, 2020, and March 12, 2021 by Corradino, LLC.

Stream Analysis

Shiloh Creek

The project crosses the intermittent Shiloh Creek approximately 0.32 mile east of Raceway Road. A corrugated metal pipe culvert is under US 36 at Shiloh Creek. Shiloh Creek encounters East Fork White Lick Creek, then White Lick Creek and eventually the navigable White River. Shiloh Creek flows southeast through the project area and drains the surrounding riparian and commercial area. During the site inspection, shallow flowing water was present, as well as an Ordinary High Water Mark (OHWM). Stream quality is considered average due to natural structure including run/riffle complexes, but shallow water and presence of pollutants. The OHWM was approximately 9 feet wide and 0.75 feet deep at a location approximately 12 feet upstream of the structure. The drainage area of Shiloh Creek was shown to be 0.836 square mile by the StreamStats website (<https://streamstats.usgs.gov/ss/>). Approximately 240 linear feet of Shiloh Creek occur within the investigative area.

Shiloh Creek exhibited a well-defined bed and bank. All banks of Shiloh Creek were steep and there were no wetland hydrology characteristics above the OHWM. Wetland plants such as *Bidens* sp., were not numerous and only dominant below the OHWM. Above the OHWM, upland plants such as *Solidago canadensis* were dominant. Wetland characteristics did not extend beyond the OHWM of Shiloh Creek. For the purposes of this report, any wetland characteristics in this area are considered a feature of Shiloh Creek and not a separate feature. Water flow was noted during the September 17, 2020 site inspection. Shiloh Creek is a USGS blue line stream and listed as a connector in the USGS National Hydrography Dataset.

It is likely that Shiloh Creek is a Water of the U.S. due to its apparent connectivity with the navigable White River.

UNT1 to Shiloh Creek

An unnamed ephemeral tributary (UNT) to Shiloh Creek encounters Shiloh Creek approximately 40 feet north (upstream) of the Shiloh Creek culvert. This tributary will be referred to as UNT1 to Shiloh Creek in this document. UNT1 to Shiloh Creek encounters Shiloh Creek, then East Fork White Lick Creek, White Lick Creek and eventually the navigable White River. UNT1 Shiloh Creek flows northeast through the

project area and drains the riparian area of Shiloh Creek. At its west end UNT1 to Shiloh Creek has a pipe extending underground along US 36, extending west for at least 300 feet. During the site inspection, shallow flowing water was present, as well as an OHWM. Stream quality is considered average due to a small riffle/pool complex and presence of aquatic biota (small fish), but very small size. The OHWM was approximately 2 feet wide and 1 foot deep at a location approximately 20 feet upstream of the juncture with Shiloh Creek. The drainage is too small to be mapped using the StreamStats website but its drainage area is included in the 0.836 square mile basin of Shiloh Creek. Approximately 14 linear feet of UNT1 to Shiloh Creek occur within the investigative area.

UNT1 to Shiloh Creek exhibited a well-defined bed and bank. All banks of UNT1 to Shiloh Creek were steep and there were no wetland hydrology characteristics above the OHWM. There was no hydrophytic vegetation below the OHWM and upland plants such as *Solidago canadensis* were dominant above the OHWM. For the purposes of this report, any wetland characteristics are considered a feature of UNT1 to Shiloh Creek and not a separate feature. Sluggish water flow was noted during the September 17, 2020 site inspection. UNT1 to Shiloh Creek is not a USGS blue line stream and is not listed in the USGS National Hydrography Dataset.

INDOT acknowledges that UNT1 to Shiloh Creek would likely not meet the definition of a Waters of the US because it is ephemeral. However, INDOT is requesting that the USACE take jurisdiction of the stream.

UNT2 to Shiloh Creek

An ephemeral UNT to Shiloh Creek occurs within the project area approximately 120 feet west of Burke Avenue and flows under US 36 through a reinforced concrete pipe culvert. This tributary will be referred to as UNT2 to Shiloh Creek in this document. UNT2 to Shiloh Creek encounters Shiloh Creek approximately 0.1 mile south of the project area. UNT2 to Shiloh Creek encounters Shiloh Creek, then East Fork White Lick Creek, White Lick Creek and eventually the navigable White River. UNT2 Shiloh Creek flows south through the project area and drains the surrounding residential area. During the site inspection, no water was present but a clear OHWM was observed. Stream quality is considered poor due to the highly modified nature of the ditch, extensive invasive vegetation, and lack of habitat structure such as riffle/run complexes. The OHWM was approximately 4 feet wide and 0.5 foot deep at a location approximately 35 feet downstream of the structure. The drainage is too small to be mapped using the StreamStats website. Approximately 160 linear feet of UNT2 to Shiloh Creek occur within the investigative area.

UNT2 to Shiloh Creek exhibited a well-defined bed and bank. All banks of UNT2 to Shiloh Creek were steep and there were no wetland hydrology characteristics above the OHWM. Wetland plants such as *Polygonum cuspidatum*, were only dominant below the OHWM. Wetland characteristics did not extend beyond the OHWM of UNT2 to Shiloh Creek. For the purposes of this report, these wetland characteristics are considered a feature of UNT2 to Shiloh Creek and not a separate feature. No water flow was noted during the September 17, 2020 site inspection. UNT2 to Shiloh Creek is not a USGS blue line stream and is listed as a pipeline in the USGS National Hydrography Dataset.

INDOT acknowledges that UNT2 to Shiloh Creek would likely not meet the definition of a Waters of the US because it is ephemeral. However, INDOT is requesting that the USACE take jurisdiction of the stream.

East Fork White Lick Creek

The project crosses the perennial East Fork White Lick Creek, which encounters White Lick Creek and eventually the navigable White River. East Fork White Lick Creek flows southeast through the project area

and drains the surrounding commercial area and riparian zone. During the site inspection, flowing water was present, as well as an OHWM. Stream quality is considered excellent due to a natural habitat state, extensive cover including run/riffle complexes, sandbars, vegetative cover, diverse substrate types and the presence of large aquatic fauna (fish and frogs). The OHWM was approximately 14 feet wide and 1.0 foot deep at a location approximately 35 feet downstream of the structure, outside the influence of the bridge. The StreamStats website (<https://streamstats.usgs.gov/ss/>) shows the area of East Fork White Lick Creek to be 8.123 square mile. Approximately 168 linear feet of East Fork White Lick Creek occur within the investigative area.

East Fork White Lick Creek exhibited a well-defined bed and bank. All banks of East Fork White Lick Creek were steep and no wetland hydrology characteristics were found above the OHWM. Robust water flow was noted during the September 17, 2020 site inspection. East Fork White Lick Creek is a USGS blue line stream and listed as a stream/river in the USGS National Hydrography Dataset.

It is likely that East Fork White Lick Creek is a Water of the U.S. due to its apparent connectivity with the navigable White River.

UNT to East Fork White Lick Creek

The project encounters an unnamed intermittent channel at a utility easement approximately 180 feet west of Rockleigh Avenue. This channel flows north to East Fork White Lick Creek, which encounters White Lick Creek and eventually the navigable White River. This tributary will be referred to as UNT to East Fork White Lick Creek in this document. UNT to East Fork White Lick Creek flows north through the project area and drains the surrounding commercial and residential areas. During the site inspection, slow flowing water was present, as well as an OHWM. Stream quality is considered poor due to the highly modified nature of the channel and lack of habitat structure such as riffle/run complexes. The OHWM was approximately 2.5 feet wide and 0.75 foot deep at a location adjacent to an INDOT right-of-way marker, outside the influence of a pipe at the south end of the creek. The drainage is too small to be mapped using the StreamStats website. Approximately 64 linear feet of UNT to East Fork White Lick Creek occur within the investigative area.

UNT to East Fork White Lick Creek exhibited a well-defined bed and bank. All banks of UNT to East Fork White Lick Creek had upland plants such as *Lonicera tatarica* and *Solidago canadensis* and no wetland hydrology characteristics were found above the OHWM. Sluggish water flow was noted during the March 12, 2021 site inspection. UNT to East Fork White Lick Creek is not a USGS blue line stream and is listed as a canal/ditch in the USGS National Hydrography Dataset.

It is likely that UNT to East Fork White Lick Creek is a Water of the U.S. due to its apparent connectivity with the navigable White River.

Table 1 – Stream Summary, US 36, Marion County, Indiana, Designation Numbers 1800035, 1800037, 1900340 & 1900341

Stream Name	Photos	Lat/Long	OHW Width (feet)	OHW Depth (feet)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
Shiloh Creek	24-31; 38-39	39.764046, -86.320797	9.0	0.75	Yes- Intermittent	Yes	Silt, Sand, Pebbles, Cobbles	Average	Yes
UNT1 to Shiloh Creek	31-37	39.764103 -86.320887	2.0	1.0	No- Ephemeral	Yes	Silt, Sand, Pebbles	Average	No*
UNT2 to Shiloh Creek	102- 106	39.763748 -86.316108	4.0	0.5	No- Ephemeral	No	Silt, Sand	Poor	No*
East Fork White Lick Creek	129- 137	39.763958 -86.310754	14.0	1.0	Yes - Perennial	Yes	Silt, Sand, Pebbles, Cobbles, Boulders	Excellent	Yes
UNT to East Fork White Lick Creek	211- 214	39.764736 -86.293732	2.5	0.75	No - Intermittent	No	Silt, Sand, Pebbles	Poor	Yes

*As ephemeral streams, INDOT acknowledges that UNT1 to Shiloh Creek and UNT2 to Shiloh Creek do not likely meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of the streams.

Wetland Analysis

Wetland 1

A depression located east of East Fork White Lick Creek was dominated by the facultative wetland *Fraxinus pennsylvanica*, *Carex vulpinoidea*, *Persicaria pensylvanica*, the facultative *Acer negundo*, and the wetland obligate *Leersia oryzoides*. Soils exhibited hydric soil indicators F6 – Depleted Below Dark Surface and F7 – Depleted Dark Surface. Wetland hydrology indicators were present including water-stained leaves, and the combination of secondary indicators: surface soil cracks, geomorphic position, and FAC-neutral test. The data are documented in wetland delineation Sample Point 1A. The slope adjacent to the wetland was dominated primarily with the upland obligate *Pyrus calleryana*, facultative upland *Cirsium arvense* and *Solidago canadensis* and the facultative *Morus alba* and *Poa pratensis*. No hydric soil or wetland hydrology indicators were found in this area. These data are documented in wetland delineation Sample Point 1B. This wetland is referred to as Wetland 1 in this document. Wetland 1 is considered a poor quality wetland due to small size and limited cover, and exotic vegetation. Wetland 1 is approximately 0.006 acre within the investigative area and is a palustrine emergent wetland. The wetland area is best defined by the depression in topography and dominance of *Carex* sp. as well as the absence of dominant *Solidago canadensis*. Due to its proximity with the White River, Wetland 1 is a likely Water of the U.S.

The Wetland 1 area is listed as the location of a canal/ditch in the USGS National Hydrography Dataset. However, the area did not exhibit a bed and bank structure and no OHWM was observed.

Wetland 2

A depression northwest of the exit ramp from I-465 to US 36 is dominated by the facultative wetland *Acer saccharinum*, the upland *Eleagnus umbellata*, and the wetland obligate *Salix nigra* and *Typha x glauca*. Soils exhibited hydric soil indicators A10 – 2 cm Muck, F1 – Loamy Mucky Mineral, and F8 – Redox Depressions. Wetland hydrology indicators were present including saturation, sediment deposits, thin muck surface, and the combination of secondary indicators: saturation visible on aerial imagery, geomorphic position, and FAC-neutral test. The data are documented in wetland delineation Sample Point 2A. The adjacent slope was dominated with the facultative upland *Lolium perenne* and *Solidago canadensis* and the facultative *Setaria pumila*. No hydric soil or wetland hydrology indicators were found in the slope area. These data are documented in wetland delineation Sample Point 2B. This wetland is referred to as Wetland 2 in this document. Wetland 2 is considered a poor quality wetland due to limited cover and exotic vegetation. Wetland 2 is approximately 0.19 acre within the investigative area and is a palustrine emergent wetland. The wetland area is best defined by the depression in topography and dominance of *Typha* sp. as well as the absence of dominant *Solidago canadensis*.

The mapped area of Wetland 2 overlaps NHDl Reach Code 05120201112725, which is connected by pipe to Open Water 2. These waters do not directly encounter a jurisdictional perennial or intermittent stream. INDOT acknowledges that Wetland 2 would likely not meet the definition of a Waters of the US because it lacks direct connectivity to a jurisdictional water. However, INDOT is requesting that the USACE take jurisdiction of the wetland.

Small Jurisdictional Aquatic Resources (JAR)

One area exhibited hydrophytic vegetation and signs of wetland hydrology, but delineation was not possible because the situation consisted of solid substrate and no soils. This site would likely exhibit wetland conditions if it occurred over a natural substrate. For the purposes of this report, this site is considered a Jurisdictional Aquatic Resource (JAR) to distinguish them from areas which may be subject to a complete delineation.

JAR1

At the southeast quadrant of Girls' School Road and US 36, there is a concrete ditch which is overgrown with vegetation. The roots and rhizomes of the vegetation have formed a matting over the concrete. Dominant plant species include *Typha latifolia*, *Polygonum pensylvanicum*, *Bidens frondosa*, and *Scirpus atrovirens*. Above the concrete, these wetland-type plants were replaced by upland species such as *Schedonorus arundinaceus*, *Ambrosia artemisiifolia*, and *Conyza canadensis*. Although a lack of soil inhibits many hydrology indicators, Drift Deposits were noted and a combination of geomorphic position and FAC-neutral test present. These data are documented in wetland delineation Sample Point JAR1. JAR1 is approximately 0.016 acre within the investigative area. JAR1 would likely be a palustrine emergent wetland if normal substrate conditions occurred. It is considered poor quality due to small size and unnatural conditions. JAR1 is best defined based on the dominance of wetland plant species, especially *Typha latifolia*, *Polygonum pensylvanicum*, and *Scirpus atrovirens*.

JAR1 does not directly encounter a jurisdictional perennial or intermittent stream. INDOT acknowledges that JAR1 would likely not meet the definition of a Waters of the US because it lacks direct connectivity to a jurisdictional water. However, INDOT is requesting that the USACE take jurisdiction of the JAR.

Table 2 – Data Point Summary, US 36, Marion County, Indiana, Designation Numbers 1800035, 1800037, 1900340 & 1900341

Data Point	Vegetation	Soils	Hydrology	Wetland
1A	Yes	Yes	Yes	Yes
1B	No	No	No	No
2A	Yes	Yes	Yes	Yes
2B	No	No	No	No
JAR1	Yes	N/A	Yes	N/A
RSD6	Yes	No	No	No

Table 3 – Wetland Summary, US 36, Marion County, Indiana, Designation Numbers 1800035, 1800037, 1900340 & 1900341

Wetland Name	Photo Number	Coordinates	Cowardin Type	Quality	Total Acreage	Likely Water of U.S.?
Wetland 1	140-146	39.764274 -86.310198	PEM	Poor	0.006	Yes
Wetland 2	336-343	39.765350 -86.268284	PEM	Poor	0.2	No
JAR 1	231-242	39.763886 -86.288977	PEM	Poor	0.16	No

Open Water Analysis

Open Water 1

A small pond occurs in the southwest quadrant of Bridgeport Road and US 36, approximately 275 feet south of US 36. This pond will be referred to as Open Water 1 in this document. The southwest corner of Open Water 1 has a culvert which empties into Shiloh Creek. Open Water 1 appears to be outside but adjacent to the project area. Although Open Water 1 is outside the project area and measures will be taken to avoid disturbing the pond, it is included in the Waters of the U.S Report because of its direct connectivity to Shiloh Creek and its proximity to the project area.

Open Water 1 is not listed in NWI mapping. Open Water 1 exhibited an OHWM and above this was primarily upland type vegetation such as *Schedonorus arundinaceus*, *Taraxacum officinale*, and *Plantago lanceolata* alongside the facultative *Plantago major*. Wetland type vegetation was dominant only below the OHWM, including *Persecaria amphibia*, *Salix nigra*, and *Typha latifolia*. There were no indications of wetland hydrography above the OHWM of Open Water 1 where slopes were fairly steep. Open Water 1 appears to be best be treated as a managed excavated palustrine pond with muddy unconsolidated

bottom (PUB3mx). Open Water 1 is of average quality due to its modified nature, but moderate presence of habitat suitable for wildlife. Open Water 1 occurs outside the investigative area.

Open Water 2

At the southwest quadrant of the I-465 interchange at US 36, an unnamed pond occurs. This pond will be referred to as Open Water 2 in this document. According to the National Hydrography Dataset, Open Water 2 has a hydrologic connection with Lynn Creek, which flows to the navigable White River. Although Open Water 2 is outside the project area and measures will be taken to avoid disturbing the pond, it is included in the Waters of the U.S Report because of its connectivity to Lynn Creek and its proximity to the project area.

Open Water 2 is not listed in NWI mapping. Open Water 2 exhibited an OHWM and above this was primarily upland type vegetation such as *Cirsium arvense*, *Solidago canadensis*, *Asclepias syriaca*, *Rubus allegheniensis*, and *Lonicera tatarica*, alongside the facultative *Populus deltoides* and facultative wetland *Salix interior*. The wetland obligate *Typha* sp. was dominant only below the OHWM and vegetation was sparse in this area. There were no indications of wetland hydrography above the OHWM of Open Water 2 where slopes were fairly steep. Open Water 2 appears to be best be treated as a managed excavated palustrine pond with muddy unconsolidated bottom (PUB3mx). Open Water 2 is of average quality due to its modified nature, but moderate presence of habitat suitable for wildlife. Approximately 0.22 acre of Open Water 2 occurs within the investigative area.

The mapped area of Open Water 2 overlaps NNDI Reach Code 05120201112725, which is connected by pipe to Wetland 2. These waters do not directly encounter a jurisdictional perennial or intermittent stream. INDOT acknowledges that Open Water 2 would likely not meet the definition of a Waters of the US because it lacks direct connectivity to a jurisdictional water. However, INDOT is requesting that the USACE take jurisdiction of the wetland.

Table 2 – Open Water Summary, US 36, Marion County, Indiana, Designation Numbers 1800035, 1800037, 1900340 & 1900341

Open Water Name	Photos	Lat/Long	Total Area (acres)	Likely Water of U.S.?
Open Water 1	62-64	39.762986 -86.317418	0.19	Yes
Open Water 2	348-352	39.764247 -86.268328	0.54	No

Roadside Ditch Analysis

RSD1 (Photos 86-90)

A roadside ditch occurs on the west side of Kirk Road and drains south at a small culvert under US 36. This ditch is referred to as RSD1 in this document. RSD1 does not exhibit an OHWM. RSD1 showed evidence of dredging, but plants in and adjacent to the ditch were facultative upland plants such as *Solidago canadensis*, *Taraxacum officinale*, *Plantago lanceolata*, *Schedonorus arundinaceus* and the facultative *Poa*

pratensis. The vegetation present does not support wetland status. RSD1 drains the nearby roadside and residential area.

RSD2 (Photos 91-92)

A roadside ditch occurs on the east side of Kirk Road and drains south where it encounters a small culvert under US 36. This ditch is referred to as RSD2 in this document. RSD2 does not exhibit an OHWM. RSD2 is dominated by facultative upland plants such as *Glechoma hederacea*, *Taraxacum officinale*, *Plantago lanceolata*, *Schedonorus arundinaceus* and the facultative *Plantago major* and *Poa pratensis*. The vegetation present does not support wetland status. RSD2 drains the nearby roadside and residential area.

RSD3 (Photos 98-99; 107; 111; 113-116)

A roadside ditch occurs along the south side of US 36 across from Kirk Drive and ends at East Fork White Lick Creek. This ditch is referred to as RSD3 in this document. RSD1 and RSD2 drain into RSD3. RSD3 does not exhibit an OHWM. RSD3 is a broken concrete channel but has the facultative upland *Lonicera tatarica* growing within and adjacent to the ditch area. The vegetation present does not support wetland status. RSD3 drains residential and wooded area. RSD3 ends to the east where it encounters East Fork White Lick Creek.

RSD4 (Photos 121-123; 127; 153-156; 166)

A roadside ditch occurs along the south side of US 36 at Country Village Drive and drains west toward a pipe near the transmission towers, which drains into East Fork White Lick Creek. This ditch is referred to as RSD4 in this document. RSD4 does not exhibit an OHWM. RSD4 is dominated by the facultative upland *Schedonorus arundinaceus* and *Taraxacum officinale* and the facultative *Poa pratensis*. The vegetation present does not support wetland status. RSD4 drains adjacent roadside and commercial area.

RSD5 (Photos 223; 225; 245)

A roadside ditch occurs along the north side of US 36 at Buisdale Drive and drains south toward US 36 then west toward Girls' School Road. This ditch is referred to as RSD5 in this document. RSD5 does not exhibit an OHWM. RSD5 is dominated by the facultative upland *Solidago canadensis*, *Schedonorus arundinaceus*, and *Conyza canadensis*, and the facultative *Morus alba*, and *Poa pratensis*. The vegetation present does not support wetland status. RSD5 drains the adjacent roadside, residential, commercial, and wooded area.

RSD6 (Photos 246-249; 253-254)

A roadside ditch occurs along the south side of US 36 at the second drive east of Waynecroft Street and drains toward Girls' School Road, where it encounters JAR1. This ditch is referred to as RSD6 in this document. RSD6 does not exhibit an OHWM. A wetland delineation datapoint was taken in RSD6, Sample Point RSD6. The location met the Dominance Test for hydrophytic vegetation, including the dominant facultative wetland species *Acer saccharinum* and *Bidens frondosa*, the facultative *Symphotrichum lanceolatum* and *Poa pratensis*, and the facultative upland *Lonicera tatarica* and *Schedonorus arundinaceus*. However, the area did not meet hydric soil or wetland hydrology criteria and therefore is not a wetland. RSD6 drains the adjacent roadside, commercial and residential area.

RSD7 (Photos 287-288)

A roadside ditch occurs along the east side of Bauman Street at US 36 and extends south out of the project area. This ditch is referred to as RSD7 in this document. RSD7 does not exhibit an OHWM. RSD7 is dominated by the facultative upland *Schedonorus arundinaceus*, *Taraxacum officinale*, *Trifolium repens*, *Digitaria ischaemum*, and the facultative *Poa pratensis*. The vegetation present does not support wetland status. RSD7 drains the adjacent roadside and residential area.

RSD8 (Photos 297 and 301)

A roadside ditch occurs on the south side of US 36 beginning at the 4th drive west of Mission Street and extending to a pipe at the 1st drive west of Mission Street. This ditch is referred to as RSD8 in this document. RSD8 does not exhibit an OHWM. RSD8 is dominated by the facultative upland *Schedonorus arundinaceus*, *Taraxacum officinale*, *Trifolium repens*, *Digitaria ischaemum*, and the facultative *Poa pratensis*. The vegetation present does not support wetland status. RSD8 drains the adjacent roadside and residential area.

RSD9 (Photos 314-315)

A roadside ditch occurs on the east side of Merrimac Place at US 36 and extends north outside the project area. This ditch is referred to as RSD9 in this document. RSD9 does not exhibit an OHWM. RSD9 is dominated by *Schedonorus arundinaceus*, *Glechoma hederacea*, *Trifolium repens*, and the facultative *Setaria glauca*. At its south end, RSD9 is line with concrete with the above plants bordering. The vegetation present does not support wetland status. RSD9 drains the adjacent roadside and commercial area.

RSD10 (Photo 70-72; 76)

A roadside ditch occurs on the east side of Richie Avenue approximately 80 feet north of US 36 and extends north for 120 feet, crossing under Richie Avenue and extending outside the project area to the northwest. This ditch is referred to as RSD10 in this document. RSD10 does not exhibit an OHWM. RSD10 is dominated by *Schedonorus arundinaceus*. The vegetation present does not support wetland status. RSD10 drains the adjacent roadside and residential area.

RSD11 (Photo 73-76)

A roadside ditch occurs on the west side of Richie Avenue approximately 80 feet north of US 36 and extends north to meet RSD10. This ditch is referred to as RSD11 in this document. RSD11 does not exhibit an OHWM. RSD10 is dominated primarily by *Schedonorus arundinaceus* with a secondary presence of the facultative *Poa pratensis*. The vegetation present does not support wetland status. RSD11 drains the adjacent roadside and residential area.

Due to the lack of an OHWM, RSD1, RSD2, RSD3, RSD4, RSD5, RSD6, RSD7, RSD8, RSD9, RSD10, and RSD11 do not exhibit characteristics of a tributary. Because these roadside ditches are not wetlands or tributaries, they are not likely Waters of the U.S.

4. Summary and Conclusions

Shiloh Creek, East Fork White Lick Creek, UNT to East Fork White Lick Creek, Open Water 1, and Wetland 1 within the project area are waterways directly traceable to the White River and therefore are apparent jurisdictional Waters of the U.S. The jurisdictional area in the project area would extend to the limits of the OHWM of the channel on all the banks of all tributaries and open waters. The jurisdictional area in the project area would extend to the limits of wetland vegetation and hydrology in Wetland 1. Wetland 1 is best defined by the depression in topography and dominance of *Carex* sp. as well as the absence of dominant *Solidago canadensis*.

INDOT acknowledges that Open Water 2, Wetland 2, JAR1, UNT1 to Shiloh Creek and UNT2 to Shiloh Creek would likely not meet the definition of a Waters of the U.S. However, INDOT is requesting that the USACE take jurisdiction of these streams, wetlands, and jurisdictional aquatic resource. Jurisdictional limits would extend to the OHWM of these tributaries and to the limits of wetland vegetation in Wetland 2 and JAR1. JAR1 is best defined based on the dominance of wetland plant species, especially *Typha latifolia*, *Polygonum pensylvanicum*, and *Scirpus atrovirens*. Wetland 2 is best defined by the depression in topography and dominance of *Typha* sp. as well as the absence of dominant *Solidago canadensis*.

All RSDs are non-jurisdictional features within the study area.

Bat and bird presence was documented under the East Fork White Lick Creek during the September 17, 2020 and October 7, 2020 site visits. Barn swallow (*Hirundo rustica*) nests and big brown bats (*Eptesicus fuscus*) were observed during the field checks. Guano was sampled on October 7, 2020 and was assigned to *Eptesicus fuscus* and *Myotis* sp. after testing. No bird or bat presence was noted in the Shiloh Creek or UNT2 to Shiloh Creek culverts.

These waterways are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps. A preliminary jurisdictional determination (pre-JD) form is attached to the end of this document.

Acknowledgement:

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

Kirk Roth

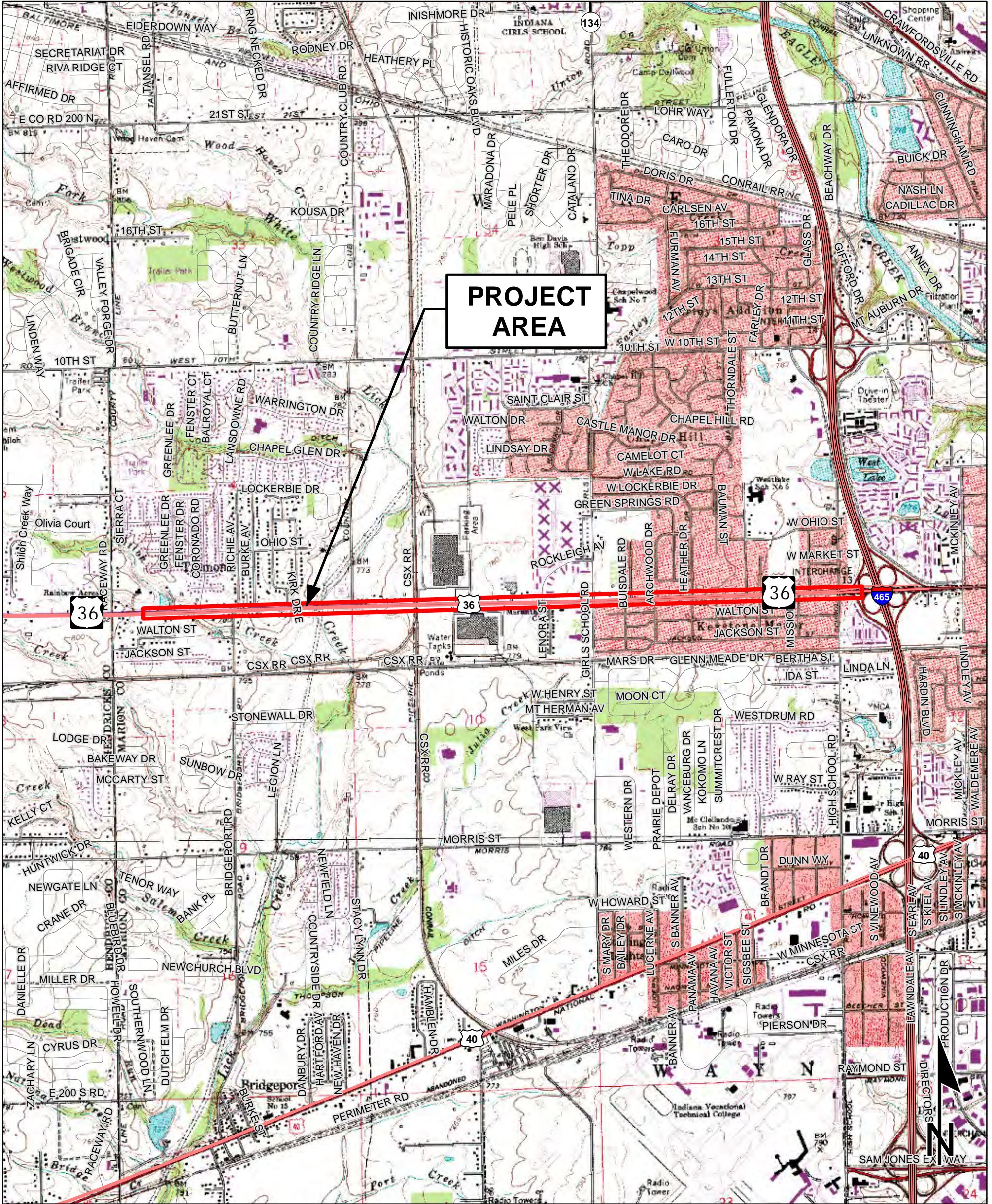


Environmental Scientist

Corradino, LLC

August 11, 2021

USGS Topographic Map
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



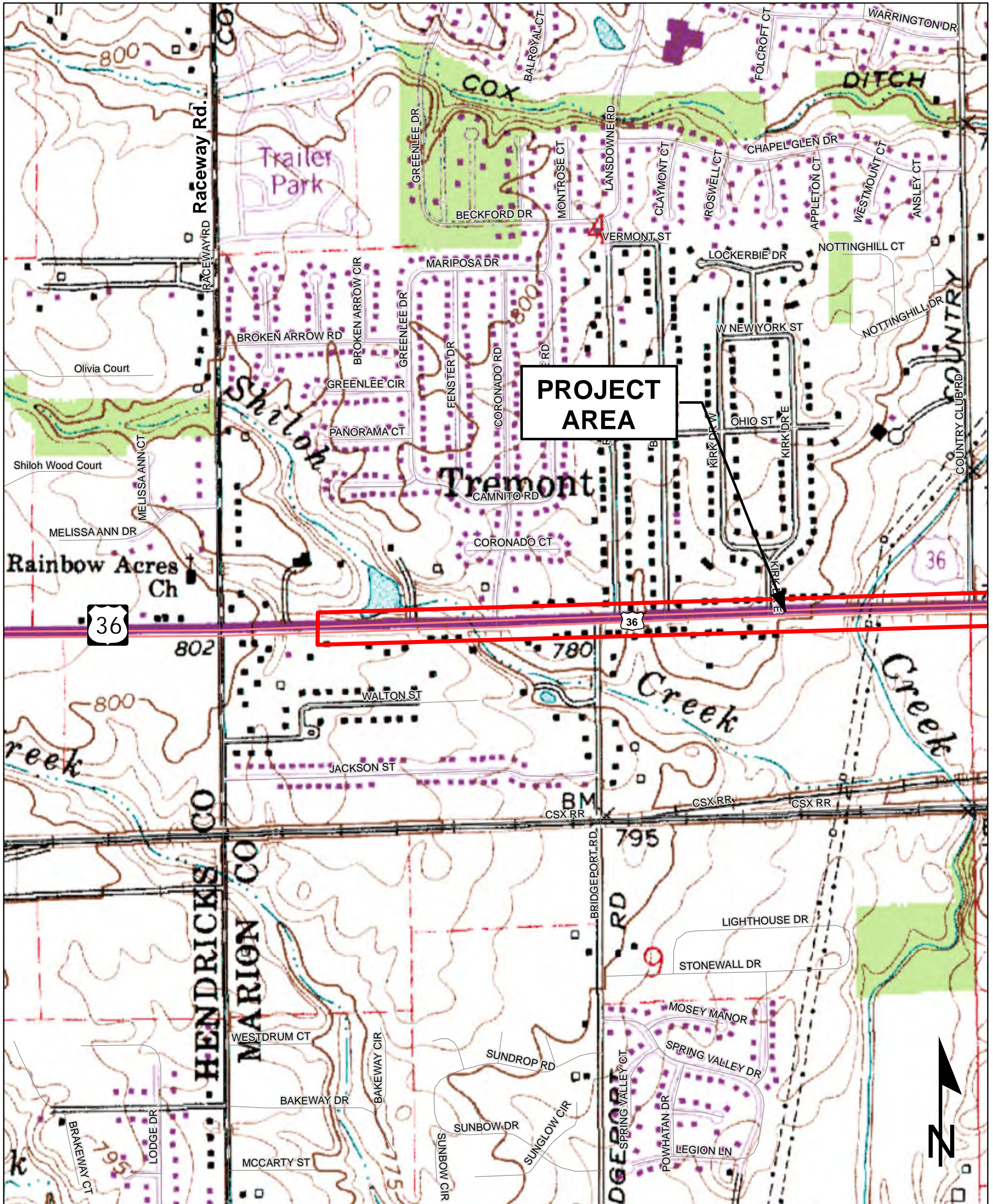
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 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

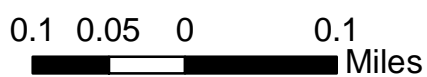
**CLERMONT & BRIDGEPORT
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

USGS Topographic Map (1 of 3)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



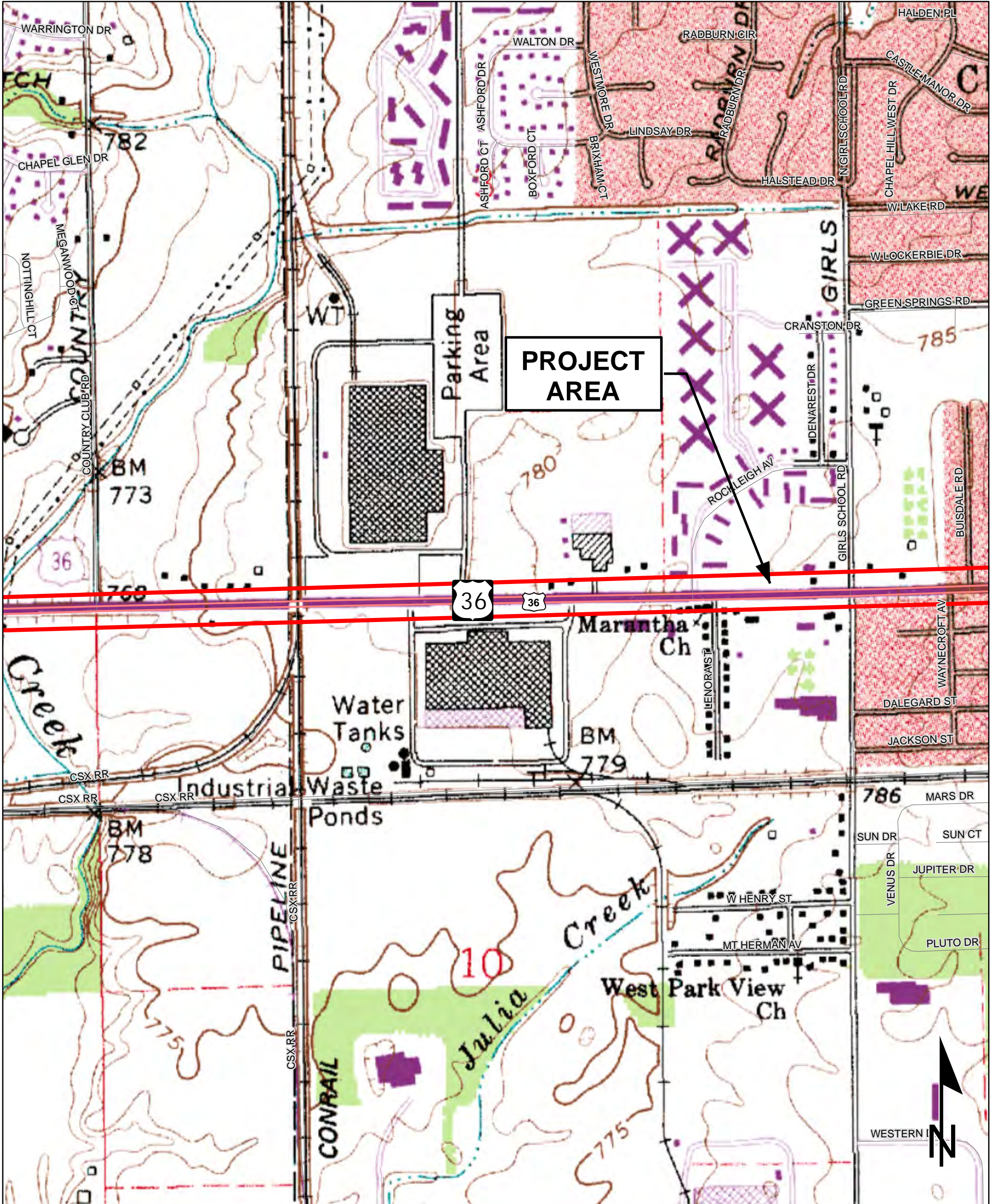
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Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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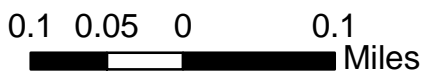
**CLERMONT & BRIDGEPORT
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

USGS Topographic Map (2 of 3)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



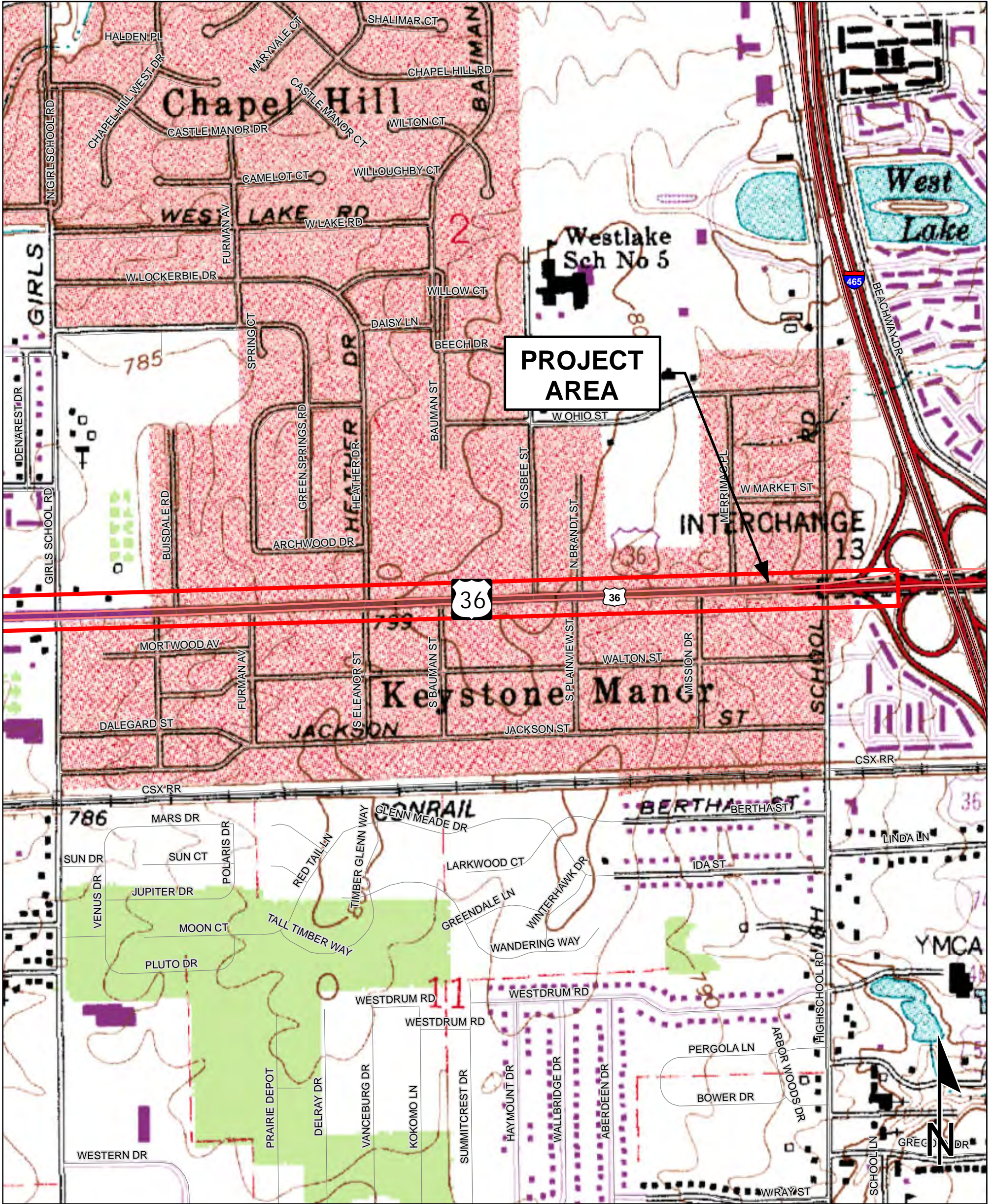
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Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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**CLERMONT & BRIDGEPORT
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

USGS Topographic Map (3 of 3)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 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

0.1 0.05 0 0.1 Miles

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

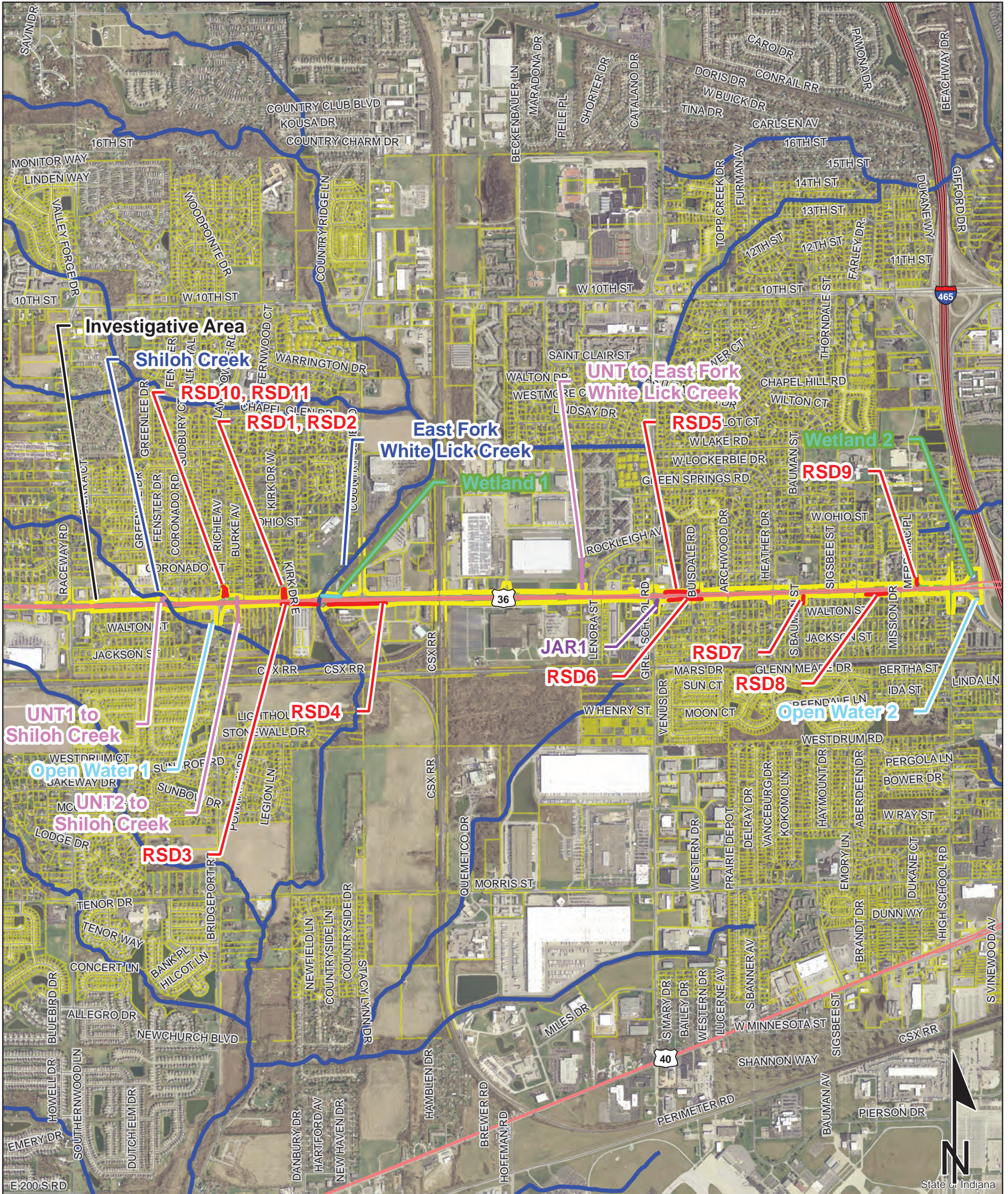
**CLERMONT & BRIDGEPORT
 QUADRANGLES INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)**

Aerial Map

US 36, from Raceway Rd. to I-465

Des. No's. 1800035 & 1800037, Corridor Improvements

Marion County, Indiana



Sources: 2,600 1,300 0 2,600 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

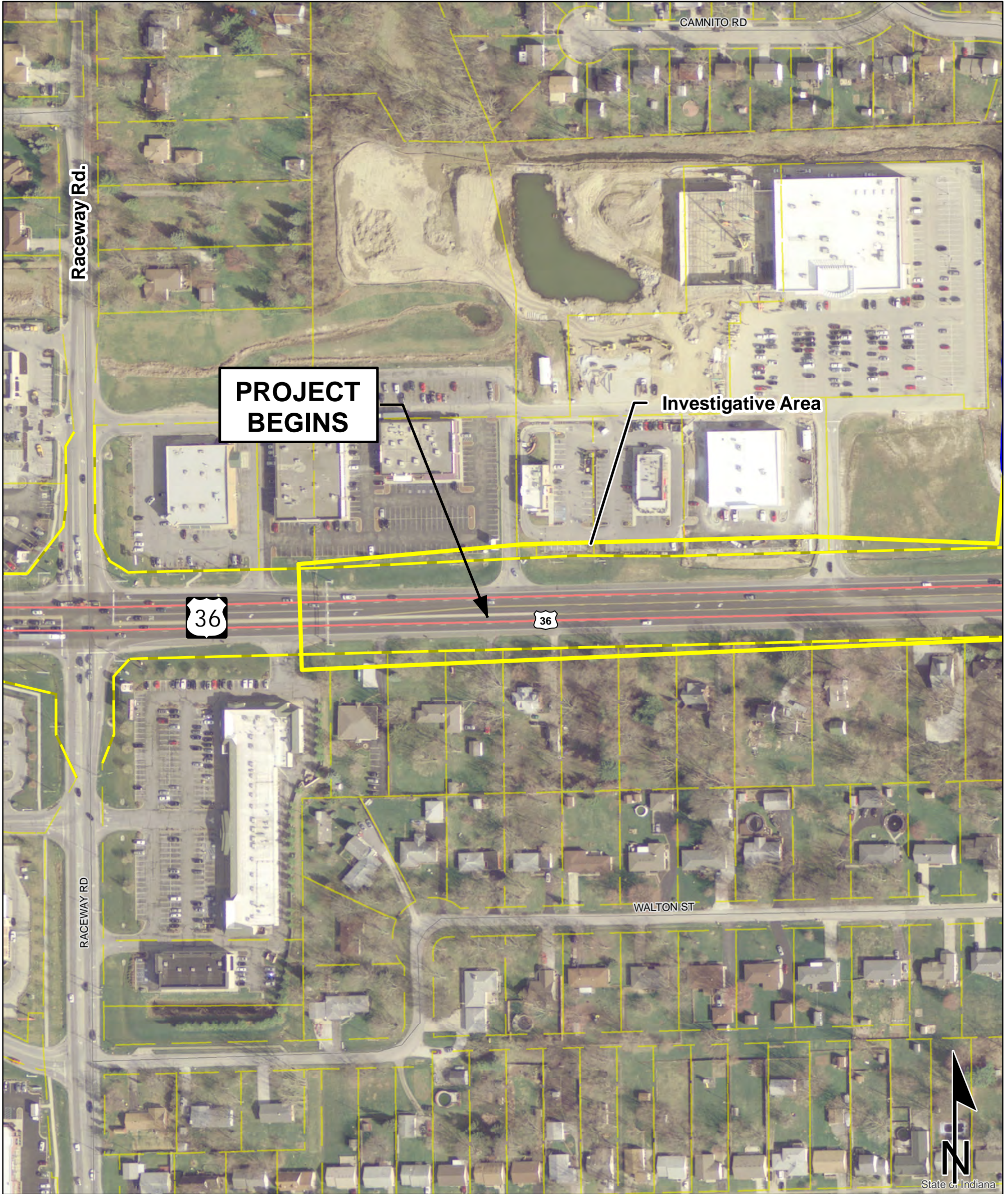
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | |
|--|--|
|  Flow Direction |  Wetland Line |
|  Tributary |  Un-named Tributary (UNT) |
|  Wetlands |  Roadside Ditch (RSD) |
|  Open Water |  JAR |
|  Permanent R/W |  Existing R/W |

Aerial Map (1 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana




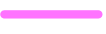








Sources: 250 125 0 250 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

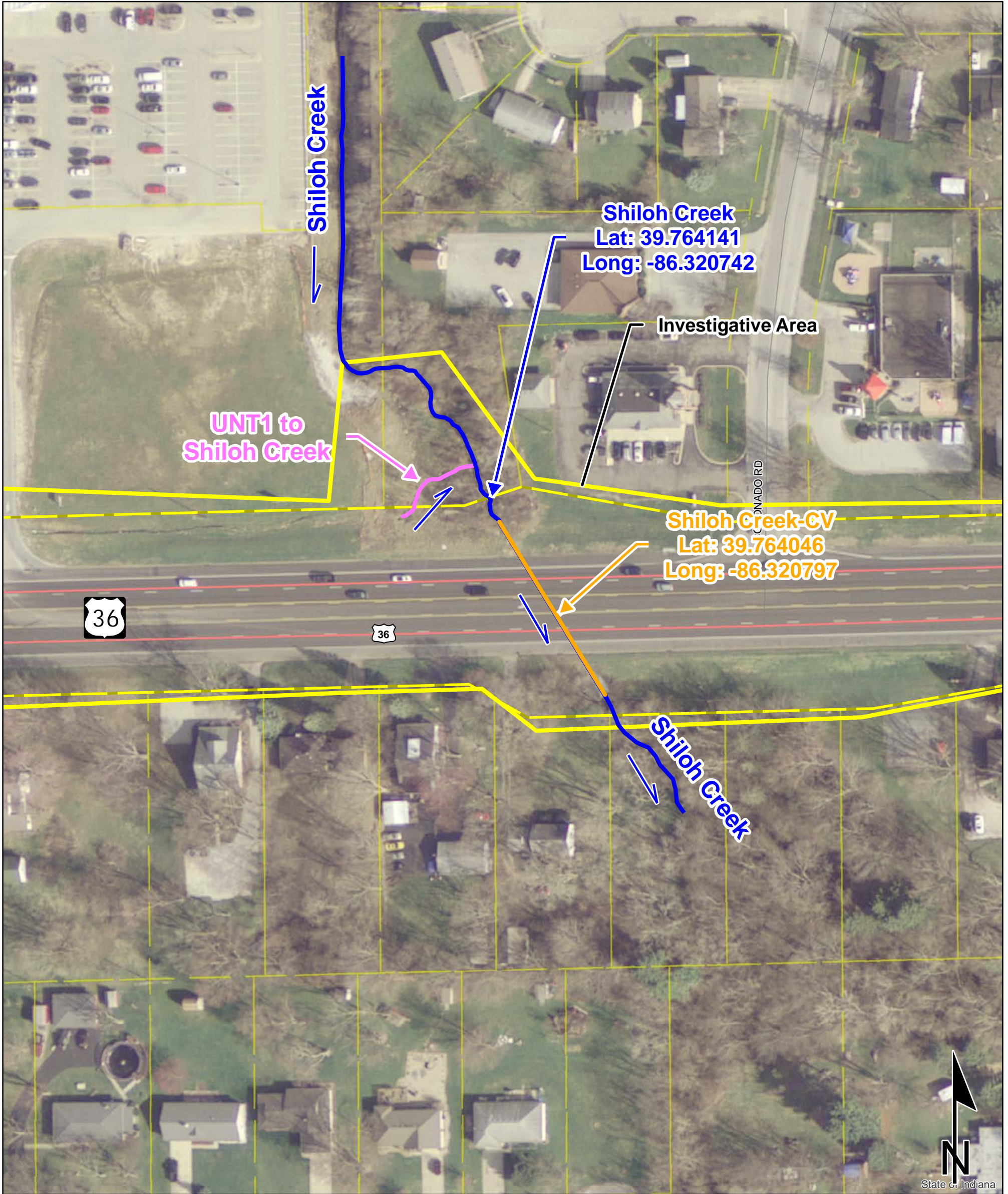
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (2 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana






Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

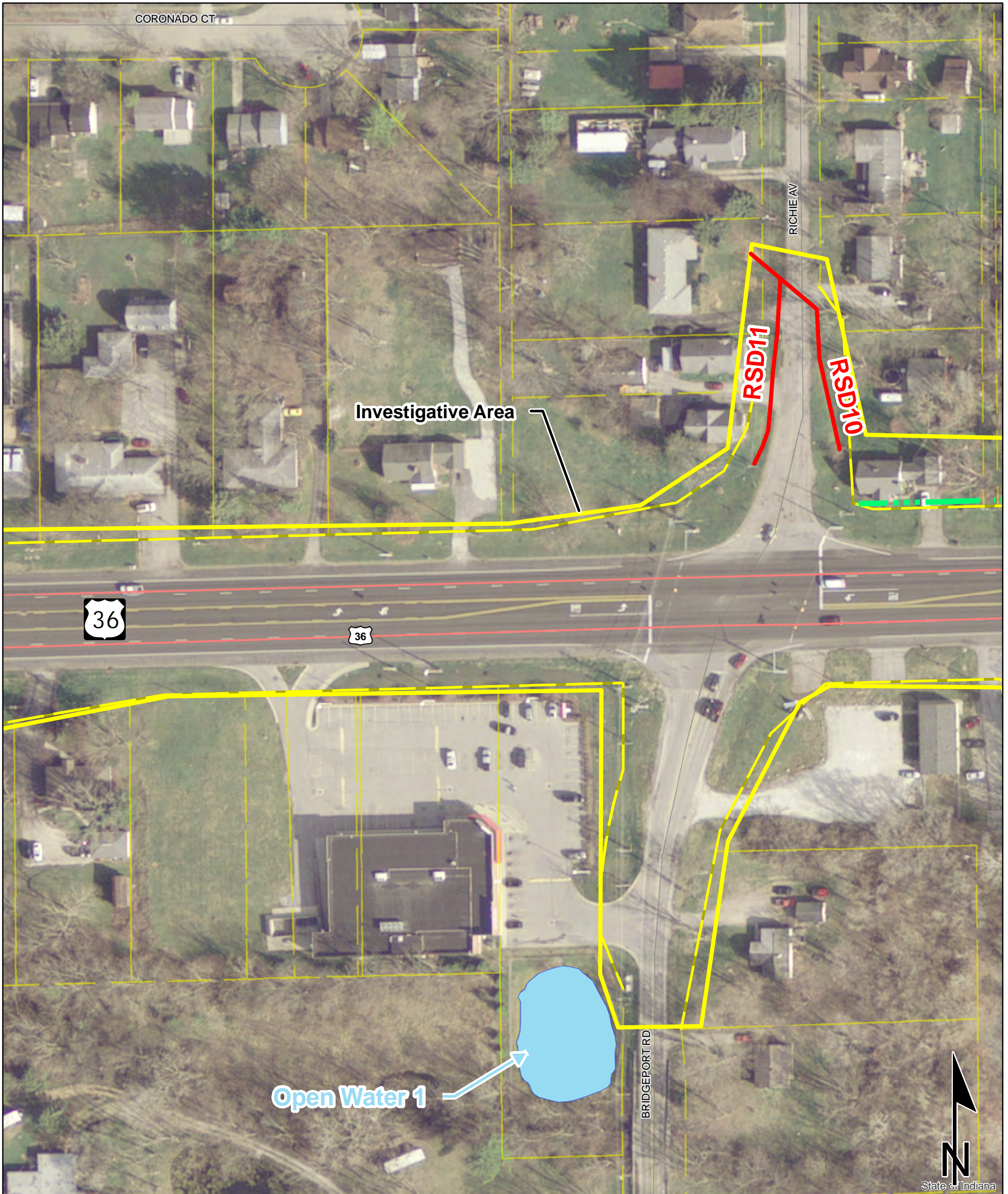
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | Culvert |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (3 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

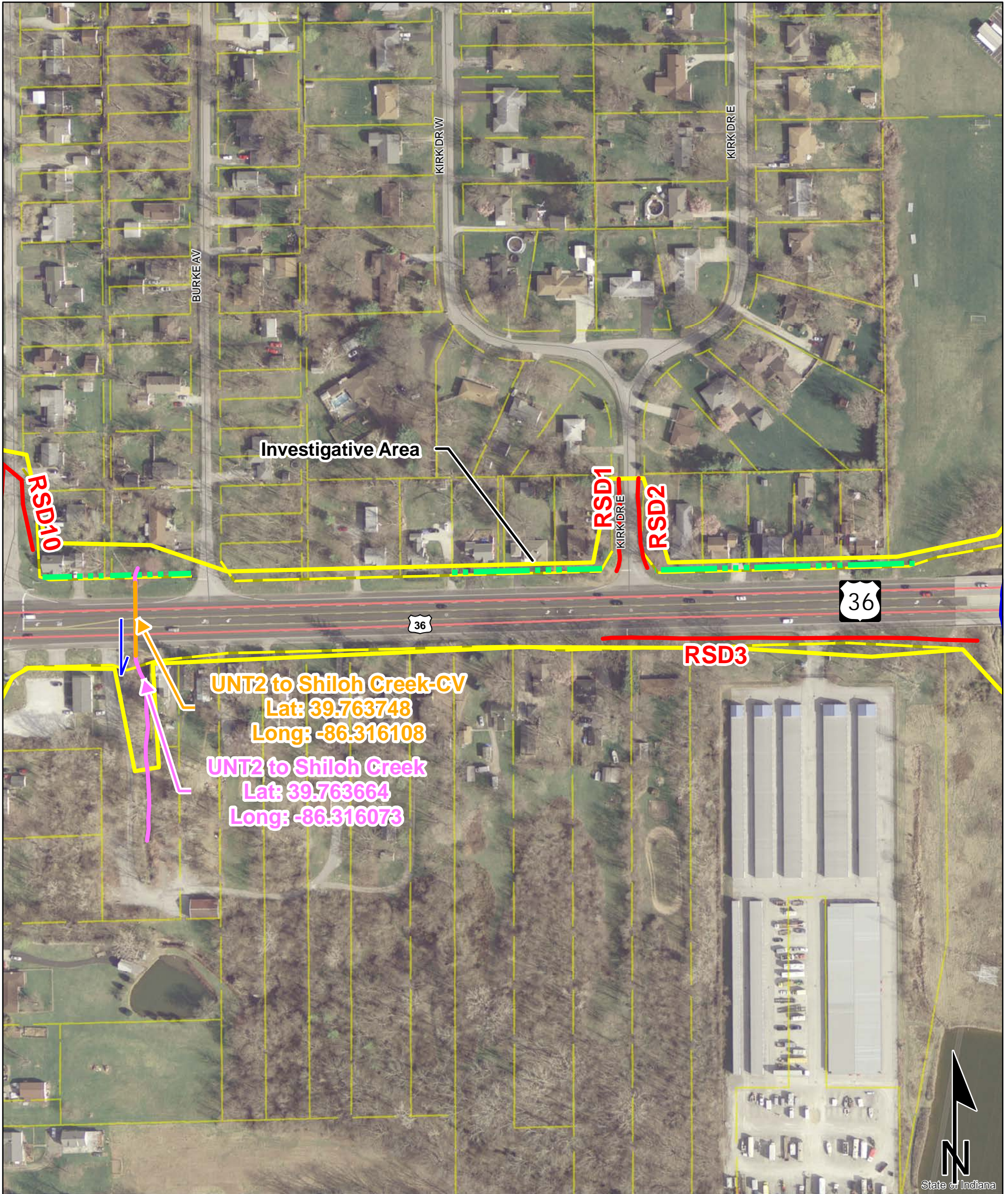
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

	Flow Direction		Wetland Line
	Tributary		Un-named Tributary (UNT)
	Wetlands		Roadside Ditch (RSD)
	Open Water		JAR
	Permanent R/W		Existing R/W

Aerial Map (4 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 250 125 0 250 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

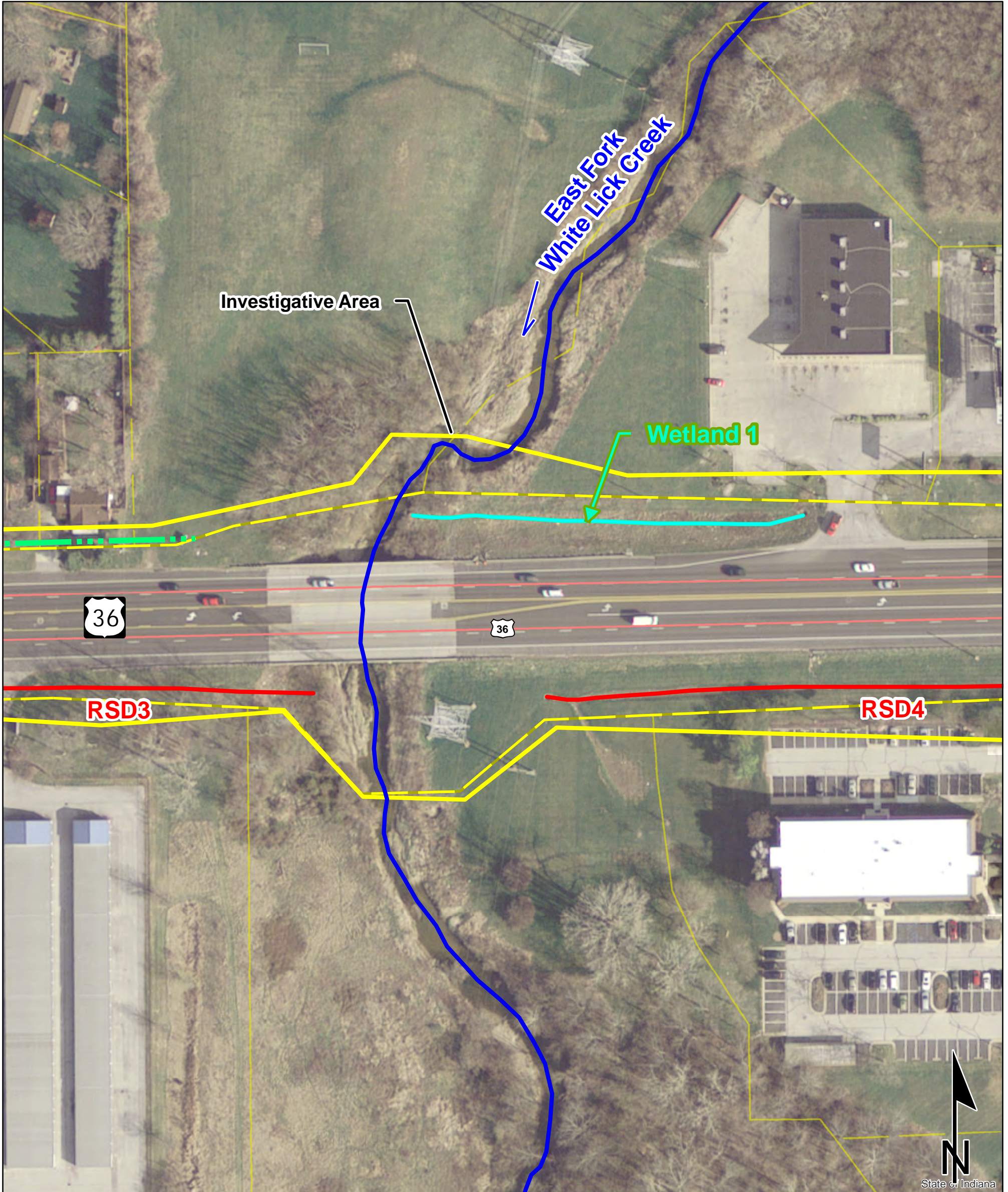
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | Culvert |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (5 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana






Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

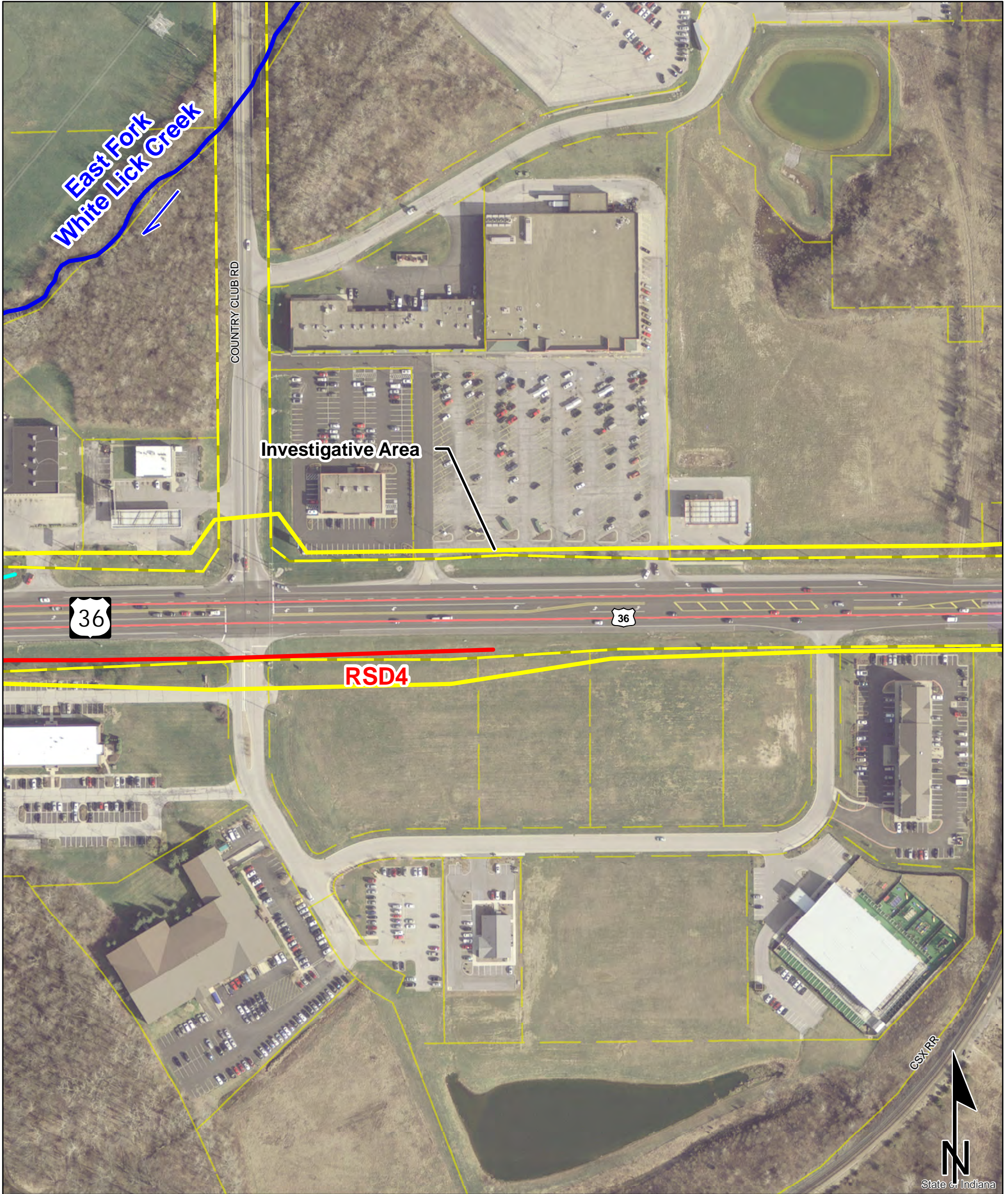
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (6 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana









Sources: 250 125 0 250 Feet

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

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

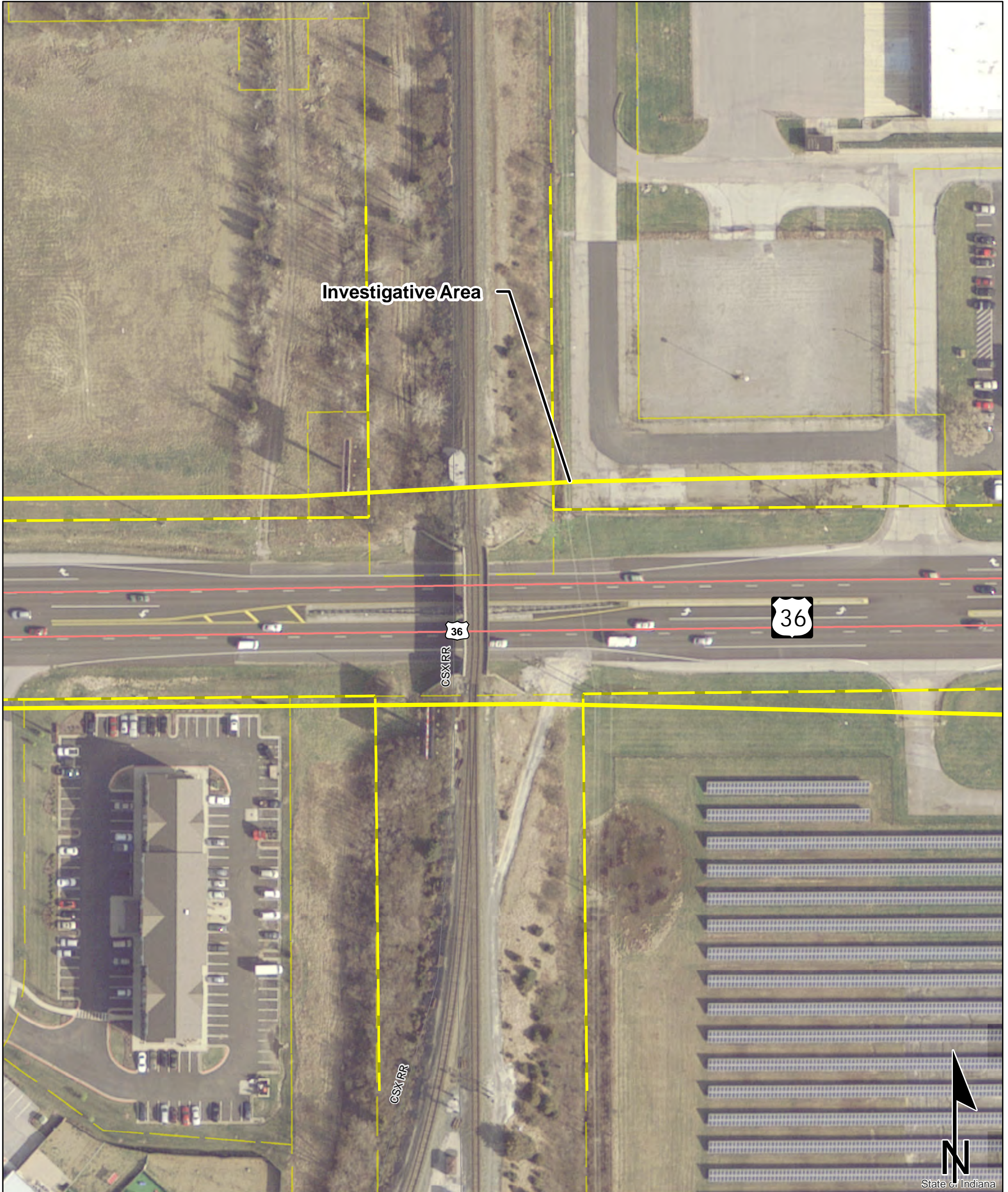
INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

State of Indiana

Aerial Map (7 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet

Non Orthophotography

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






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

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

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (8 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana






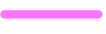






Sources: 350 175 0 350 Feet

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

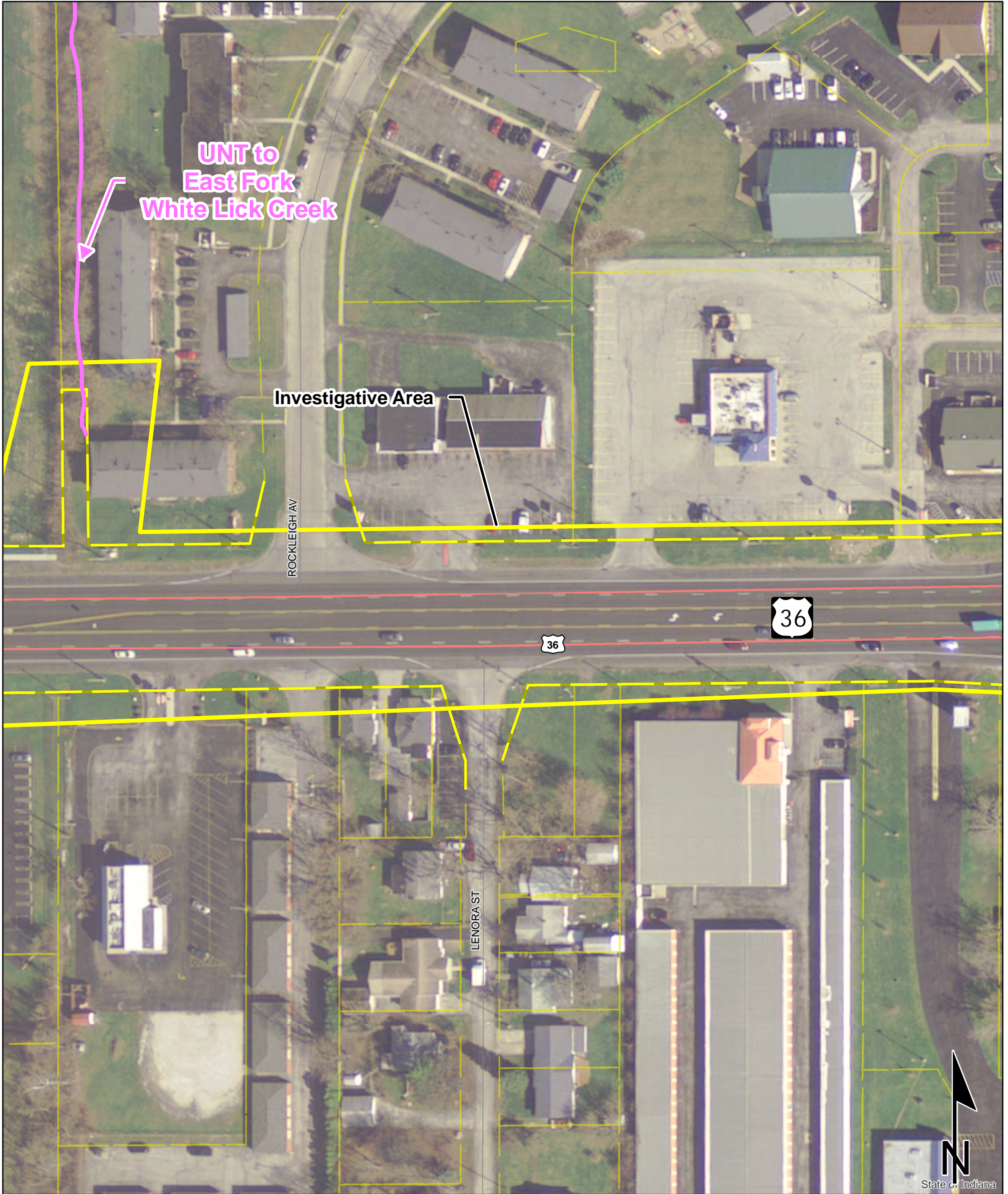
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (9 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet

Non Orthophotography

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











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

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

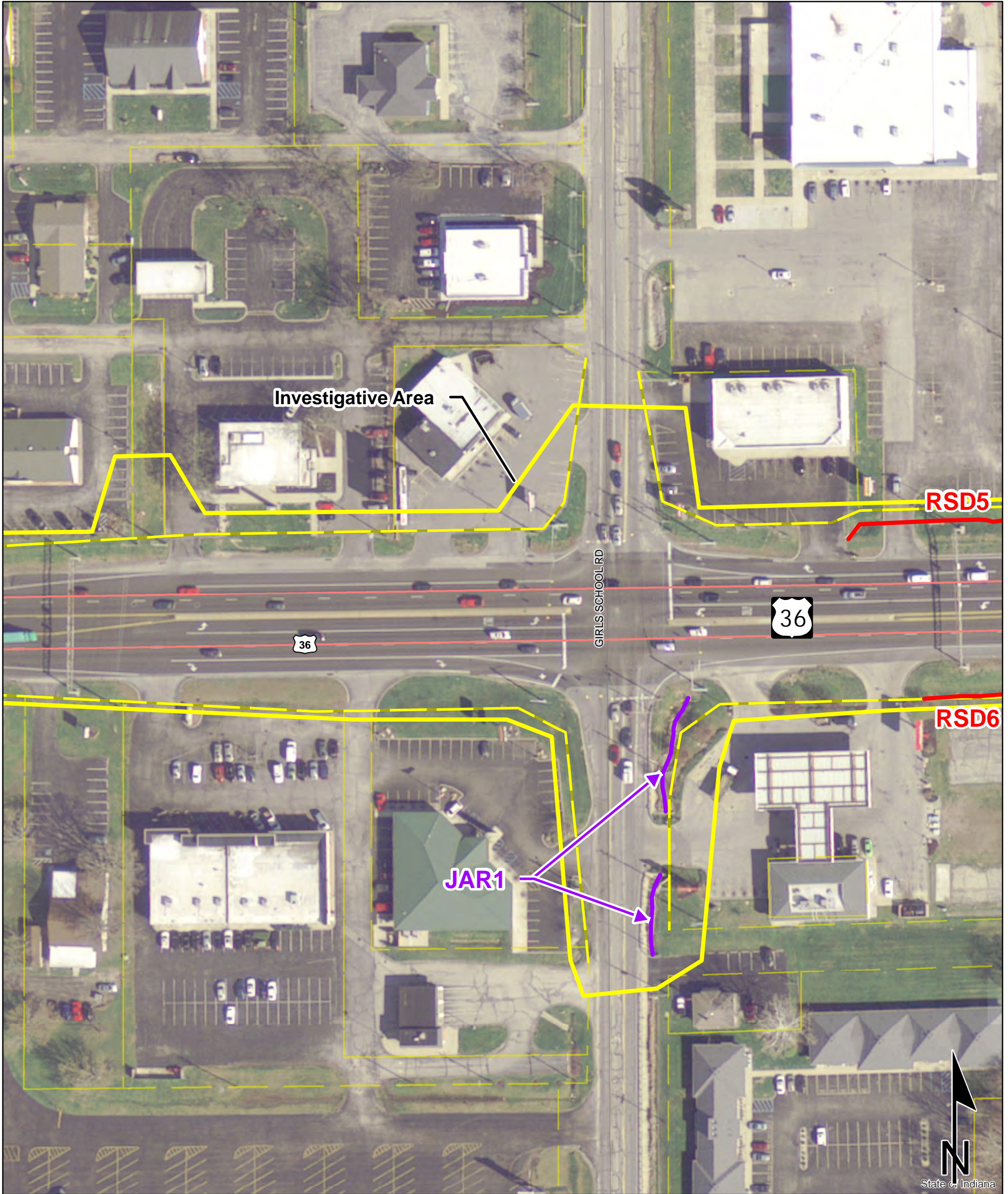
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (10 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana




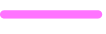








Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

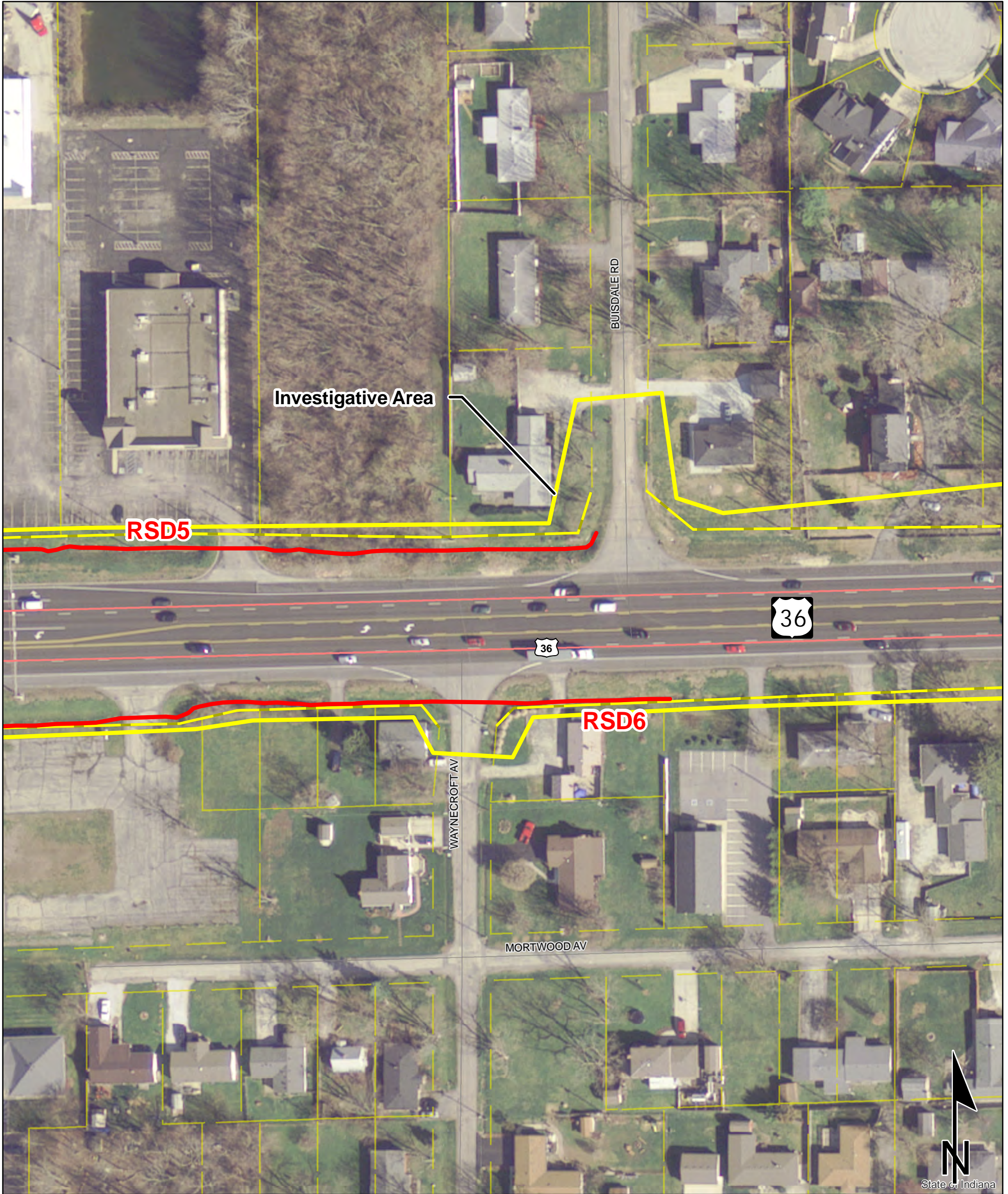
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Aerial Map (11 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana









Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

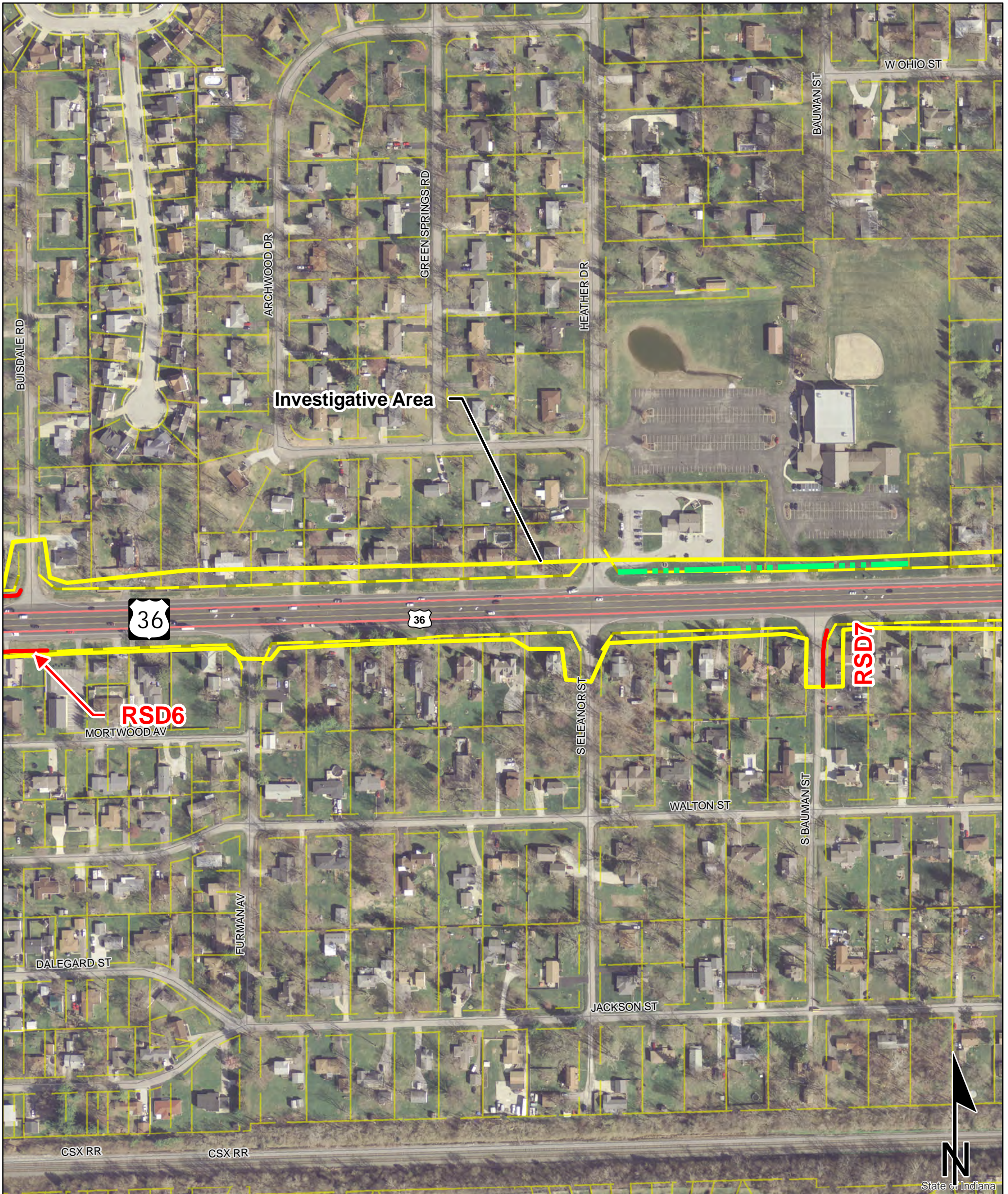
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | |
|--|--|
|  Flow Direction |  Wetland Line |
|  Tributary |  Un-named Tributary (UNT) |
|  Wetlands |  Roadside Ditch (RSD) |
|  Open Water |  JAR |
|  Permanent R/W |  Existing R/W |

Aerial Map (12 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 350 175 0 350 Feet

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

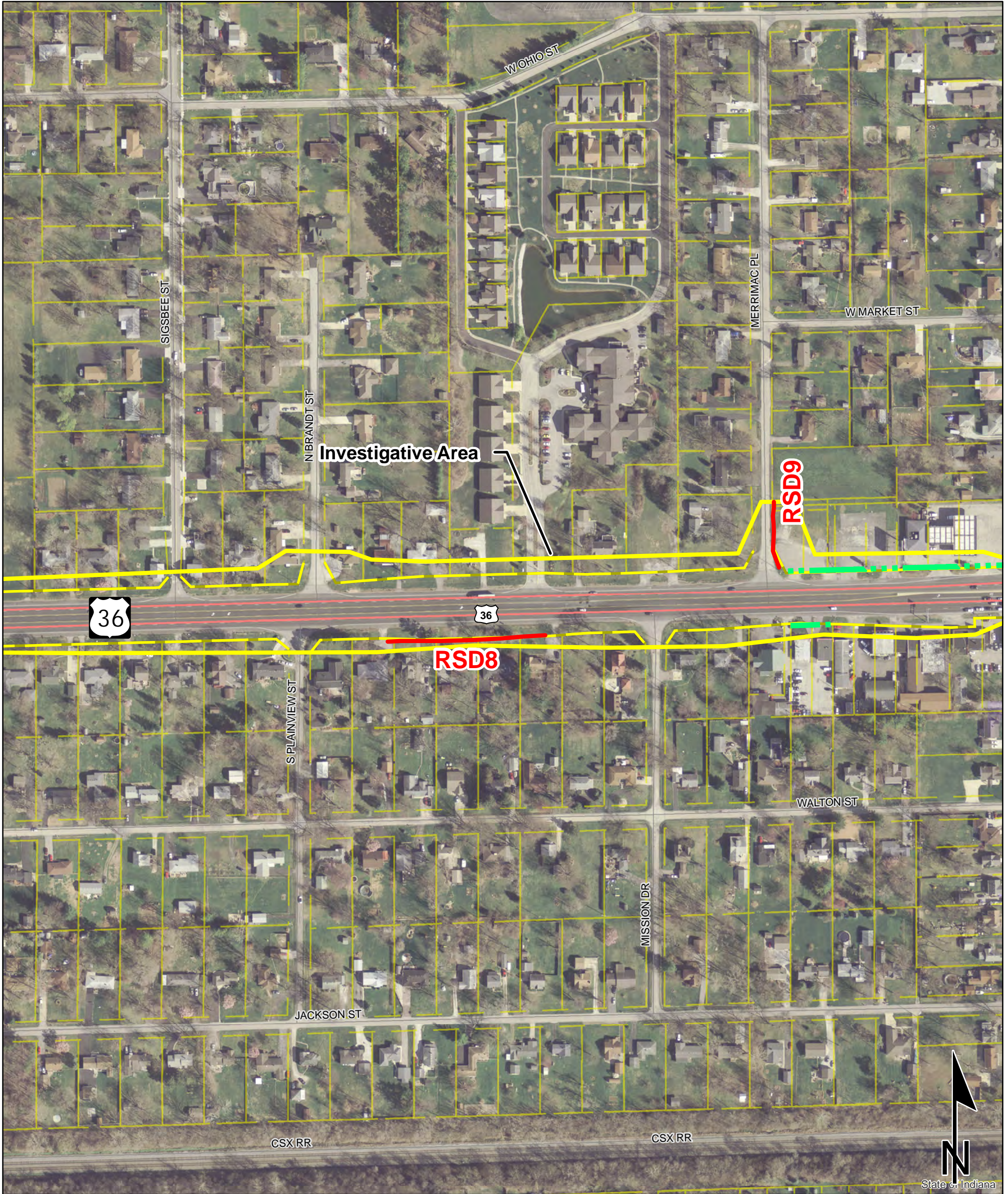
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|--|----------------|--|--------------------------|
| | Flow Direction | | Wetland Line |
| | Tributary | | Un-named Tributary (UNT) |
| | Wetlands | | Roadside Ditch (RSD) |
| | Open Water | | JAR |
| | Permanent R/W | | Existing R/W |

Aerial Map (13 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana




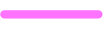







Sources: 350 175 0 350 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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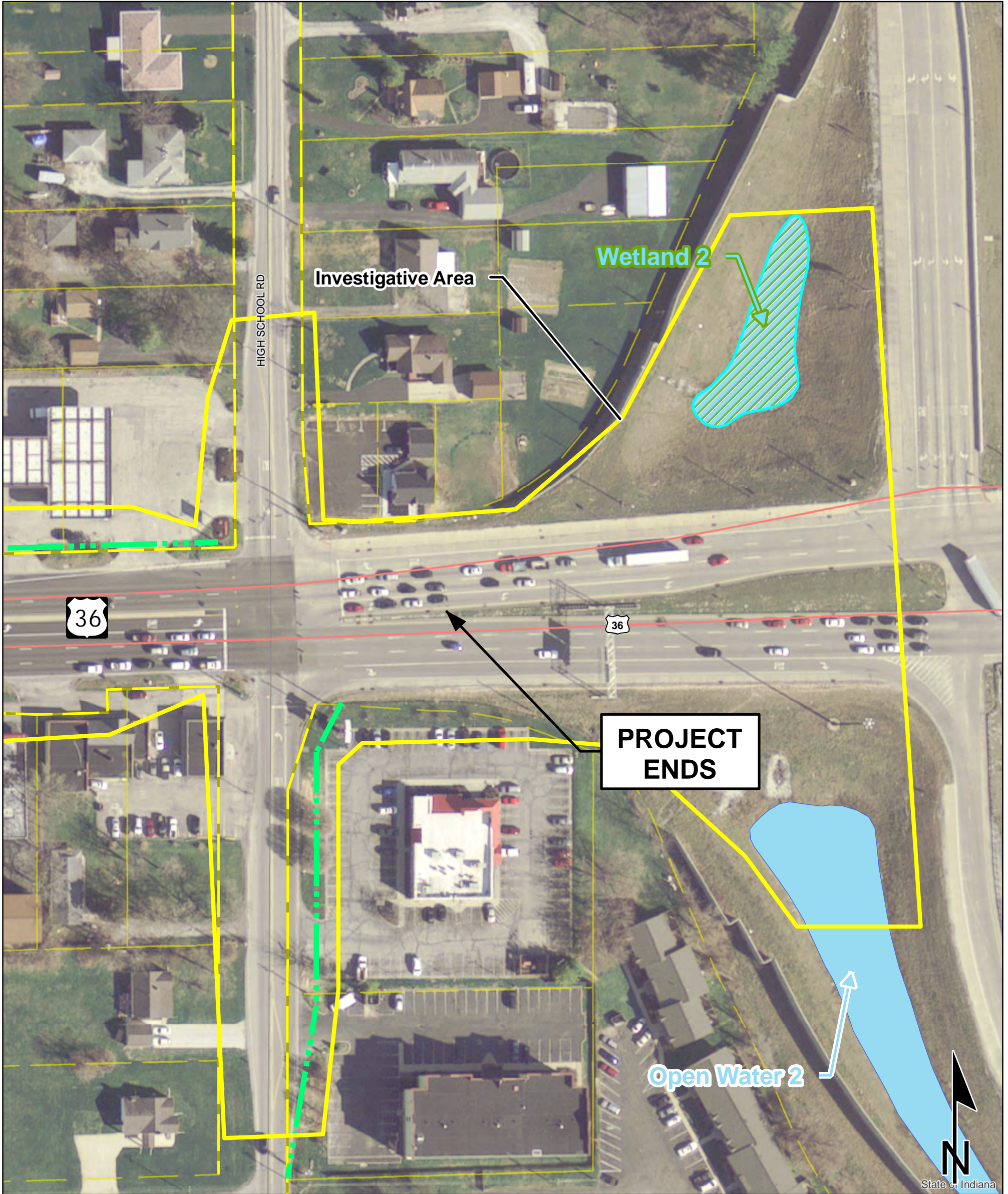
INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

State of Indiana

Aerial Map (14 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana





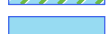



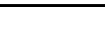
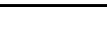


Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

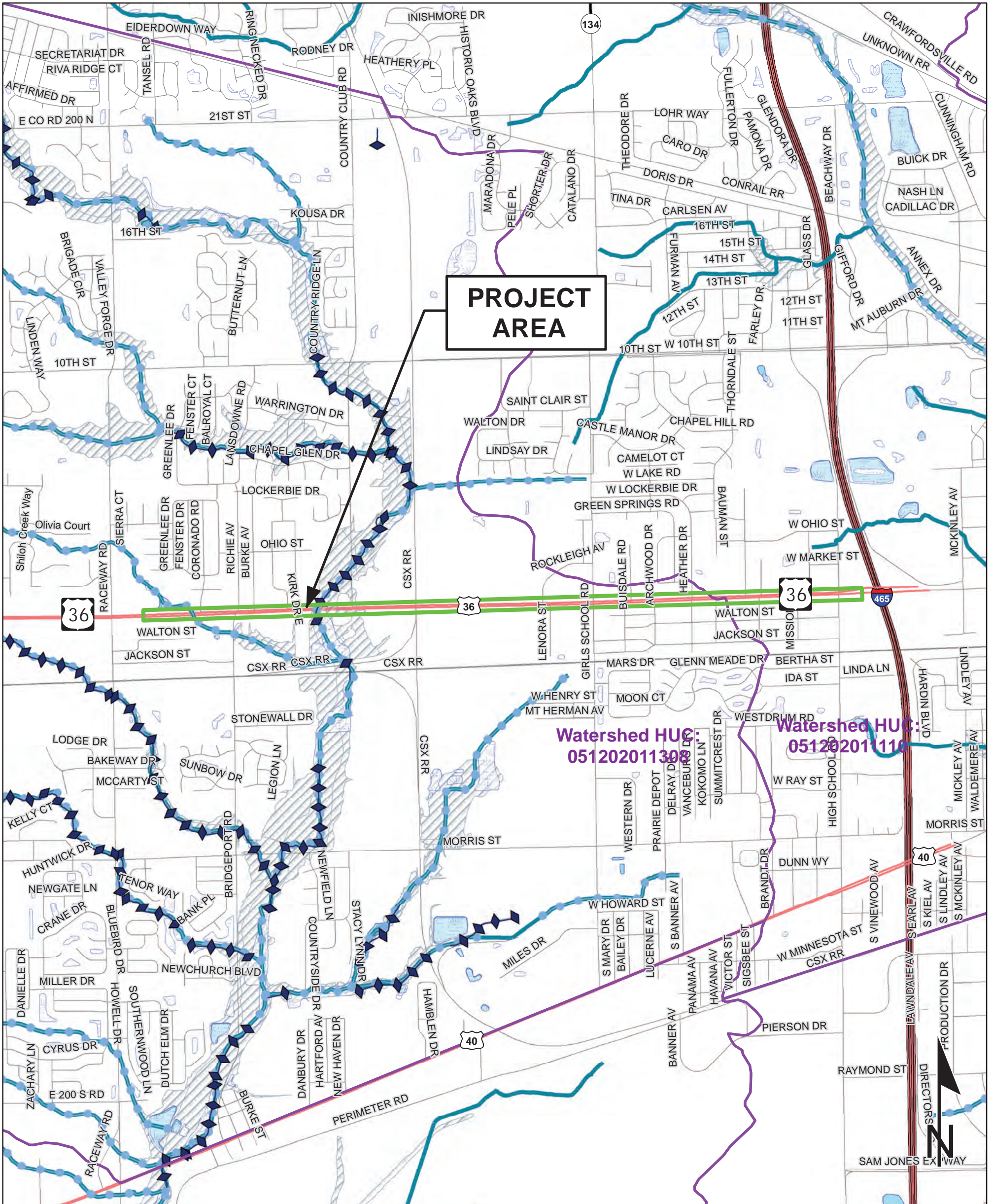
- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Water Resources Map

US 36, from Raceway Rd. to I-465

Des. No's. 1800035 & 1800037, Corridor Improvements

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.



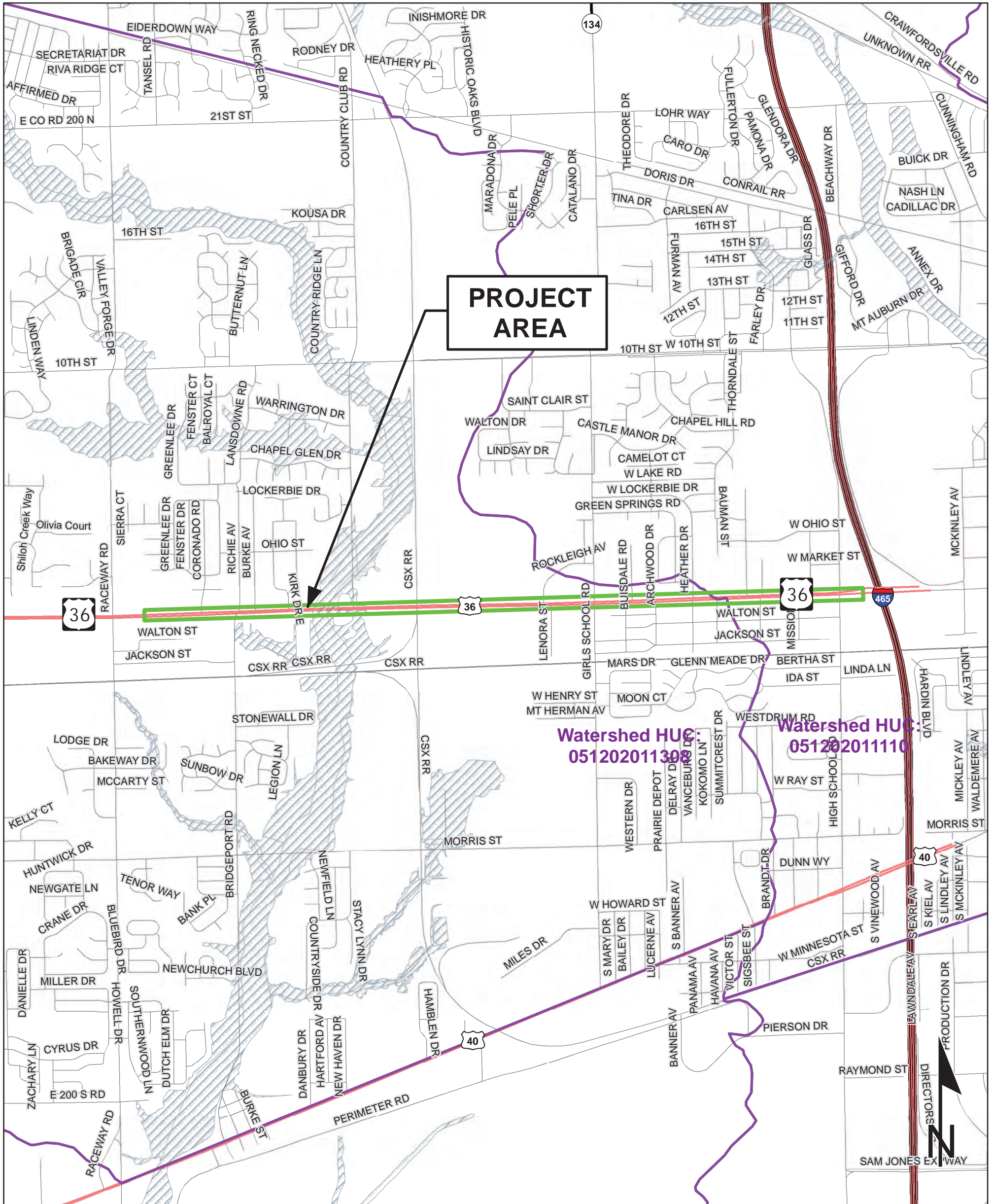
	NWI - Point		Wetlands		Toll
	Karst Spring		Lake		Interstate
	NWI - Line		Floodplain - DFIRM		State Route
	Impaired_Stream_Lake		Cave Entrance Density		US Route
	NPS NRI listed		Sinkhole Area		Local Road
	River		Sinking-Stream Basin		Watershed Boundary
	Canal Structure - Historic		County Boundary		
	Canal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

FEMA / FIRM Map

US 36, from Raceway Rd. to I-465

Des. No's. 1800035 & 1800037, Corridor Improvements

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.

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

Soils Map (1 of 3)

US 36, from Raceway Rd. to I-465

Des. No's. 1800035 & 1800037, Corridor Improvements

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

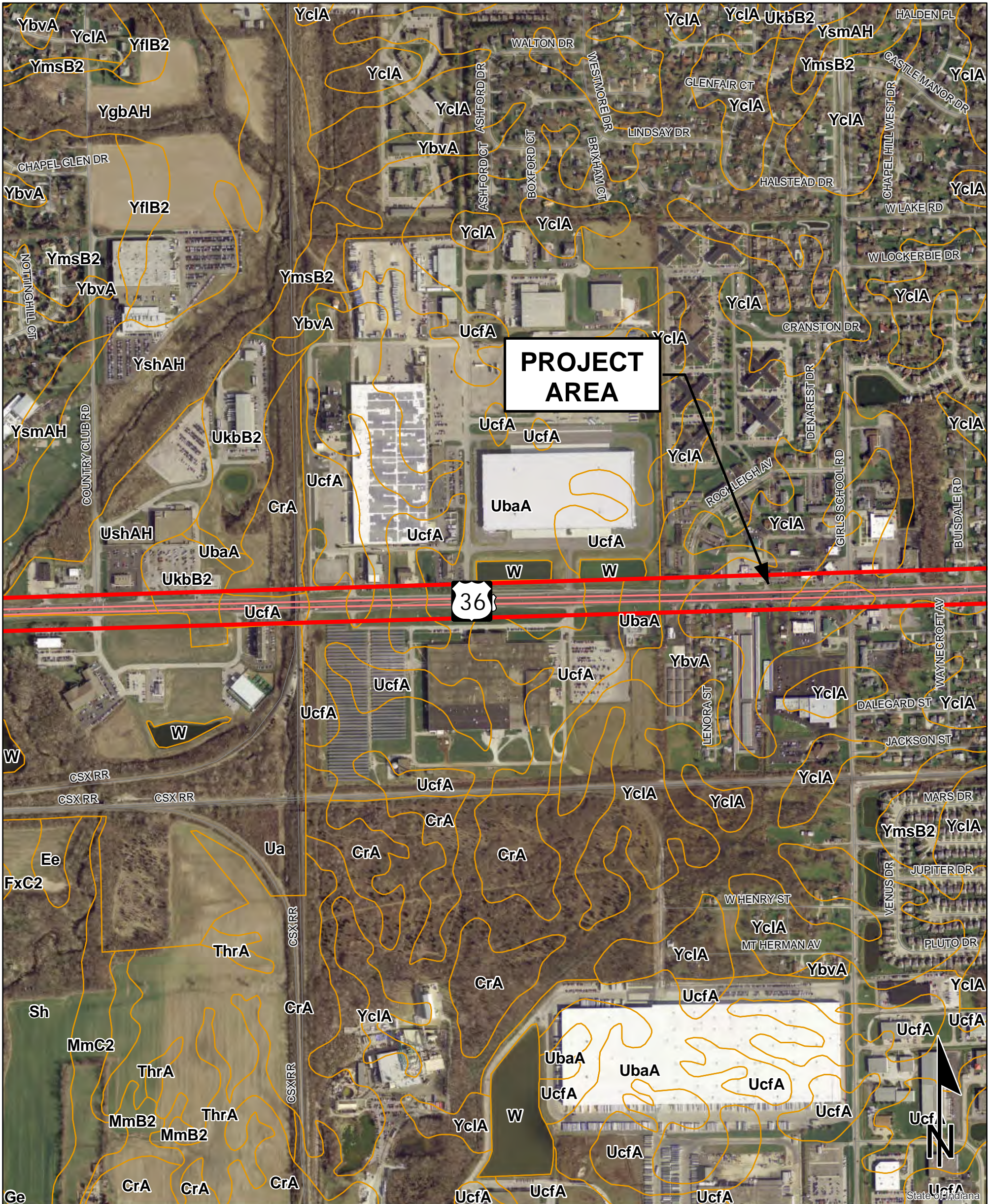
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

NRCS SOILS DATA

Legend

- OaeC - Oakville Fine Sand (3.1% Hydric)
- ApuAN - Antung Muck (0.7% Hydric)
- MhaA - Maumee Loamy Fine Sand (16.1% Hydric)
- AbhAN - Adrian Muck (1.1% Hydric)

Soils Map (2 of 3)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 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.

NRCS SOILS DATA

Legend

- OaeC - Oakville Fine Sand (3.1% Hydric)
- ApuAN - Antung Muck (0.7% Hydric)
- MhaA - Maumee Loamy Fine Sand (16.1% Hydric)
- AbhAN - Adrian Muck (1.1% Hydric)

Solis Map (3 of 3)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 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

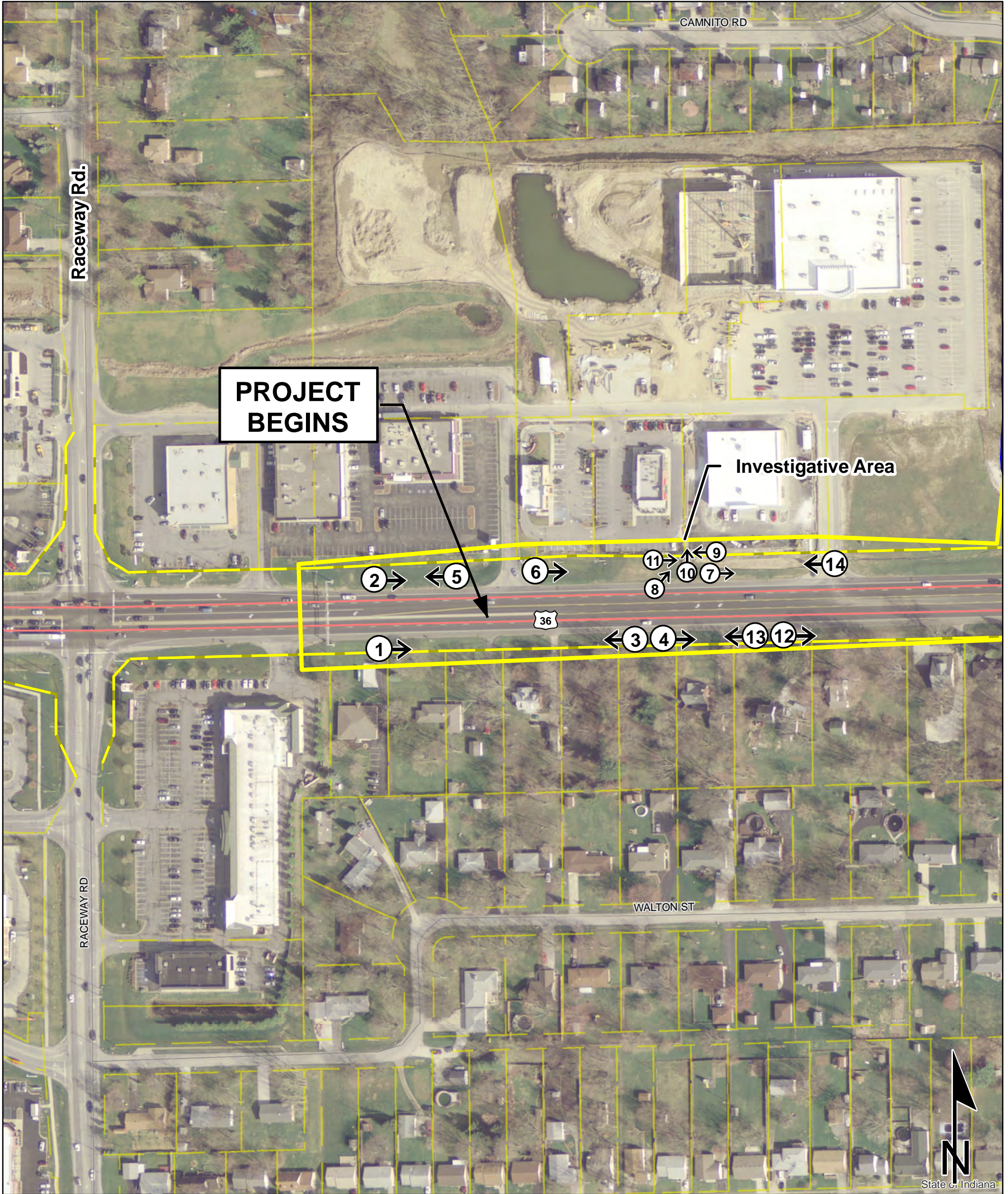
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NRCS SOILS DATA

Legend

- OaeC - Oakville Fine Sand (3.1% Hydric)
- ApuAN - Antung Muck (0.7% Hydric)
- MhaA - Maumee Loamy Fine Sand (16.1% Hydric)
- AbhAN - Adrian Muck (1.1% Hydric)

Photo Key Map (1 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 250 125 0 250 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

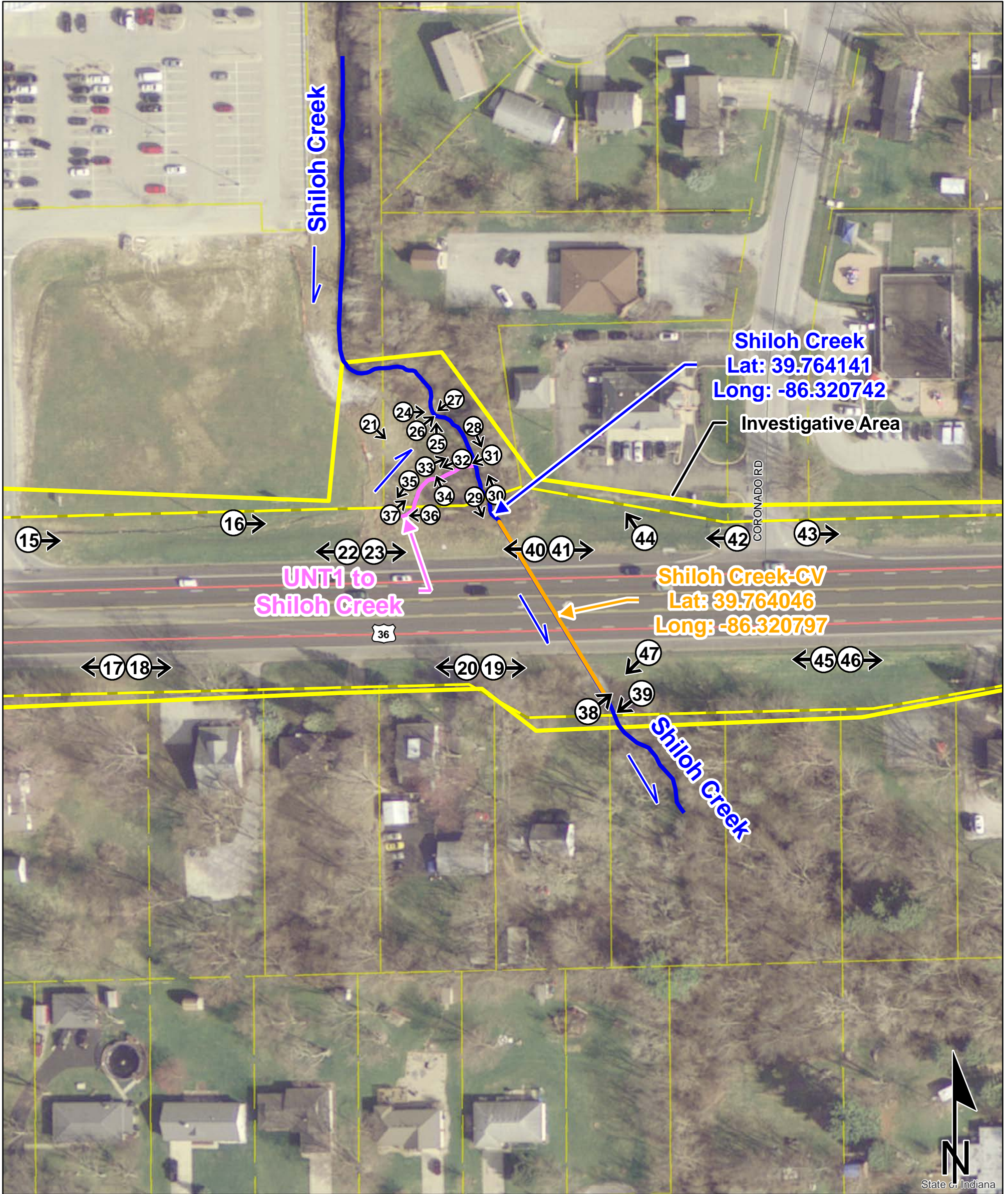
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | |
|----------------|--------------------------|
| Flow Direction | Wetland Line |
| Tributary | Un-named Tributary (UNT) |
| Wetlands | Roadside Ditch (RSD) |
| Open Water | JAR |
| Permanent R/W | Existing R/W |

Photo Key Map (2 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

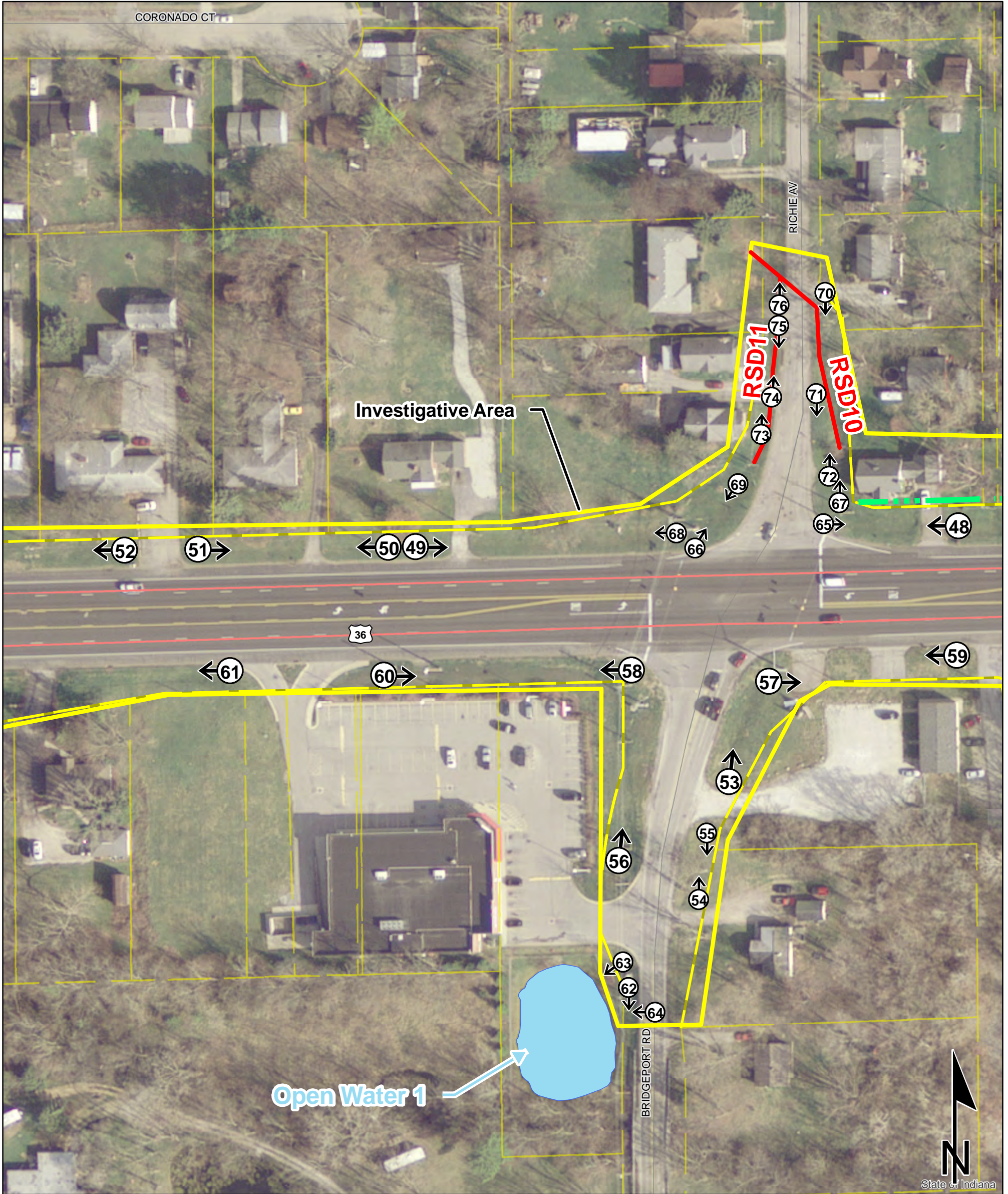
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | |
|----------------|--------------------------|
| Flow Direction | Wetland Line |
| Tributary | Un-named Tributary (UNT) |
| Wetlands | Roadside Ditch (RSD) |
| Open Water | Culvert |
| Permanent R/W | Existing R/W |

Photo Key Map (3 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



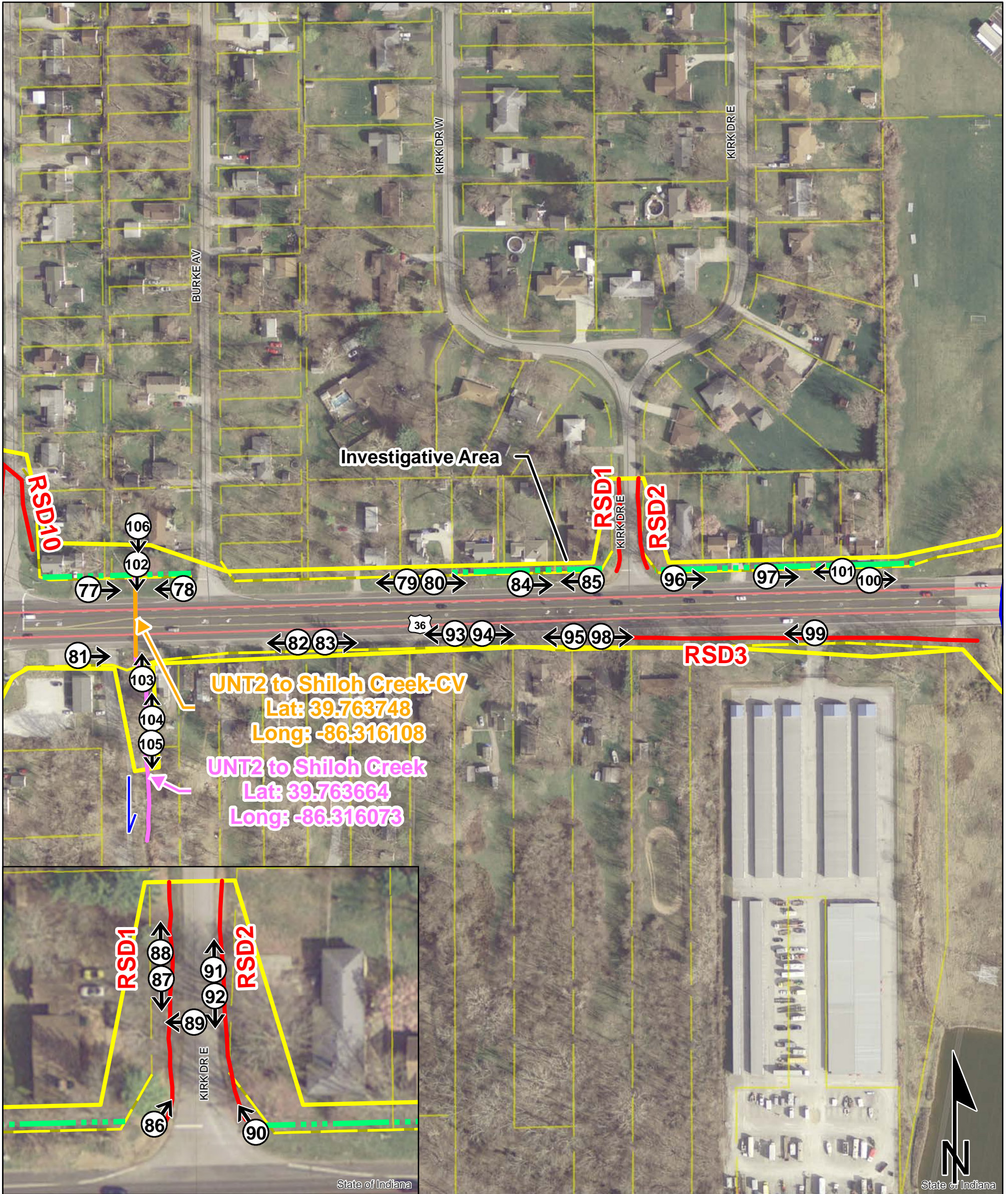
Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

Flow Direction	Wetland Line
Tributary	Un-named Tributary (UNT)
Wetlands	Roadside Ditch (RSD)
Open Water	JAR
Permanent R/W	Existing R/W

Photo Key Map (4 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 250 125 0 250 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

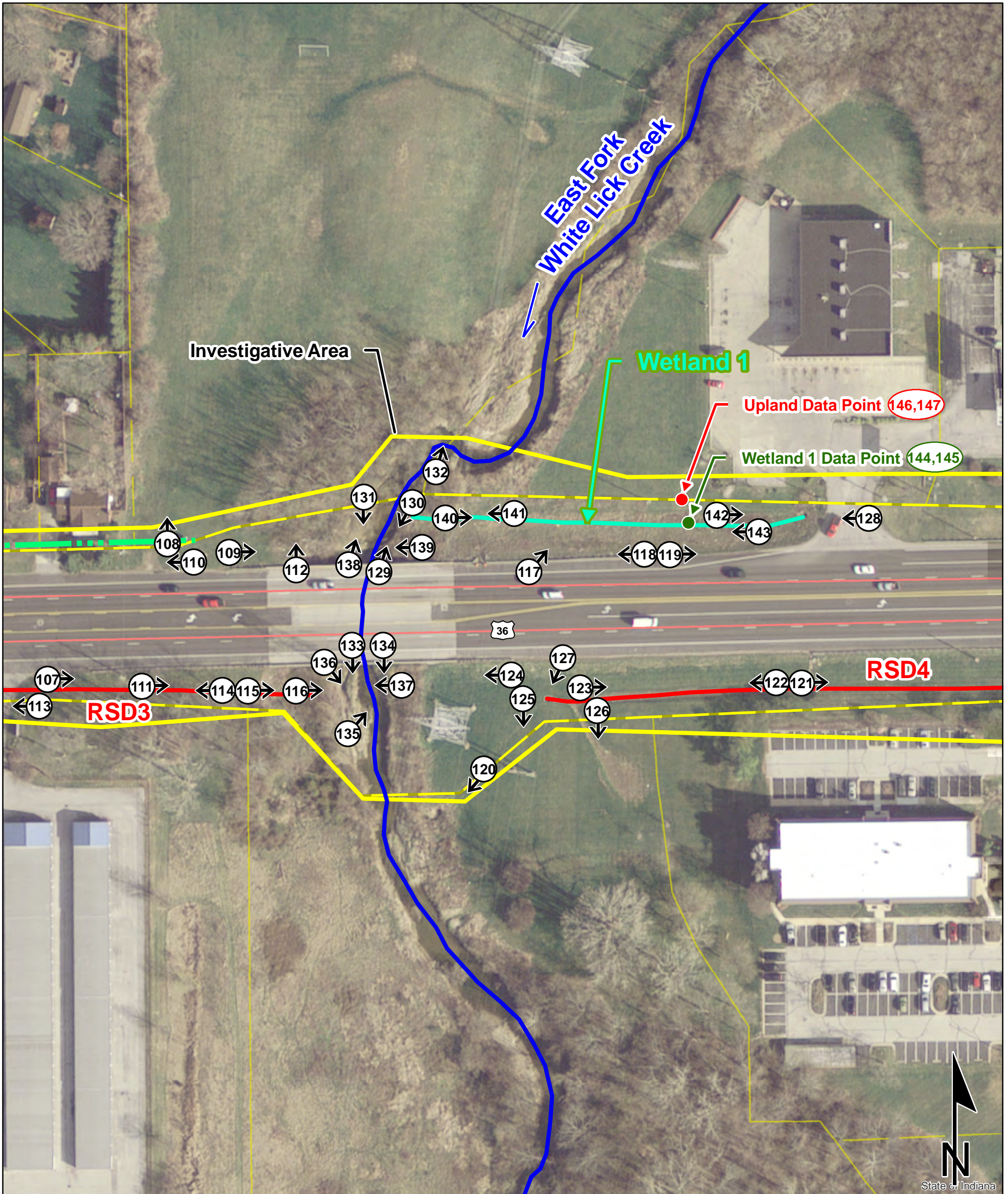
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|--|----------------|--|--------------------------|
| | Flow Direction | | Wetland Line |
| | Tributary | | Un-named Tributary (UNT) |
| | Wetlands | | Roadside Ditch (RSD) |
| | Open Water | | Culvert |
| | Permanent R/W | | Existing R/W |

Photo Key Map (5 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

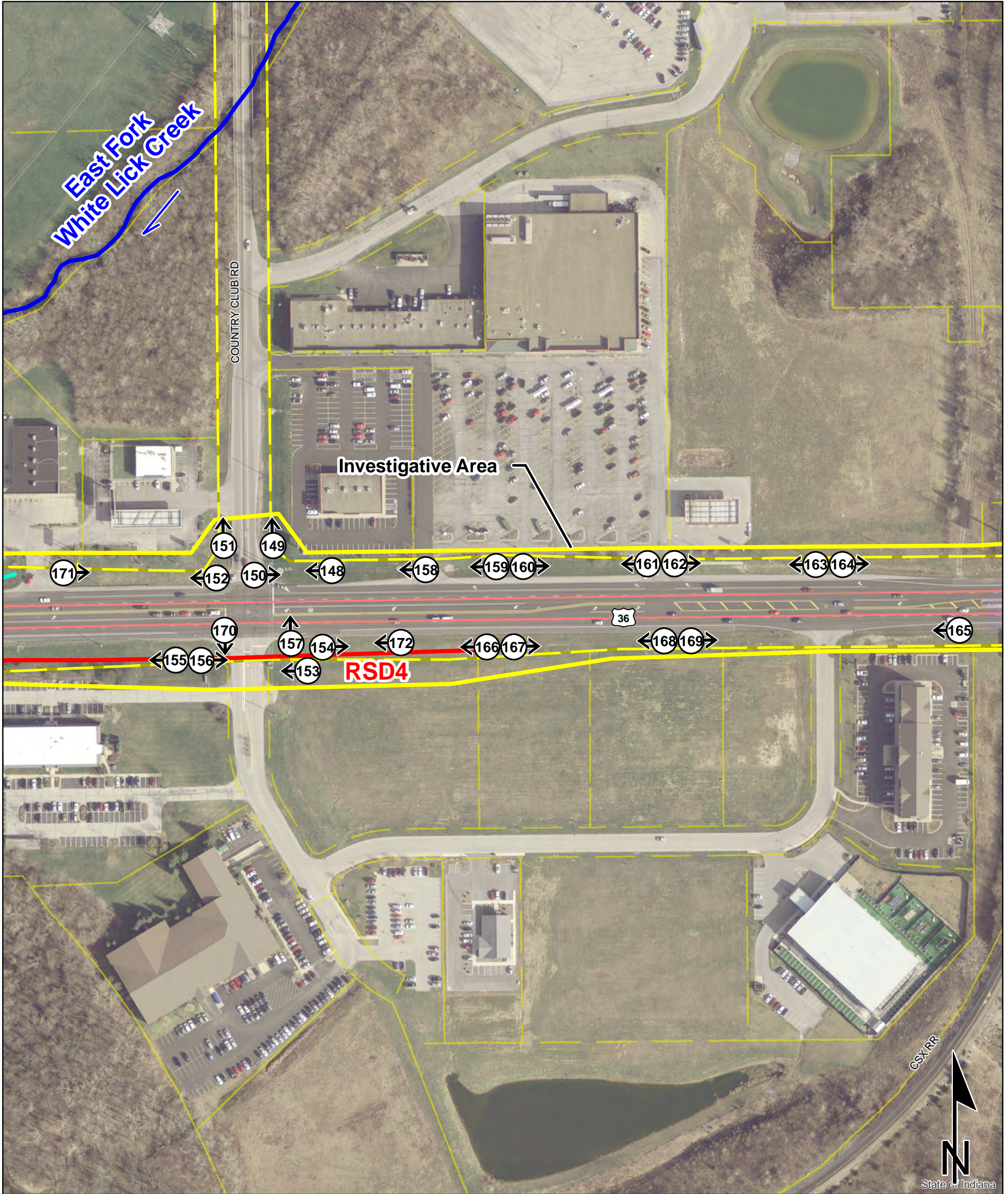
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

Flow Direction	Wetland Line
Tributary	Un-named Tributary (UNT)
Wetlands	Roadside Ditch (RSD)
Open Water	JAR
Permanent R/W	Existing R/W

Photo Key Map (6 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



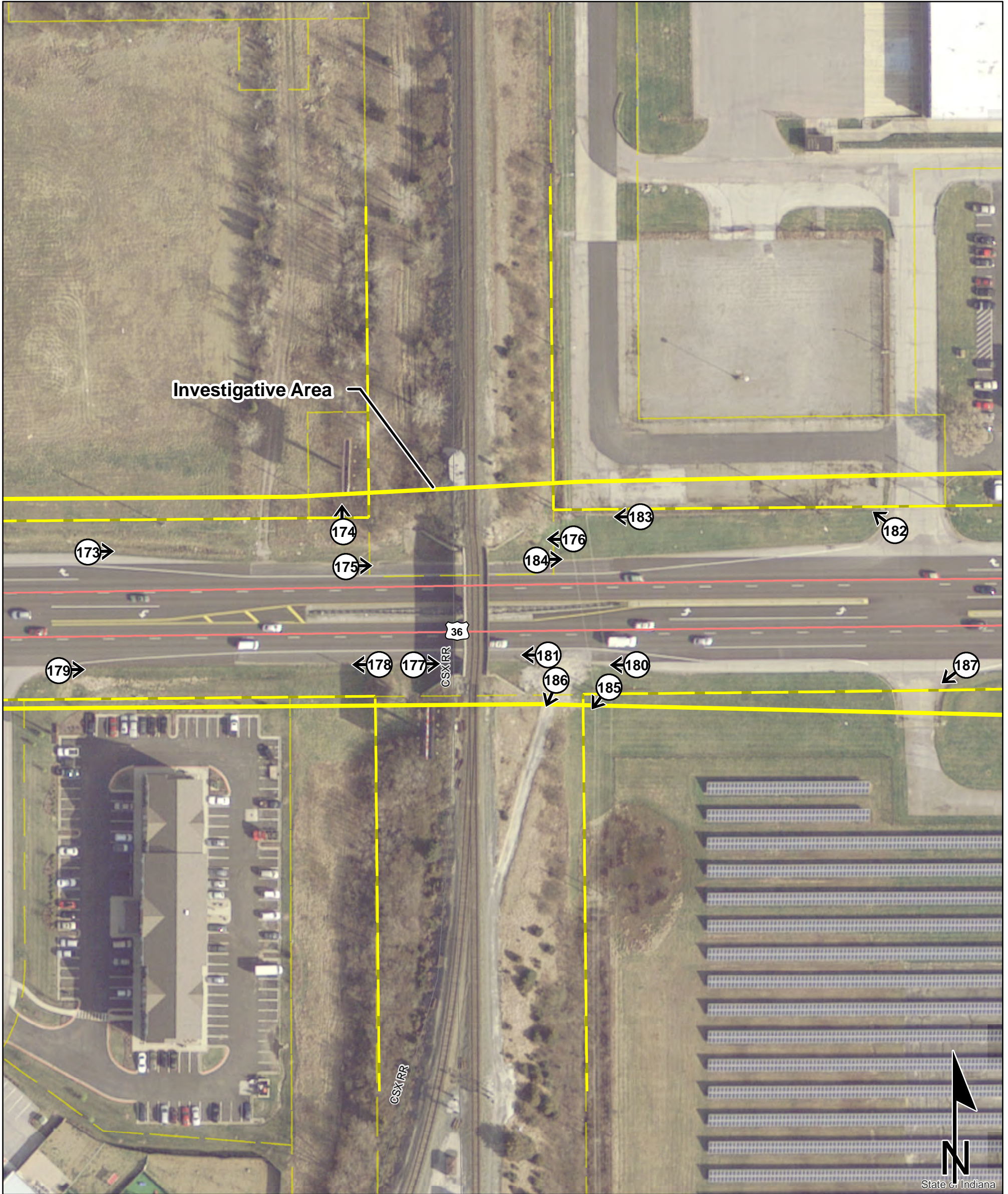
Sources: 250 125 0 250 Feet
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

	Flow Direction		Wetland Line
	Tributary		Un-named Tributary (UNT)
	Wetlands		Roadside Ditch (RSD)
	Open Water		JAR
	Permanent R/W		Existing R/W

Photo Key Map (7 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend




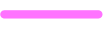



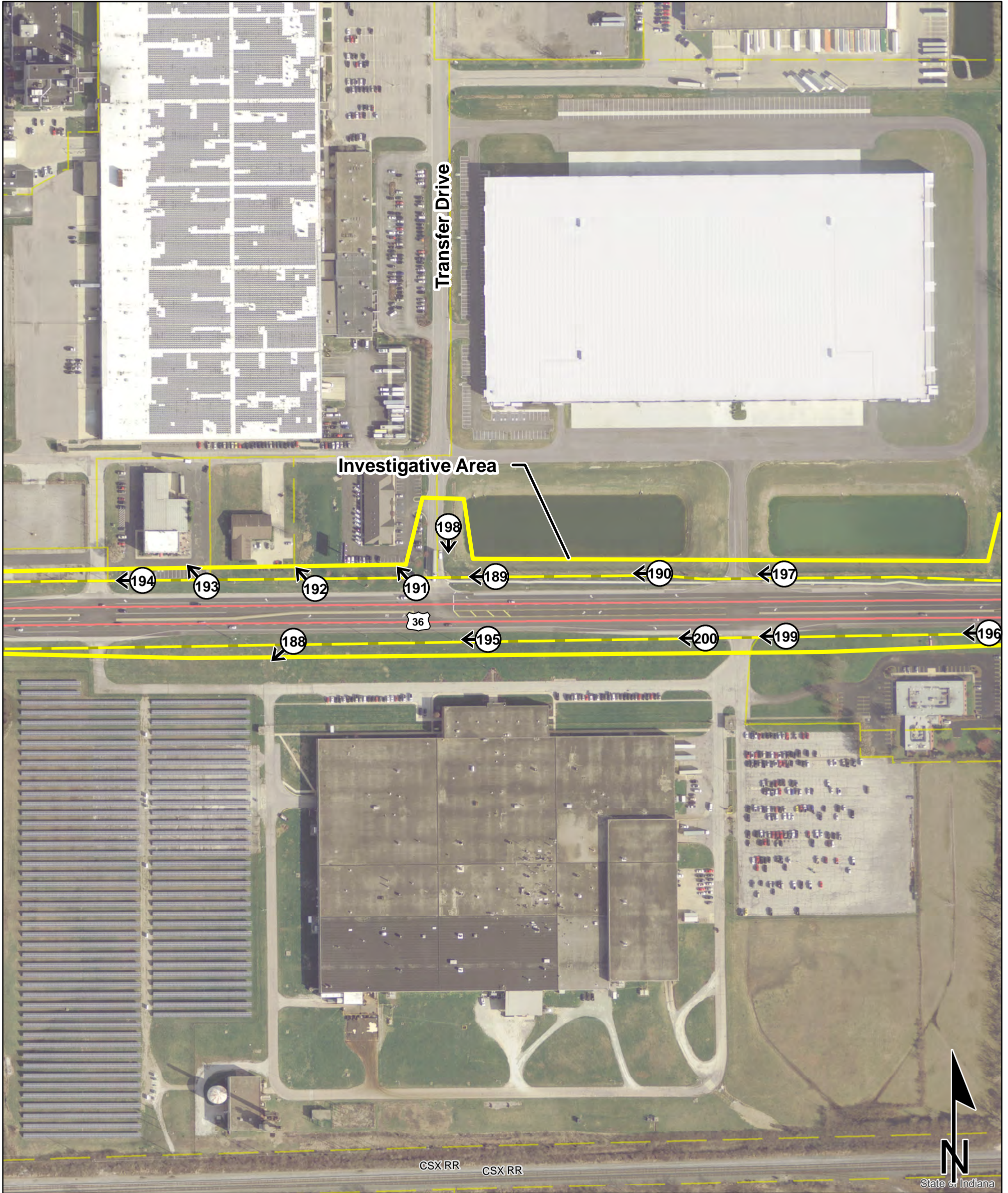
- | | | | |
|---|----------------|---|--------------------------|
|  | Flow Direction |  | Wetland Line |
|  | Tributary |  | Un-named Tributary (UNT) |
|  | Wetlands |  | Roadside Ditch (RSD) |
|  | Open Water |  | JAR |
|  | Permanent R/W |  | Existing R/W |

Photo Key Map (8 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 350 175 0 350 Feet

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

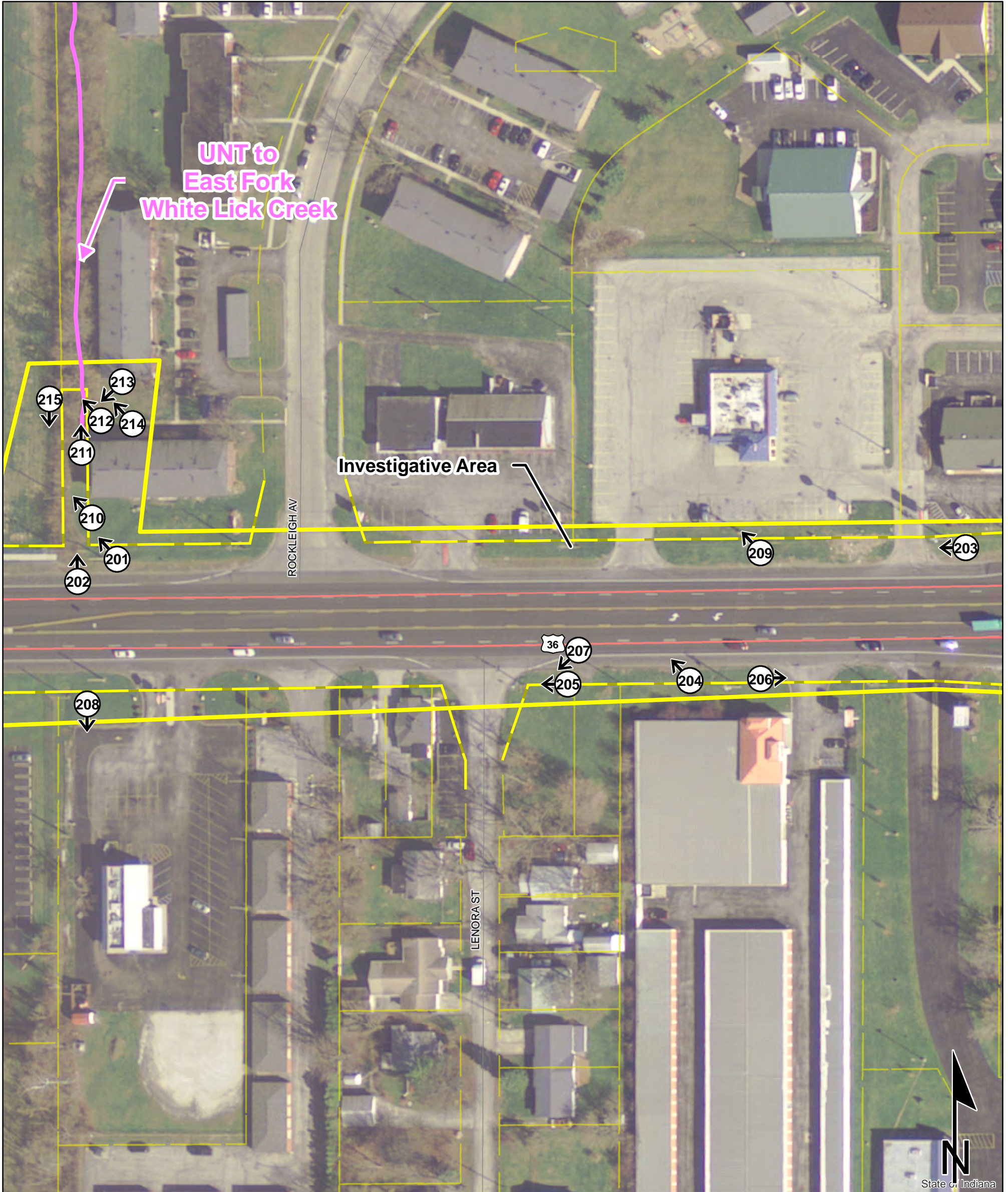
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | |
|----------------|--------------------------|
| Flow Direction | Wetland Line |
| Tributary | Un-named Tributary (UNT) |
| Wetlands | Roadside Ditch (RSD) |
| Open Water | JAR |
| Permanent R/W | Existing R/W |

Photo Key Map (9 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



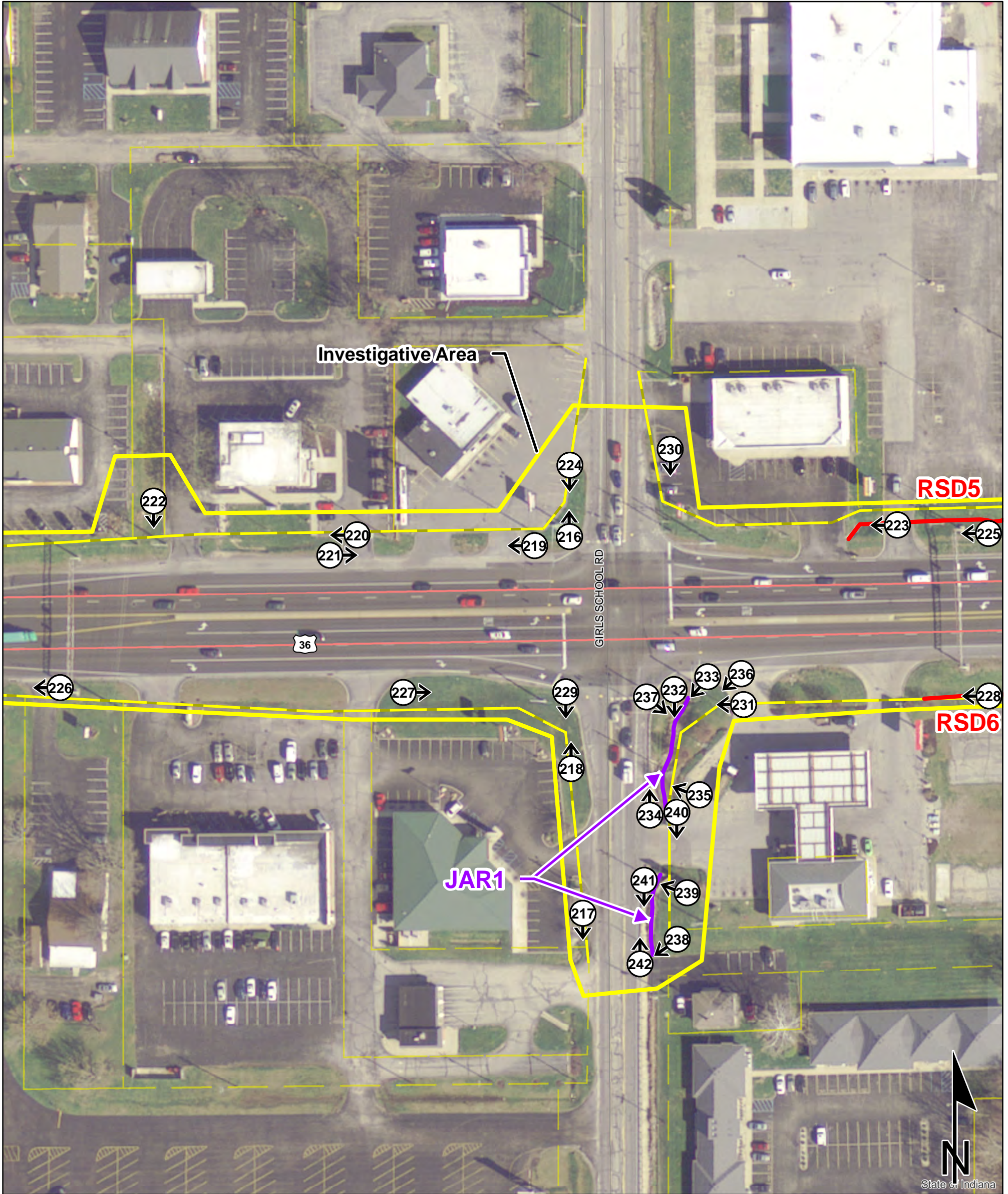
Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

	Flow Direction		Wetland Line
	Tributary		Un-named Tributary (UNT)
	Wetlands		Roadside Ditch (RSD)
	Open Water		JAR
	Permanent R/W		Existing R/W

Photo Key Map (10 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend










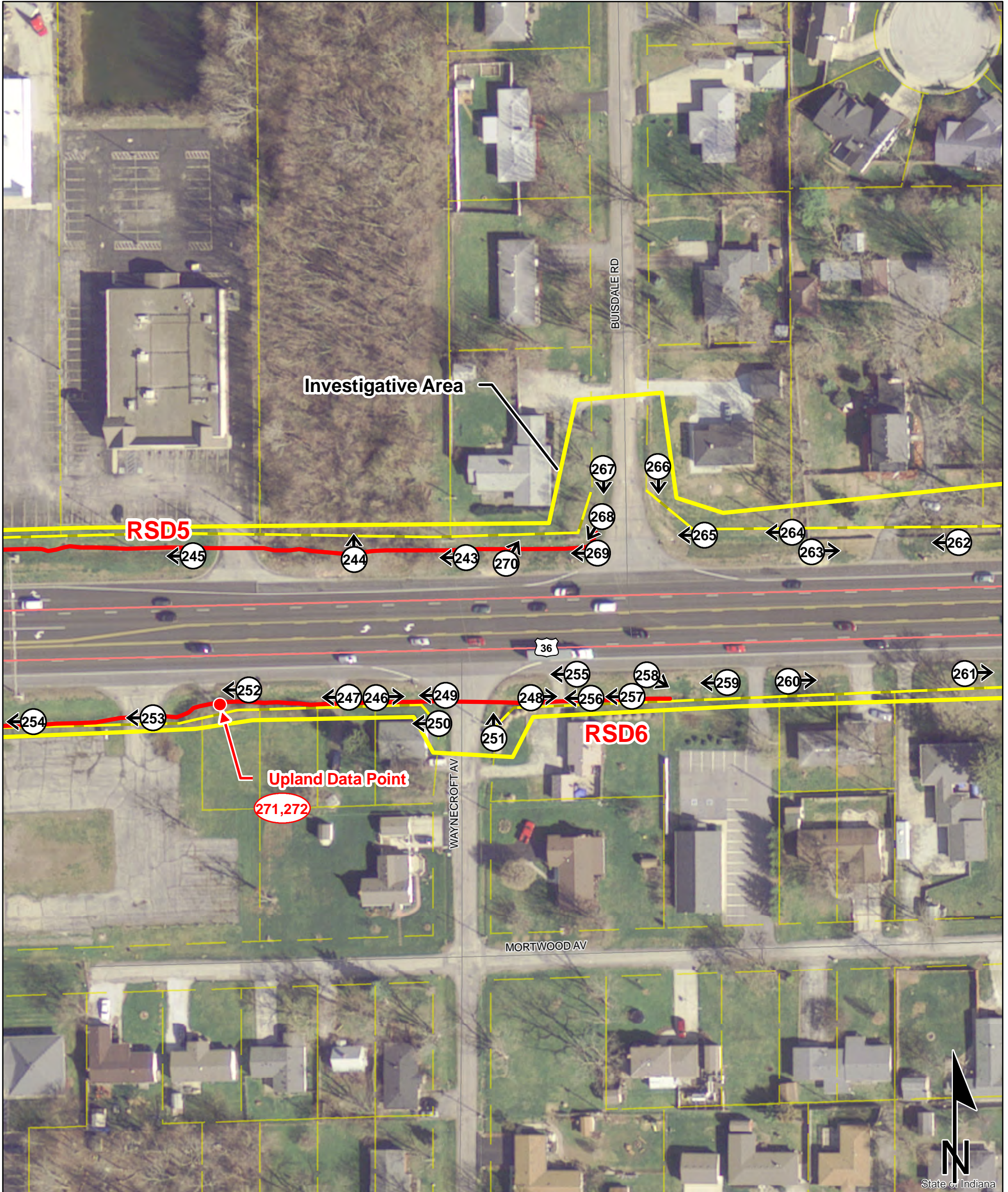
- | | |
|--|--|
|  Flow Direction |  Wetland Line |
|  Tributary |  Un-named Tributary (UNT) |
|  Wetlands |  Roadside Ditch (RSD) |
|  Open Water |  JAR |
|  Permanent R/W |  Existing R/W |

Photo Key Map (11 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

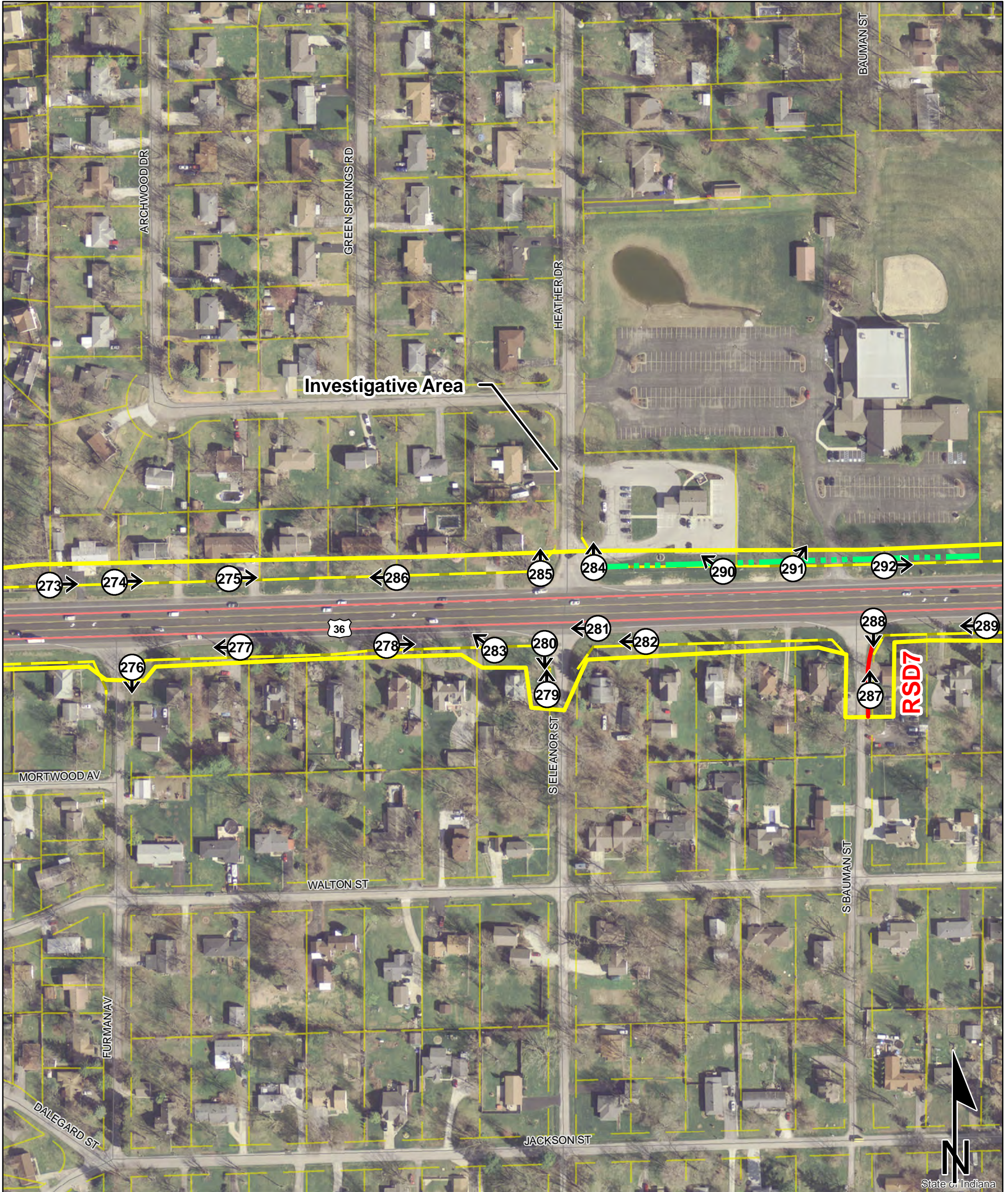
INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|--|----------------|--|--------------------------|
| | Flow Direction | | Wetland Line |
| | Tributary | | Un-named Tributary (UNT) |
| | Wetlands | | Roadside Ditch (RSD) |
| | Open Water | | JAR |
| | Permanent R/W | | Existing R/W |

State of Indiana

Photo Key Map (12 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 260 130 0 260 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

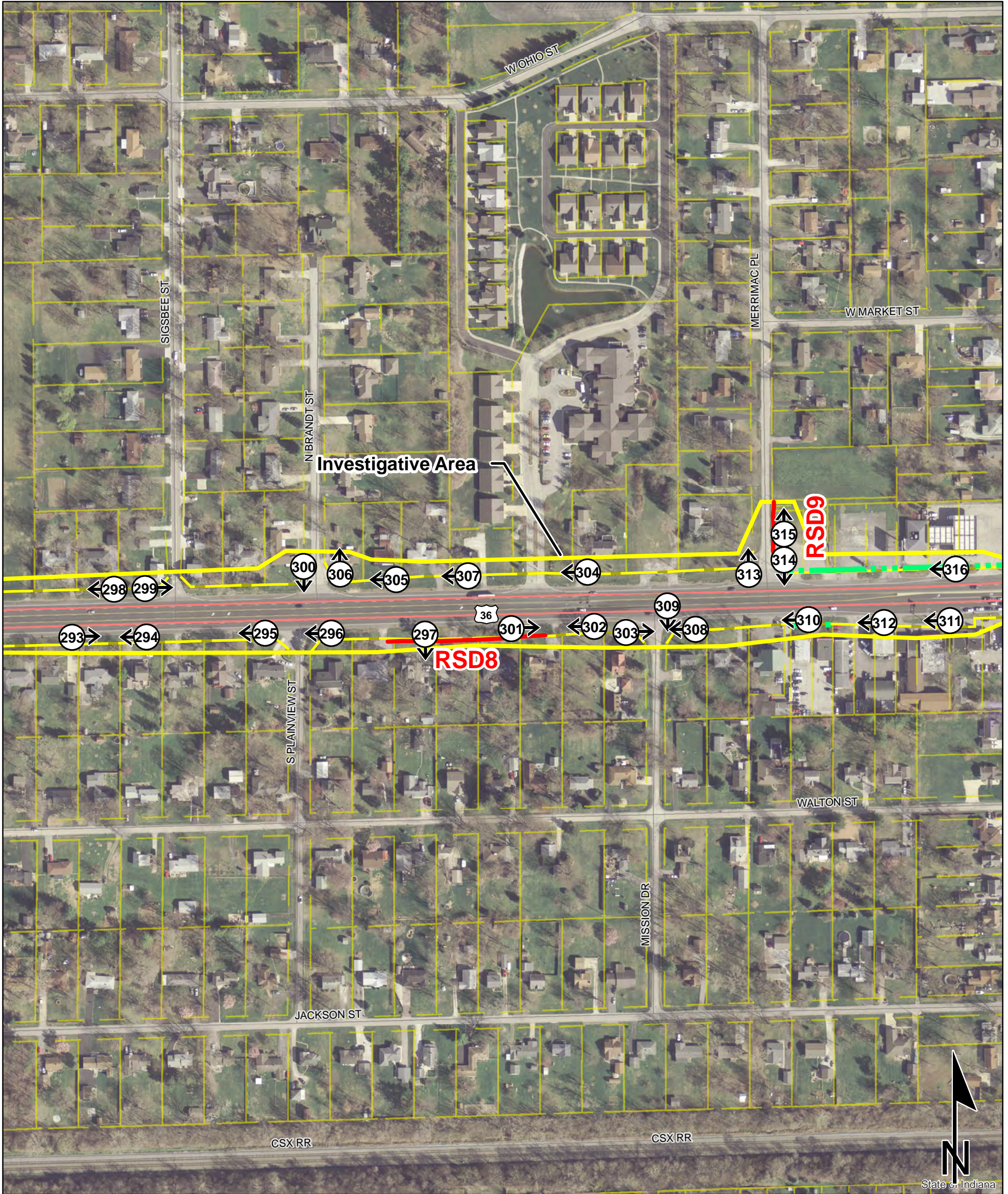
INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|--|----------------|--|--------------------------|
| | Flow Direction | | Wetland Line |
| | Tributary | | Un-named Tributary (UNT) |
| | Wetlands | | Roadside Ditch (RSD) |
| | Open Water | | JAR |
| | Permanent R/W | | Existing R/W |

State of Indiana

Photo Key Map (13 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 350 175 0 350 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend







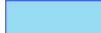



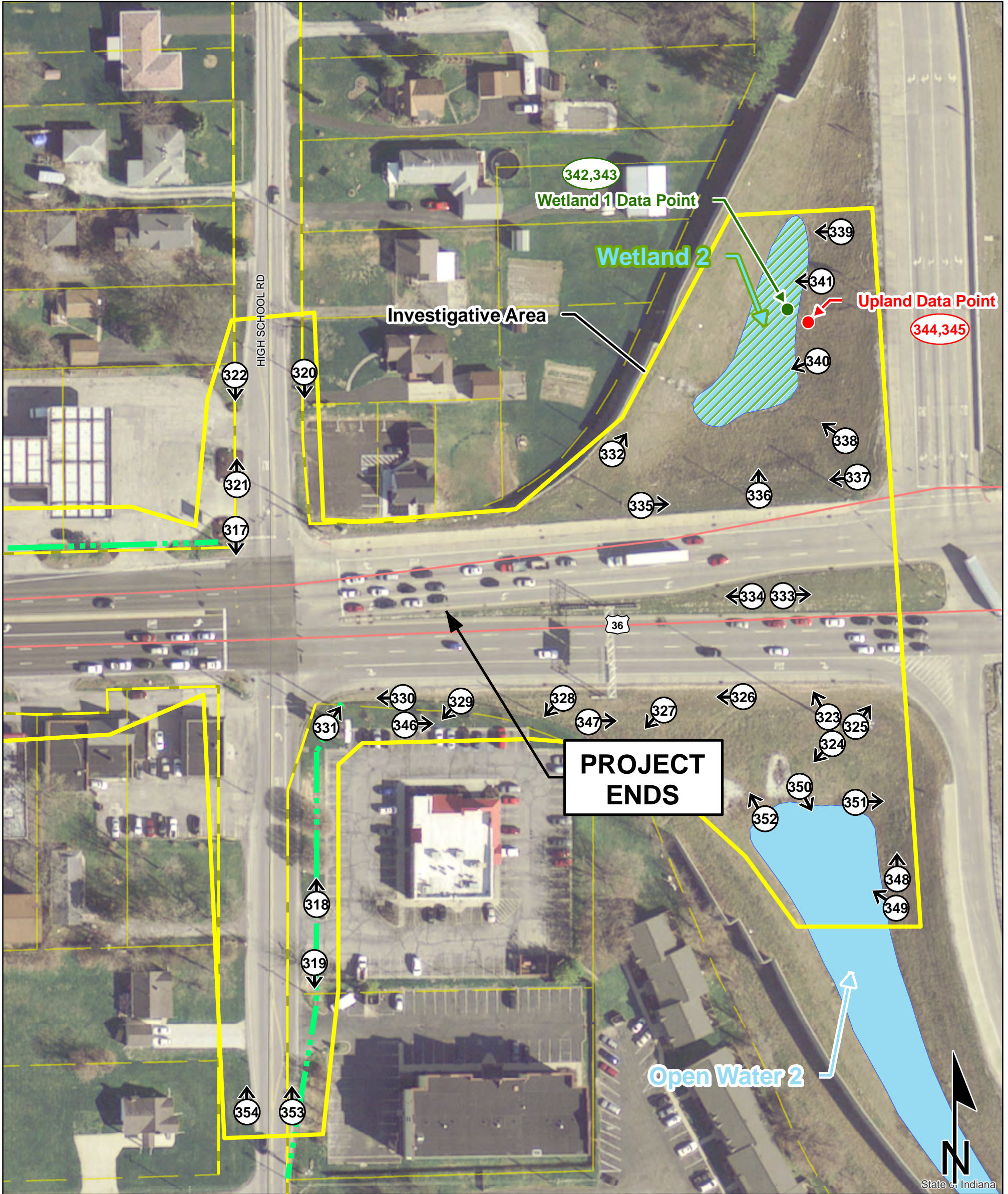
- | | |
|--|--|
|  Flow Direction |  Wetland Line |
|  Tributary |  Un-named Tributary (UNT) |
|  Wetlands |  Roadside Ditch (RSD) |
|  Open Water |  JAR |
|  Permanent R/W |  Existing R/W |

Photo Key Map (14 of 14)
 US 36, from Raceway Rd. to I-465
 Des. No's. 1800035 & 1800037, Corridor Improvements
 Marion County, Indiana



Sources: 125 62.5 0 125 Feet
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

INDIANA STATEWIDE AERIAL IMAGERY FLOWN 2016

Legend

- | | | | |
|--|----------------|--|--------------------------|
| | Flow Direction | | Wetland Line |
| | Tributary | | Un-named Tributary (UNT) |
| | Wetlands | | Roadside Ditch (RSD) |
| | Open Water | | JAR |
| | Permanent R/W | | Existing R/W |

State of Indiana



Photo 1- US 36 South Side East View, (Map 1) - 17 SEP 2020



Photo 2- US 36 North Side East View, (Map 1) - 17 SEP 2020



Photo 3- US 36 South Side West View, (Map 1) - 17 SEP 2020



Photo 4- US 36 South Side East View, (Map 1) - 17 SEP 2020



Photo 5- US 36 North Side West View, (Map 1) -17 SEP 2020



Photo 6- US 36 North Side East View, (Map 1) -17 SEP 2020



Photo 7- US 36 North Side East View, (Map 1) -17 SEP 2020



Photo 8- US 36 North Side NE View, (Map 1) -17 SEP 2020



Photo 9- US 36 North Side West View, (Map 1) - 17 SEP 2020



Photo 10- US 36 North Side North View (Map 1) - 7 OCT 2020



Photo 11- US 36 North Side East View, (Map 1) - 7 OCT 2020



Photo 12- US 36 South Side East View, (Map 1) - 17 SEP 2020



Photo 13- US 36 South Side West View, (Map 1) - 17 SEP 2020



Photo 14- US 36 North Side West View, (Map 1) - 17 SEP 2020



Photo 15- US 36 North Side East View, (Map 2) - 17 SEP 2020



Photo 16- US 36 North Side East View, (Map 2) - 17 SEP 2020



Photo 17- US 36 South Side West View, (Map 2) - 17 SEP 2020



Photo 18- US 36 South Side East View, (Map 2) - 17 SEP 2020



Photo 19- US 36 South Side East View, (Map 2) - 17 SEP 2020



Photo 20- US 36 South Side West View, (Map 2) - 17 SEP 2020



Photo 21- US 36 North Side Southeast View, (Map 2) - 17 SEP 2020



Photo 22- US 36 North Side West View, (Map 2) - 17 SEP 2020



Photo 23- US 36 North Side East View, (Map 2) - 17 SEP 2020



Photo 24- Shiloh Creek East View, (Map 2) - 17 SEP 2020



Photo 25- Shiloh Creek North View, (Map 2) - 17 SEP 2020



Photo 26- Shiloh Creek Pipe Northeast View, (Map 2) - 17 SEP 2020



Photo 27- Shiloh Creek Southwest View, (Map 2) - 17 SEP 2020



Photo 28- Shiloh Creek Southeast View, (Map 2) - 17 SEP 2020



Photo 29- Shiloh Creek Culvert Southeast View, (Map 2) - 17 SEP 2020



Photo 30- Shiloh Creek from Culvert Northwest View, (Map 2) - 17 SEP 2020
OHWM: 39.764141, -86.320742



Photo 31- Shiloh Creek at UNT1 to Shiloh Creek Southwest View, (Map 2) - 17 SEP 2020



Photo 32- UNT1 to Shiloh Creek Southwest View, (Map 2) - 17 SEP 2020



Photo 33- UNT1 to Shiloh Creek Downstream
Northeast View, (Map 2) - 17 SEP 2020



Photo 34- UNT1 to Shiloh Creek Pool North View, (Map 2) - 17 SEP 2020



Photo 35- UNT1 to Shiloh Creek Upstream,
Southwest View, (Map 2) - 17 SEP 2020

OHW - 39.764135, -86.320906



Photo 36- UNT1 to Shiloh Creek Culvert
Southwest View, (Map 2) - 17 SEP 2020



Photo 37- UNT1 to Shiloh Creek Downstream
Northeast View, (Map 2) - 17 SEP 2020



Photo 38- Shiloh Creek Culvert Northeast View, (Map 2) - 17 SEP 2020



Photo 39- Shiloh Creek Southwest View, (Map 2) - 17 SEP 2020



Photo 40- US 36 North Side West View,
(Map 2) - 17 SEP 2020



Photo 41- US 36 North Side East View,
(Map 2) - 17 SEP 2020



Photo 42- US 36 North Side West View,
(Map 2) - 17 SEP 2020



Photo 43- US 36 North Side East View,
(Map 2) - 17 SEP 2020



Photo 44- US 36 North Side North View,
(Map 2) - 17 SEP 2020



Photo 45- US 36 South Side West View, (Map 2) -17 SEP 2020



Photo 46- US 36 South Side East View, (Map 2) -17 SEP 2020



Photo 47 - Shiloh Creek Culvert, Southwest View, (Map 2) -17 SEP 2020



Photo 48- US 36 North Side West View, (Map 3) -17 SEP 2020



Photo 49- US 36 North Side East View, (Map 3) -17 SEP 2020



Photo 50- US 36 North Side West View, (Map 3) -17 SEP 2020



Photo 51- US 36 North Side East View, (Map 3) -17 SEP 2020



Photo 52- US 36 North Side West View, (Map 3) -17 SEP 2020



Photo 53- Bridgeport Road East Side North View,
(Map 3) -- 7 OCT 2020



Photo 54- Bridgeport Road East Side North View,
(Map 3) -- 7 OCT 2020



Photo 55- Bridgeport Road East Side South View,
(Map 3) - 7 OCT 2020



Photo 56- Bridgeport Road West Side North View,
(Map 3) - 7 OCT 2020



Photo 57- US 36 & Ritchie Avenue, Southeast Corner, East View, (Map 3) - 17 SEP 2020



Photo 58- US 36 & Ritchie Avenue, Southwest Corner, West View, (Map 3) - 17 SEP 2020



Photo 59- US 36 South Side West View, (Map 3) -17 SEP 2020



Photo 60- US 36 South Side East View, (Map 3) -17 SEP 2020



Photo 61- US 36 South Side West View, (Map 3) - 17 SEP 2020



Photo 62- Bridgeport West Side and Open Water 1, South View, (Map 3) - 7 OCT 2020



Photo 63- Open Water 1, Southwest View, (Map 3) - 7 OCT 2020



Photo 64- Open Water 1, West View, (Map 3) - 7 OCT 2020



Photo 65- US 36 & Ritchie Avenue, Northeast Corner, East View, (Map 3) - 17 SEP 2020



Photo 66- US 36 & Ritchie Avenue, Northwest Corner, Northeast View, (Map 3) - 17 SEP 2020



Photo 67- US 36 & Ritchie Avenue, Northeast Corner, North View, (Map 3) - 17 SEP 2020



Photo 68- US 36 & Ritchie Avenue, Northwest Corner, West View, (Map 3) - 17 SEP 2020



Photo 69- Ritchie Avenue, West Side, Southwest View (Map 3) - 12 MAR 2021



Photo 70- RSD10 South View (Map 3) - 12 MAR 2021



Photo 71- RSD10 South View- 12 MAR 2021



Photo 72- RSD10 North View- 12 MAR 2021



Photo 73- RSD11 North View (Map 3) - 12 MAR 2021



Photo 74- RSD11 North View- (Map 3) - 12 MAR 2021



Photo 75- RSD11, South View, (Map 3) - 12 MAR 2021



Photo 76- RSD10 and RSD11 (Map 3) - 12 MAR 2021



Photo 77- US 36 North Side East View, (Map 4) - 17 SEP 2020



Photo 78- US 36 North Side West View, (Map 4) - 17 SEP 2020



Photo 79- US 36 North Side West View, (Map 4) - 17 SEP 2020



Photo 80- US 36 North Side East View, (Map 4) - 17 SEP 2020



Photo 81- US 36 South Side East View, (Map 4) - 17 SEP 2020



Photo 82- US 36 South Side West View, (Map 4) - 17 SEP 2020



Photo 83- US 36 South Side East View, (Map 4) - 17 SEP 2020



Photo 84- US 36 North Side East View, (Map 4) - 17 SEP 2020



Photo 85- US 36 North Side West View, (Map 4) - 17 SEP 2020



Photo 86- RSD1, (Map 4) -17 SEP 2020



Photo 87- RSD1 South View- (Map 4) -17 SEP 2020



Photo 88- RSD1 North View (Map 4) - 17 SEP 2020



Photo 89- RSD1 Dredging, West View, (Map 4) - 17 SEP 2020



Photo 90- RSD1, Kirk Drive at US 36, (Map 4) - 17 SEP 2020



Photo 91- RSD2 North View, (Map 4) -17 SEP 2020



Photo 92- RSD2 South View, (Map 4) -- 17 SEP 2020



Photo 93- US 36 South Side West View, (Map 4) - 17 SEP 2020



Photo 94- US 36 South Side East View, (Map 4) - 17 SEP 2020



Photo 95- US 36 South Side West View, (Map 4) - 17 SEP 2020



Photo 96- US 36 North Side East View, (Map 4) - 17 SEP 2020



Photo 97- US 36 North Side East View, (Map 4) -17 SEP 2020



Photo 98- RSD3 East View, (Map 4) -17 SEP 2020



Photo 99- RSD3 West View, (Map 4) -17 SEP 2020



Photo 100- US 36 North Side East View, (Map 4) - 17 SEP 2020



Photo 101- US 36 North Side West View, (Map 4) -- 17 SEP 2020



Photo 102- UNT2 to Shiloh Creek South View, (Map 4) -17 SEP 2020



Photo 103- UNT2 to Shiloh Creek North View, (Map 4) - 17 SEP 2020



Photo 104- UNT2 to Shiloh Creek North View, (Map 4) - 17 SEP 2020



Photo 105- UNT2 to Shiloh Creek South View, (Map 4) -- 17 SEP 2020
OHWM: 39.763664, -86.316073



Photo 106- UNT2 to Shiloh Creek South View, (Map 4) -- 17 SEP 2020



Photo 107- RSD3 East View (Map 5) -- 17 SEP 2020



Photo 108- US 36 North Side North View,
(Map 5) - 17 SEP 2020



Photo 109- US 36 North Side East View,
(Map 5 - 17 SEP 2020)



Photo 110- US 36 North Side West View,
(Map 5) - 17 SEP 2020



Photo 111- RSD3, East View (Map 5) - 17 SEP 2020



Photo 112- US 36 North Side North View,
(Map 5) - 17 SEP 2020



Photo 113- RSD3, West View, (Map 5) - 17 SEP 2020



Photo 114- RSD3, West View, (Map 5) - 17 SEP 2020



Photo 115- RSD3, East View, (Map 5) - 17 SEP 2020



Photo 116- End of RSD3, West View, (Map 5) -17 SEP 2020



Photo 117- Northeast Quadrant at East Fork White Lick Creek Northeast View, (Map 5) - 17 SEP 2020



Photo 118- US 36 West View, (Map 5) - 17 SEP 2020



Photo 119- US 36 East View, (Map 5) - 17 SEP 2020



Photo 120- Right of Way Marker Southwest View, (Map 5) - 17 SEP 2020



Photo 121- RSD4, East View,
(Map 5) - 17 SEP 2020



Photo 122- RSD4, West View,
(Map 5) - 17 SEP 2020



Photo 123- US 36 South Side East View,
(Map 5) - 17 SEP 2020



Photo 124- US 36 South Side West View,
(Map 5) - 17 SEP 2020



Photo 125- US 36 South Side South View,
(Map 5) - 17 SEP 2020



Photo 126- US 36 South Side South View,
(Map 5) - 17 SEP 2020



Photo 127- RSD4 Culvert, Southwest View,
(Map 5) - 17 SEP 2020



Photo 128- US 36 North Side West View,
(Map 5 - 17 SEP 2020



Photo 129- East Fork White Lick Creek Northeast View
Upstream, (Map 5) - 17 SEP 2020



Photo 130- East Fork White Lick Creek Southwest View
Downstream, (Map 5) - 17 SEP 2020



Photo 131- East Fork White Lick Creek Structure South View,
(Map 5) - 17 SEP 2020



Photo 132- East Fork White Lick Creek North View
Upstream, (Map 5) - 17 SEP 2020