

# RED FLAG INVESTIGATION

## Broadway Street/Landin Road and Rose Avenue

New Haven, Indiana (Allen County)

DES #1400694

May 15, 2015

### NARRATIVE

Broadway Street/Landin Road is a north-south urban minor arterial that connects New Haven with northeast Fort Wayne. The original issue of this corridor was identified at the intersection with Rose Avenue. The concern was turning movement crashes and right angle crashes. In 2008 New Haven officials attempted to improve the turning movements by making the signal a split phase for the north and south movement (Broadway/Landin). This change in signal timings did minimize the number of left turning related crashes. However, this change also created longer queues which have resulted in an increase of rear end collisions and driver frustration.

After further investigation and studies were conducted (including a Roadway Safety Audit on June 20, 2013) it was determined that a number of issues at this intersection continue to exist. While the split phase change has decreased the number of left turn crashes the overall frequency of crashes has remained steady. The data also showed the number of aggressive driving crashes and driver habits have increased. Issues identified as problems include lane configuration on Broadway/Landin, street parking, posted and observed speeds, congestion and bicycle and pedestrian traffic.

This improvement project will reconstruct the roadway to create a three lane section from North River Road to Powers Street. The road improvements will create opposing left turn lanes at the intersection with Rose Avenue as well as provide bicycle and pedestrian facilities along both sides of the roadway. The improvement will also include illumination, non-mountable curbs, improved crosswalks, pavement markings and improved signage.

### SUMMARY

<b>Infrastructure</b>			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Religious Facilities	<b>5</b>	Recreational Facilities	<b>13</b>
Airports	<b>N/A</b>	Pipelines	<b>1</b>
Cemeteries	<b>1</b>	Railroads	<b>2</b>
Hospitals	<b>N/A</b>	Trails	<b>3</b>
Schools	<b>4</b>	Managed Lands	<b>10</b>
Museums	<b>N/A</b>		

### Explanation:

- There are five “Religious Facilities” located within the half mile radius but not within the project area. None of the religious facilities will be affected by the project.
- There is one “Cemetery” located within the half mile radius but not within the project area. This will not be affected by the project.

- There are four “Schools” identified within a half mile radius of the project. None of them are adjacent to the project. They will not be affected by the project.
- There are thirteen “Recreational Facilities” identified within a half mile radius of the project. Of the thirteen facilities, two are adjacent to the project and may be affected by the project. The two facilities adjacent to the project area include the following:
  - The first site is the Canal Landing located at 427 Broadway Street. This site touches the southern tip of the project area. It may be affected by the project.
  - The second recreational facility is Moser Park Woods. It runs adjacent to the west side of Broadway Street. It may be affected by the project.
- There are two “Railroads” located within the half mile radius. One of the rail corridors intersects the project area. The Norfolk Southern Railroad intersects the project area approximately 500 feet north of the Broadway Street/Landin Road & Rose Avenue intersection. It will be affected by the project.
- There is one “Pipeline” identified within a half mile radius of the project. It does not run adjacent to or cross the project area. It will not be affected by the project.
- There are three “Trails” identified within a half mile radius of the project area. Two “Trails” are located near the project area and are identified as the following:
  - The New Haven River Greenway which extends to Moser Park runs adjacent to the west side of the project area between Rose Avenue and North River Road. It may be affected by the project.
  - The other trail is located along Rose Avenue east and west of Broadway Street/Landin Road. It intersects with the project area at the Broadway Street/Landin Road and Rose Avenue intersection. It may be affected by the project.
- There are ten “Managed Lands” within a half mile radius of the project area. Two of the ten “Managed Lands” are adjacent to or within the project area. They include the following:
  - Moser Park Woods is located adjacent to the west side of Broadway Street south of Rose Avenue. It may be affected by the project.
  - The Canal Landing is located on the east side of Broadway Street near the southern tip of the project area. It may be affected by the project.

<b>Water Resources</b>			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
NWI - Wetlands	<b>24</b>	IDEM 303d Listed Lakes	<b>N/A</b>
Karst Springs	<b>N/A</b>	Lakes	<b>7</b>
Canal Structures – Historic	<b>N/A</b>	Floodplain - DFIRM	<b>Yes</b>
IDEM 303d Listed Rivers and Streams (Impaired)	<b>5</b>	Cave Entrance Density	<b>N/A</b>
Rivers and Streams	<b>6</b>	Sinkhole Areas	<b>N/A</b>
Canal Routes - Historic	<b>1</b>	Sinking-Stream Basins	<b>N/A</b>
Outstanding Rivers (Special Interest Waterways)	<b>N/A</b>	Line of Protection	<b>N/A</b>
*High Capacity Wells (Wellhead Protection Areas)	<b>2</b>	National River Inventory (NRI)	<b>N/A</b>

**Explanation:**

- There are twenty-four “NWI – Wetlands” within the half mile radius. Five of the potential wetlands are adjacent to or near the project area. They include the following:
  - Two potential wetlands are located adjacent to Broadway Street south of Rose Avenue. One is located on the west side in Moser Park Woods and the other is located on the southeast side of the Rose Avenue and Broadway Street intersection. They may be affected by the project.

- One potential wetland is adjacent to the project area on the east side of Landin Road approximately 1,000 feet north of Rose Avenue. It may be affected by the project.
- One potential wetland is near the project area on the east side of Landin Road just south of the Maumee River. It may be affected by the project.
- The Maumee River is identified as a potential wetland. It crosses the project area just south of the Landin Road and North River Road intersection. It may be affected by the project.
- There are five “IDEM 303d Listed Rivers and Streams” segments identified within the half mile radius. These five segments create the Maumee River. The Maumee River crosses the north part of the project area just south of North River Road. It may be affected by the project.
- There are six “Rivers and Streams” identified within the half mile radius. Two of the six rivers and streams are adjacent to or intersect the project area. They include the following:
  - The Maumee River crosses the project area just south of the Landin Road and North River Road intersection. It may be affected by the project.
  - The ND (Natural Drain) water line, connected to the Trier Drain, runs adjacent to the west side of the project area between Rose Avenue and North River Road. It may be affected by the project.
- \*High Capacity Wells – To protect these features they are not identified in the water resource map due to their locational sensitivity. There are two “High Capacity Wells” located within the half mile radius. One of the two high capacity wells is within the project area and may be affected by the project.
- There are seven “Lakes” identified within the half mile radius. One of the seven “Lakes” is located near the project area. It is located on the east side of Landin Road just south of the Maumee River. It may be affected by the project.
- There is one “Historic Canal Route” identified within the half mile radius. The historical Wabash-Erie Canal route is located near the southern end of the project area. The canal route does not appear to intersect with the project area but further investigation may be needed to determine the actual alignment of the canal route. This may be affected by the project.
- There is a flood plain identified within the half mile radius of the project area. A significant amount of the project area is adjacent to or within a “Flood Plain” and may be affected by the project.

<b>Mining/Mineral Exploration</b>			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Petroleum Wells	N/A	Petroleum Fields	N/A
Mines – Surface	N/A	Mines – Underground	N/A

**Explanation:**

There are no mining/mineral exploration concerns within the half mile radius of the project location.

<b>Hazmat Concerns</b>			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Brownfield Sites	N/A	Restricted Waste Sites	N/A
Corrective Action Sites (RCRA)	N/A	Septage Waste Sites	N/A
Confined Feeding Operations	N/A	Solid Waste Landfills	1
Construction Demolition Waste	1	State Cleanup Sites	N/A
Industrial Waste Sites (RCRA Generators)	1	Tire Waste Sites	N/A
*Infectious/Medical Waste Sites	N/A	Waste Transfer Stations	N/A

<b>Hazmat Concerns</b> continued			
Lagoon/Surface Impoundments	<b>N/A</b>	RCRA Waste Treatment, Storage, and Disposal Sites (TSDs)	<b>N/A</b>
Leaking Underground Storage Tanks (LUSTs)	<b>5</b>	Underground Storage Tanks (USTs)	<b>6</b>
Manufactured Gas Plant Sites	<b>N/A</b>	Voluntary Remediation Program	<b>1</b>
NPDES Facilities	<b>N/A</b>	Superfund	<b>N/A</b>
NPDES Pipe Locations	<b>5</b>	Institutional Control Sites	<b>N/A</b>
Open Dump Sites	<b>N/A</b>		

**Explanation:**

- There is one “Construction Demolition Waste Site” identified within the half mile radius. It is not located near the project area. It will not be affected by the project.
- There is one “Industrial Waste Site (RCRA Generator)” identified within the half mile radius. It is not located near the project area. The industrial waste site will not be affected by the project.
- There is one “Solid Waste Site” identified within the half mile radius. It is not located near the project area. It will not be affected by the project.
- There are six “Underground Storage Tanks (UST)” identified within the half mile radius. One UST is located on the far south end of the project area near the intersection of Broadway Street and Bell Avenue. It may be affected by the project.
- There are five “Leaking Underground Storage Tanks (LUSTs)” identified within the half mile radius. One LUST is located on the far south end of the project area near the intersection of Broadway Street and Bell Avenue. It may be affected by the project.
- There is one “Voluntary Remediation Program” identified within a half mile radius of the project. It is not located near the project area. It will not be affected by the project.
- There are five “NPDES Pipe Locations” identified within a half mile radius. None of them are near the project area. They will not be affected by the project.

**Ecological Information**

The Allen 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. Due to the sensitive nature of identifying locations of threatened and endangered species, maps of these specific habitats are not provided.

**Cultural Resources**

The items below represent all properties or bridges in Fort Wayne and Allen County that have obtained any type of historic designation. The types of historic designation are: Indiana Historic Bridge Inventory, Fort Wayne Local Historic Districts, the Indiana State Register of Historic Places, the National Register of Historic Places, the Historic American Buildings Survey, and National Historic Landmark. The Items below labeled as “Potential” are items that have been identified by the Fort Wayne Historic Preservation Commission and/or Architecture and Community Heritage (ARCH) of Fort Wayne for their historical significance and potential for being listed in one of the above historical designations. Also, structures or properties from the latest County Interim Report have been identified.

<b>Historic Features</b>			
Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Historic Sites or Districts	<b>1</b>	Select Bridges	<b>N/A</b>
Non-Select Bridges	<b>N/A</b>	Potential Historic Sites or Districts	<b>5</b>
Properties identified in the latest Interim Report	<b>N/A</b>		

**Explanation:**

- There is one “Historical Site or District” identified within the half mile radius. It is not adjacent to the project area. It will not be affected by the project.
- There are five “Potential Historic Sites or Districts” identified within the half mile radius. Three of the five sites or districts are located adjacent to or near the project area and consist of the following:
  - The New Haven Commercial Historic District is a potential National Register (NR) historic district and intersects the project area at the southern end at Bell Avenue. This potential NR district may be affected by the project.
  - The New Haven Main Street Historic District is a potential National Register (NR) historic district located just southwest of the project area. This potential NR district may be affected by the project.
  - There is a potentially historic farm near the project area located at 549 Rose Avenue. The potential historic property has a property line beginning about 160 feet west of the project area along the north side of Rose Avenue. This potential historic property may be affected by the project.

*Further discussion with the Fort Wayne Historic Preservation Commission and Architecture and Community Heritage (ARCH) of Fort Wayne may be needed concerning the potential historic sites and districts near the project area since they have not been added to the SHAARD database yet and may need additional investigation. Also, the historical Wabash-Erie Canal route which is identified in the “Water Resources” section above may need further investigation to find out if there may be any adverse effects.*

**Pedestrian and Bus Stop Infrastructure**

- 1) Trail crossings are needed to connect with the existing New Haven Trail access point on the southwest corner. Trail crossings are needed to connect with trails on the north side of the intersection which will exist on both sides with the Landin Road widening project north of North River Road.
- 2) Crossings are needed on all four intersection approaches.
- 3) An enhanced north/south trail crossing is needed. Also, an east/west trail crossing at the railroad tracks on the south side is needed.
- 4) Sidewalk installation to connect with existing sidewalks at Rufus Street is needed along the south side of Rose Avenue.
- 5) Sidewalk installation to connect Rose Avenue with the existing sidewalks at Powers Street is needed along the east side of Broadway Street.
- 6) Sidewalk installation on north side of Rose Avenue to connect with trail west of Landin/Broadway.

## **SUMMARY/RECOMMENDATIONS**

**INFRASTRUCTURE:** The Red Flag Investigation has identified 39 Infrastructure items within the half mile radius. Of the 39 items only seven may be affected by the project. These items include two Recreational Facilities (the Canal Landing and Moser Park Woods these are also the two Managed Lands identified), one Railroad (Norfolk Southern Railroad), and two Trails (New Haven River Greenway and the trail along Rose Avenue east and west of Broadway Street/Landin Road). Coordination with the identified recreational facilities, railroad, trails and managed lands should be undertaken as the project is developed to determine potential impacts.

**WATER RESOURCES:** A total of 46 Water Resource items have been identified within the half mile radius. Only 16 of the 46 items may be affected by the project. The potential affected items include five NWI-Wetlands, five IDEM 303d Listed Rivers and Streams (these segments create the Maumee River), two Rivers and Streams, one High Capacity Well, one Lake, one Historic Canal Route (Wabash-Erie Canal) and a Flood Plain. Additional coordination should be conducted with the Allen County Surveyor's Office, the US Army Corps of Engineers, the Fort Wayne Historic Preservation Commission and Architecture and Community Heritage (ARCH) and the Department of Planning Services.

**MINING/MINERAL EXPLORATION:** N/A

**HAZMAT CONCERNS:** Twenty Hazmat items have been identified within the half mile radius. Of the 20 items only two of the items may be affected by the project. The items are one Underground Storage Tank (near Bell Avenue), and one Leaking Underground Storage Tank (near Bell Avenue). Additional coordination should be conducted with the Indiana Department of Environmental Management (IDEM).

**ECOLOGICAL INFORMATION:** : Coordination with the Indiana Department of Natural Resources (IDNR) and the U.S. Fish and Wildlife Service (USFWS) will be needed to determine the potential impact to any listed species and/or habitats may have on the project.

**HISTORIC FEATURES:** The RFI identified six Cultural Resource items within the half mile radius. Three of these items may be impacted by the project. The three Potential Historic Sites or Districts that have been identified include the New Haven Commercial Historic District, the New Haven Main Street Historic District and the property at 549 Rose Avenue. Further discussion with the Fort Wayne Historic Preservation Commission and Architecture and Community Heritage (ARCH) of Fort Wayne should be conducted to confirm that no additional properties have been identified from the time this report was developed and to determine if these three properties will be impacted by the project.

**PEDESTRIAN AND BUS STOP INFRASTRUCTURE:** Six locations have been identified that require pedestrian infrastructure improvements, including trail crossings and new sidewalk installation. All existing sidewalks/trails in the project area that will not be replaced as part of the project, should be inspected to ensure that they meet current PROWAG standards. If existing sidewalks/trails don't meet current standards then they should be upgraded and improved. All new facilities must meet PROWAG requirements.

**Prepared by:**

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**Graphics:**

A map for each report section with a ½ mile radius buffer around all project area(s) showing all items identified as possible items of concern is attached.

GENERAL SITE MAP SHOWING PROJECT AREA: YES

TOPOGRAPHIC MAP SHOWING THE PROJECT AREA: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZMAT CONCERNS: YES

HISTORICAL FEATURES: YES

CITY OR COUNTY INTERIM REPORT: NO

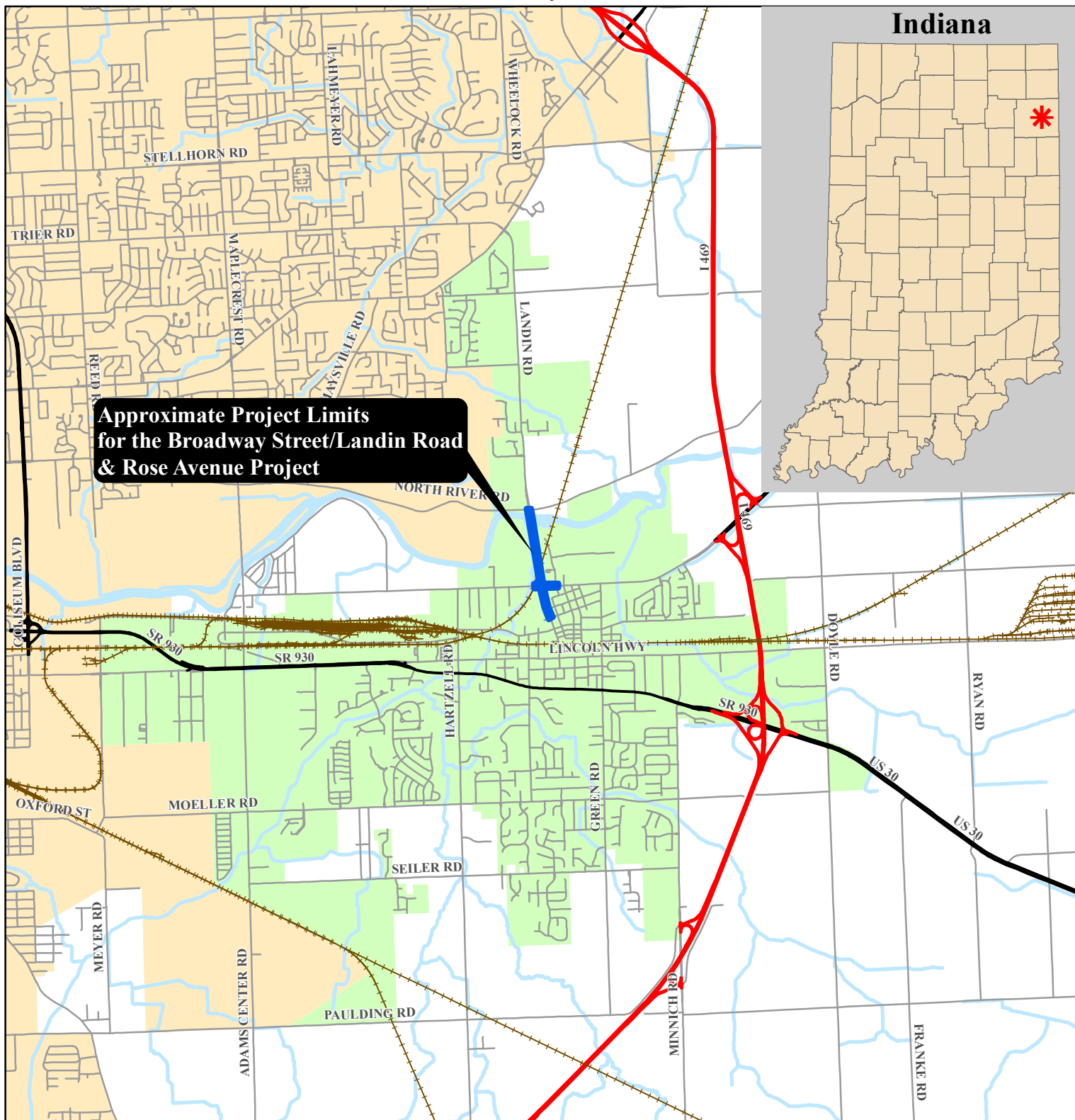
COUNTY LIST OF THREATENED AND ENDANGERED SPECIES: YES

PEDESTRIAN AND BUS STOP INFRASTRUCTURE: YES

**Additional Attachments:**

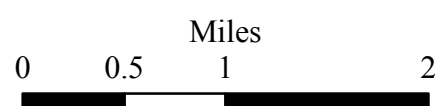
Roadway Safety Audit: Summary Report: YES

Red Flag Investigation - Project Location  
 Broadway Street/Landin Road & Rose Avenue  
 Intersection Improvement & Road Reconstruction  
 Allen County, Indiana

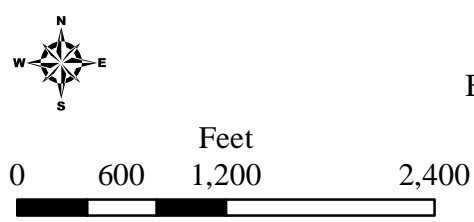
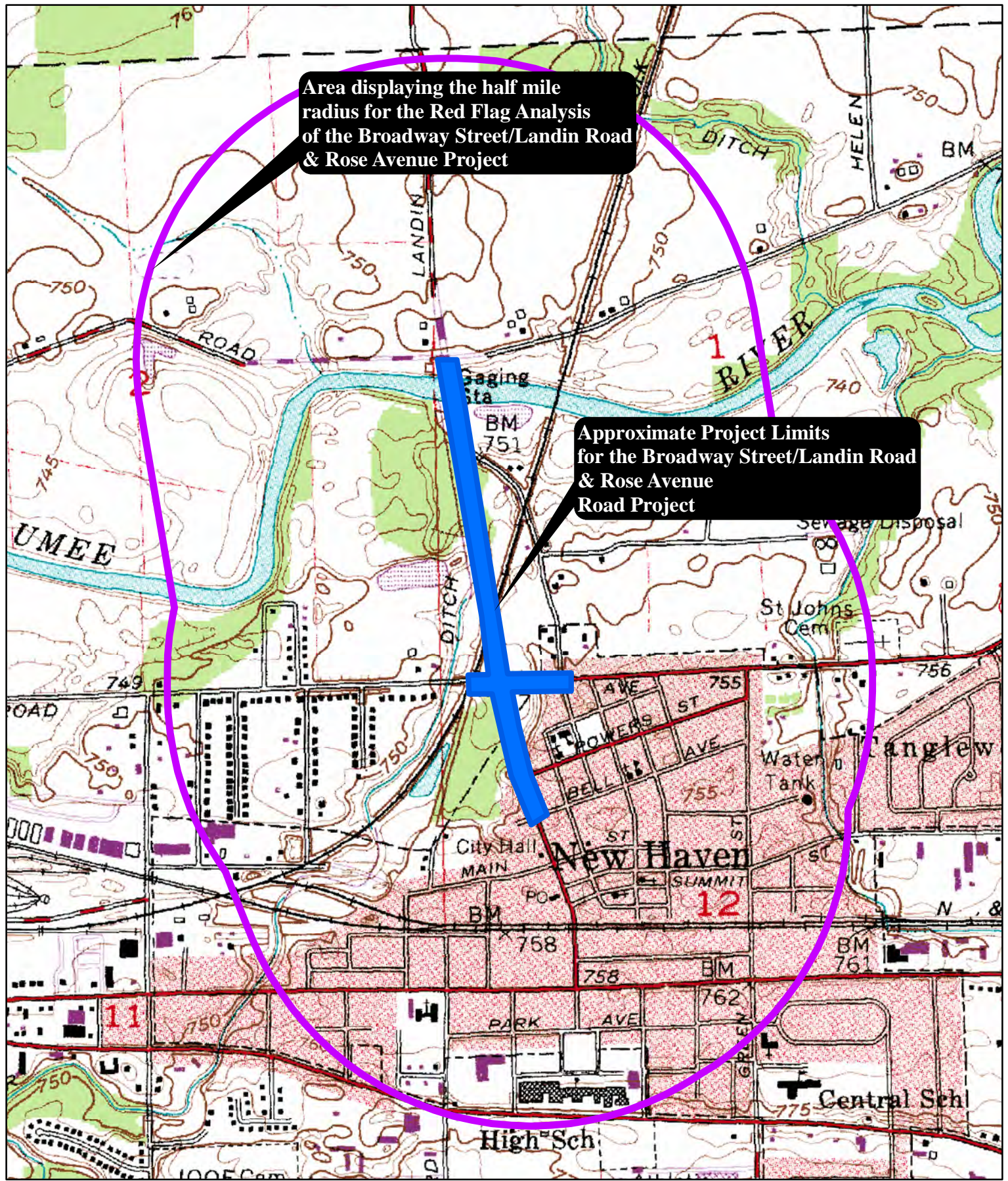


**Legend**

Interstates	Water
State Route	Railroad
US Route	City of Fort Wayne
Local Road	City of New Haven







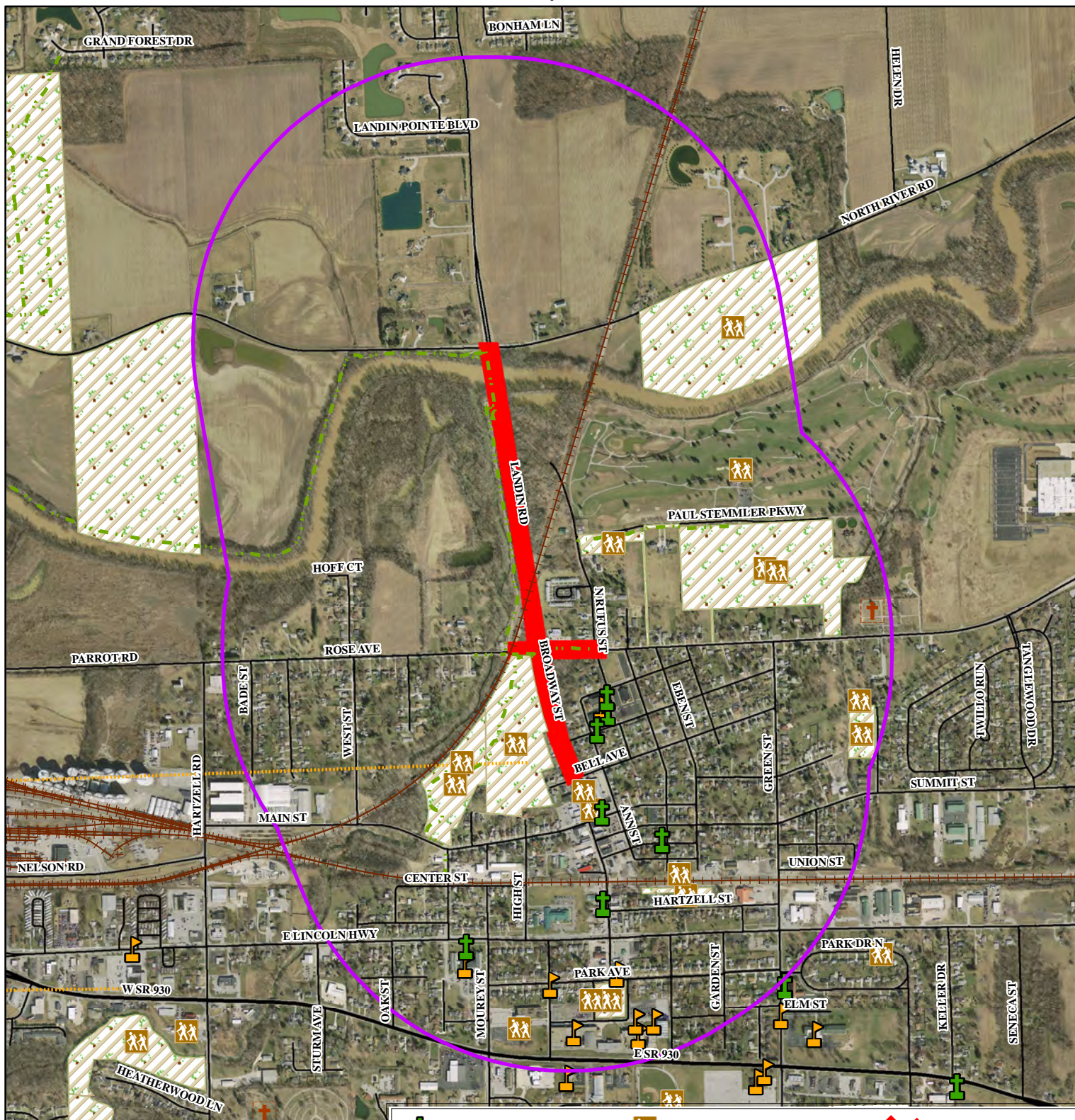
Red Flag Investigation - Topographic Map  
 Broadway Street/Landin Road & Rose Avenue  
 Allen County, Indiana



# Red Flag Investigation - Infrastructure Map

## Broadway Street/Landin Road and Rose Avenue Intersection Improvement & Road Reconstruction

### Allen County, Indiana

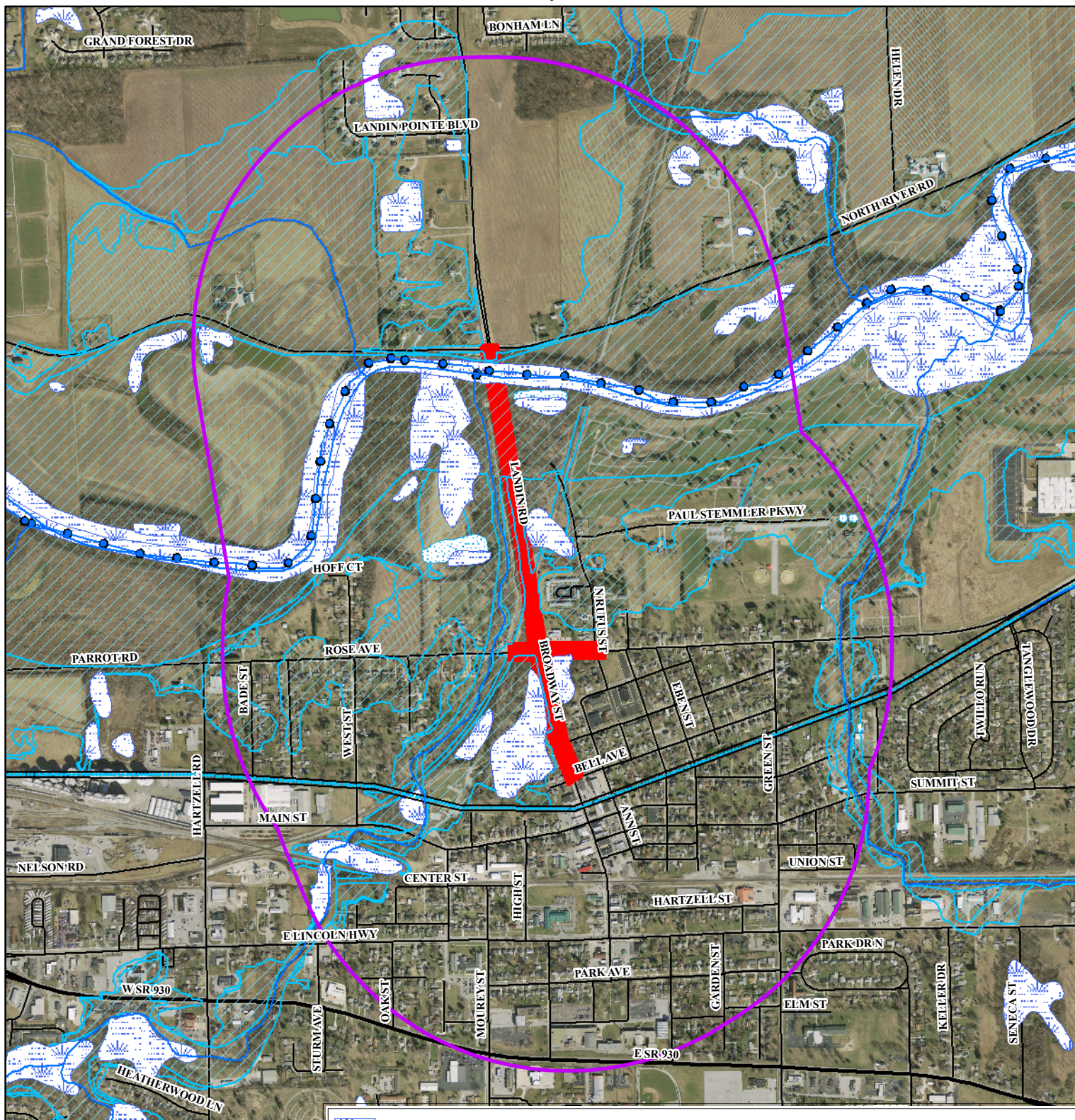


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



	Religious Facilities		Schools		Interstates
	Museums		Parks		State Route
	Hospitals		Trails		US Route
	Cemeteries		Railroad		Local Road
	Airports		Pipelines		Half Mile Buffer
			Managed Lands		Project Area
			County Boundary		

# Red Flag Investigation - Water Resources Map Broadway Street/Landin Road & Rose Avenue Intersection Improvement & Road Reconstruction Allen County, Indiana



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

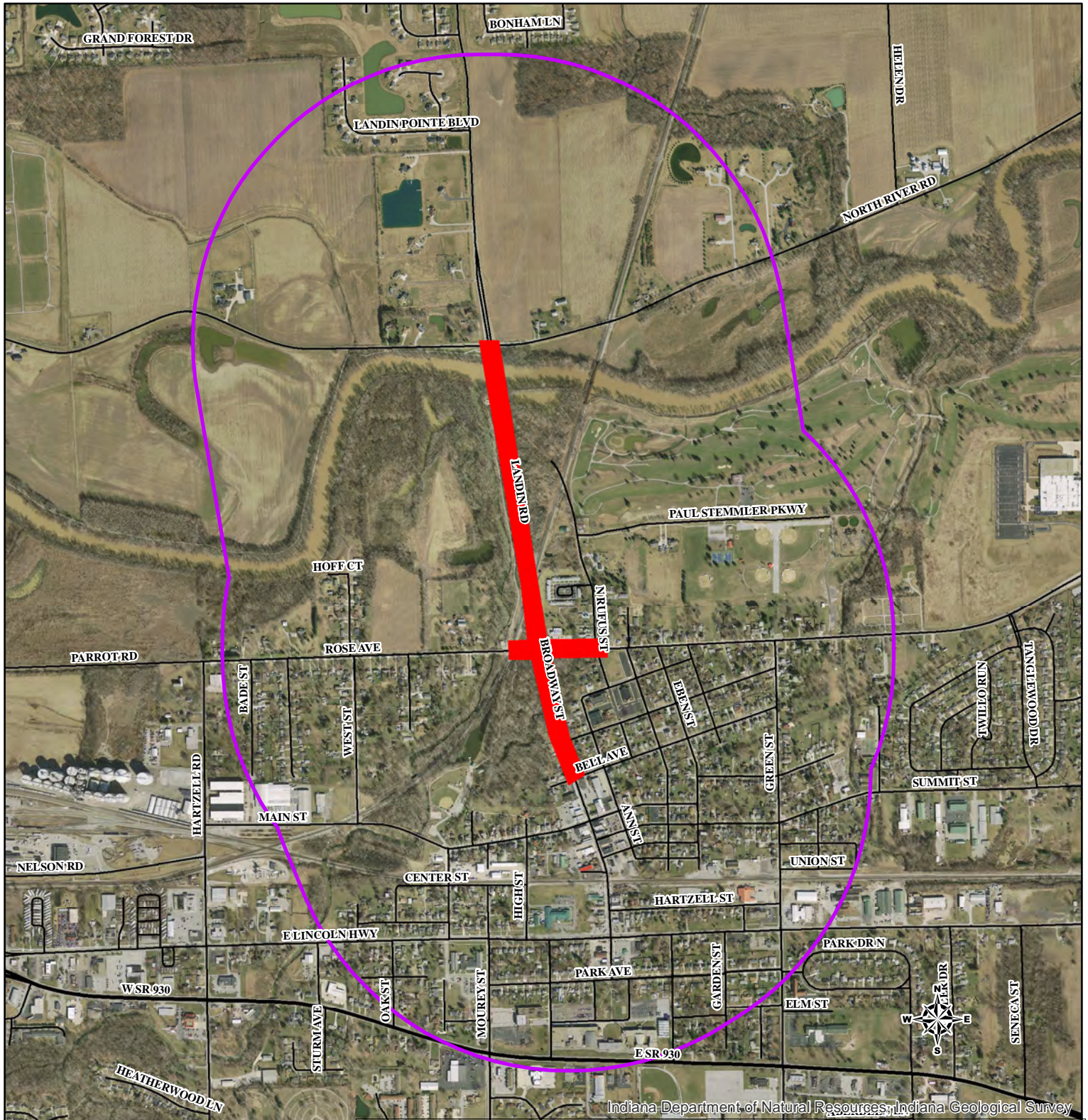


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Wetlands	Historic Canal Route	Line of Protection
Floodplain	Historic Canal Structure	Interstates
Stream - Impaired	Lake - Impaired	State Route
Outstanding Rivers	Karst Springs	US Route
National River Inventory (NRI)	Cave Entrance Density	Local Road
Linear Waterbody	Sinkhole Areas	Half Mile Buffer
Waterbody Areas	Sinking-Stream Basins	Project Area

Red Flag Investigation - Mining/Mineral Exploration Map  
 Broadway Street/Lanin Road and Rose Avenue  
 Intersection Improvement & Road Reconstruction  
 Allen County, Indiana



Indiana Department of Natural Resources; Indiana Geological Survey

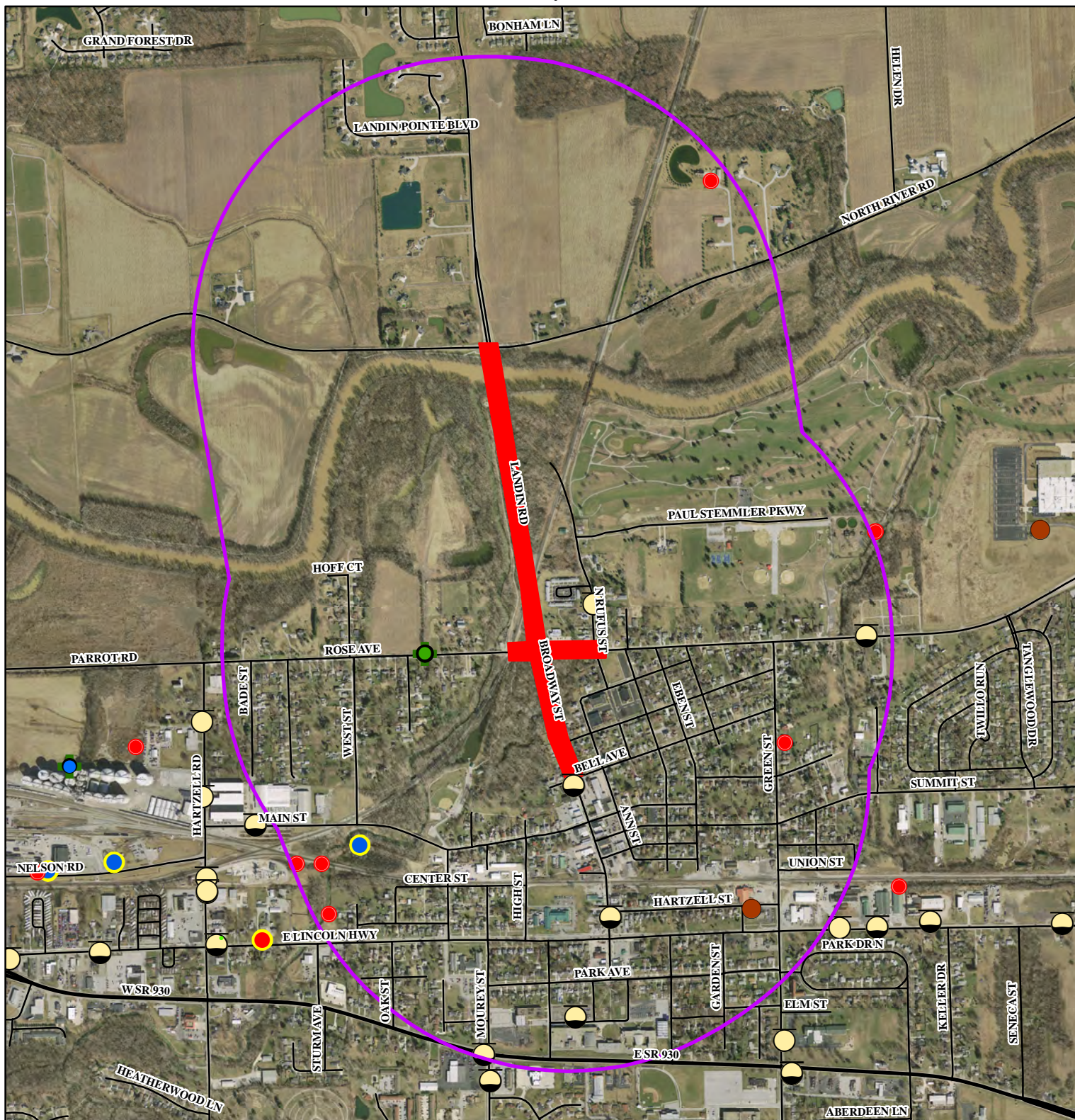


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Mines - Underground	Gas Wells	Interstates
Mines - Surface	Gas Storage Wells	State Route
Gas	Oil Wells	US Route
Oil	Service Wells	Local Road
Oil/gas	Stratigraphic Test Wells	Half Mile Buffer
	Dry Wells	Project Area
	Unknown Wells	

Red Flag Investigation - Hazmat Concerns Map  
 Broadway Street/Landin Road and Rose Avenue  
 Intersection Improvement and Road Reconstruction  
 Allen County, Indiana


































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

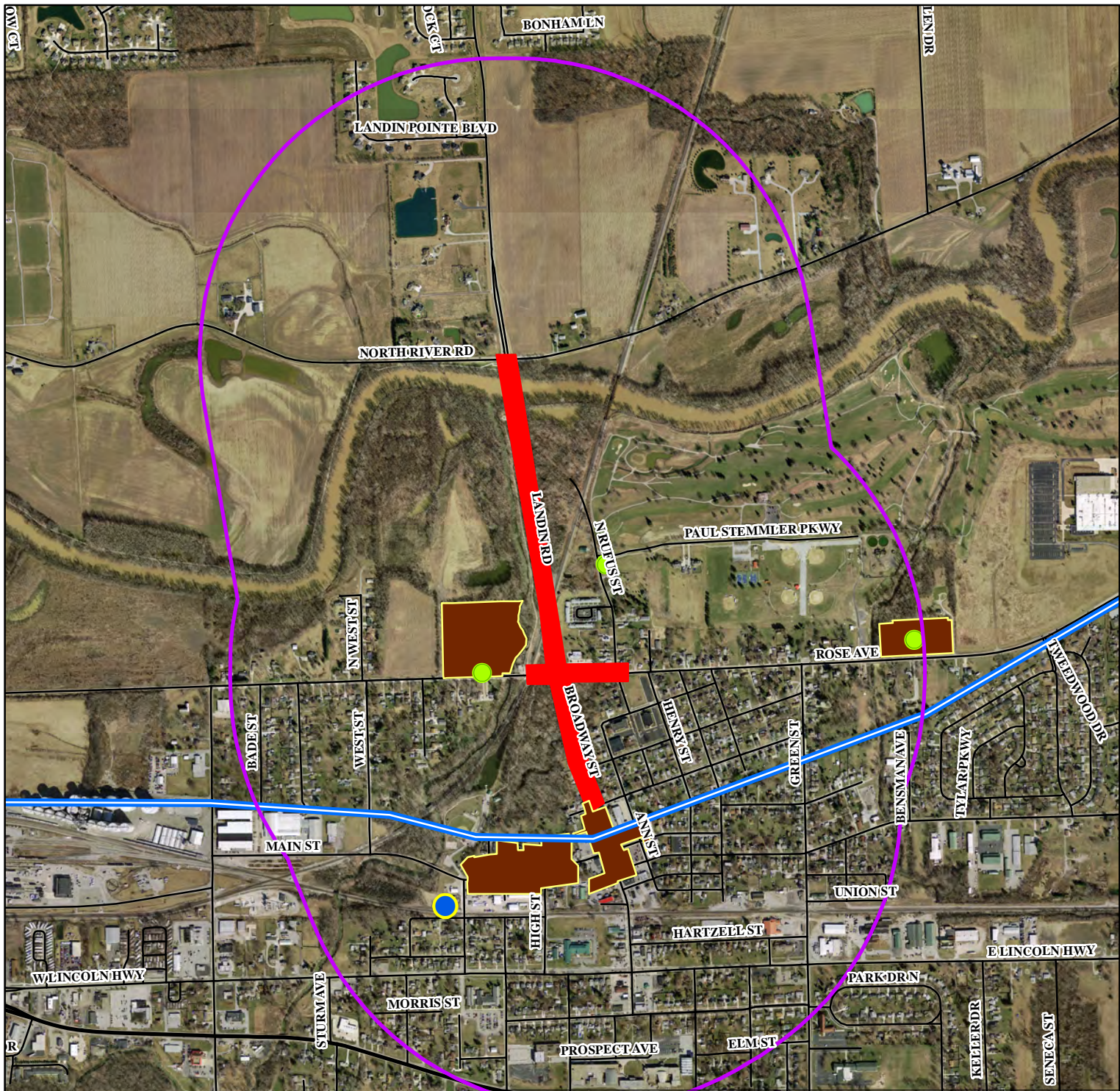
**\*See next page for Map Legend**



Red Flag Investigation - Hazmat Concerns Legend  
 Broadway Street/Landin Road and Rose Avenue  
 Intersection Improvement and Road Reconstruction  
 Allen County, Indiana

	Confined Feeding Operations		Brownfields
	Industrial Waste Site		State Cleanup Sites
	Waste Treatment Storage Disposal		Voluntary Remediation Program Sites
	Waste Septage Sites		Institutional Controls
	Waste Tire Sites		Leaking Underground Storage Tank
	Construction Demolition Waste		Underground Storage Tank
	Waste Solid Active Permitted		Manufactured Gas Plants
	Composting Facilities		IDEM303D_pt
	Open Dumps		Waste Transfer Stations
	Waste Old Landfills		Waste Restricted Sites
	Landfill Sites		Interstates
	NPDES Facility		State Route
	NPDES Pipe		US Route
	Corrective Action Sites		Local Road
	Superfund		Half Mile Buffer
			Project Area

Red Flag Investigation - Historical Features Map  
 Broadway Street/Landin Road and Rose Avenue  
 Intersection Improvement & Road Reconstruction  
 Allen County, Indiana



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



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- |   |                  |
|---|------------------|
| Potential Historic Canal Structures     | Interstates      |
| Historic Canal Routes                   | State Route      |
| Non-Select Bridge                       | US Route         |
| Select Bridge                           | Local Road       |
| Historical Sites                        | Half Mile Buffer |
| Potential Historical Sites              | Project Area     |
| IHSSI Sites                             |                  |
| Historical Areas or Districts           |                  |
| Potential Historical Areas or Districts |                  |

## Indiana County Endangered, Threatened and Rare Species List

County: **Allen**

Species Name	Common Name	FED	STATE	GRANK	SRANK
<b>Mollusk: Bivalvia (Mussels)</b>					
<b>Epioblasma obliquata perobliqua</b>	<b>White Cat's Paw Pearlymussel</b>	<b>LE</b>	<b>SE</b>	<b>G1T1</b>	<b>SX</b>
<b>Epioblasma torulosa rangiana</b>	<b>Northern Riffleshell</b>	<b>LE</b>	<b>SE</b>	<b>G2T2</b>	<b>SX</b>
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Obovaria subrotunda	Round Hickorynut		SSC	G4	S1
<b>Pleurobema clava</b>	<b>Clubshell</b>	<b>LE</b>	<b>SE</b>	<b>G2</b>	<b>S1</b>
Ptychobranthus fasciolaris	Kidneyshell		SSC	G4G5	S2
<b>Quadrula cylindrica cylindrica</b>	<b>Rabbitsfoot</b>	<b>C</b>	<b>SE</b>	<b>G3G4T3</b>	<b>S1</b>
Toxolasma lividus	Purple Lilliput		SSC	G3	S2
<b>Villosa fabalis</b>	<b>Rayed Bean</b>	<b>C</b>	<b>SSC</b>	<b>G2</b>	<b>S1</b>
<b>Insect: Odonata (Dragonflies &amp; Damselflies)</b>					
Tachopteryx thoreyi	Gray Petaltail		SR	G4	S2S3
<b>Fish</b>					
Moxostoma valenciennesi	Greater Redhorse		SE	G4	S2
Percina evides	Gilt Darter		SE	G4	S1
<b>Amphibian</b>					
Ambystoma laterale	Blue-spotted Salamander		SSC	G5	S2
Hemidactylium scutatum	Four-toed Salamander		SE	G5	S2
Rana pipiens	Northern Leopard Frog		SSC	G5	S2
<b>Reptile</b>					
Clemmys guttata	Spotted Turtle		SE	G5	S2
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Emydoidea blandingii	Blanding's Turtle		SE	G4	S2
<b>Sistrurus catenatus catenatus</b>	<b>Eastern Massasauga</b>	<b>C</b>	<b>SE</b>	<b>G3G4T3T4Q</b>	<b>S2</b>
<b>Bird</b>					
Asio flammeus	Short-eared Owl		SE	G5	S2
Bartramia longicauda	Upland Sandpiper		SE	G5	S3B
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
Buteo platypterus	Broad-winged Hawk	No Status	SSC	G5	S3B
Circus cyaneus	Northern Harrier		SE	G5	S2
Dendroica cerulea	Cerulean Warbler		SE	G4	S3B
Falco peregrinus	Peregrine Falcon	No Status	SE	G4	S2B
<b>Haliaeetus leucocephalus</b>	<b>Bald Eagle</b>	<b>LT,PDL</b>	<b>SE</b>	<b>G5</b>	<b>S2</b>
Ixobrychus exilis	Least Bittern		SE	G5	S3B
Lanius ludovicianus	Loggerhead Shrike	No Status	SE	G4	S3B
Nyctanassa violacea	Yellow-crowned Night-heron		SE	G5	S2B
Nycticorax nycticorax	Black-crowned Night-heron		SE	G5	S1B
Phalaropus tricolor	Wilson's Phalarope		SSC	G5	SHB
Sturnella neglecta	Western Meadowlark		SSC	G5	S2B
Tyto alba	Barn Owl		SE	G5	S2

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

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting  
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list  
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank  
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked



**Indiana County Endangered, Threatened and Rare Species List**

**County: Allen**

Species Name	Common Name	FED	STATE	GRANK	SRANK
Wilsonia citrina	Hooded Warbler		SSC	G5	S3B
<b>Mammal</b>					
Lynx rufus	Bobcat	No Status	SSC	G5	S1
Taxidea taxus	American Badger		SSC	G5	S2
<b>Vascular Plant</b>					
Andromeda glaucophylla	Bog Rosemary		SR	G5	S2
Armoracia aquatica	Lake Cress		SE	G4?	S1
Chelone obliqua var. speciosa	Rose Turtlehead		WL	G4T3	S3
Circaea alpina	Small Enchanter's Nightshade		SX	G5	SX
Coeloglossum viride var. virescens	Long-bract Green Orchis		ST	G5T5	S2
Crataegus succulenta	Fleshy Hawthorn		SR	G5	S2
Euphorbia obtusata	Bluntleaf Spurge		SE	G5	S1
Phlox ovata	Mountain Phlox		SE	G4	S1
Platanthera psycodes	Small Purple-fringe Orchis		SR	G5	S2
Poa alsodes	Grove Meadow Grass		SR	G4G5	S2
Scutellaria parvula var. parvula	Small Skullcap		SX	G4T4	SX
Spiranthes lucida	Shining Ladies'-tresses		SR	G5	S2
Spiranthes magnicamporum	Great Plains Ladies'-tresses		SE	G4	S1
<b>High Quality Natural Community</b>					
Forest - flatwoods central till plain	Central Till Plain Flatwoods		SG	G3	S2
Forest - floodplain mesic	Mesic Floodplain Forest		SG	G3?	S1
Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	G3?	S3
Forest - upland dry	Dry Upland Forest		SG	G4	S4
Forest - upland dry-mesic	Dry-mesic Upland Forest		SG	G4	S4
Forest - upland mesic	Mesic Upland Forest		SG	G3?	S3
Lake - pond	Pond		SG	GNR	SNR
Prairie - dry-mesic	Dry-mesic Prairie		SG	G3	S2
Wetland - marsh	Marsh		SG	GU	S4
Wetland - swamp forest	Forested Swamp		SG	G2?	S2
Wetland - swamp shrub	Shrub Swamp		SG	GU	S2
<b>Other</b>					
Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

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

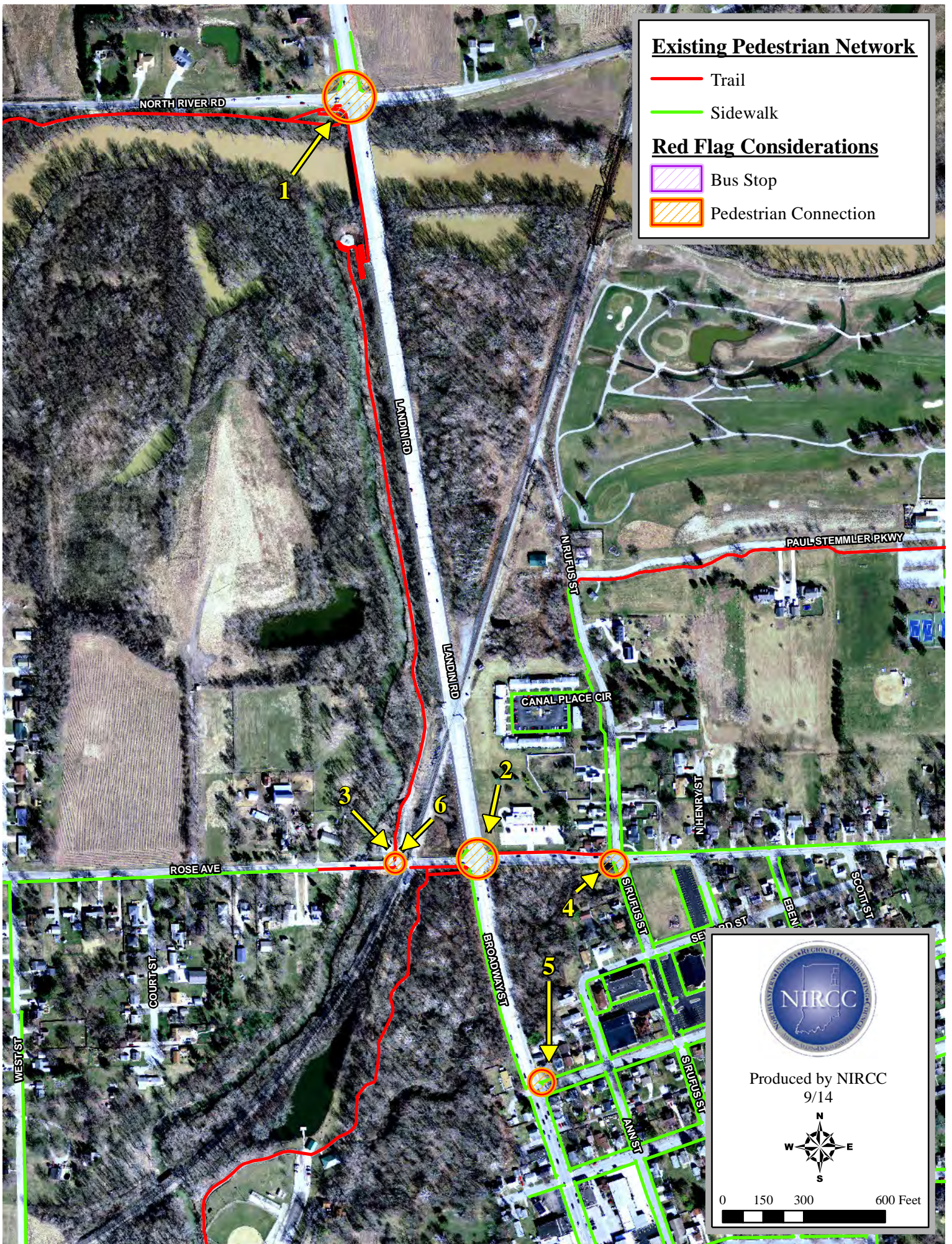
Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting  
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list  
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**Existing Pedestrian Network**

- Trail
- Sidewalk

**Red Flag Considerations**

- Bus Stop
- Pedestrian Connection



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9/14



0 150 300 600 Feet