



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

EVANSVILLE WATER & SEWER UTILITY

JOAN AVENUE LIFT STATION IMPROVEMENTS PROJECT

**PRELIMINARY ENGINEERING REPORT F: PROJECT #8
SRF # WW 14 21 82 14**

Date: October 22, 2014

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in Evansville's Preliminary Engineering Report F received by the SRF on June 12 2014 will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

How were environmental issues considered?

The National Environmental Policy Act requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an Environmental Assessment or an Environmental Impact Statement.

Why is additional environmental review not required?

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

How do I submit comments?

Comments can be submitted to:

April Douglas,
Senior Environmental Manager
SRF Programs
317-234-7294; adouglas@ifa.in.gov

CATEGORICAL EXCLUSION

I. PROJECT IDENTIFICATION

Project Name and Address: **Joan Avenue Lift Station Improvements
Project
Preliminary Engineering Report F
Project # 8**
Evansville Water & Sewer Utility
1 NW Martin Luther King Jr., Blvd., Room 104
Evansville, IN 47740-0001

SRF Project Number: WW 14 21 82 14

Authorized Representative: Allen Mounts, Director
Evansville Water and Sewer Utility

II. PROJECT LOCATION

Evansville is located in southeastern Vanderburgh County. The Joan Avenue Lift Station Improvements project area is located in the Evansville South USGS 7.5' topographic quadrangle in Knight Township, T6S, R10W and section 14 (see Exhibit 1).

III. PROJECT NEED AND PURPOSE

The purpose of the Joan Avenue Lift Station Improvements project is to provide adequate capacity for handling current and projected future flows and minimize system backups and surcharging. This project is being done as part of the implementation of the Capacity, Management, Operation and Maintenance program being implemented by the Evansville Water and Sewer Utility to address a Consent Decree. The project will also provide for a more reliable system since the present one pump lift station will be replaced with a duplex lift station.

The proposed improvements for Project #8 include the following components (see Exhibit 2):

- A. removal of the existing lift station including pumping equipment and wet well;
- B. construction of a new wet well and valve pit;
- C. installation of two new submersible pumps each having a capacity between 100 and 130 gallons per minute (gpm) with variable frequency drive (VFD) controls;
- D. construction of new valving, metering and piping at the lift station;
- E. construction of 4-inch force main to connect to a new manhole over an existing sanitary sewer; and
- F. associated electrical and site work.

Two alternatives were evaluated for the Joan Avenue Lift Station Improvements project, including the “No Action” alternative.

The “No Action” alternative was rejected since the lift station would continue to deteriorate resulting in increase in maintenance costs and eventual failure. Failure of the station would likely result in sanitary sewer overflows.

The Lift Station Replacement alternative would involve the removal of the existing lift station pumps and structure and construction of a new duplex, submersible lift station. **This is the selected alternative.**

IV. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Cost Summary

<u>Construction Components</u>	<u>Costs</u>
Existing Equipment and Structure Demolition	\$ 6,800
Bypass Pumping	10,000
Manhole Construction	15,000
Wet Well and Valve Pit Construction	35,000
Submersible Pumps and VFD Controls	75,000
Piping, Valving and Metering at Lift Station	12,500
Sanitary Sewer Construction	2,500
Force Main Construction	9,000
Site Work	17,200
Mobilization/Demobilization	<u>15,000</u>
Subtotal	\$ 198,000
Contingency	<u>19,800</u>
Total Construction Costs	\$ 217,800
Non- Construction Costs	
Engineering Costs	7,500
Project Inspection	19,800
Land & Right-of Way Acquisition	<u>25,900</u>
Total Non-Construction Costs	\$ 53,200
Total Estimated Project Costs	\$ 271,000

B. Evansville will borrow \$271,000 from the State Revolving Fund Loan Program through a 20-year loan at a fixed interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

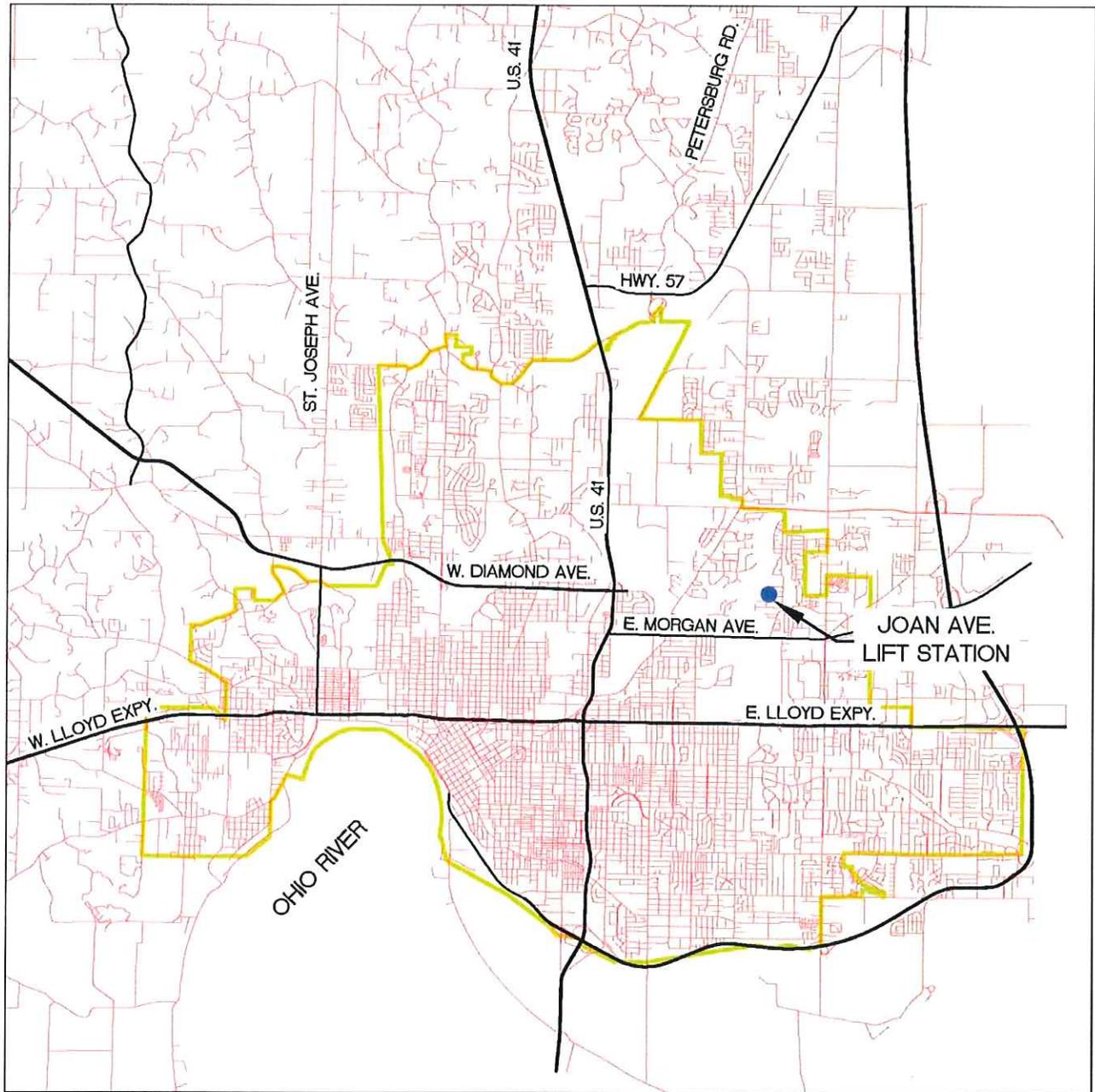
The project will occur in a previously disturbed area and will not affect endangered species or their habitat, streams, wetlands, or the 100-year floodplain.

Construction and operation of the project will not alter, demolish or remove historic properties (see Exhibits 3 and 4). If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF's finding pursuant to Section 106 of the Historic Preservation Act is: "no historic properties affected".

VI. PUBLIC PARTICIPATION

A properly noticed public hearing was held at the Evansville Vanderburgh Public Library-North Park Branch on June 25, 2014, at 5:30 p.m. to discuss the Preliminary Engineering Report. There were no comments raised about Project #8 at the hearing and no written comments were received.

UNIVERSITY BLVD.



LEGEND

- EXISTING SANITARY LIFT STATION
- EVANSVILLE CORPORATE LIMITS



0 5000' 10000' 20000'



SCALE: 1" = 10000'

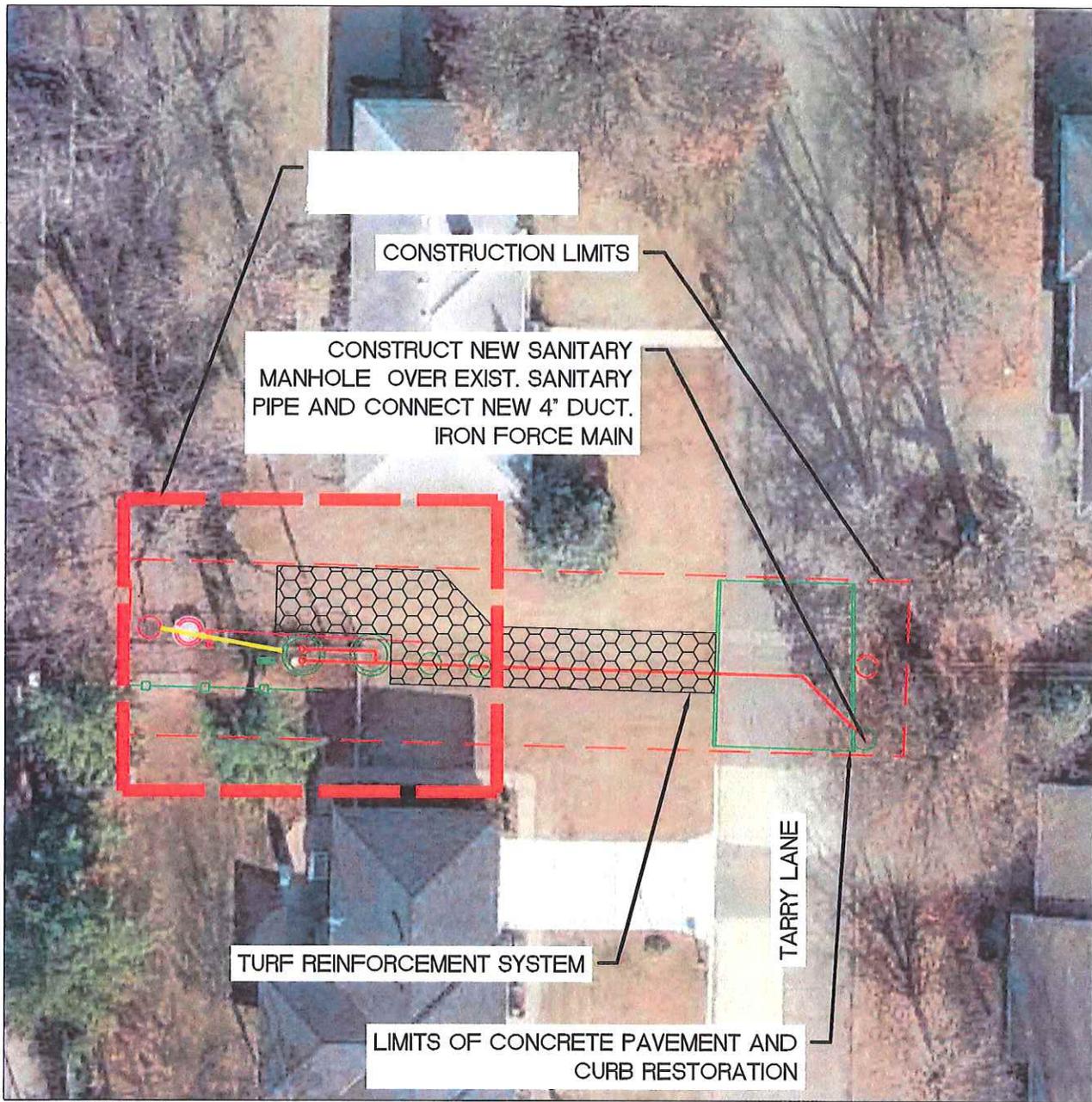
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CHECKED BY: J. JOHNSON, P.E. DATE: 11/14/13
DRAWN BY: J. JOHNSON, P.E. DATE: 11/14/13
PLOTTED BY: J. JOHNSON, P.E. DATE: 11/14/13

VS ENGINEERING, INC.
 915 MAIN STREET, SUITE 205, EVANSVILLE, INDIANA 47708
 TEL. (812) 401-0303 FAX: (317) 293-4737

CITY OF EVANSVILLE WATER AND SEWER UTILITY
 PRELIMINARY ENGINEERING REPORT "F", PROJECT No. 8
 JOAN AVE. LIFT STATION IMPROVEMENT PROJECT

OVERALL LOCATION MAP

EXHIBIT
1



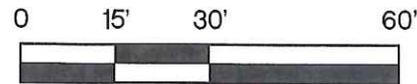
AERIAL: WINTER 2010

LEGEND

-  PROP. SANITARY MANHOLE
-  PROP. SANITARY SEWER
-  PROP. FORCE MAIN
-  PROP. CONTROL PANEL
-  PROP. CONSTRUCTION LIMITS
-  LIMITS OF PAVEMENT RESTORATION
-  PROP. FENCE
-  TURF REINFORCEMENT SYSTEM

-  EXIST. LIFT STATION WET WELL
-  EXIST. CONTROL PANEL

NOTES:
LIFT STATION ACCESS ROUTE TO BE COORDINATED WITH EXIST. UTILITIES



SCALE: 1" = 30'

DIRECTORY 03/2014
 900 JEFFS E & FURNACE EXHIBITS/CHURCHMAN AVENUE P. L7SCALE...IT
 DESIGNED BY: VS ENGINEERING, INC.
 PLOTTED BY: RBR/05/14/14
 DATE: 08/12/2014 9:10am

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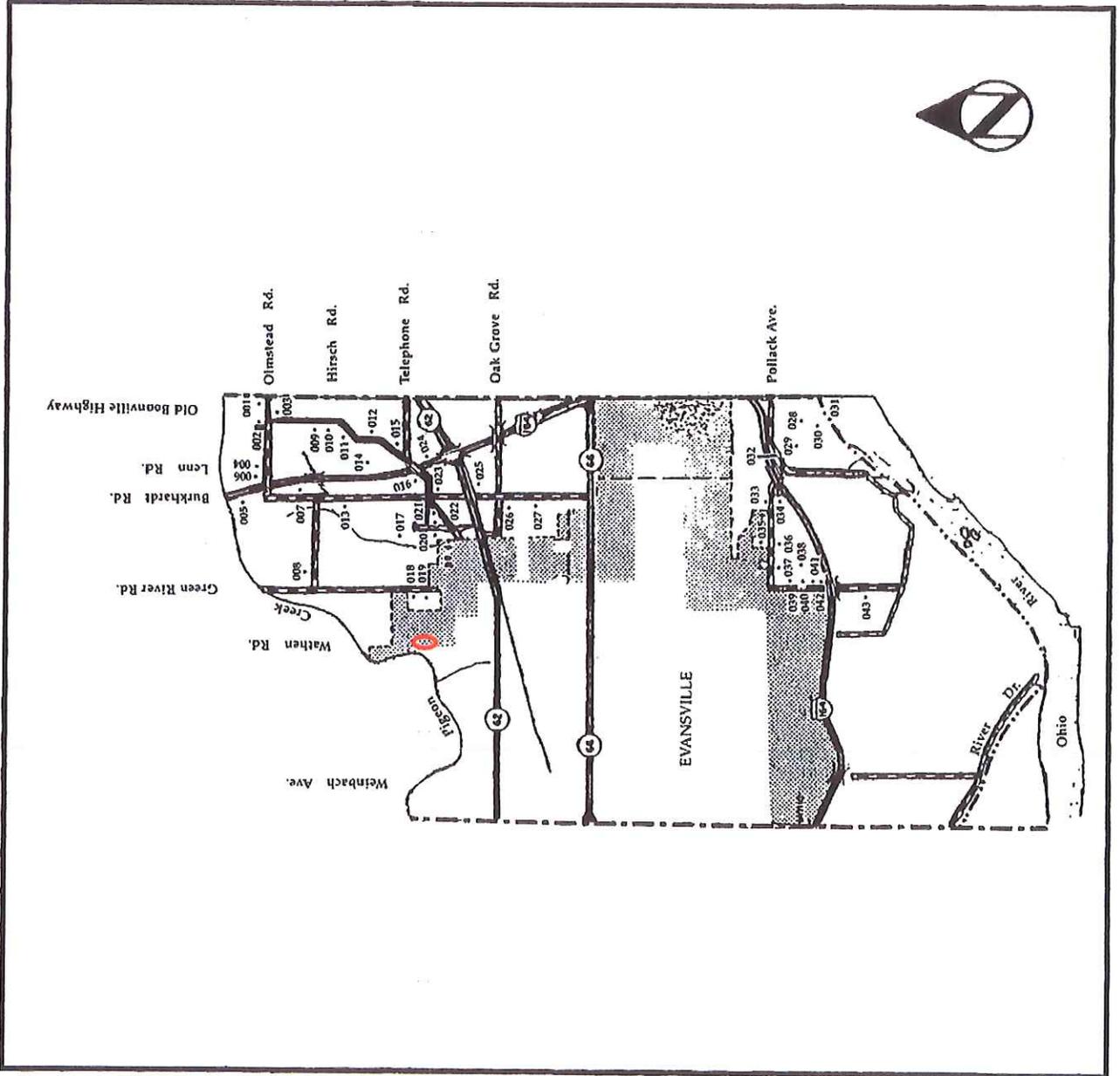
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PROPOSED SITE LAYOUT

EXHIBIT
2

REV. 8/5/14

Knights Township (20001-043)



Knights Township is located in the southeast corner of Vanderburgh County. Organized in 1840 from a section of Pigeon Township, the township was named for Isaac Knight, an early settler. The city of Evansville has expanded into Knights Township and today, almost half of the area is included within the city's boundaries.

The township's terrain is generally flat. Because the Ohio River forms much of the township's southern boundary, the land is both fertile and susceptible to flooding. North of the bottoms, the land is higher and was originally heavily timbered.

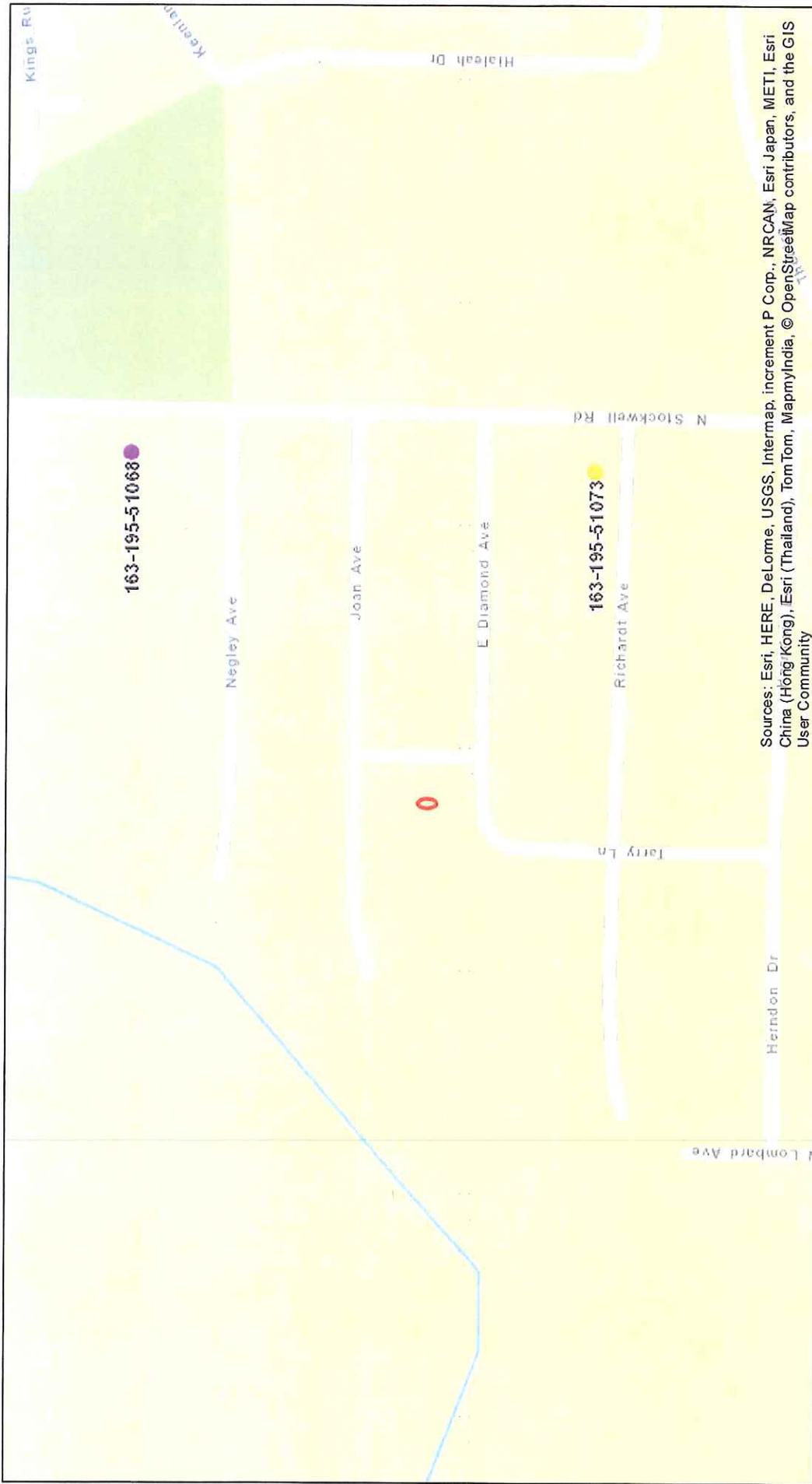
The township's earliest settlers came to the area in 1806. Aeneas McCallister crossed the Ohio River from Kentucky and built a house in the bottoms opposite the mouth of the Green River. McCallister was soon followed by Daniel Noble, Henry and John James, David Aikin and John Garrett who came to the bottoms between 1810 and 1818.

Until construction of the Wabash and Erie Canal through the township during the 1830s, most of the area's settlement was confined to the township's southern edges. Work on the canal which stretched across the township's northern section, lasted from 1837-1838. Abandoned by 1859 because it could not compete with the railroads, the waterway is still visible as a large ditch (20025). Ironically, the former Evansville and Eastern Railroad built its tracks on the towpath.

A number of tiny villages were established along the canal and the railroad line. In 1837 William Walker platted the town of Smyra along the canal path. Smyth's Station was the site of a tile factory. Today, nothing remains of these two communities.

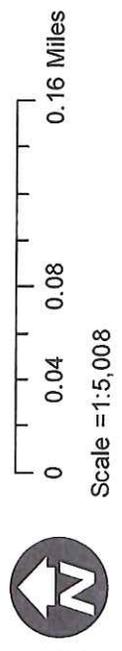
Knights Township's historic resources reflect its agricultural past. The Karch Farm (20036), the Joe and Katherine Folz Farm (20013), and the William

Joan Ave.



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Map Coordinate System:
WGS_1984_Web_Mercator_Auxiliary_Sphere



DNR
Indiana Dept. of Natural Resources
Geographic Information Systems
0 JOAN AVE. SANITARY LIFT STATION



Author:

- | | | | | | |
|--|------------------|--|------------------|--|-------------------------|
| | Cemeteries | | Unknown | | Unknown |
| | Outstanding | | Outstanding | | National Register Sites |
| | Notable | | Notable | | Historic Districts |
| | Contributing | | Contributing | | World Street Map |
| | Non-Contributing | | Non-Contributing | | Demolished |
| | Demolished | | Demolished | | EXHIBIT |