



# State Revolving Fund Loan Programs

## Drinking Water, Wastewater, Nonpoint Source

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### ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

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#### CITY OF FORT WAYNE SOUTH MAUMEE RELIEF SEWER STATE REVOLVING FUND PROJECT WW 14 31 02 07 – Project 8

**DATE: September 29, 2014**

**TARGET APPROVAL DATE: October 29, 2014**

#### I. INTRODUCTION

The above entity has applied to the State Revolving Fund (CWSRF) Loan Program for a loan to finance all or part of the wastewater project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed at <http://www.in.gov/ifa/srf/>.

#### II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

#### III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

**April Douglas**  
Senior Environmental Manager  
State Revolving Fund – IGCN 1275  
100 N. Senate Ave.  
Indianapolis, IN 46204  
317-234-7294  
[adouglas@ifa.in.gov](mailto:adouglas@ifa.in.gov)

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# ENVIRONMENTAL ASSESSMENT

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## I. PROJECT IDENTIFICATION

Project Name and Address:                   **South Maumee Relief Sewer**  
City of Fort Wayne  
200 East Berry Street, Suite 270  
Fort Wayne, IN 46802

SRF Project Number:                         WW 14 31 02 07 - PROJECT 8

Authorized Representative:                 Mr. Kumar Menon, Director of Public Works

## II. PROJECT LOCATION

Fort Wayne's South Maumee Relief Sewer project is located in Adam Township in Allen County in the Fort Wayne East Quadrangle, Township 30N, Range 13E, Sections 5 and 6.

## III. PROJECT NEED AND PURPOSE

The South Maumee Relief Sewer will provide local relief to a portion of the Maumee Interceptor. The project will collect combined sewage from Combined Sewer Overflow (CSO) 58 and CSO 60 and, thereby, reduce the number of CSOs to the Maumee River. This project is proposed as one of the system improvements that will allow the city to be in compliance with their Consent Decree and their Long Term Control Plan (LTCP).

## IV. PROJECT DESCRIPTION

The South Maumee Relief Sewer project will involve the construction of a relief sewer from the South Maumee interceptor east of Coliseum Boulevard to the headworks of the Water Pollution Control Plant along Dwenger Avenue. The project will include the installation of approximately 5,450 feet of 48-inch sewer, 750 feet of 42-inch sewer, 18 manholes, utility relocation as needed, jack and bore sewer installation under a railroad, and micro-tunneling of the sewer under Coliseum Boulevard. The project may require removal of contaminant soils and dewatering in the area of abandoned sludge beds, see Figures 1, 2 and 3.

## V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

### A. Selected Plan Estimated Cost Summary

#### Construction Costs

Mobilization/Demobilization	\$172,000
Site Clearing/Dewatering/Soils and Debris Removal	364,250
Manholes	112,000

48-inch Reinforced Concrete Pipe	1,805,000
42-inch Reinforced Concrete Pipe	120,000
Connecting Structure/Structure Modification	60,000
Micro-Tunneling	300,000
Jack and Bore Construction	120,000
Special Backfill	250,000
Site Restoration/Utility Relocation	307,000
Ancillary Work	345,000
Contingency	<u>395,525</u>
<b>Construction Sub-Total</b>	<b>\$4,350,775</b>

**Non-Construction Costs**

Design	770,000
Construction Management/Inspection	440,000
Financial and Legal	152,277
Easement/Property Acquisition (Ineligible)	<u>16,500</u>
<b>Non-Construction Sub-Total</b>	<b>\$1,378,777</b>

**Project Total Estimated Project Cost** **\$5,729,552**

- B. Fort Wayne will finance the eligible portions of the project with a loan from the State Revolving Fund Loan Program for a 20-year term at an annual fixed interest rate to be determined at loan closing. The actual loan amount will depend on the bids received.

**VI. DESCRIPTION OF EVALUATED ALTERNATIVES**

The “No Action” alternative is not practical, environmentally sound nor economical. The Maumee Interceptor is subject to surcharging during wet weather and if no action is taken, the city would not meet its LTCP goals or be in compliance with their Consent Decree.

**Optimal Operations of Existing Facilities:** Fort Wayne operates the combined sewer systems as effectively as possible with continual observation and maintenance. This alternate would not reduce surcharging in Maumee Interceptor and would not allow the city to meet its LTCP goals or be in compliance with their Consent Decree.

**Collection System Rehabilitation/Replacement:** Rehabilitation of the existing sewers would not address the surcharging or flooding issues and therefore is not a viable alternative.

**New Collection System/Interceptor Routes and Alternatives (Selected Alternative):** The selected alternative is the construction of a parallel relief interceptor to relive surcharging of the existing Maumee interceptor. Three routes were evaluated with the selected route preferred since the route is the shortest and much of the construction is in road-of-way and on City property. The selected route also avoids deeper construction and restricted construction corridor.

**Phasing:** The project is part of the phased approach to comply with the city’s Consent Decree and LTCP.

## VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

### A. Direct Impacts of Construction and Operation

**Disturbed/Undisturbed Land:** The work related to the proposed project will occur in areas previously disturbed by the construction of roads, railroads, or the Water Pollution Control Plant. The project will not alter the land use of the surrounding areas. If contaminated soil is encountered, the soil will be disposed of in an acceptable landfill as necessary.

**Structural Resources** (Figures 4 and 5): There is one identified historical site within the project area. This is the Fort Wayne Water Pollution Control Plant. Construction and operation of the project will not alter, demolish or remove this structure or any other historic properties. 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 National Historic Preservation Act is: "*no historic properties affected.*"

**Surface Waters:** The project will not have a direct impact on surface water. If dewatering is required as part of the construction, the dewatering flows will be settled prior to discharge to avoid discharge of solids to surface waters. The project will not adversely affect outstanding state resource waters listed in 327 IAC 2-1.3-3(d), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7(2), or Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3) or streams on the Outstanding River List for Indiana.

**Wetlands** (Figure 6): The only area identified as wetlands that would be impacted by the proposed project is the location of abandoned sludge lagoons. These lagoons are no longer in use and have been partially filled. The project may require removal of contaminant soils and dewatering in the area of abandoned sludge beds.

**Floodplain** (Figure 6): Most of the proposed project will be located within the 100-year flood plain, however, there are no above-grade structures associated with this project. The PER states the following relative to construction within a floodplain: *the construction will be in accordance with permit requirements.*

**Groundwater:** The project will not negatively impact a drinking water supply or sole source aquifer.

**Plants and Animals:** The proposed route between the sludge lagoons and Coliseum Boulevard is a scrub area, and scrubs and approximately 31 trees will be removed as part of the project. The construction and operation of the proposed project will not negatively impact State or Federally listed endangered species or their habitat. The PER states: *The project will be implemented to minimize the impact to non-endangered species and their habitat. Mitigation measures will be implemented as requested by the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service.*

**Prime Farmland:** The project will not convert prime farmland.

**Air Quality:** Construction activities may generate some noise, fumes and dust, but should not significantly affect air quality.

**Open Space and Recreational Opportunities:** The project will neither create nor destroy open space or recreational opportunities.

**Lake Michigan Coastal Program:** The project will not affect the Lake Michigan Coastal Zone.

**National Natural Landmarks:** Construction and operation of the proposed project will not affect National Natural Landmarks.

## **B. Indirect Impacts of Construction and Operation**

The City's Preliminary Engineering Report (PER) states: *The City of Fort Wayne through the authority of its Council planning commission, or other means, will ensure that future development, as well as future collection system or treatment works projects connecting to SRF funded facilities will not adversely affect wetlands, wooded areas, steep slopes, archaeological/historical/structural resources, or other sensitive environmental resources. The City will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental authorities.*

## **C. Comments from Environmental Review Authorities**

This document serves as the first notice to the Indiana Department of Natural Resources Environmental Unit and Department of Historical Preservation and Archaeology, and the U. S. Fish and Wildlife Service.

In correspondence dated August 13, 2014 the Natural Resources Conservation Service stated: *The proposed project...will not cause a conversion of prime farmland.*

## **VIII. MITIGATION MEASURES**

Fort Wayne's PER states:

*The project will be designed and implemented to minimize soil erosion and mitigation measures cited in comment letters from governing agencies will be implemented. Erosion control measures including seeding, sodding, inlet protection, silt fence, stone construction entrance and dust control may be implemented in accordance with current soil erosion control practices at the time of construction to reduce/eliminate erosion of the soils.*

*To mitigate construction noises and the subsequent resident complaints, construction will only be allowed from 7:00 am to 5:00 pm Monday through Friday. Appropriate erosion control measures will be implemented during construction to abate dust and airborne dirt particles. The contractor will be required to maintain all equipment in good working order to mitigate noise and air pollution caused by faulty operating equipment.*

## **IX. PUBLIC PARTICIPATION**

A properly noticed public hearing was held on August 13, 2014, at 10:00 am at the Council Chambers, Room, Room 035, Citizens Square, Fort Wayne to discuss the PER. No verbal comments were received at the public hearing, and no written comments were received during the 5-day comment period following the hearing.



# SOUTH MAUMEE RELIEF SEWER



**Legend**

- Bore Pit (see detail figures)
- Existing Sanitary Sewer
- Proposed Relief Sewer
- Disturbance Area

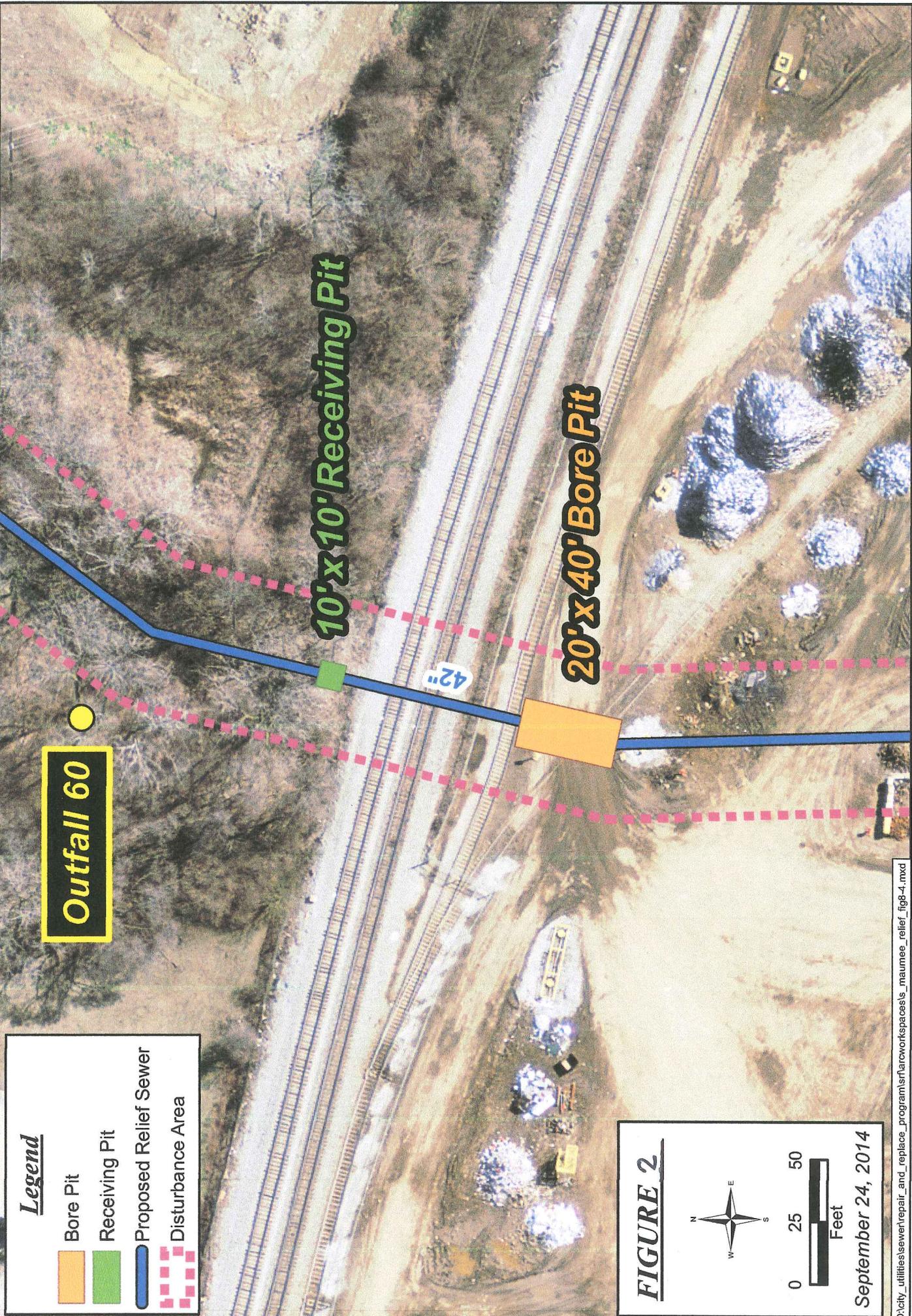
**FIGURE 1**

0 350 700  
Feet

Revised 9/24/14



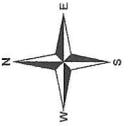
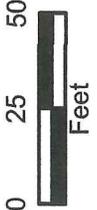
# SOUTH MAUMEE RELIEF SEWER



**Legend**

-  Bore Pit
-  Receiving Pit
-  Proposed Relief Sewer
-  Disturbance Area

**FIGURE 2**

0 25 50  
Feet

September 24, 2014

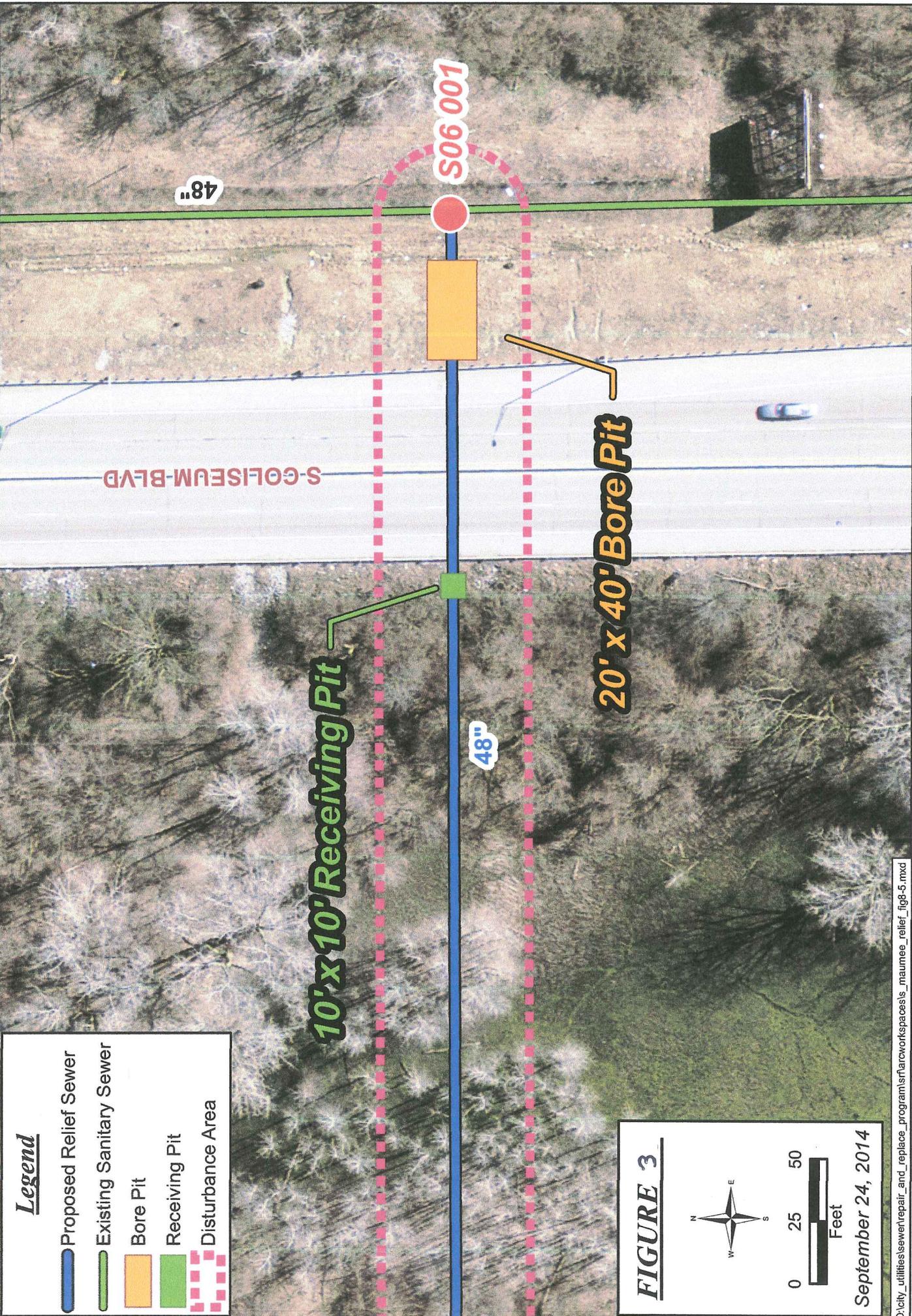


# SOUTH MAUMEE RELIEF SEWER

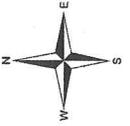
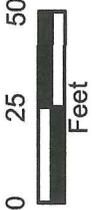


**Legend**

-  Proposed Relief Sewer
-  Existing Sanitary Sewer
-  Bore Pit
-  Receiving Pit
-  Disturbance Area



**FIGURE 3**

September 24, 2014

# Sector 23 (003-214-23001/23006)

No.	Rtg.	Description
001	C	House, 4410 Lake Ave.; Colonial Revival-Cape Cod, c.1935; Architecture
002	C	Concordia Cemetery Gardens, 5300 Lake Ave.; Modern cemetery garden, c.1960-present (A.M. Strauss and Associates, architects); Exploration/settlement, Landscape architecture
003	C	(Tilbury) Private Cemetery, 5100 Old Maysville Rd.; Private plot cemetery-rural hilltop, c.1893-c.1904; Exploration/settlement
004	C	House, 1211 Inwood Dr.; Tudor Revival, c.1935; Architecture
005	C	August & Emilie Junge Farm, 916 Reed Rd.; Gabled-T/Italianate influence house, and English Barn, c.1890, outbuildings; Agriculture, Vernacular/Construction
006	N	Jasper & Florence Tilbury Farm, 1928 Reed Rd.; Queen Anne house, and English Barn, c.1893; Agriculture, Architecture, Vernacular/Construction LHD

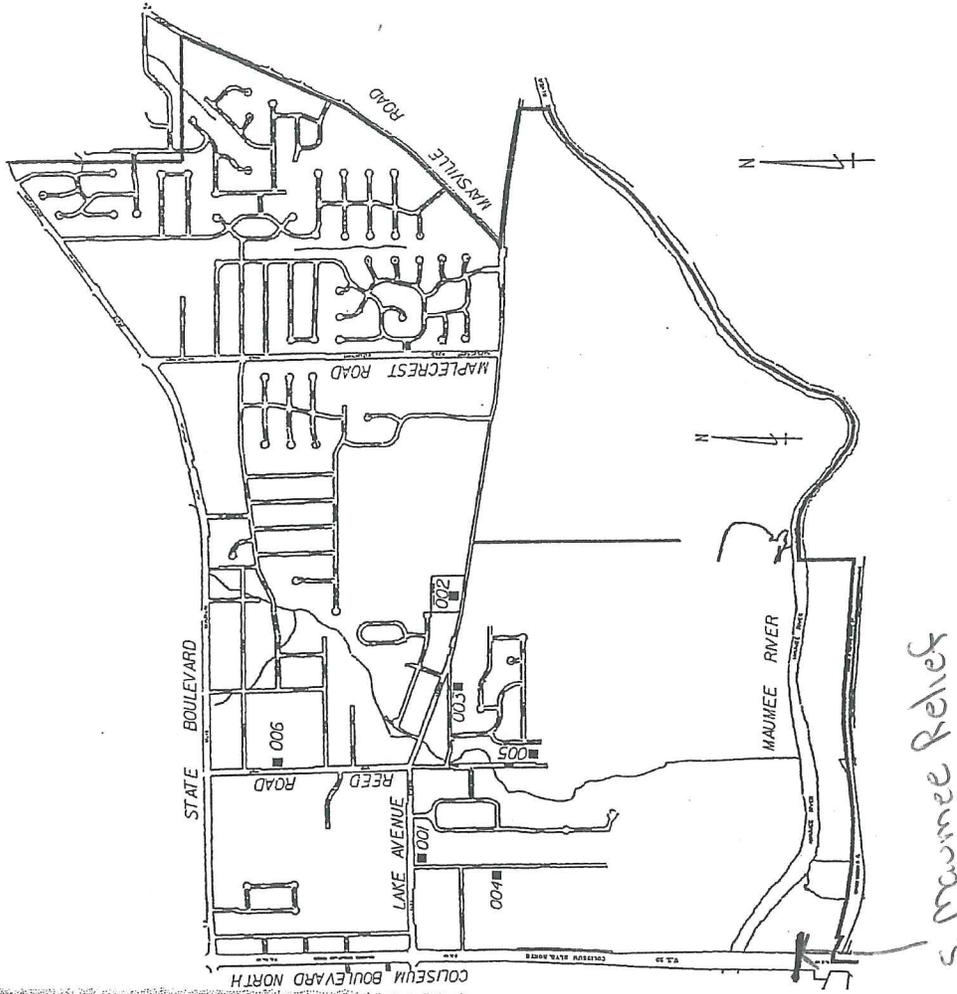


Figure 4: from the Allen County Interim Report Historic Sites and Structures Inventory



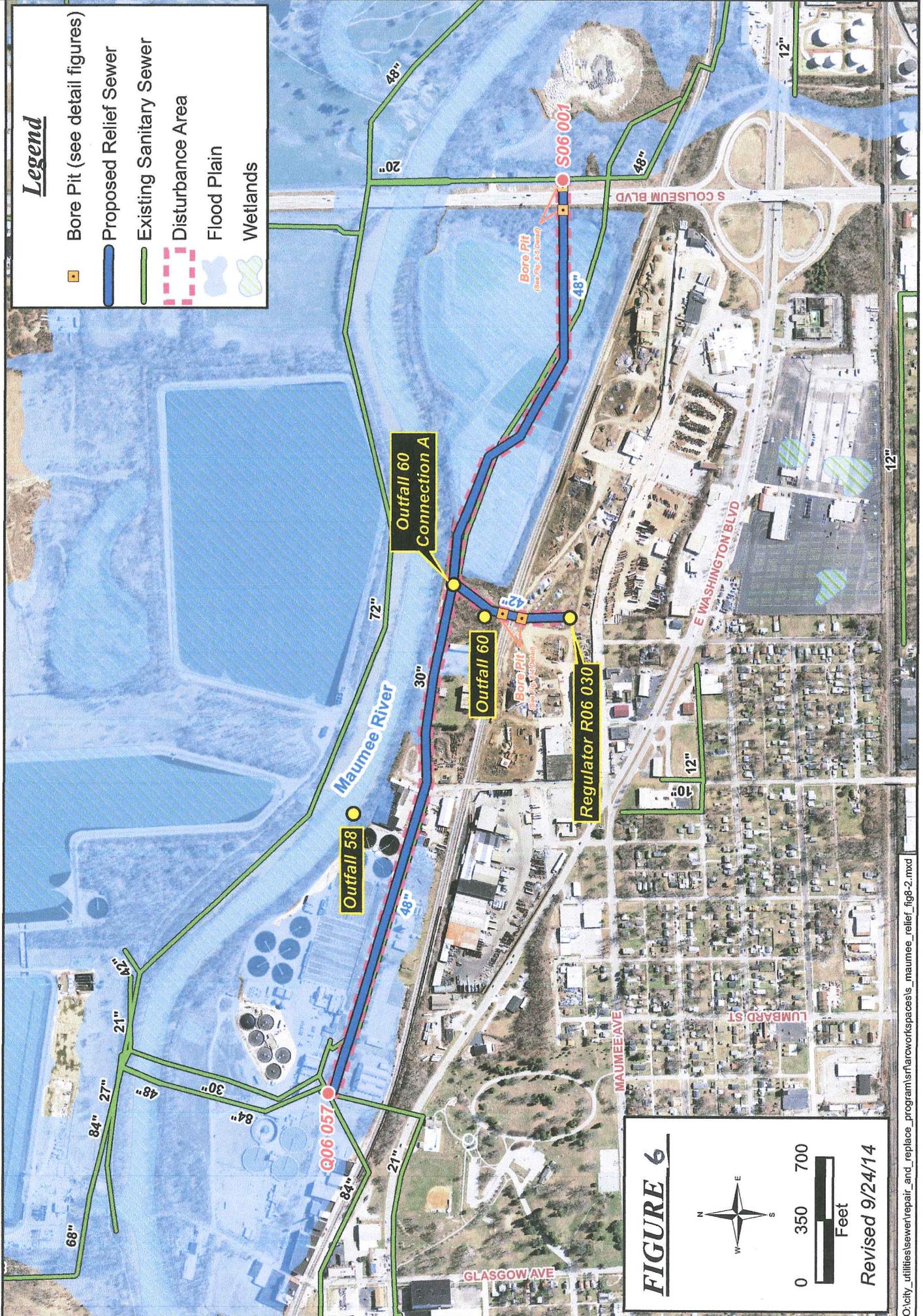


# SOUTH MAUMEE RELIEF SEWER

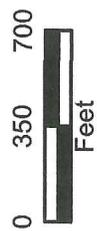
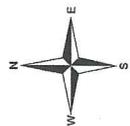


## Legend

- Bore Pit (see detail figures)
- Proposed Relief Sewer
- Existing Sanitary Sewer
- Disturbance Area
- Flood Plain
- Wetlands



### FIGURE 6



Revised 9/24/14