



# 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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#### TOWN OF MONROVIA Wastewater Improvements Project SRF PROJECT WW 21 06 55 01

**DATE: September 16, 2020**

**TARGET PROJECT APPROVAL DATE: October 19, 2020**

#### I. INTRODUCTION

The above entity has applied to the Wastewater State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the 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 in color at <http://www.in.gov/ifa/srf/>.

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

The SRF Wastewater Program 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 5-1.2-3, 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 target approval 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**  
**Environmental Review Coordinator**  
**State Revolving Fund**  
**100 N. Senate Ave. IGCN 1275**  
**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:                   Wastewater Improvements Project  
Town of Monrovia  
40 E. Main Street; PO Box 400  
Monrovia, IN 46157

SRF Project Number:                       **WW 21 06 55 01**

Authorized Representative:                 Mr. Robert Marley, Council President

## II. PROJECT LOCATION

The Town of Monrovia is located in Monroe Township, in Morgan County, Indiana. The sewer section that will be replaced is in Section 12 of Township 13 North, Range 1 West and on the Mooresville West Quadrangle map. The WWTP is located in 13 North, 1W, section 1. See Figure 1.

## III. PROJECT NEED AND PURPOSE

Due to age and unanticipated growth, the wastewater treatment plant (WWTP) needs to be upgraded and expanded. The Town and surrounding area has experienced a significant population increase due to development and annexation. Proposed plant work includes replacing and adding components and upgrading equipment where needed. The capacity will be increased from 0.30MGD to 0.450 MGD. See Figure 2.

In addition, the collection system is in need of minor rehabilitation. There is an extreme sag in one of the main lines in Town. The sag is so severe that it causes solids to build up in the pipe which then must be flushed regularly to restore the pipe's capacity and function. The line needs to be replaced. Collection system work is limited to replacement of a sanitary sewer.

## IV. PROJECT DESCRIPTION

Proposed WWTP work includes upgrading and adding components to increase the capacity to 0.450 MGD. This will be accomplished by adding additional aeration capacity, additional digester capacity, replacing the WAS pumps and adding a sludge holding tank. The collection system work is limited to replacement of a sanitary sewer.

The proposed project components include:

- Replacement of existing diffusers and installation of additional diffusers;
- Installation of a new Aeration Tank including all associated appurtenances;
- Installation of a new Digester Tank including all associated appurtenances;

- Installation of a new Sludge Holding Tank including all associated appurtenances;
- Replacement of existing Clarifier Equipment including refurbishment and rehabilitation of all associated appurtenances;
- Replacement of the existing Waste Activated Sludge (WAS) Pumps with new pumps; and
- Replacement of 360 l. f. of a 10” Sanitary Sewer.

## V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

### A. Selected Plan Estimated Cost Summary

#### Construction Costs

Rehabilitate and Upgrade WWTP (0.45 MGD)	\$2,545,000
Collection System Improvements	142,047
Contingency	<u>268,705</u>
<b>Construction Sub-Total</b>	<b>\$2,955,752</b>

**Non-Construction Costs** **\$ 717,000**

**Total Estimated Project Cost** **\$3,672,752**

- B. The total cost of these projects is estimated to be approximately \$3,672,752. The Town of Monrovia will finance the project with a loan from the State Revolving Fund Loan Program for a term and annual fixed interest rate to be determined at loan closing. The actual loan amount will depend on the bids received. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

## VI. DESCRIPTION OF EVALUATED ALTERNATIVES

The “**No Action**” alternative consists of maintaining the present conditions with no upgrades, increases or rehabilitation efforts. Needed upgrades, capacity increase and modifications would not be made at the plant. The sagging sewer would not be repaired or replaced. Without the improvements, components could fail, maintenance requirements would increase, and plant capacity, efficiencies and effectiveness would remain the same. The plant would not have the ability to provide treatment services to several existing and proposed developments. This option is not practical, reliable, or environmentally-sound and will not be evaluated further.

**Increase the WWTP and Treatment Components:** Expanding the plant would entail converting and replacing components and adding tankage to increase the Aero-mod footprint. Some of the mechanical equipment would be replaced and upgraded. The existing plant would need to remain in operation while the expansion takes place and all new units are on-line. These improvements will result in reduce maintenance due to newer equipment and more efficient operations. **This is the selected alternative.**

**Replace WWTP and Treatment Components:** This option involves complete replacement of the plant in order to provide upgrades and increase the capacity. This alternative is cost-prohibitive and was rejected.

**Regionalize:** Regionalization entails connecting to an existing plant which is dependent upon the proximity, operational circumstances and willingness of the entity to accept the sewage. As such this is not considered to be feasible or necessary especially since the Monrovia WWPT is already a

regionalized facility with service to the Hendricks County RSD.

**Replace the Sanitary Sewer:** Under this option the sanitary sewer with the severe sag would be replaced. The main benefits of this option are that it assures that the sewer will be watertight and installed at the proper slope. In addition, the capacity in this part of the system will be restored to its original standard. This will eliminate the continuous need to clean the line to remove the solids that accumulate in the sag. **This is the selected alternative.**

**Repair the Sanitary Sewer:** Under this option the sanitary sewer sag would be repaired by lining or grouting as an attempt to reduce or eliminate the sag. The sewer would need to be replaced eventually in order to correct the situation. As such this option is not practical and will not be evaluated further.

## VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

### A. Direct Impacts of Construction and Operation

**Disturbed/Undisturbed Land:** Construction related to the plant will occur at the existing treatment plant site. The collection system work will occur in the right of way in the existing trench. All areas have been previously disturbed by previous construction activity.

**Structural Resources** (Figures 3-4): Construction and operation of the project will not alter, demolish or remove 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:** There are no stream crossings in the project. 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:** No wetlands will be adversely impacted by the construction or operation of the project. Mitigation measures to lessen and compensate for wetland impacts cited in comment letters about the project from the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

**Floodplains:** The work will not impact floodplains or a floodway.

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

**Plants and Animals:** The construction and operation of the project will not negatively impact state or federal-listed endangered species or their habitat. The project will be implemented to minimize impact to non-endangered species and their habitat. Mitigation measures cited in comment letters from the Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

**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**

The town's Preliminary Engineering Report (PER) states: *The Town, through the authority of its Council, planning commission, or other means will ensure that future development, as well as future wastewater treatment works projects connecting to SRF-funded facilities, will not adversely impact archaeological/historical/structural resources, wetlands, wooded areas, or other sensitive environmental resources. The Town 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 review authorities.*

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

This is the first correspondence with the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology, the United States Fish and Wildlife Service, and the Department of Natural Resources Environmental Unit. The responses will be forwarded to the town upon receipt and implemented when constructing this project.

In correspondence dated June 22, 2020, the Natural Resources Conservation Service stated:

*The proposed project to make wastewater improvements in the Town of Monrovia, Morgan County, Indiana, as referred to in your letter received April 27, 2020, will not cause a conversion of prime farmland.*

## **VIII. MITIGATION MEASURES**

Town of Monrovia's PER states:

**1. Siltation and Erosion** - *Siltation and erosion will be kept to a minimum. Any mitigation measures mandated by authorized reviewing agencies to reduce or eliminate waterway contamination will be implemented. Mitigative measures to limit erosion and siltation will include the following:*

- a. Erosion and sediment control measures required by the project specifications will require the contractor to provide a schedule for clearing, grading, excavating and restoring disturbed areas, along with a description of measures to be used during construction to ensure erosion/sediment control. The program shall meet all applicable federal, state, and local requirements.*
- b. Natural vegetation will be retained wherever feasible.*
- c. Appropriate agronomic practices (sediment basins, seeding, mulching) will be provided to control runoff, including shoreline and stream crossings, if applicable.*
- d. Drainage systems, including surface and subsurface drainage, will be returned to their natural state as soon as possible, if disturbed.*
- e. Roadways and parking lots will be stabilized during construction to the extent possible.*
- f. Construction activities will be scheduled to avoid excessively wet conditions when possible.*

- g. No more than 100 feet of open trench will be allowed. Excavated material will be kept to the upland side of the trench. Excess material will be used elsewhere on the project.*
- h. The existing topsoil will be reused during the restoration process.*
- i. If necessary, discharge from dewatering will be directed to sedimentation basins prior to discharging into surrounding surface waters.*

**2. Air Quality Impacts** - *The adverse impacts caused by dust may be alleviated by periodically wetting the exposed soil and unpaved roadways to reduce the suspension of particles. To reduce noise impacts, work activities can be limited to normal daytime hours.*

## **IX. PUBLIC PARTICIPATION**

A properly noticed public hearing was held on June 22, 2020 at 7:30 p.m. at the Town Festival Community Building which is located at 50 Walnut Street in Monrovia, Indiana 46157. Questions regarding this project were answered during the hearing. No written comments were received in the 5-day period following the hearing for this project.

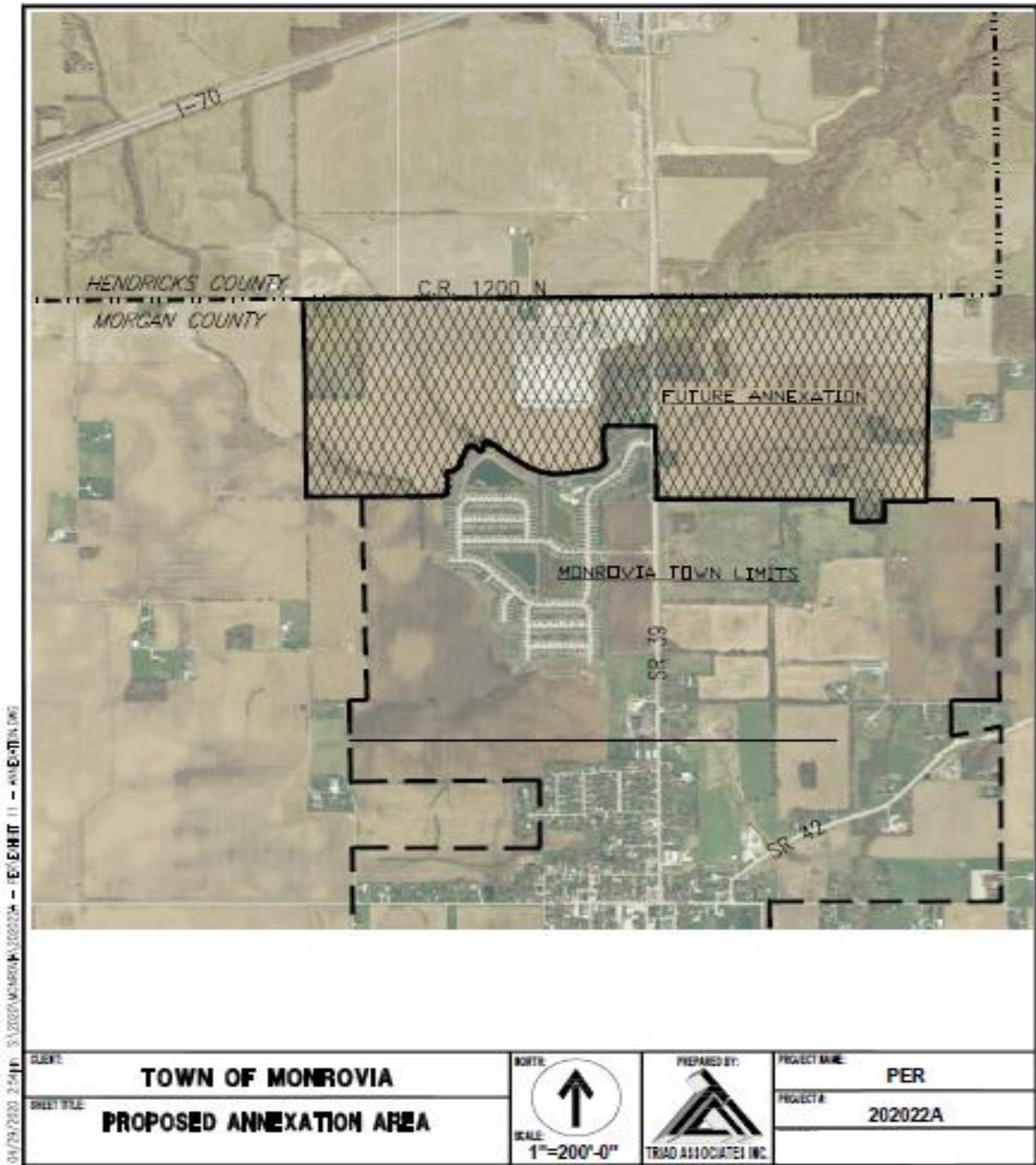


Figure 1 – Proposed Annexation Area

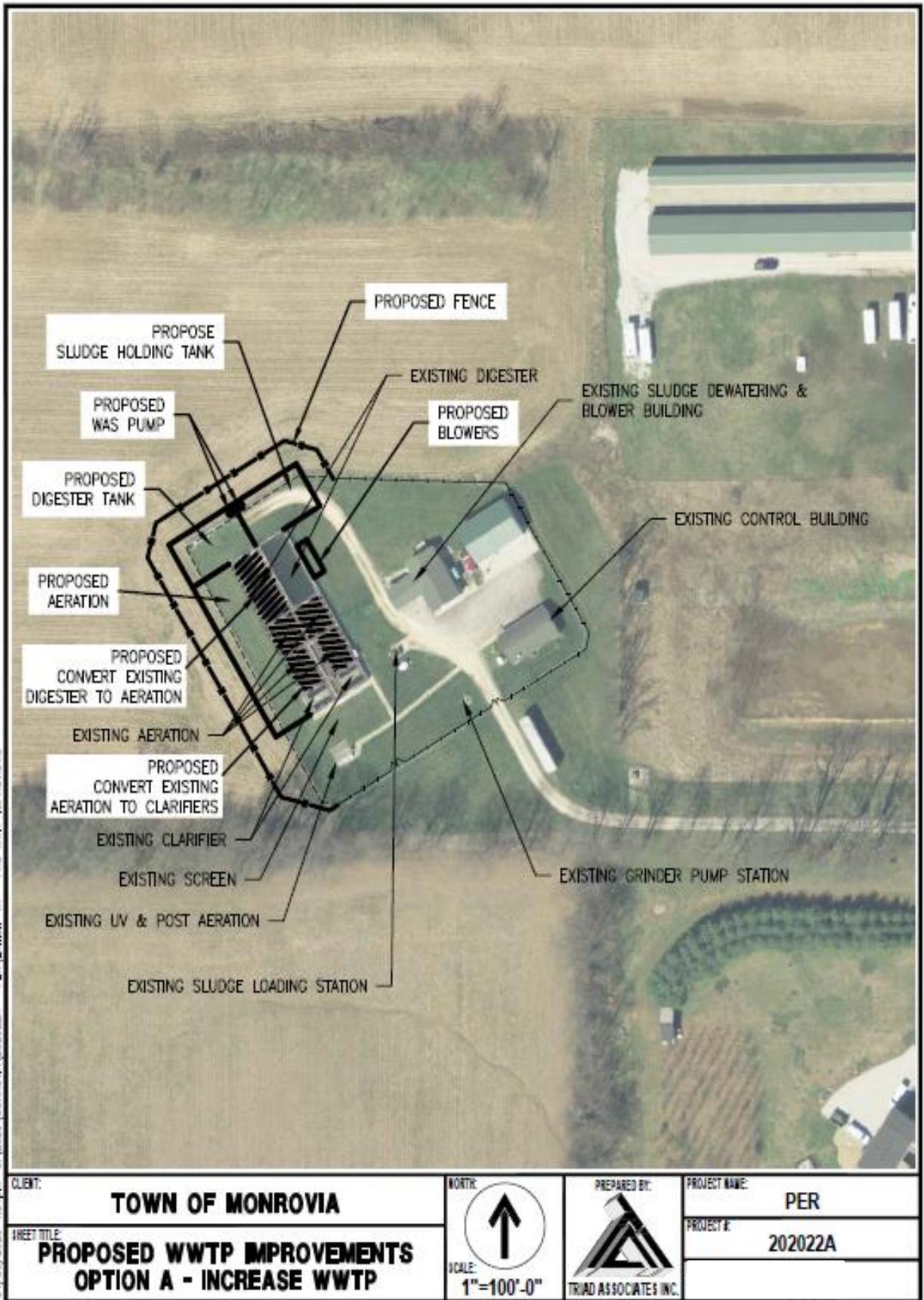


Figure 2 – Proposed WWTP Improvements to increase capacity from 0.30MGD to 0.45 MGD



Figure 3 – SHAARD Map for the proposed WWTP project

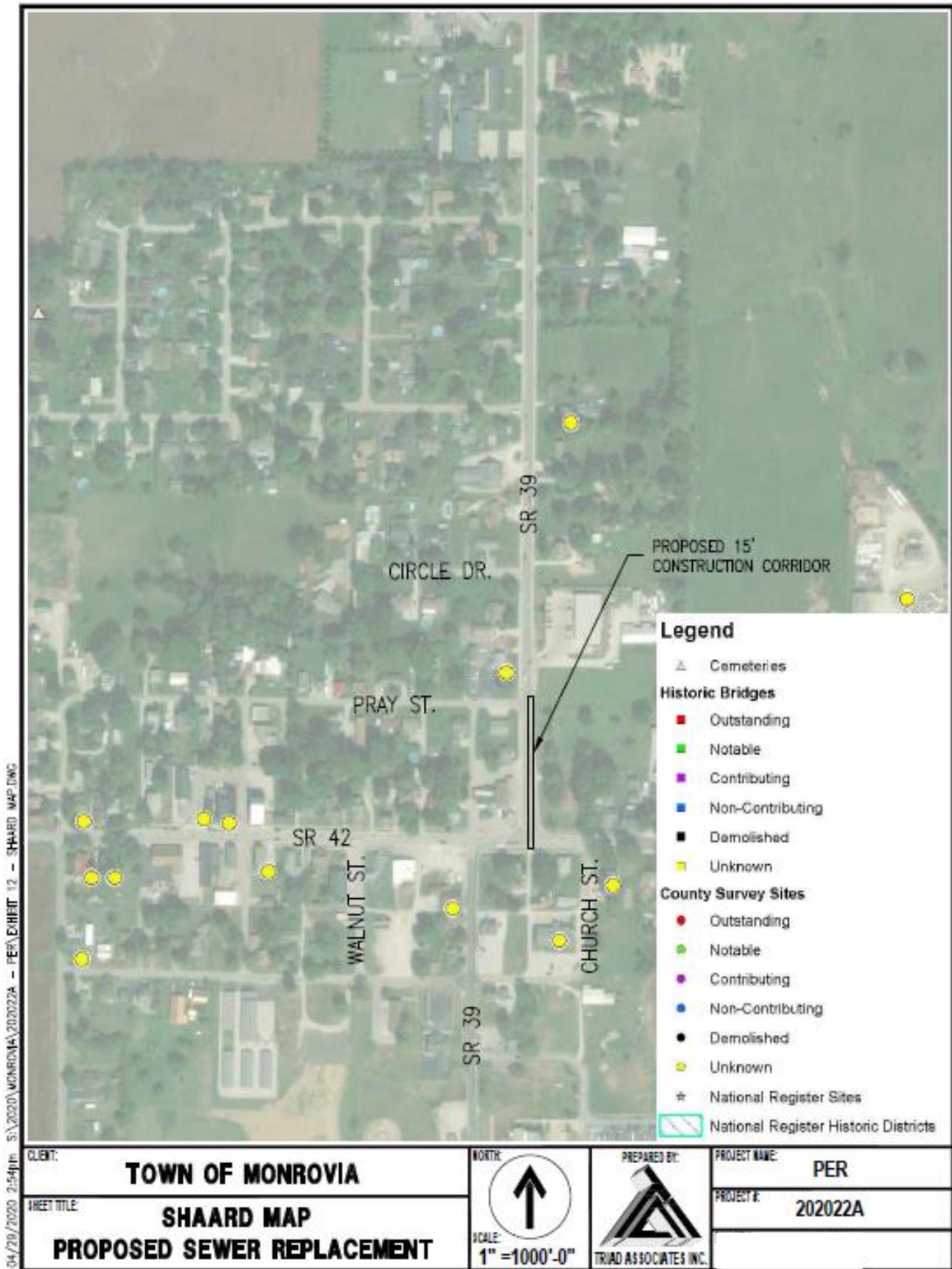


Figure 4 – SHAARD Map for the proposed sewer replacement project