



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

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

ALLEN COUNTY REGIONAL WATER & SEWER DISTRICT

SANITARY SEWER SYSTEM IMPROVEMENTS
GREATER CEDAR CREEK WATERSHED AND FLUTTER ROAD/WHEELOCK ROAD
PRELIMINARY ENGINEERING REPORT ADDENDUM #1
STATE REVOLVING FUND PROJECT # WW12 02 02 04

DATE: September 15, 2014

TARGET APPROVAL DATE: October 16, 2014

I. INTRODUCTION

The above entity has applied to the State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the wastewater project described in the Environmental Assessment (EA) attached to this Finding of No Significant Impact (FNSI). 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 target project approval date. 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
317-234-72294
adouglas@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name: **Sanitary Sewer System Improvements
Greater Cedar Creek Watershed and
Flutter Road/Wheelock Road
Preliminary Engineering Report Addendum #1**
Allen County Regional Water & Sewer District
P.O. Box 11888
Fort Wayne, IN 46861-1888

SRF Project Number: WW12 02 02 04

Authorized Representative: Ric Zehr, President
Board of Trustees

II. PROJECT LOCATION

Allen County Regional Water & Sewer District is located in Allen County in Northeast Indiana. The proposed project includes the connection of additional homes in both the Greater Cedar Creek (GCC) area and the Flutter Road/Wheelock Road area. In addition, the proposed project addresses changes in routes and sewer sizes in the previously approved project. The GCC Watershed Area is located in the Cedarville and Hometown USGS quadrangles, Perry Township, T32N, R12E, sections 10, 11, 14, 15, 21, 22, 23, 26, and 27; and the Flutter Road – Wheelock Road Area is located in the Cedarville USGS quadrangle, St. Joseph Township, T31N, R13E, sections 1, 2, 11 and 12; see Figures 1, 2, and 3.

III. PROJECT NEED AND PURPOSE

During construction, the District included the connection of four additional homes to the GCC Watershed project area, since they were adjacent to the new sewer system in the previously approved Preliminary Engineering Report (PER) on October 25, 2012. These homeowners were originally excluded from design due to their distance from the new sewer system. However, at a public meeting they requested to be included since they have failing septic systems.

In addition, some of the proposed sewer routes and sewer sizes changed from what was previously approved in the PER. One of these changes includes the re-connection of KD's Kennel to the existing Sunset Lakes collection system. These changes are also being addressed as part of this addendum (see figures 1, 4, 5, 6, 7, 8, and 9).

The District has also been in contact with other property owners in the project areas that were not part of the previously approved project and now want to be connected. The District would like to add a maximum of another 21 homes to the project (see figures 10, 11, 12, 13, 14, 15, 16 and 17. Currently two of the 21 homes have been connected in the Flutter Road and Wheelock Road area (see figures 3, 18, and 19). These additional homes will be served like the other homes in the Greater Cedar Creek and Flutter Road/Wheelock Road areas, which consist of service laterals coupled with grinder pump

stations rated at 30 gallons per minute each.

IV. PROJECT DESCRIPTION

A. GCC Watershed Service Area addresses the following changes and four additional connections:

1. Approximately 1,400 feet of 2-inch service lateral coupled with one grinder pump station located off Auburn Road and approved in the PER, but upsized from 1-½ inch; and approximately 1,305 feet of 2-inch service lateral coupled with one grinder pump station located off Auburn Road that was installed as a new connection, but not approved in the original PER (see Figures 4 and 6);
2. Approximately 175 feet of 2-inch low pressure sewer located off Lancer Lane, and approximately 360 feet of 2-inch low pressure sewer located along Glacier Road that were approved in the PER, but the routes were changed (see Figures 5 and 7);
3. Approximately 760 feet of 1-½ inch service lateral coupled with one grinder pump station located on Cedar Canyons Road that was installed as a new connection, but not approved in the PER (see Figures 5 and 20);
4. Approximately 750 feet of 2-inch service lateral with one grinder pump station and 200 feet of 2-inch low pressure sewer located on Holmeward Dr. approved in PER, but the route was changed and the lateral size upsized from 1-½ inch to 2-inches (see Figures 5 and 8);
5. Approximately 315 feet of 2-inch low pressure sewer and approximately 470 feet of 1-½ inch service lateral coupled with one grinder pump station located off Cedar Canyons Road that were installed as a new connection, but not approved in PER (see Figures 5 and 21);
6. Approximately 280 feet of 2-inch low pressure sewer and approximately 261 feet of 1-½ inch service lateral coupled with one grinder pump station located on Forest Glade that was installed as a new connection but not approved in PER, and also approximately 280 feet of 2-inch low pressure sewer and approximately 170 feet of 1- ½ inch service lateral located along Timberbrook Trail that was approved in PER but the route was changed (see Figures 5 and 9); and
7. Approximately 600 feet of 1-½ inch service lateral was installed to re-connect KD- Kennel to an existing 8-inch gravity sewer when the existing Canyon Run force main was abandoned; but not approved in PER (see Figures 5 and 22).

B. GCC Watershed Service Area sanitary sewer system that proposes the following nineteen new connections:

1. Approximately 480 feet of 2-inch low pressure sewer and approximately 1,030 feet of 1- ½ service laterals coupled with three grinder pump stations (see Figures 11 and 12);
2. Approximately 1,550 feet of 2-inch low pressure sewer and approximately 570 feet of 1- ½ inch service laterals coupled with six grinder pump stations (see Figures 11 and 13);
3. Approximately 400 feet of 1-½ inch service lateral coupled with one grinder pump station (see Figures 11 and 14);
4. Approximately 1,450 feet of 2-inch low pressure sewer, approximately 1,200 feet of 2-inch service lateral and approximately 910 feet of 1- ½ inch service laterals coupled with six grinder pump stations (see Figures 10, 11 and 15);
5. Approximately 850 feet of 1-½ inch service lateral coupled with two grinder pump stations (see Figures 11 and 16); and
6. Approximately 110 feet of 1- ½ inch service lateral coupled with one grinder pump station (see Figures 10 and 17).

C. Flutter Road – Wheelock Road – Eby Road – Hickory Place Addition Service Area sanitary sewer system installed two new connections: one connection has approximately 1,474 feet of 2-inch low

pressure sewer and approximately 252 feet of 1-½ inch service laterals coupled with one grinder pump station located off Flutter Road and the other connection has approximately 491 feet of 1- ½ inch service lateral coupled with one grinder pump also located off Flutter Road that were not approved in the PER (see Figures 18 and 19).

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

<u>Project Areas</u>	<u>Estimated Cost</u>
1. Greater Cedar Creek Watershed Area (changes and four additional connections unapproved in PER)	\$ 61,431
2. Greater Cedar Creek Watershed Area (proposed 19 new connections)	\$ 204,556
3. Flutter Road – Wheelock Road (connection of two additional homes on Flutter Road unapproved in PER)	\$ 46,798
4. KD-Kennel Property re-connection unapproved in PER	<u>\$ 10,500</u>
Total Estimated Construction Cost	\$ 323,285
Total Non-Construction Cost	<u>\$ 22,700</u>
Total Estimated Project Cost	\$ 345,985

B. The cost for these changes and additions will be covered by an existing State Revolving Fund (SRF) Loan that the District closed on December 18, 2012. The remaining balance as of July 17, 2014 is \$347,121. The property owners will pay \$14,502 for the installation of sewer laterals greater than 300 feet from a public sanitary sewer. This is the District’s new policy where homeowners requesting service will be responsible for financing the installation of a service lateral over 300 feet from a public sanitary sewer.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

The No-Action alternative for adding the additional homes was rejected since they have been experiencing the same problems as the homeowners in the original project regarding failing septic systems and facing possible enforcement action from the Fort Wayne-Allen County Department of Health.

The selected alternative proposes the installation of low pressure service laterals coupled with grinder pump stations for the additional 19 properties being connected to the low pressure sewer system.

The “No Action” alternative for the changes in the original sewer routes and sewer sizes was rejected since homes would not have been adequately connected due to unforeseen locations of individual septic systems and topography issues.

The selected alternative proposes revising sewer routes and making sizing changes in an effort to construct the proposed sewers with adequate capacity to handle addition connections and in locations convenient for final connection by the property owner(s).

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed and Undisturbed Areas: All additional low pressure sewer mains and service laterals will be directionally drilled on each individual's property with no clearing of woods or vegetation. All construction previously completed without formal SRF approval were directionally drilled and there was no clearing or vegetation removal associated with any of the installed or proposed to be installed sanitary sewer work. Staging areas for drill pits are indicated on the SRF figures.

Structural Resources (Figures 23, 24, 25 and 26): The proposed project areas will not have any impact on historical or other archaeological resources subject to the condition that project activities remain within areas previously disturbed.

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."

Plants and Animals: The construction and operation of the sanitary sewer projects has the potential to negatively impact state or federally listed endangered species or their habitat. See the correspondence from US Fish and Wildlife, and Indiana Department of Natural Resources Environmental Unit.

Prime Farmland: The proposed changes and additional connections will not cause a conversion of prime farmland.

Wetlands (Figures 27 and 28): 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.

100-Year Floodplain: No portion of the amended sanitary system improvements project will be constructed in a floodplain.

Surface Waters: The amended sanitary system improvements project will not affect any Outstanding State Resources Waters, Limited or Exceptional Use Streams or Natural and Scenic Rivers. Several stream crossings associated with the proposed additional improvements will be directionally drilled to mitigate any impacts to the streams.

Groundwater: The amended sanitary sewer improvements projects will not impact groundwater. Impacts from a high groundwater table with respect to the amended sanitary system improvements may include the need for dewatering during excavation of the grinder pump stations.

Air Quality: The amended sanitary sewer improvements projects will not adversely affect air quality, other than temporary impacts due to dust and emission.

Open Space and Recreational Opportunities: The amended sanitary sewer improvements project's construction will neither create nor destroy open space and/or recreational opportunities.

National Natural Landmarks: The construction and operation of the amended sanitary sewer system improvements projects will not impact National Natural Landmarks.

The amended sanitary sewer system improvements projects will not affect the Lake Michigan Coastal Management Zone.

B. Indirect Impacts:

The District's Preliminary Engineering Report (PER) states: *The proposed amended sanitary sewer system improvements projects will allow the District to provide sewer service to as many as twenty-one (21) additional homes outside of established municipal service areas. The new sanitary sewage laterals and improvements will eliminate failing, on-site septic systems and provide users with municipal sanitary sewer service. These amended improvements to the sanitary sewer system will not create or attract new development due to the fact that in almost every instance they will service individual homes with sewers that were left out of the original project. The District will ensure, through the authority of its Board and local zoning laws, that future development will not adversely impact environmental sensitive areas by enforcing the requirements and guidelines of the IDNR, U.S. Fish & Wildlife Service, IDEM, and the Allen County Drainage Board.*

The District again did not consider the changes in route and size to service previously approved connections as pertinent to the completion of the original project from an environmental perspective. This evaluation of environmental impacts attempts to correct this oversight as well as provide a basis for expanding the original scope to include these additional connections.

C. Comments from Environmental Review Authorities

The Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (DHPA), in correspondence dated July 14, 2014, stated: *Pursuant to IC 13-18-21 and 327IAC 14 and Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f) and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer ("Indiana SHPO") is conducting an analysis of the materials dated and received by the Indiana SHPO on June 16, 2014, for the above indicated project in Perry and St. Joseph Townships, Allen County, Indiana.*

It is our understanding that some of the project construction activities have already taken place. We did not have an opportunity to comment on the potential effect to archaeological resources which may have been present in those areas.

For the areas which are proposed, and have not yet been constructed, it has been determined that no historical properties will be altered, demolished, or removed by the proposed project. This identification is subject to the following conditions:

- 1. The ingress and egress locations for the proposed directional drilling are in the areas that have been previously disturbed by prior construction activities.*
- 2. The stated depth of the proposed directional drilling (5-10 feet, per your 7/14/14 email to Amy Johnson) will be adhered to.*

If any prehistoric or historic archaeological artifacts, features, or human remains are uncovered during the remaining project activities, state law (Indiana Code 14-21-1-27 & 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days.

The U.S. Fish and Wildlife Service, in correspondence dated July 31, 2014, stated: *These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation*

Policy.

We visited the area on July 2, 2014, and checked numerous installed and proposed sewer routes, particularly those in the Cedar Canyons Road area because of the extensive woodlands, plus some wetlands and streams, in that area. We concentrated on the sites shown on Figures B, C, D, E and F (Figures 7, 8, 9, 20, and 21), which were provided with your June 24th letter, and did not observe any significant impacts to the woodlands or other important natural resources by any of the unapproved modifications or additions. The open field shown on the left side of Figure F (Figure 9) north of Forest Glade, where unapproved additions were installed, was being modified through the construction of a new house, so the route of the unapproved sewer north from Forest Glade was being affected by the installation of other utilities. Otherwise, we did not observe any ground disturbances associated with the sewer lines. The area shown in Figure H (Figure 13), where new lines are proposed, has existing homes within wooded habitats similar to those previously affected by sewer line installation (as discussed above), so we expect these lines can be installed with minimal impacts to the woodlands.

The U.S. Fish and Wildlife Service does not object to the unauthorized changes that have been completed since it appears that the environmental impacts have been minor or negligible; it appears that the proposed additions and modifications will also be minor.

However, we are seriously concerned about an area along Auburn Road south of Hursh Road, where a partially authorized sewer was installed; this is shown on Figure A (Figure 6). Our letter of September 19, 2012 on the project specifically mentioned this area because of the presence of mature trees and wetlands:

Another area of concern is an apparently isolated forested wetland along the east side of Auburn Road south of Hursh Road; the 18-inch gravity sewer would be constructed through this wetland adjacent to the Auburn Road right-of-way. There are several very large oaks, either swamp white or bur, in this area; therefore, during the site review we requested that the right-of-way be kept as narrow as possible and that the excavated soils be taken to a nearby field to the north rather than sidecast into the wetland, which would require additional clearing for a temporary work space. The trees should be clearly marked so that the contractor is aware that they are to be left in place, although it appeared that at least 1 could not be avoided. Any temporary work space here needs to be replanted with suitable native trees at the completion of the project.

As shown in Photographs No. 1 and No. 2 (see Figure 29), we believe this site has not been adequately restored, including not restoring the wetland elevations and not planting trees or shrubs outside of the immediate sewer line footprint.

We request that the District be required to restore wetland elevations in this area and plant trees and/or shrubs adjacent to the remaining woodland but outside of the immediate footprint of the sewer line, perhaps leaving a width of 10 feet over the sewer in grasses and herbaceous species. This would ensure that access to the line is maintained while also ameliorating some of the damage that has occurred to this significant forested wetland.

ENDANGERED SPECIES

*Although we provided endangered species concurrence for this project in our previous letter of September 19, 2012, a new species list for Allen County has been published since that time, requiring additional coordination. The proposed project is within the range of the Federally endangered Indiana bat (*Myotis sodalis*) and rayed bean mussel (*Villosa fabalis*), the proposed*

endangered northern long-eared bat (*Myotis septentrionalis*), and the candidate eastern massasauga rattlesnake (*Sistrurus catenatus*). There is no known habitat for any of these species within the proposed project area, so we agree that the proposed project is not likely to adversely affect these endangered, proposed endangered, and candidate species.

In correspondence dated January 10, 2014, the Department of Natural Resources Environmental Unit stated: *Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.*

Regulatory Assessment: Any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1), unless it qualifies for a general license under Administrative Rule 312 IAC 10-5 that applies to utility line crossings (see enclosure). Please submit more detailed plans to the Division of Water's Technical Services Section if you are unsure whether or not a permit will be required. Also, please include a copy of this letter with any permit application(s), if required.

Natural Heritage Database: The Natural Heritage Program's data have been checked.

The species, managed lands, and high quality natural communities below have been documented within 1/2 mile of three (3) areas of the proposed project located in Township 32 North, Range 12 East, and the Sections as indicated below. The Division of Nature Preserves does not anticipate any impacts to the insect, communities, nature preserves, or the conservation lands as long as construction activities are confined to the right-of-way and steps are taken to eliminate runoff impacts.

I) Section 15; Adjacent to south side of Cedar Canyons Road: MANAGED LAND: Rodenbeck Woods Conservation Easement Widdicombe

II) Section 11; Adjacent to north side of Cedar Canyons Road:

A. MANAGED LANDS:

- 1. Rodenbeck (Albert D.) Nature Preserve*
- 2. Dustin Nature Preserve*
- 3. Girl Scouts of America Camp Mcmillan*
- 4. Izaak Walton League Cedar Creek*
- 5. Rodenbeck Woods Conservation Easement Widdicombe*

B. COMMUNITY: Wet-mesic Floodplain Forest

*C. INSECT: Gray Petaltail (*Tachopteryx thoreyi*); state rare*

*D. MUSSEL: Kidneyshell (*Ptychobranchnus fasciolaris*); state special concern*

III) Section 14; Southwest of the I-69 over Cedar Creek bridge:

A. MANAGED LANDS:

- 1. Vandolah Nature Preserve*
- 2. Rodenbeck (Albert D.) Nature Preserve*

B. COMMUNITIES:

- 1. Wet-mesic Floodplain Forest*
- 2. Mesic Upland Forest*
- 3. Wet-mesic Floodplain Forest*

*C. MUSSEL: Kidneyshell (*Ptychobranchnus fasciolaris*); state special concern*

In correspondence dated January 14, 2014, the Natural Resources Conservation Service stated: *The project to make sanitary sewer improvements ... will not cause a conversion to prime farmland.*

VIII. MITIGATION MEASURES

The District's PER lists the following mitigation measures:

The project area will comply with IDEM's Rule 5 requirements with respect to the mitigation of soil erosion and a detailed plan will be submitted for approval with the completed construction plans and specifications. Mitigation measures cited in typical comment letters from the Indiana Department of Environmental Management concerning the use of straw bale barriers, silt fencing or earthen berms to prevent soil erosion will be incorporated into the erosion control plans and specifications and implemented during construction.

Mitigation would include the restoration or creation of wetlands at least as large as the site affected.

Mitigation measures typically cited in comment letters from the Indiana Department of Environmental Management, the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

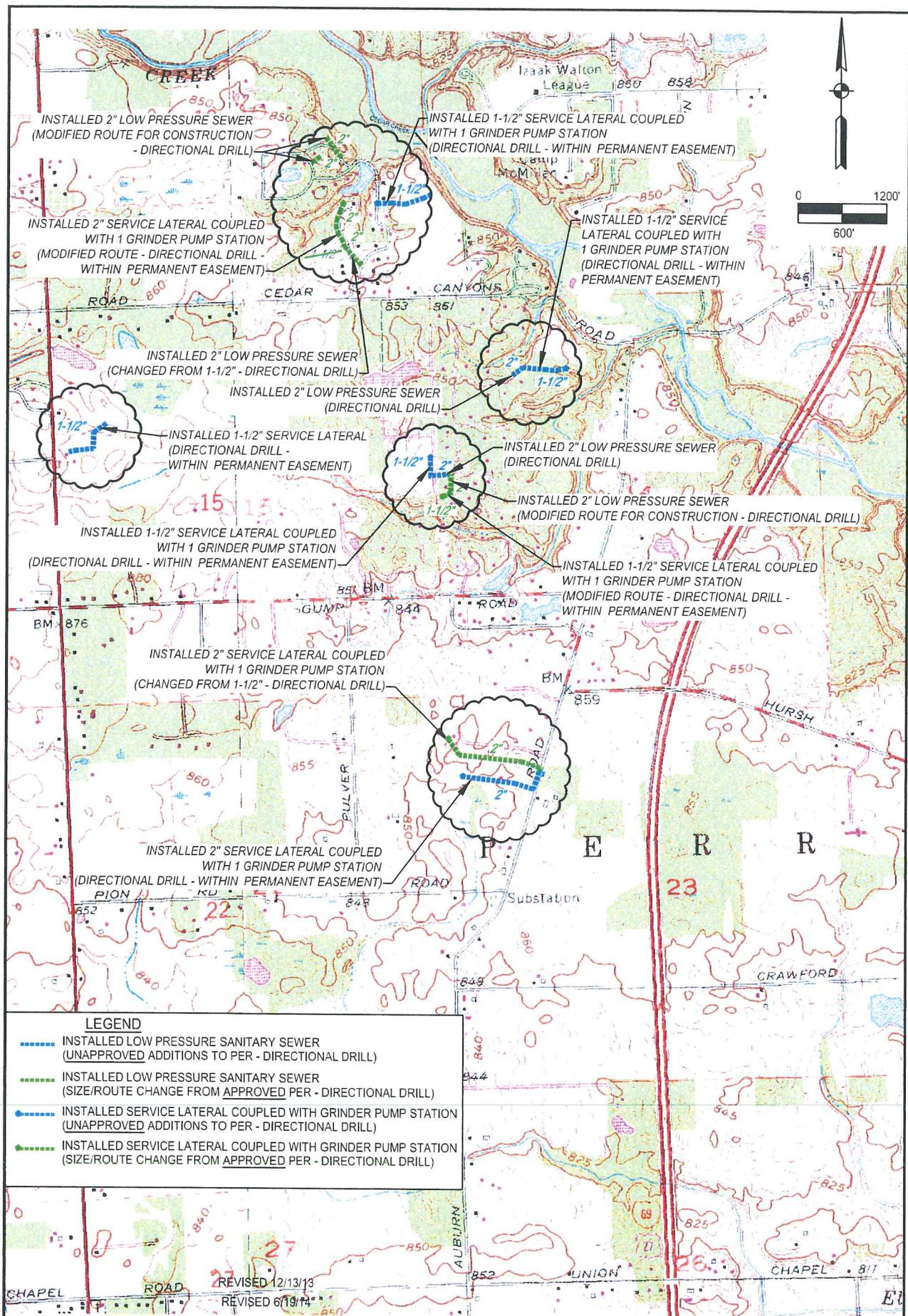
To minimize non-conformance with 326 IAC 6-4, "Fugitive Dust Emissions", reasonable and proper construction techniques and clean-up practices will be provided. In addition, wetting, sweeping streets and/or chemical stabilizers (calcium chloride) will be used to control dust generated during all phases of the proposed projects.

Exhausts of construction equipment will be required to have mufflers for noise and air pollution abatement.

All bare and disturbed areas will be revegetated with a mixture of grasses and legumes upon completion of construction.

IX. PUBLIC PARTICIPATION

The District placed a public notice in The Journal Gazette on April 26, 2014, describing the proposed routes and sizing modified during construction and the District's intent to service an additional nineteen homes. Another public notice was placed in The Journal Gazette on August 12, 2014 describing the same information in the previous notice but included a description of the reconnection of KD- Kennel to another sewer system. This reconnection was necessary since the sewer they were connected to has been abandoned.



LEGEND	
	INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
	INSTALLED LOW PRESSURE SANITARY SEWER (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
	INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
	INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)

REVISED 12/13/13
 REVISED 6/19/14

7296 Company Dr.
 Indianapolis, IN 46217 (317) 489-1177

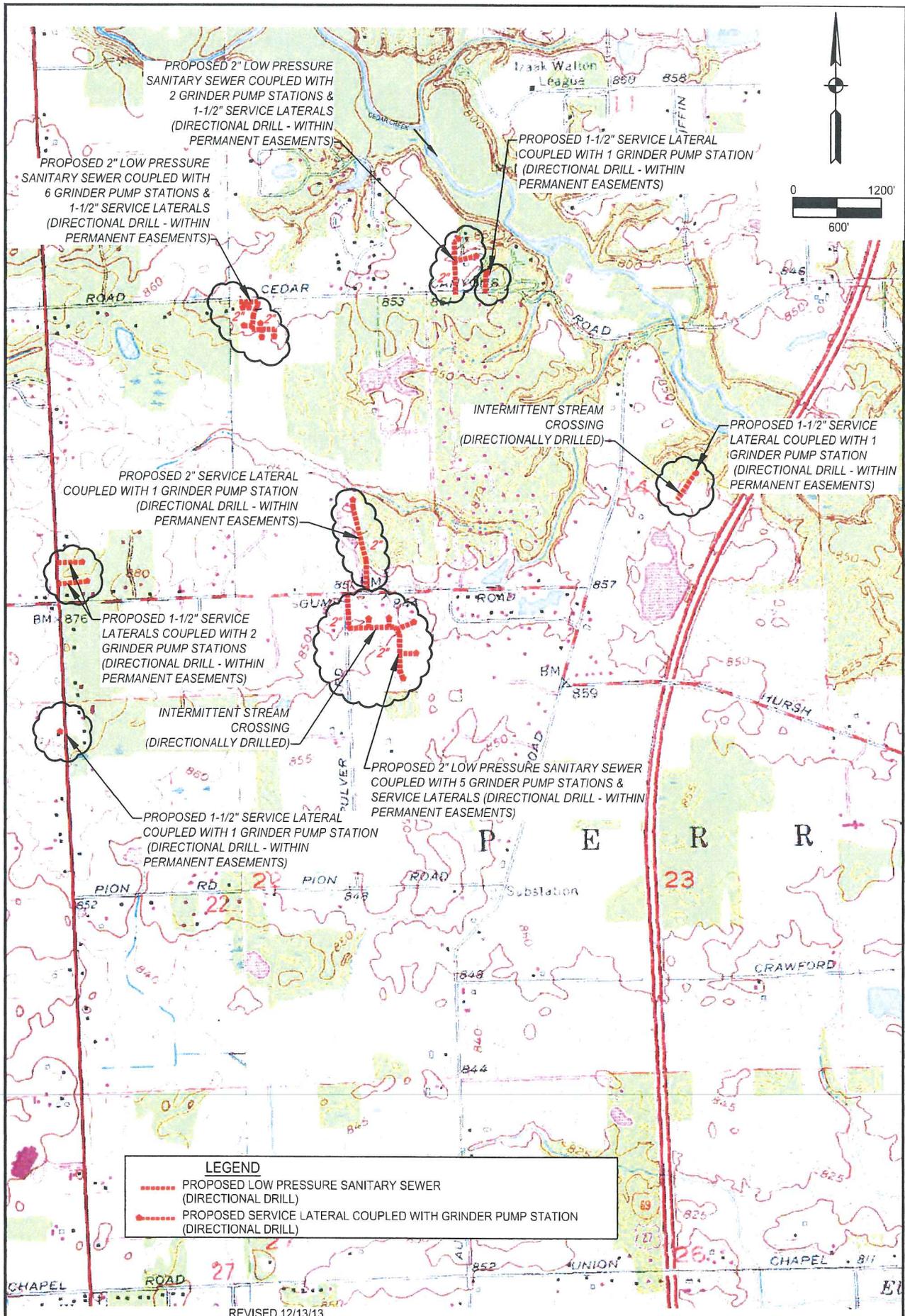
101 Plaza East Blvd., Ste. 200
 Evansville, IN 47715 (812) 474-1177

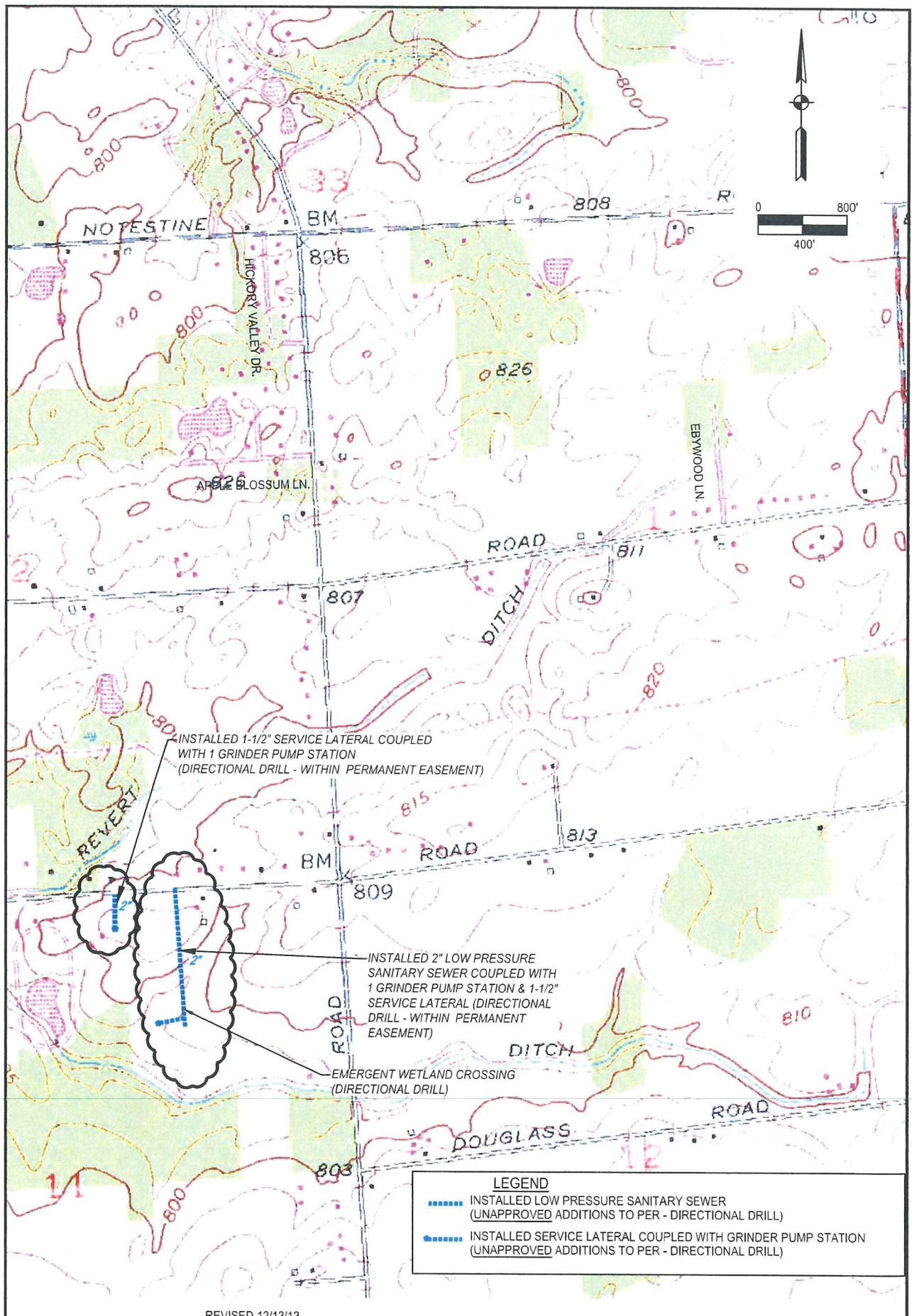
9034 Collierville Rd., Ste. 303
 Fort Wayne, IN 46825 (260) 494-3223

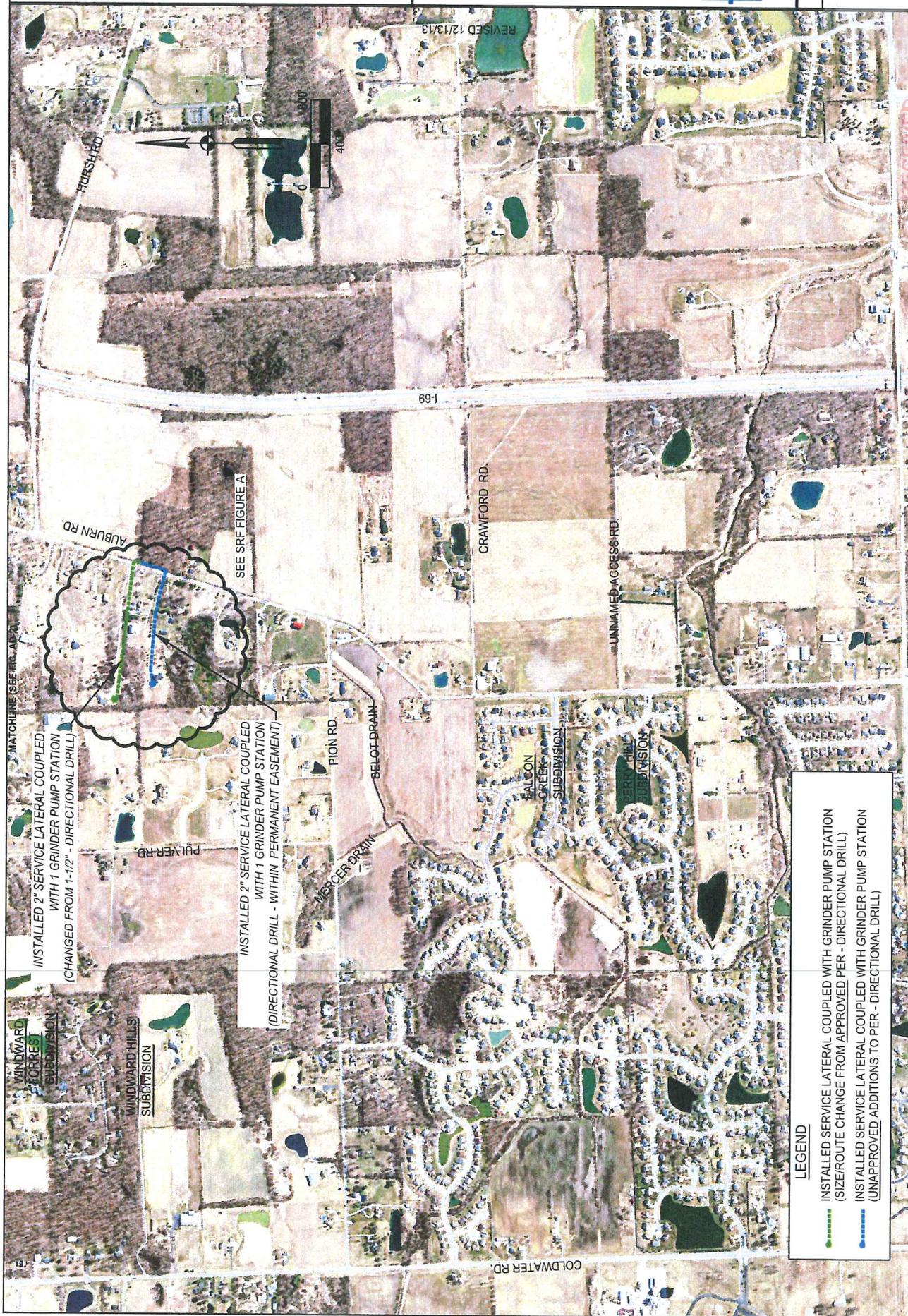
ACRWS-D - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE AD-3 - GREATER CEDAR CREEK WATERSHED
 SERVICE AREA ADDITIONS - INSTALLED
 TOPOGRAPHY MAP

FIGURE
 1







ACRWS - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS
 FIGURE AD-1 - GREATER CEDAR CREEK WATERSHED
 SERVICE AREA ADDITIONS - INSTALLED

COMMONWEALTH ENGINEERS, INC.

7256 Commonwealth Blvd., Suite 1177
 Indianapolis, IN 46227 (317) 806-1177
 101 Plaza East Blvd., Suite 200
 Evansville, IN 47715 (812) 426-1177
 9504 Commonwealth Rd., Suite 203
 Fort Wayne, IN 46825 (219) 426-1222

FIGURE
4

LEGEND

- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)

AUG 11 2014
 INDIANA FINANCE AUTHORITY
 ENVIRONMENTAL PERMITS

RECEIVED

Figure 6

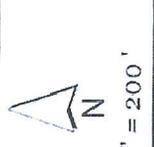


INSTALLED 2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (CHANGED FROM 1-1/2" - DIRECTIONAL DRILL)

INSTALLED 2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENT)

LEGEND

- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL



Date: 12/4/2013 1" = 200'

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INSTALLED 2" LOW PRESSURE SEWER
(MODIFIED ROUTE FOR CONSTRUCTION
- DIRECTIONAL DRILL)

LEGEND

- INSTALLED LOW PRESSURE SANITARY SEWER
(SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL



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INSTALLED 2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION
(MODIFIED ROUTE - DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENT)

INSTALLED 2" LOW PRESSURE SEWER
(CHANGED FROM 1-1/2" - DIRECTIONAL DRILL)

LEGEND

- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

REVISED 8/27/14

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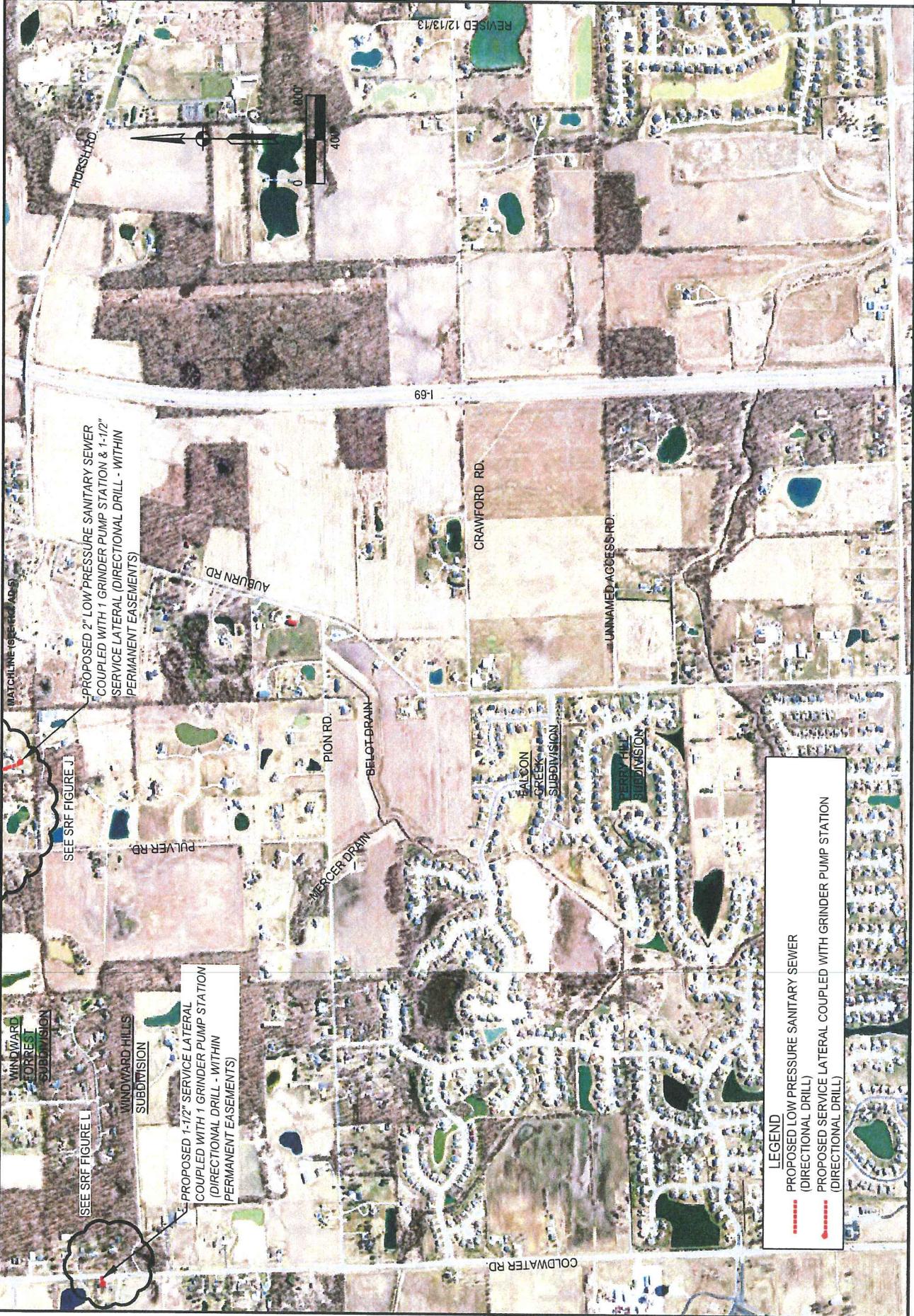


LEGEND

- ▬▬▬▬▬ INSTALLED LOW PRESSURE SANITARY SEWER
(UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- ▬▬▬▬▬ INSTALLED LOW PRESSURE SANITARY SEWER
(SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- ▬▬▬▬▬ INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION
(UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

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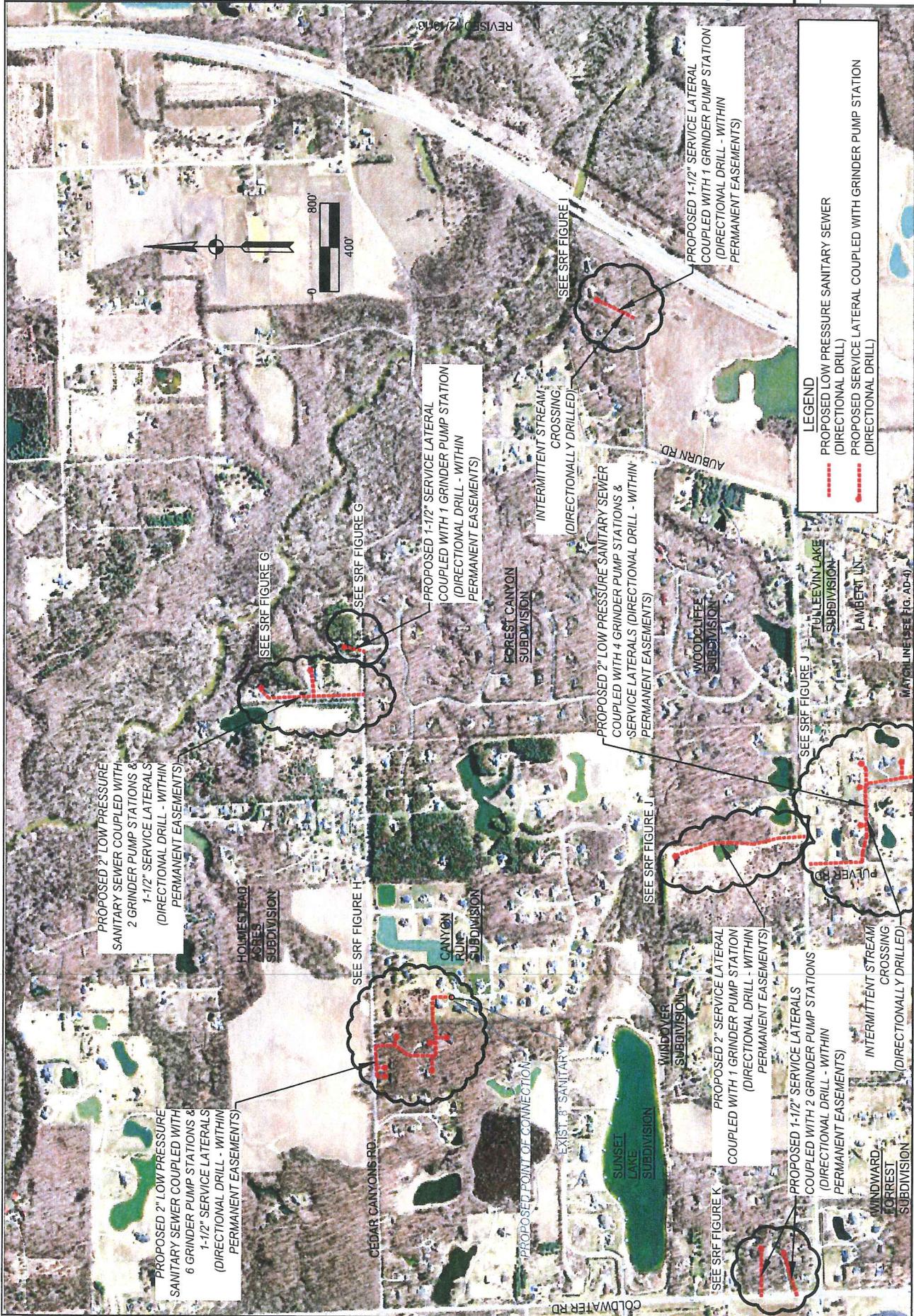


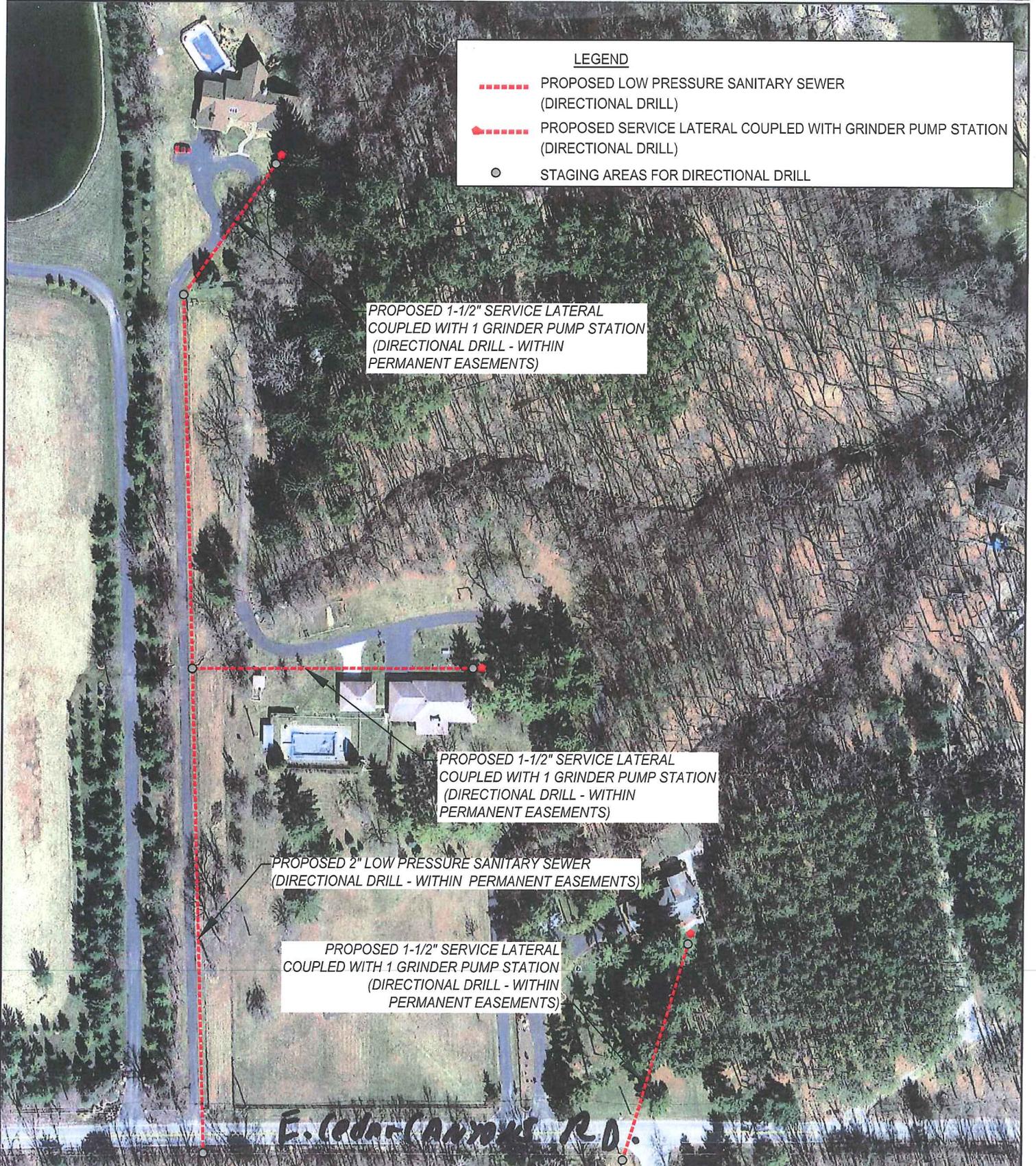


ACRWS - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS
 FIGURE AD-4 - GREATER CEDAR CREEK WATERSHED
 SERVICE AREA ADDITIONS - PROPOSED

COMMONWEALTH ENGINEERS, INC.

7206 Corporate Dr
 Independence, MO 64220 (314) 227-1177
 101 Plaza Blvd, Suite 200
 St. Louis, MO 63117 (314) 224-1177
 10100 Corporate Dr, Suite 200
 St. Louis, MO 63123 (314) 614-2223





LEGEND

- PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)
- PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

PROPOSED 1-1/2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENTS)

PROPOSED 1-1/2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENTS)

PROPOSED 2" LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENTS)

PROPOSED 1-1/2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENTS)

E. Cedar-Canyon Rd.

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 Photos and Contours: Spring 2009

Revised 6/18/14
 Revised 8/20/14





PROPOSED 1-1/2" SERVICE LATERAL
COUPLED WITH 1 GRINDER PUMP STATION
(DIRECTIONAL DRILL - WITHIN
PERMANENT EASEMENTS)

PROPOSED 1-1/2" SERVICE LATERALS
COUPLED WITH 3 GRINDER PUMP STATION
(DIRECTIONAL DRILL - WITHIN
PERMANENT EASEMENTS)

PROPOSED 2" LOW PRESSURE SANITARY SEWER
(DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENTS)

PROPOSED 1-1/2" SERVICE LATERALS
COUPLED WITH 2 GRINDER PUMP STATION
(DIRECTIONAL DRILL - WITHIN
PERMANENT EASEMENTS)

PROPOSED POINT OF CONNECTION

EXIST. 8" SANITARY

LEGEND

- PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)
- o-o-o- PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

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Figure 14



PROPOSED 1-1/2" SERVICE LATERAL
COUPLED WITH 1 GRINDER PUMP STATION
(DIRECTIONAL DRILL - WITHIN
PERMANENT EASEMENTS)

INTERMITTENT STREAM
CROSSING
(DIRECTIONALLY DRILLED)

LEGEND

- PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

N

Date: 12/3/2013 1" = 200'

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LEGEND

- PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)
- PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

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Allen County

Date: 12/6/2013 1" = 400'



LEGEND

-  PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
-  STAGING AREAS FOR DIRECTIONAL DRILL



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PROPOSED 1-1/2" SERVICE LATERAL
 COUPLED WITH 1 GRINDER PUMP STATION
 (DIRECTIONAL DRILL - WITHIN
 PERMANENT EASEMENTS)

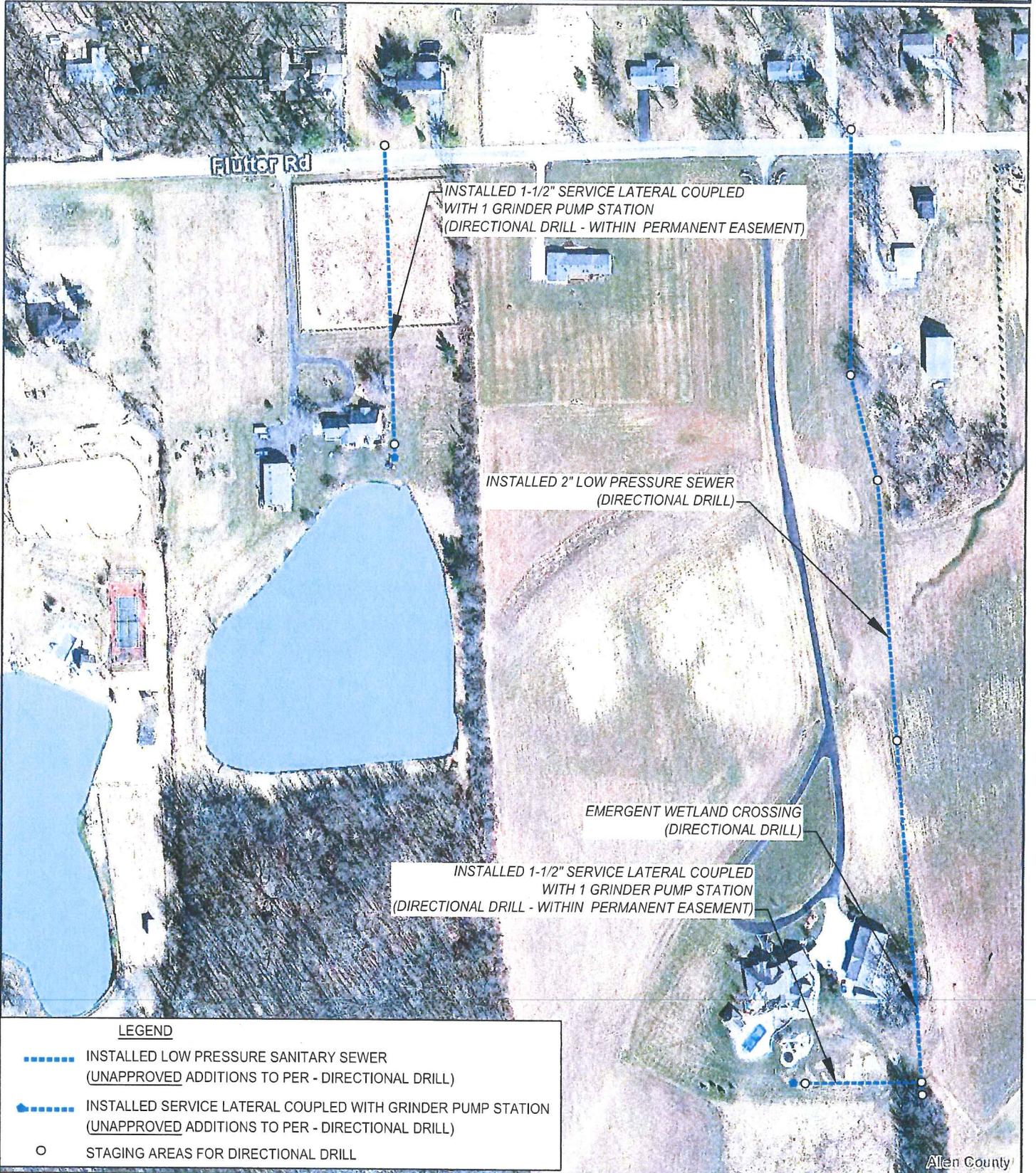
Allen County

LEGEND

- PROPOSED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL



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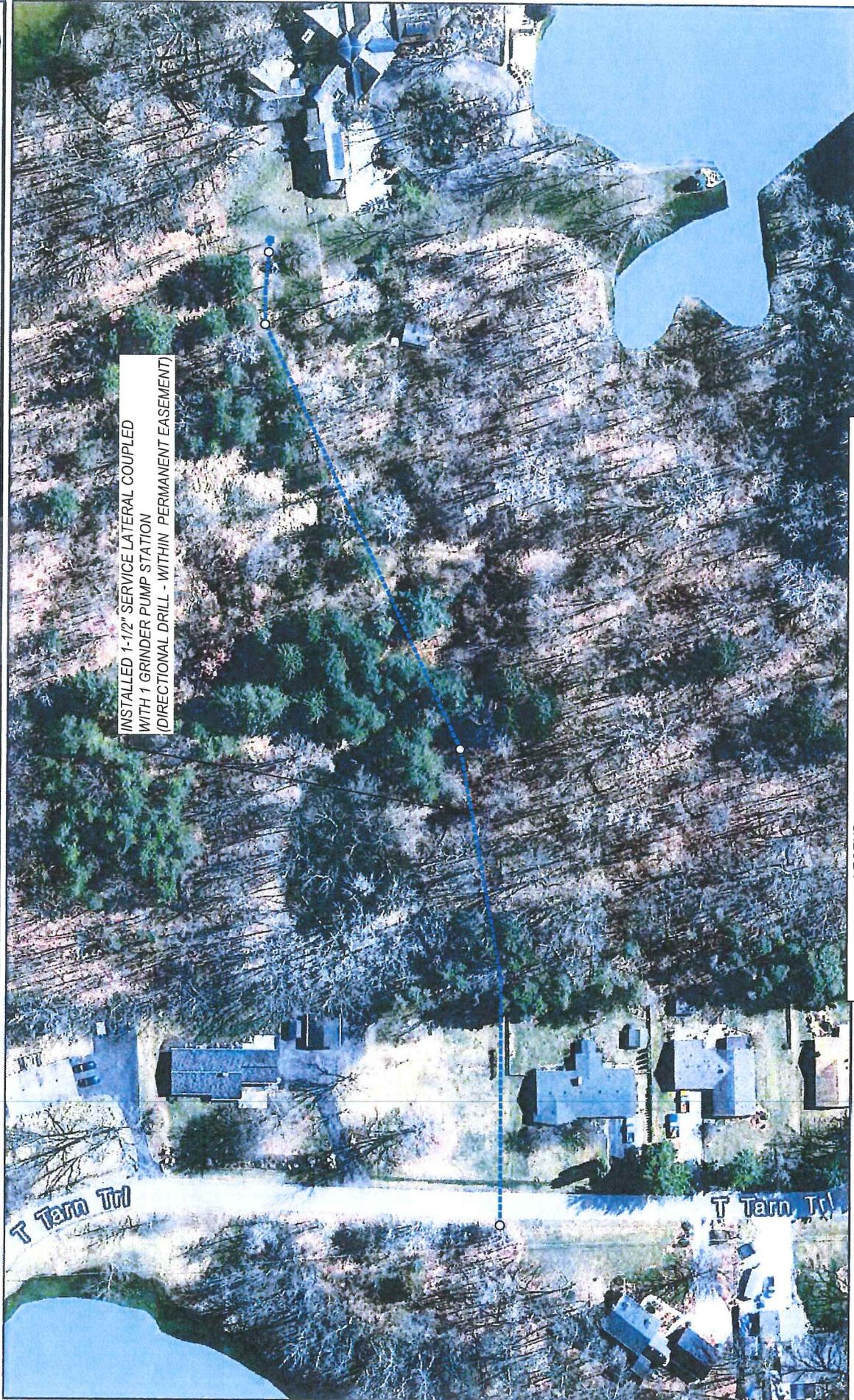


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 Photos and Contours: Spring 2009



Figure 20



INSTALLED 1-1/2" SERVICE LATERAL COUPLED WITH 1 GRINDER PUMP STATION (DIRECTIONAL DRILL - WITHIN PERMANENT EASEMENT)

LEGEND

- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

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Date: 12/4/2013 1" = 100'



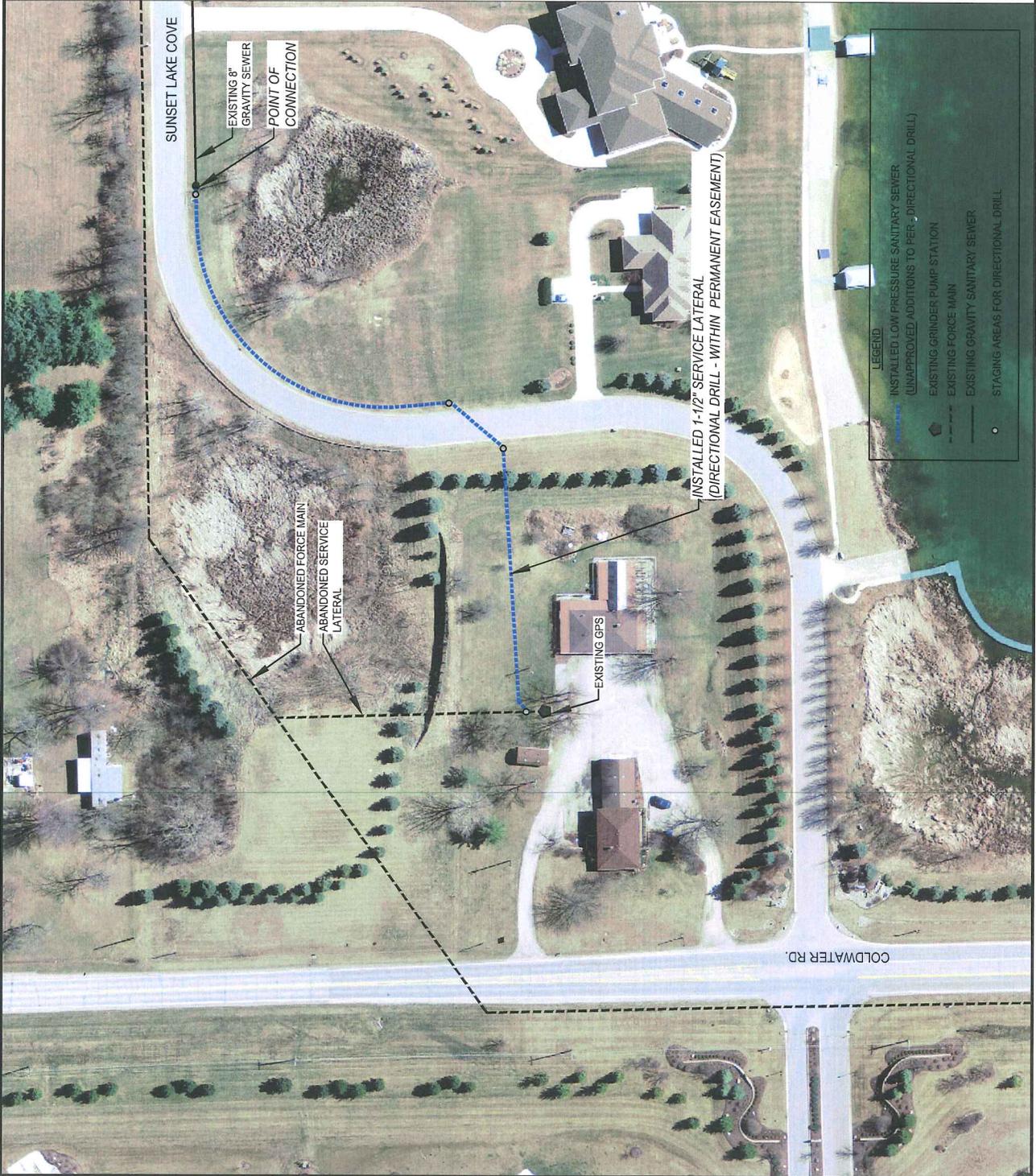
LEGEND

- INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- INSTALLED SERVICE LATERAL COUPLED WITH GRINDER PUMP STATION (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- STAGING AREAS FOR DIRECTIONAL DRILL

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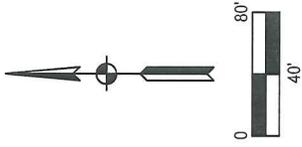
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 Photos and Contours: Spring 2005

Date: 12/2/2013 1" = 83'



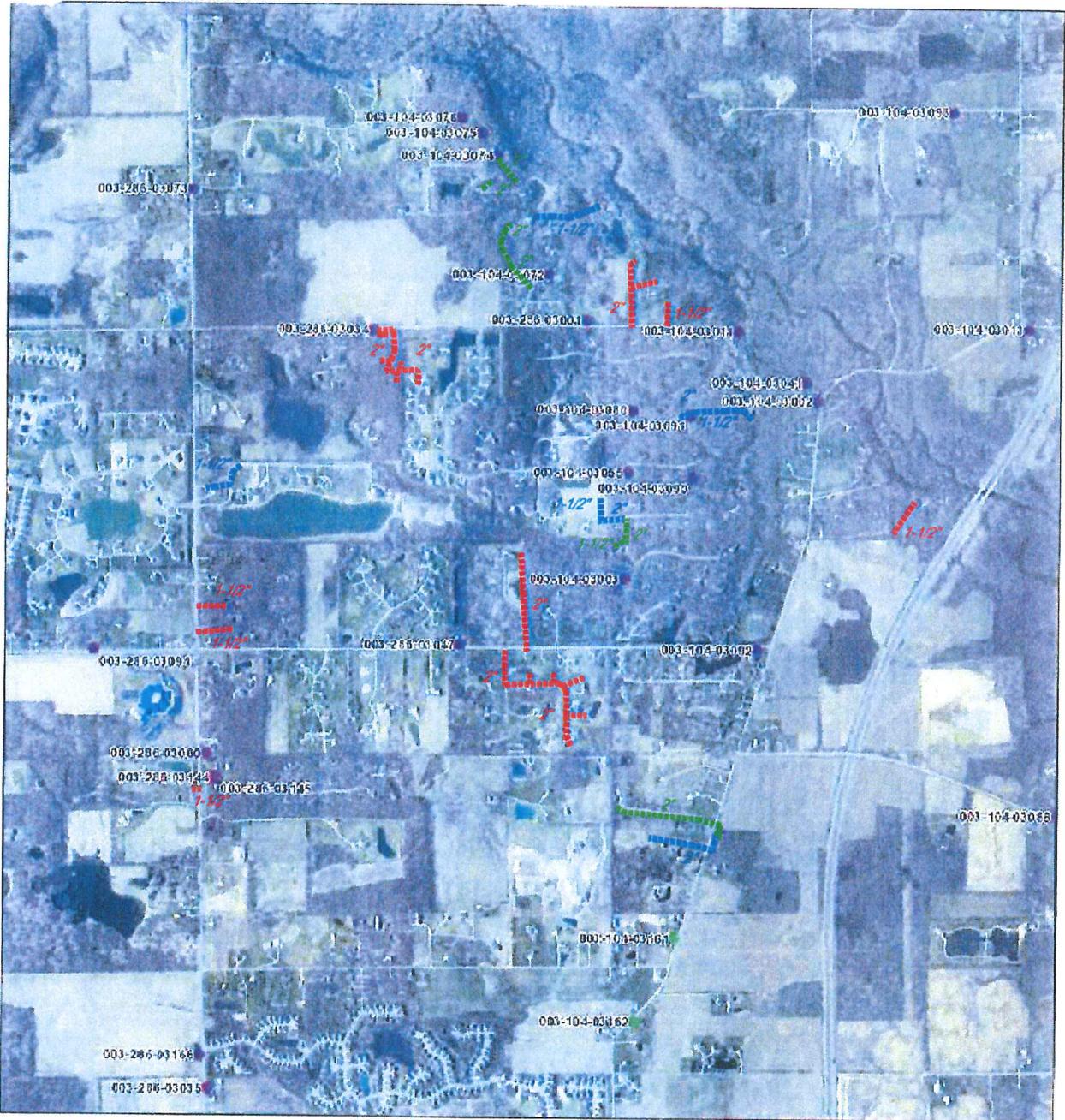
LEGEND

- (Blue dashed line) INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER -DIRECTIONAL DRILL)
- (Black dashed line) EXISTING GRINDER PUMP STATION
- (Black solid line) EXISTING FORCE MAIN
- (Black solid line) EXISTING GRAVITY SANITARY SEWER
- (Black circle) STAGING AREAS FOR DIRECTIONAL DRILL



ACRWS - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS
 FIGURE AD2-1 - GREATER CEDAR CREEK WATERSHED
 SERVICE AREA ADDITIONS - INSTALLED

Greater Cedar Creek Area Historic Sites

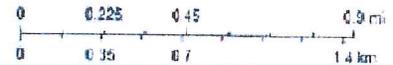


December 9, 2013

REVISED 6/19/14

119,318

- Cemeteries
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Demolished
- Unknown
- Outstanding
- Notable
- Non-Contributing
- Demolished
- Unknown
- Outstanding
- Notable
- National Register Sites
- Historic Districts
- Unknown
- Demolished
- Other Metadata



LEGEND

- INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- INSTALLED LOW PRESSURE SANITARY SEWER (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)



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9034 Collierville Rd, Ste. 201
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(260) 494-3223

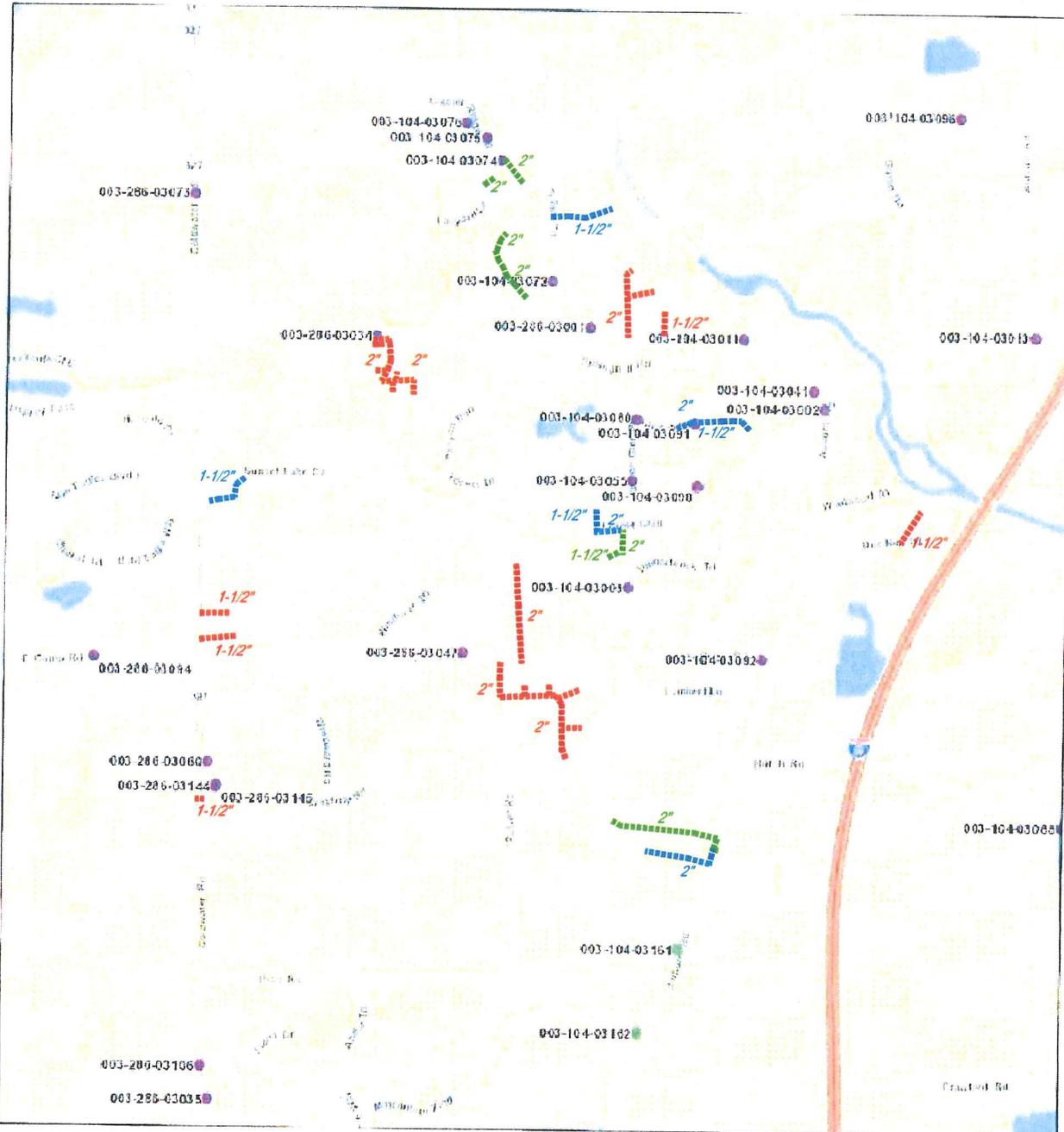
ACRWS - PRELIMINARY ENGINEERING REPORT
SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE

23

FIGURE AD-13 - GREATER CEDAR CREEK WATERSHED
SERVICE AREA ADDITIONS - HISTORICAL #1

Greater Cedar Creek Area Historic Sites

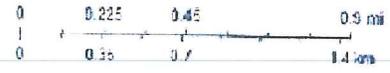


December 9, 2013

REVISED 6/19/14

1:19,318

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



LEGEND

- ▬▬▬▬▬ INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- ▬▬▬▬▬ INSTALLED LOW PRESSURE SANITARY SEWER (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- ▬▬▬▬▬ PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)

Source: Esri, DeLorme, NAVTEC, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), Swisstopo, 2012



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 9004 Colchester Rd, Ste. 203 Fort Wayne, IN 46825 (260) 494-3223

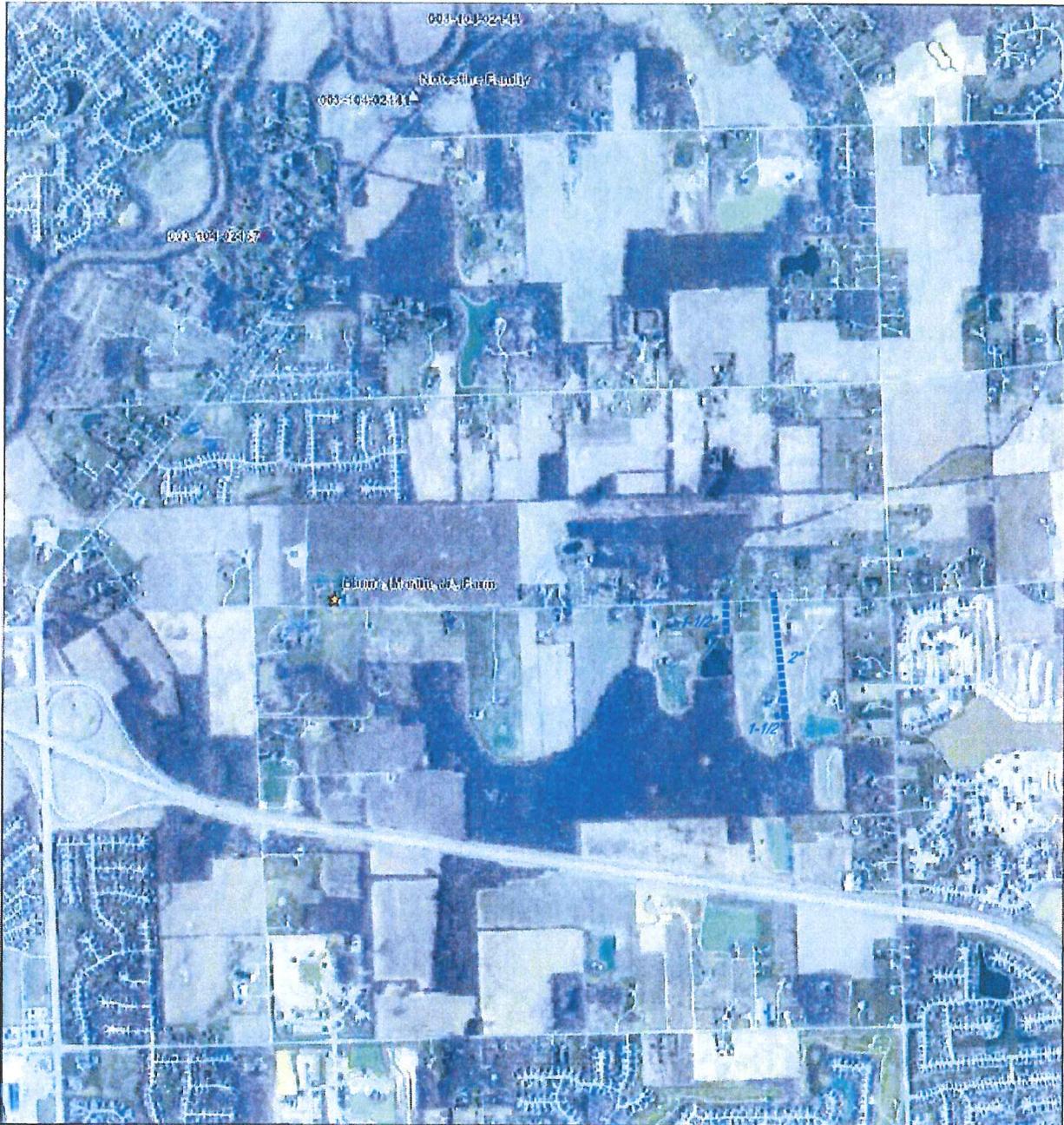
ACRWS - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE AD-14 - GREATER CEDAR CREEK WATERSHED
 SERVICE AREA ADDITIONS - HISTORICAL #2

FIGURE

24

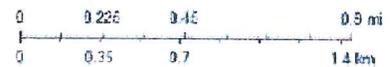
Flutter Wheelock Road Area Historic Sites



December 9, 2013

1:19,318

- ▲ Cemeteries
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Demolished
- Unknown
- ★ National Register Sites
- Non-Contributing
- Historic Districts
- Demolished
- Other Metadata
- Unknown
- Outstanding
- Notable
- Non-Contributing
- Demolished
- Unknown
- Outstanding
- Notable



LEGEND

----- INSTALLED LOW PRESSURE SANITARY SEWER
(UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)



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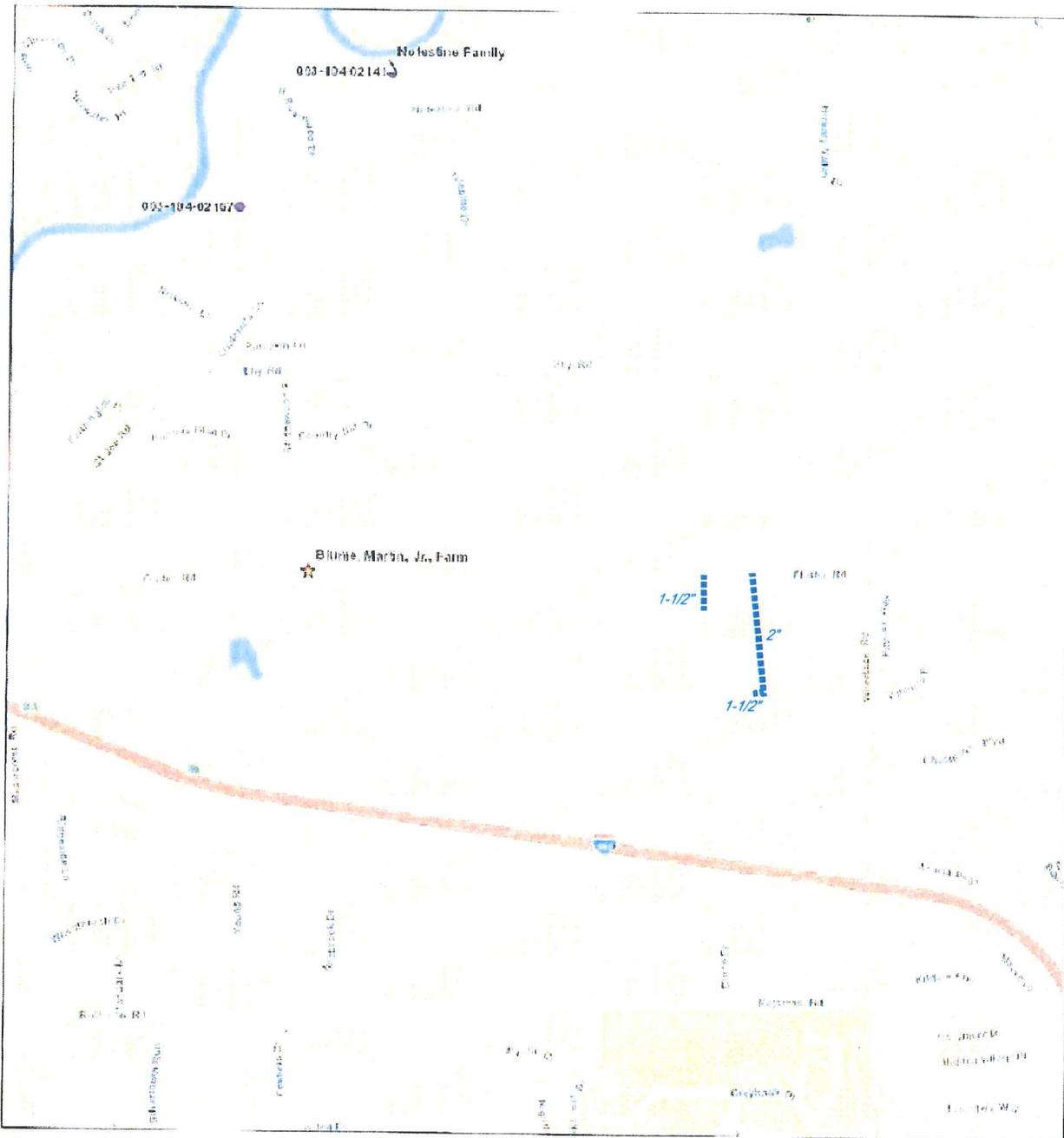
ACRWS - PRELIMINARY ENGINEERING REPORT
SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE AD-15 - FLUTTER - WHEELLOCK ROAD
SERVICE AREA ADDITIONS - INSTALLED - HISTORICAL #1

FIGURE

25

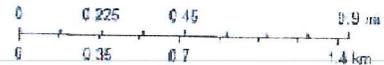
Flutter Wheelock Road Area Historic Sites



December 9, 2013

1:19,318

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



LEGEND

■■■■■ INSTALLED LOW PRESSURE SANITARY SEWER
 (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)

Source: East, DeLoria, NAVTEC, USGS, Intermap, ICG, JAPAN, East Japan, MET, East China (Hong Kong), East Taiwan, Portland 2010



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ACRWS - PRELIMINARY ENGINEERING REPORT
 SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE AD-16 - FLUTTER - WHELOCK ROAD
 SERVICE AREA ADDITIONS - INSTALLED - HISTORICAL #2

FIGURE

26

Wetlands Flutter Wheelock Rd area

Date: 12/10/2013



Legend

- Wetland Lines
- ▨ Wetlands
- Streams (NHD)
- Rivers - Outstanding (NRC)
- INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)

ACRWS - PRELIMINARY ENGINEERING REPORT
SANITARY SEWER SYSTEM IMPROVEMENTS

FIGURE AD-12 - FLUTTER - WHEELLOCK ROAD SERVICE AREA ADDITIONS - INSTALLED - WETLANDS MAP



7256 Company Dr.
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898-1177

181 Plaza East Blvd., Ste. 200
Evansville, IN 47710
18121474.1177

1001 Columbia Rd., Ste. 200
Fort Wayne, IN 46825
2521-494-3223

REVISED 12/13/13

FIGURE

27

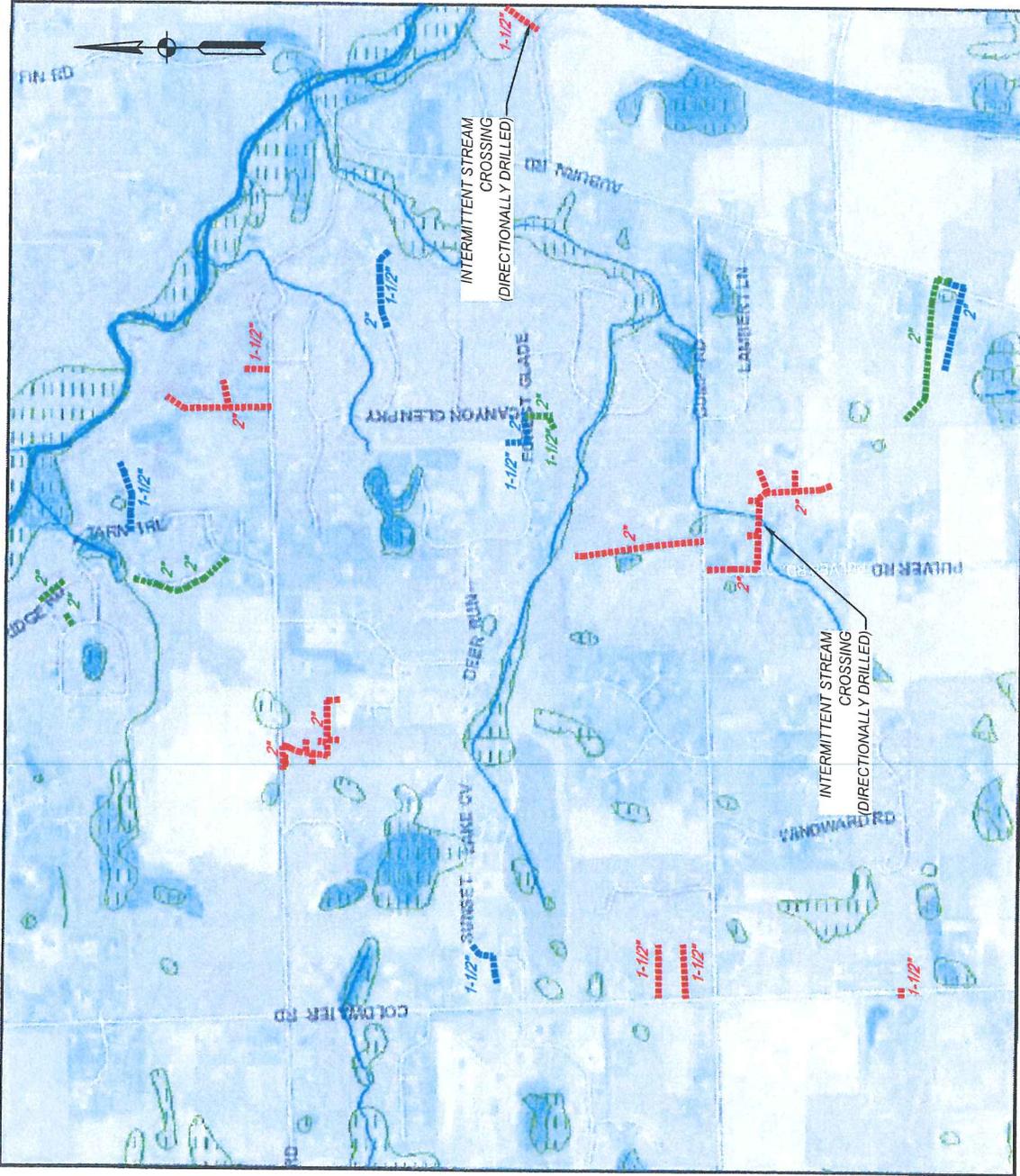
IndianaMAP

0 0.1 mi

Author: SRF

Wetlands Greater Cedar Ck Project Area

Date: 12/10/2013



Legend

- Wetland Lines
- ▨ Wetlands
- Streams (NHD)
- Rivers - Outstanding (NRC)
- Rivers (Local-Resolution NHD, 2)
- Lakes (Local-Resolution NHD, 2)
- INSTALLED LOW PRESSURE SANITARY SEWER (UNAPPROVED ADDITIONS TO PER - DIRECTIONAL DRILL)
- INSTALLED LOW PRESSURE SANITARY SEWER (SIZE/ROUTE CHANGE FROM APPROVED PER - DIRECTIONAL DRILL)
- PROPOSED LOW PRESSURE SANITARY SEWER (DIRECTIONAL DRILL)

Author: SRF



IndianaMAP

REVISED 6/19/14

FIGURE

28





Photograph No. 1. Condition of the forested wetland area along Auburn Road south of Hursh Road on July 2, 2014, with sparse revegetation and inadequate site stabilization.



Photograph No. 2. The forested wetland site along Auburn Road has not been restored to the previous elevations, resulting in fill being placed within the wetland pockets, and trees and shrubs have not been planted between the actual sewer footprint and the forested wetland.

Figure 29

ARTICLE 10. FLOOD PLAIN MANAGEMENT

312 IAC 10-2-42 "Utility line crossing" defined

Authority: IC 14-28-1-5; IC 14-28-3-2

Affected: IC 14-27-7; IC 14-28-1; IC 14-28-3

Sec. 42. "Utility line crossing" means the utility crosses the waterway in a straight line at an angle of between forty-five (45) degrees and one hundred thirty-five (135) degrees from the streambank and does not parallel the waterway for more than fifty (50) feet in the floodway before crossing unless the parallel portion of the line is contained within existing road right-of-way. (*Natural Resources Commission; 312 IAC 10-2-42; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3389, eff Jan 1, 2002*)

Rule 5. General Licenses and Specific Exemptions from Floodway Licensing

312 IAC 10-5-0.3 Determining project eligibility for a general license; general criteria

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-28-1; IC 14-29-1

Sec. 0.3. (a) Except as provided in subsections (b) and (c), a project for a utility line crossing, the removal of logjams and obstructions, or the placement of outfall projects within a floodway is eligible for a general license if the project satisfies the requirements of this rule. For the removal of logjams and obstructions, these requirements include the procedures established by section 0.6 of this rule.

(b) Subsection (a) does not authorize a project in any of the following circumstances:

(1) Within a river or stream listed in the Indiana Register at 16 IR 1677 in the Outstanding Rivers List for Indiana unless prior written approval from the division of water's environmental unit has been obtained.

(2) Within a salmonid stream designated under 327 IAC 2-1.5-5(a)(3).

(3) Within a natural, scenic, or recreational river or stream designated under 312 IAC 7-2.

(4) For a utility line crossing, below the ordinary high watermark of a navigable waterway listed in the Indiana Register at 20 IR 2920 in the Roster of Indiana Waterways Declared Navigable or Nonnavigable unless the utility line is placed beneath the bed of the waterway under section 4(b) of this rule.

(5) Where the project requires an individual permit from the United States Army Corps of Engineers under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act.

(c) Subsection (a) does not authorize the removal of logjams or obstructions within one-half (1/2) mile of any of the following:

(1) A species listed in the Indiana Register at 15 IR 1312 in the Roster of Indiana Animals and Plants Which Are Extirpated, Endangered, Threatened, or Rare.

(2) A known mussel resource.

(3) An outstanding natural area, as contained on the registry of natural areas maintained in the natural heritage data center of the department.

(d) The limitations contained in subsection (b) and subsection (c) [subsections (b) and (c)] do not apply to section 7 of this rule.

(*Natural Resources Commission; 312 IAC 10-5-0.3; filed Aug 2, 2004, 3:18 p.m.: 27 IR 3875*)

312 IAC 10-5-2 General licensing for utility line crossings

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-27-7; IC 14-28-1; IC 14-29-1

Sec. 2. Except as provided in sections 3 and 4 of this rule, a license is required under IC 14-28-1, IC 14-29-1, and 312 IAC 10-4 to place a utility line in or on a floodway where:

(1) the drainage area of a river or stream is at least one (1) square mile at the downstream end of the line's floodway segment; or

(2) a dam or levee regulated under IC 14-27-7 is affected.

(*Natural Resources Commission; 312 IAC 10-5-2; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3394, eff Jan 1, 2002*)

312 IAC 10-5-3 Aerial electric, telephone, or cable television lines; general license

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-28-1; IC 14-29-1; IC 14-29-6

Sec. 3. The placement of an aerial electric, telephone, or cable television line is authorized without a written license issued by the department under IC 14-28-1, IC 14-29-1, and 312 IAC 10-4 if:

(1) the activity does not disturb the bed of the waterway beneath the line;

(2) the activity conforms with the minimum clearance requirements of section 4(b)(9) of this rule;

(3) the support mechanisms are located at least seventy-five (75) feet from the top of the bank; and

(4) the utility line crossing is not within the floodway of a natural river, scenic river, or recreational river designated under 312 IAC 7-2.

(*Natural Resources Commission; 312 IAC 10-5-3; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3394, eff Jan 1, 2002; filed Aug 2, 2004, 3:18 p.m.: 27 IR 3876*)

312 IAC 10-5-4 Qualified utility line crossings; general license

Authority: IC 14-10-2-4

Affected: IC 13-11-2-260; IC 14-27-7; IC 14-28-1-29; IC 14-33; IC 36-9-27

Sec. 4. (a) This section establishes a general license for the placement of a qualified utility line crossing in a floodway.

(b) A person who wishes to implement a project for the placement of a qualified utility line crossing on a river or stream, other than on a river or stream identified in section 0.3(b) or 0.3(c) of this rule, may do so without notice to the department if the project conforms to the following conditions:

- (1) Tree removal and brush clearing shall be contained and minimized within the utility line crossing area. No more than one (1) acre of trees shall be removed within the floodway.
- (2) Construction activities within the waterway from April 1 through June 30 shall not exceed a total of two (2) calendar days.
- (3) Best management practices shall be used during and after construction to minimize erosion and sedimentation.
- (4) Following the completion of construction, disturbed areas shall be reclaimed and revegetated. Disturbed areas shall be mulched with straw, wood fiber, biodegradable erosion blanket, or other suitable material. To prevent erosion until revegetated species are established, loose mulch shall be anchored by crimping, tackifiers, or netting. To the extent practicable, revegetation must restore species native to the site. If revegetation with native species is not practicable, revegetation shall be performed by the planting of a mixture of red clover, orchard grass, timothy, perennial rye grass, or another species that is approved by the department as being suitable to site and climate conditions. In no case shall tall fescue be used to revegetate disturbed areas.
- (5) Disturbed areas with slopes of three to one (3:1) or steeper, or areas where run-off is conveyed through a channel or swale, shall be stabilized with erosion control blankets or suitable structural armament.
- (6) No pesticide will be used on the banks.
- (7) If a utility line transports a substance that may cause water pollution as defined in IC 13-11-2-260, the utility line will be equipped with an emergency closure system.
- (8) If a utility line is placed beneath the bed of a river or stream, the following conditions are met:
 - (A) Cover of at least three (3) feet measured perpendicularly to the utility line is provided between the utility line and the banks.
 - (B) If the placement of a utility line is not subject to regulation under IC 14-28-1-29, IC 14-33, or IC 36-9-27, cover is provided as follows:
 - (i) At least three (3) feet, measured perpendicularly to the utility line, between the lowest point of the bed and the top of the utility line or its encasement, whichever is higher, if the bed is composed of unconsolidated materials.
 - (ii) At least one (1) foot, measured perpendicularly to the line, between the lowest point of the bed and the top of the utility line or its encasement, whichever is higher, if the bed is composed of consolidated materials.
 - (C) If the placement of the utility line is subject to regulation under IC 14-28-1-29, IC 14-33, or IC 36-9-27, cover is provided as follows:
 - (i) At least three (3) feet, measured perpendicularly to the utility line, between the design bed and the top of the line or its encasement, whichever is higher, if the bed is composed of unconsolidated materials.
 - (ii) At least one (1) foot, measured perpendicularly to the line, between the design bed and the top of the line or its encasement, whichever is higher, if the bed is composed of consolidated materials.
 - (D) Negative buoyancy compensation is provided where the utility line has a nominal diameter of at least eight (8) inches and transports a substance having a specific gravity of less than one (1).
- (9) If a utility line is placed above the bed of a river or stream, the following conditions are met:
 - (A) Except as provided in clauses (B) and (C), minimum clearance is provided from the lowest point of the utility line (determined at the temperature, load, wind, length of span, and type of supports that produce the greatest sag) calculated as the higher of the following:
 - (i) Twelve and one-half (12½) feet above the ordinary high watermark.
 - (ii) Three (3) feet above the regulatory flood elevation.
 - (B) If the river or stream is a navigable waterway that is subject to IC 14-28-1, the utility line that crosses over the waterway must be placed to provide the greater of the following:
 - (i) The minimum clearance required under clause (A).
 - (ii) The minimum clearance required for the largest watercraft that is capable of using the waterway. The utility must consult in advance with the department to determine the minimum clearance for watercraft at the crossing.
 - (C) If a utility line is attached to or contained in the embankment of an existing bridge or culvert, no portion of the utility line or its support mechanism may project below the low structure elevation or otherwise reduce the effective waterway area.
- (10) A utility line placed in a dam or levee regulated under IC 14-27-7 does not qualify for a general license under this subsection.

(c) A person who elects to act under this section must comply with the general conditions under subsection (b). Failure to comply with these terms and conditions may result in the revocation of the general license, a civil penalty, a commission charge, and any other sanction provided by law for the violation of a license issued under IC 14-28-1 and, if the waterway is navigable, the violation of a license issued under IC 14-29-1. (*Natural Resources Commission; 312 IAC 10-5-4; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3394, eff Jan 1, 2002; filed Dec 26, 2001, 2:42 p.m.: 25 IR 1545; errata filed Mar 13, 2002, 11:51 a.m.: 25 IR 2521; filed Aug 2, 2004, 3:18 p.m.: 27 IR 3876*)