

JUG STREET-KIRK 138 KV CIRCUIT PROJECT

SOCIOECONOMIC, LAND USE, AND AGRICULTURAL DISTRICT REVIEW REPORT

Prepared for:

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Prepared by:

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Project #: 14950749

July 2012

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1.0 PROJECT DESCRIPTION

This document presents the socioeconomic, land use, and agricultural district review conducted by URS Corporation (URS) for American Electric Power (AEP) for the proposed Jug Street-Kirk 138 kV Circuit Project (Project). AEP intends to rebuild 12.3 miles of existing transmission line to accommodate a new Jug Street-Kirk 138 kV circuit through Licking County, Ohio, as shown in Figure 1.

AEP has stated the rebuild for the transmission line will involve approximately structure for structure replacement from existing, predominantly H-frame structures to new steel poles with concrete foundations on the existing centerline. Construction will occur within existing right-of-way.

As part of the Ohio Power Siting Board (OPSB) Letter of Notification (LON) requirements, AEP is required to assess and report the socioeconomic, land use, and agricultural district characteristics potentially affected by the Project, as stated in Ohio Administrative Code (OAC) Rule 4906-11-01(D)(1) and (2). These rules state:

(D) Socioeconomic data. Describe the social and ecological impacts of the project. This description shall contain the following information:

- (1) A brief, general description of land use within the vicinity of the proposed project, including: (a) a list of municipalities, townships, and counties affected; and (b) estimates of population density adjacent to rights-of-way within the study corridor (the U.S. census information may be used to meet this requirement).*
- (2) The location and general description of all agricultural land (including agricultural district land) existing at least sixty days prior to submission of the letter of notification within the proposed electric power transmission line right-of-way, or within the proposed electric power transmission substation fenced-in area, or within the construction site boundary of a proposed compressor station.*

AEP retained URS to conduct a desktop review of socioeconomic, land use, and agricultural district land characteristics. A study corridor was established on 1,000 feet on each side of the proposed rebuild sections of the Project, resulting in a 2,000-foot wide study corridor. In conjunction with ecological field surveys for the Project, URS also noted land uses crossed by the proposed rebuild sections of the Project. This report will be used to assist AEP's efforts to avoid or minimize impacts to socioeconomic characteristics and land uses potentially present in the study area during construction activities.

2.0 GENERAL LAND USE DESCRIPTION

Land use within 1,000 feet of the proposed rebuild sections of the Jug Street-Kirk 138 kV circuit is shown on Figures 2A to 5B. Current land use characteristics were obtained through review of United States Farm Service Agency National Agricultural Imagery Program digital aerial photography taken in 2011, the United States Geological Survey (USGS) 7.5-minute topographic maps of Pataskala, Ohio (1985), Jersey, Ohio (1975), and New Albany, Ohio (1983), county road maps, and a site reconnaissance conducted from July 9 through July 12, 2012.

The primary land use within the 2,000-foot wide study corridor of the other rebuild sections is agriculture with scattered residences and wood lots where the surrounding area is more rural. Transportation, utility, and stream corridors are also present. The Project crosses portions of Jersey, St. Albans, and Harrison townships in Licking County. Approximately 441 homes were identified within the study corridor, with approximately 380 of these homes in the township of Harrison portion of the Project. The remaining approximately 60 residences are scattered along the Jersey and St. Albans township sections. Residential land accounts for 11 percent of the area of the study corridor. Commercial land uses appear to be limited to the substations located at the ends of the Jug Street-Kirk 138 kV circuit. Two institutions were identified within the 2,000-foot wide corridor. No recreational or industrial areas were identified within the 2,000-foot study corridor.

General land use trends in Licking County indicate that there is an ongoing conversion of farmland to residential and commercial districts as the City of Columbus expands. While some additional residences are expected in the vicinity of the Project, the rural nature and relative distance from urban areas, and the percentage of agricultural district land suggests minimal growth. The *St. Albans Township Future Land Use Map* featured in the township's 1995 comprehensive plan shows the Project area as "Future Business Development" and "Mixed Use." The future land use maps within the 1993 comprehensive plan for Harrison Township shows the Project Area within General Residential and General Commercial Areas. The 1993 comprehensive plan for Jersey Township shows the Project area as Rural Residential land. These maps are included in Appendix A. While the overall comprehensive plan of Licking County suggests broad conversion of land use from agricultural to residential and commercial/industrial, the areas in the vicinity of the Project appear likely to retain their rural nature.

3.0 POPULATION DENSITY ESTIMATE

Population density estimates for land within the 2,000-foot wide study corridor were calculated by direct estimation based on study corridor size, number of residences identified in the corridor, and the average number of persons per household in Licking County. Approximately 441 homes were identified along the 12.3-mile Jug Street-Kirk 138kV line within the 3,042-acre study corridor, which is entirely within Licking County. According to the 2010 U.S. Census, the average household in Licking County has 2.6 persons for a total estimated population along the route of approximately 1,150. This equates to a population density of 0.38 person per acre. This is consistent with the persons per acre average for all of Licking County. Table 1 outlines population statistics for the Project study corridor.

**TABLE 1
STUDY AREA CENSUS POPULATION ESTIMATES**

Government Unit	Percent of 2,000-foot Corridor	2000 Census	2010 Census
Licking County	100	145,491	166,492
Harrison Township	32.1	6,494	7,561
Jersey Township	49.5	2,841	2,740
St Albans Township	18.4	2,060	2,446

Source: U.S. Census Bureau, Census 2000 Summary File 1; U.S. Census Bureau, 2010 Census.

The above estimates are limited by available statistics and generalizations across the county. No planned residential developments within the study corridor were discovered as part of this study. It is not expected that the Project will significantly impact existing or planned land use within the vicinity of the Project, as existing transmission lines are present along the length of the Project and construction impacts will be temporary in nature.

4.0 AGRICULTURAL DISTRICT LAND

Parcels registered in the Agricultural District Land program were obtained from the Licking County Auditor's office on July 5th, 2012. The Agricultural District parcels within the 2,000-foot study corridor are shown on Figures 2A through 5B. All of the Agricultural District parcels are located along the rural portions of the Project in Licking County. A total of approximately 1,098 acres (36 percent of the study corridor) were identified as Agricultural District Land. The parcel numbers and the approximate total acres within the study corridor are listed in Table 2 below.

**TABLE 2
AGRICULTURAL DISTRICT LAND PARCELS**

Parcel Number	Acres within 2,000-foot Study Corridor
<i>Licking County</i>	
025-068946-00.000	41
025-068544-00.000	18
025-067818-00.000	25
025-069156-00.000	41
025-069132-00.000	42
025-069114-00.000	9
025-067812-00.000	42
025-067800-00.000	45
066-317400-00.000	25
066-317592-00.000	49
066-318168-00.000	68
066-317592-00.000	14
066-317934-00.000	56
068-324114-00.000	60
066-317418-00.000	21
066-317418-00.000	42
066-317394-00.000	70
082-107352-02.000	1
082-107280-00.000	23
082-107388-00.000	1
082-107196-00.000	53
082-107196-00.000	5
082-106482-00.000	53

TABLE 2
AGRICULTURAL DISTRICT LAND PARCELS

Parcel Number	Acres within 2,000-foot Study Corridor
082-106722-00.000	10
082-106722-00.008	6
082-106722-00.007	5
082-106722-00.003	13
082-106596-00.001	58
082-107286-00.000	29
082-107280-00.000	15
082-107430-00.002	17
082-107430-00.001	5
082-107352-00.000	72
082-106548-00.000	38
025-068850-00.000	24

Sources: Licking County Auditor, July 5, 2012

The entirety of the Agricultural District Land in the study corridor is located in areas where existing centerline will be utilized. The agricultural fields in the Agricultural District will be temporarily impacted during the replacement of the pole structures and the restringing of the overhead cable. Efforts will be made during reconstruction to minimize the extent of disturbance. AEP will compensate property owners for any monetary losses due to the Project through the ROW settlement process. AEP has and will continue to work with each owner to avoid or minimize damages to property. Periodic line inspection and/or brush trimming and clearing activities will require access to the right-of-way. Maintenance activities are not expected to affect permanent land use.

The replacement, operation, and maintenance of the transmission line are not expected to affect the viability of the agricultural district land and other agricultural land within the study area. The corridor is currently existing electric transmission lines and therefore rebuilding of the line is not expected to permanently disrupt agricultural practices. Upon completion of the Project, agricultural practices in the region are expected to return to their current state.

5.0 CONCLUSION

The Project is not expected to significantly impact current socioeconomic characteristics, land use and agricultural district land in the vicinity of the project as electric transmission lines currently exist for all of the Project length. While temporary construction and restringing efforts will cause changes to the short-term condition of the existing transmission line right-of-way corridors, particularly from an agricultural perspective, these impacts will be temporary in nature and localized to pole locations and access roads. The Project is not expected to impact future land use plans for the area.

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LEGEND:

— Proposed Jug Street-Kirk 138 kV Circuit



Overview Map

BASE MAP SOURCE:
ArcGIS Map Service, World_Street_Map
<http://services.arcgisonline.com/arcgis/services>

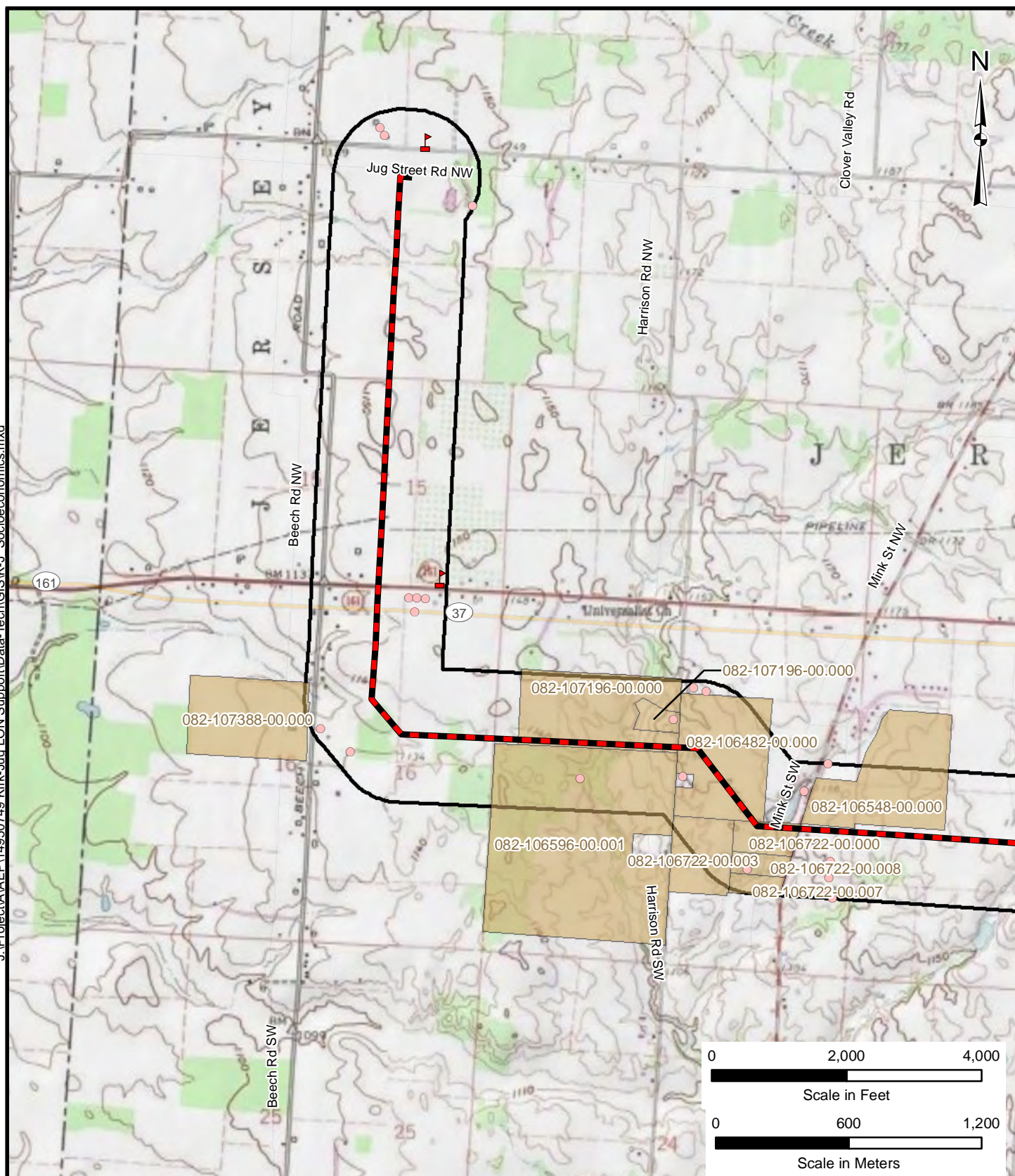


Jug Street-Kirk
138 kV Circuit

FIGURE 1
PROJECT OVERVIEW

JOB NO. 14950749



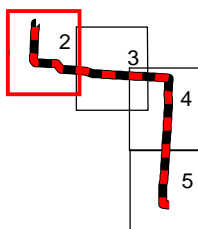


LEGEND:

- Route
- ▲ School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:
ArcGIS Map Service, NGS_Topo_US_2D
<http://services.arcgisonline.com/v92>

Figure Key

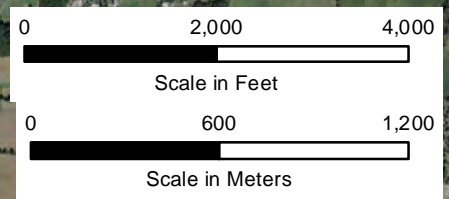
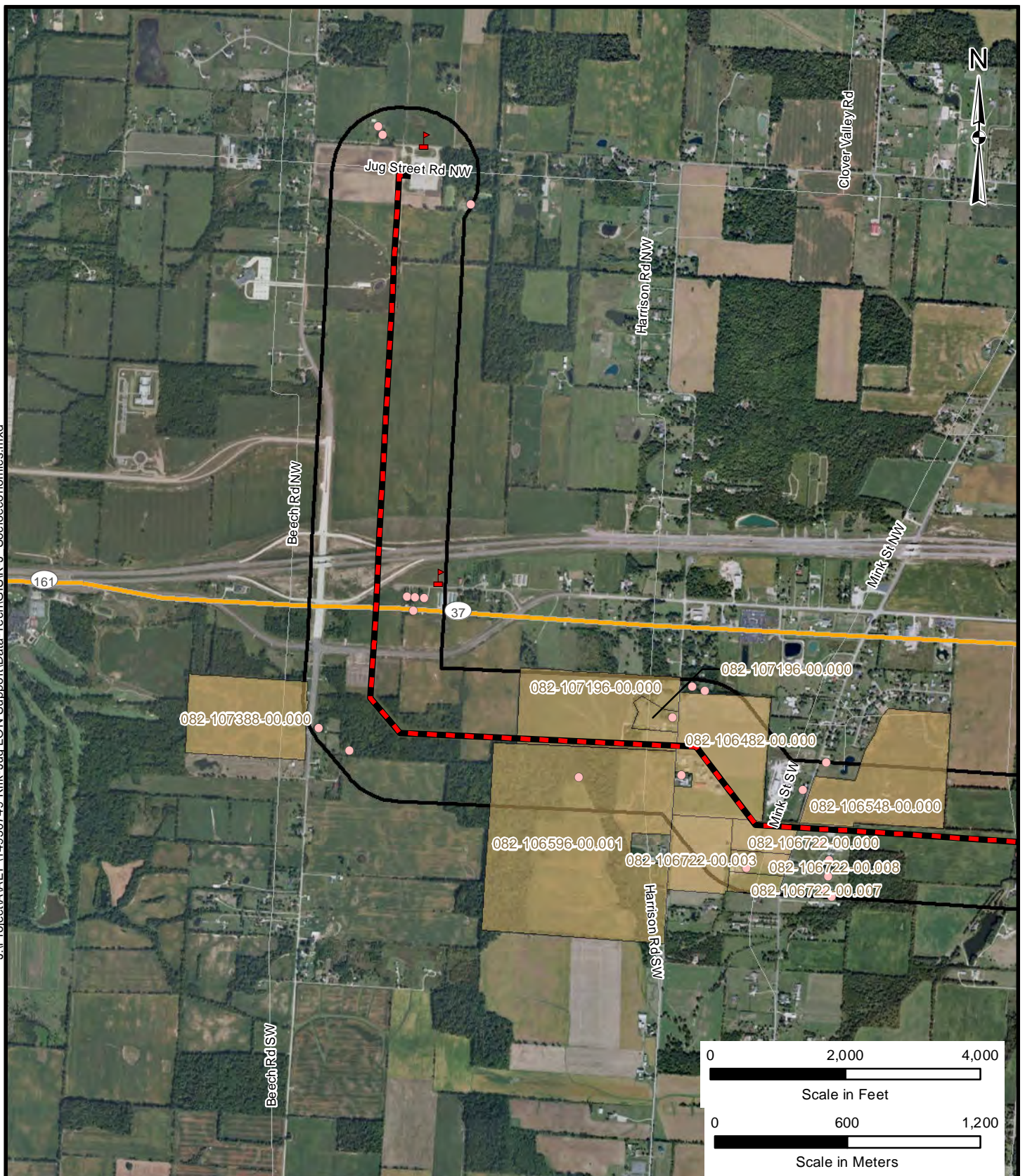


Jug Street to Kirk
138 kV Circuit

FIGURE 2A LAND USE MAP TOPOGRAPHIC QUADRANGLE

JOB NO. 14950749



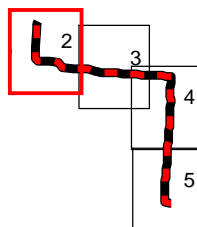


LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

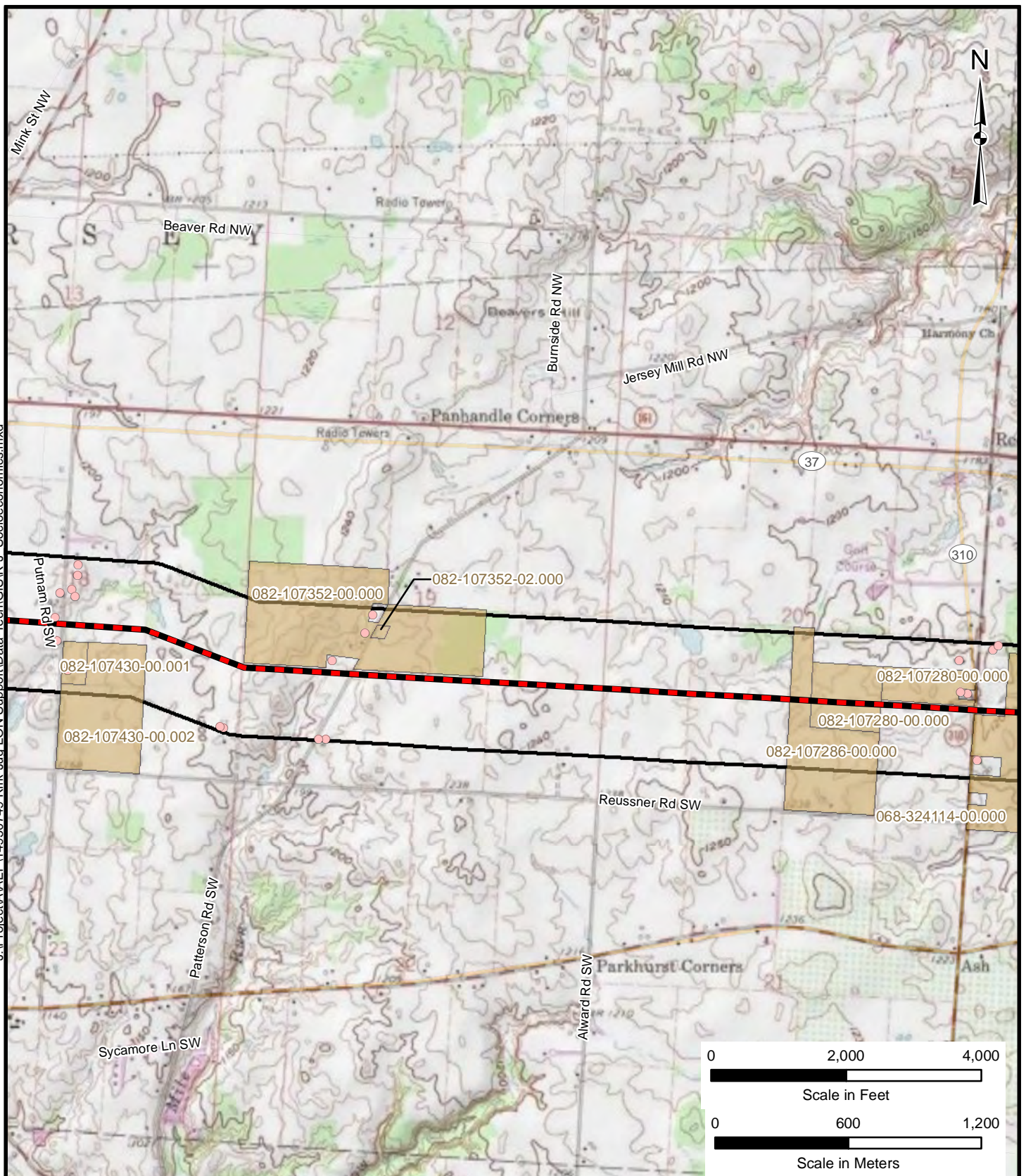
BASE MAP SOURCE:
Aerials Express, Comlulus 2009

Figure Key



*Jug Street to Kirk
138 kV Circuit*

**FIGURE 2B
LAND USE MAP
AERIAL PHOTOGRAPHY**

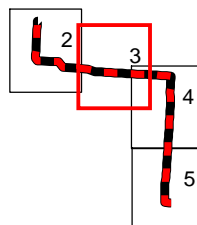


LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:
ArcGIS Map Service, NGS_Topo_US_2D
<http://services.arcgisonline.com/v92>

Figure Key



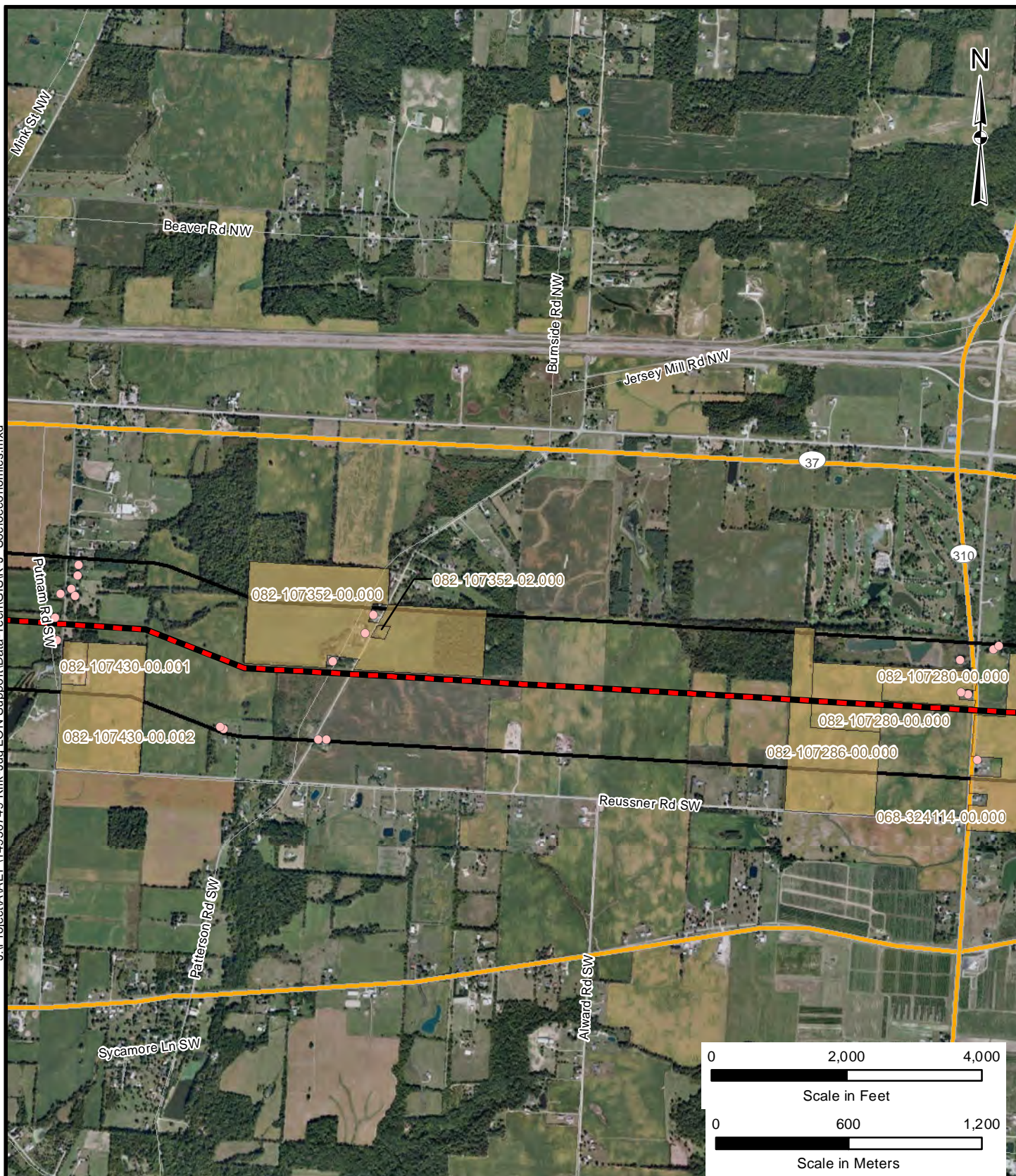
*Jug Street to Kirk
138 kV Circuit*

**FIGURE 3A
LAND USE MAP
TOPOGRAPHIC QUADRANGLE**

JOB NO. 14950749



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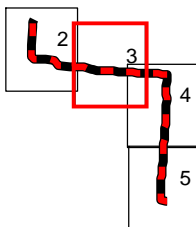


LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:
Aerials Express, Comlulus 2009

Figure Key

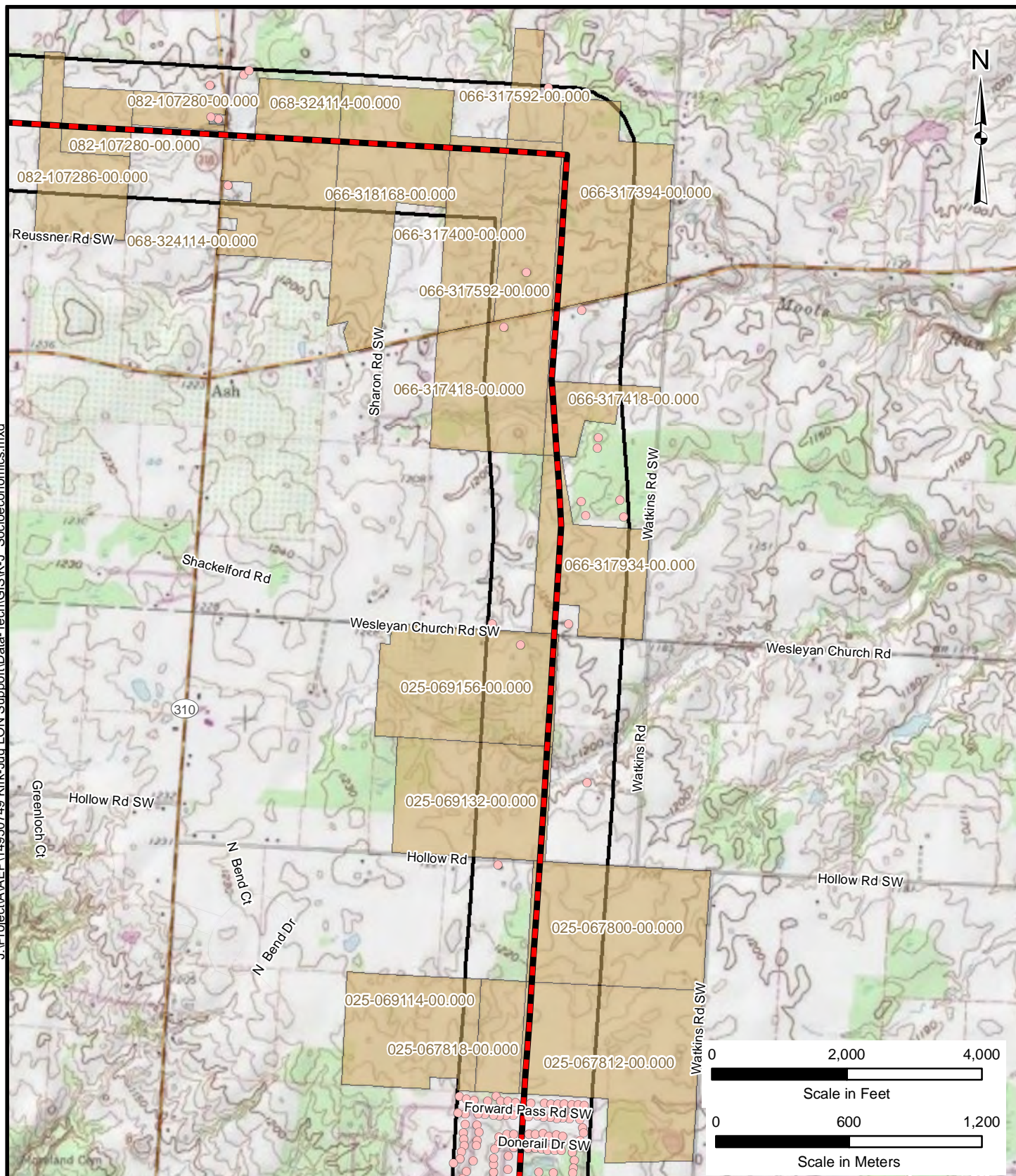


Jug Street to Kirk
138 kV Circuit

FIGURE 3B
LAND USE MAP
AERIAL PHOTOGRAPHY

JOB NO. 14950749





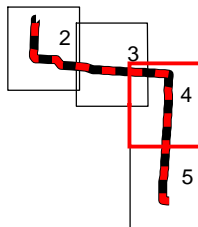
LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:

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<http://services.arcgisonline.com/v92>

Figure Key

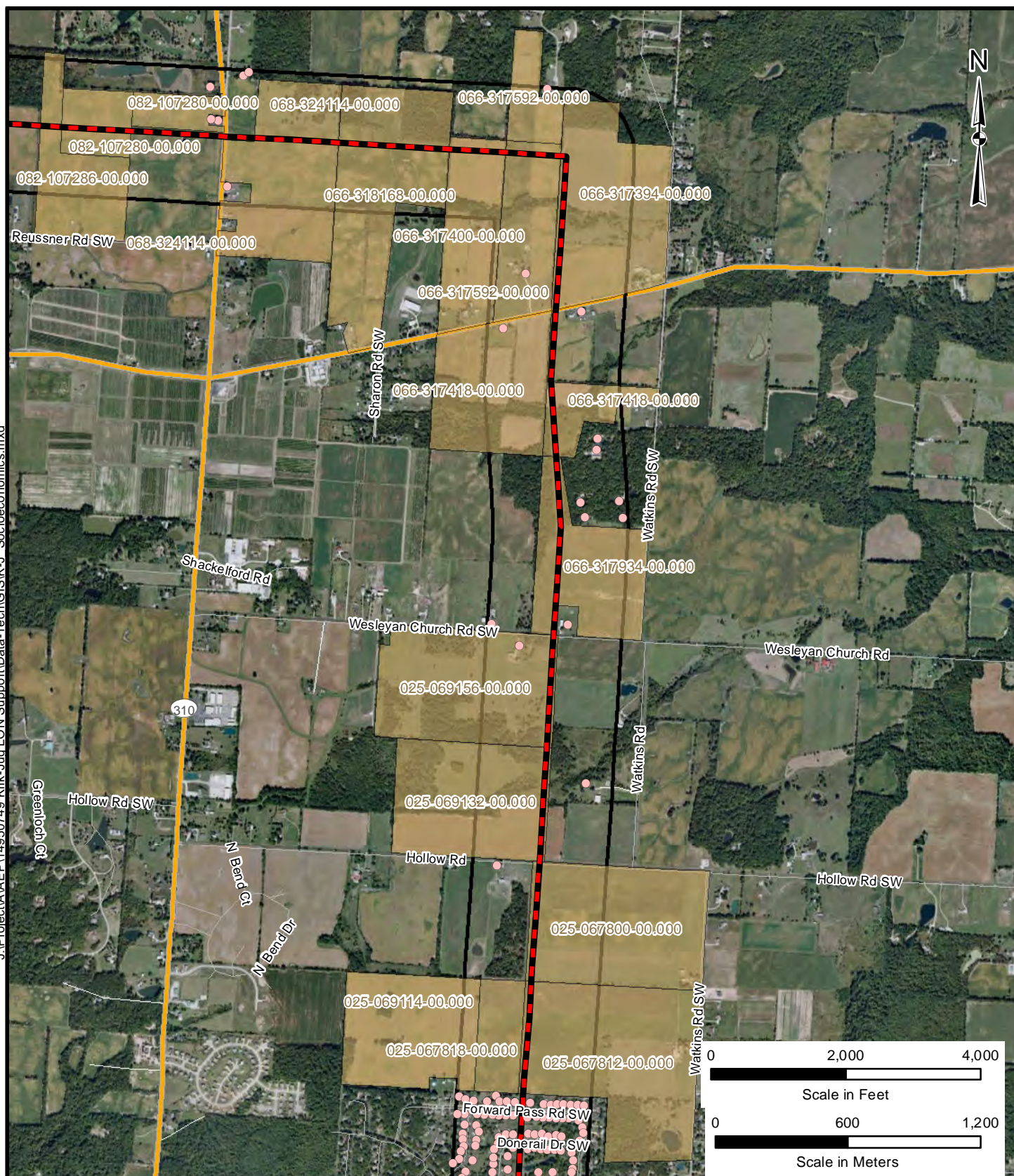


Jug Street to Kirk
 138 kV Circuit

FIGURE 4A LAND USE MAP TOPOGRAPHIC QUADRANGLE

JOB NO. 14950749



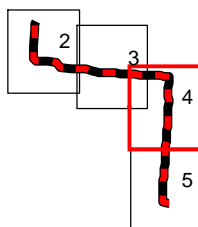


LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:
Aerials Express, Comlulus 2009

Figure Key



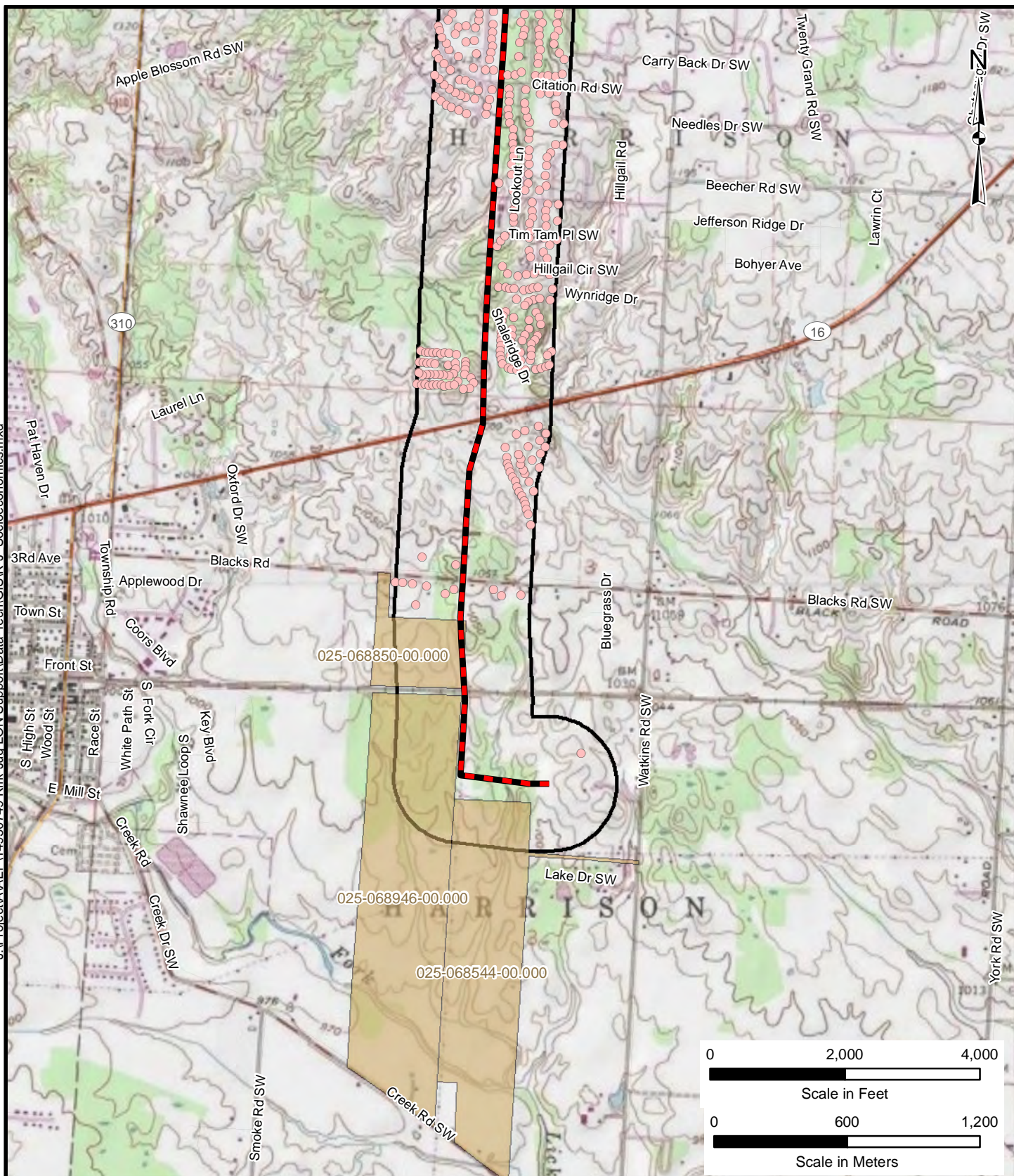
Jug Street to Kirk
138 kV Circuit

FIGURE 4B
LAND USE MAP
AERIAL PHOTOGRAPHY

JOB NO. 14950749



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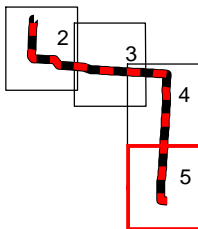
LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:

ArcGIS Map Service, NGS_Topo_US_2D
<http://services.arcgisonline.com/v92>

Figure Key



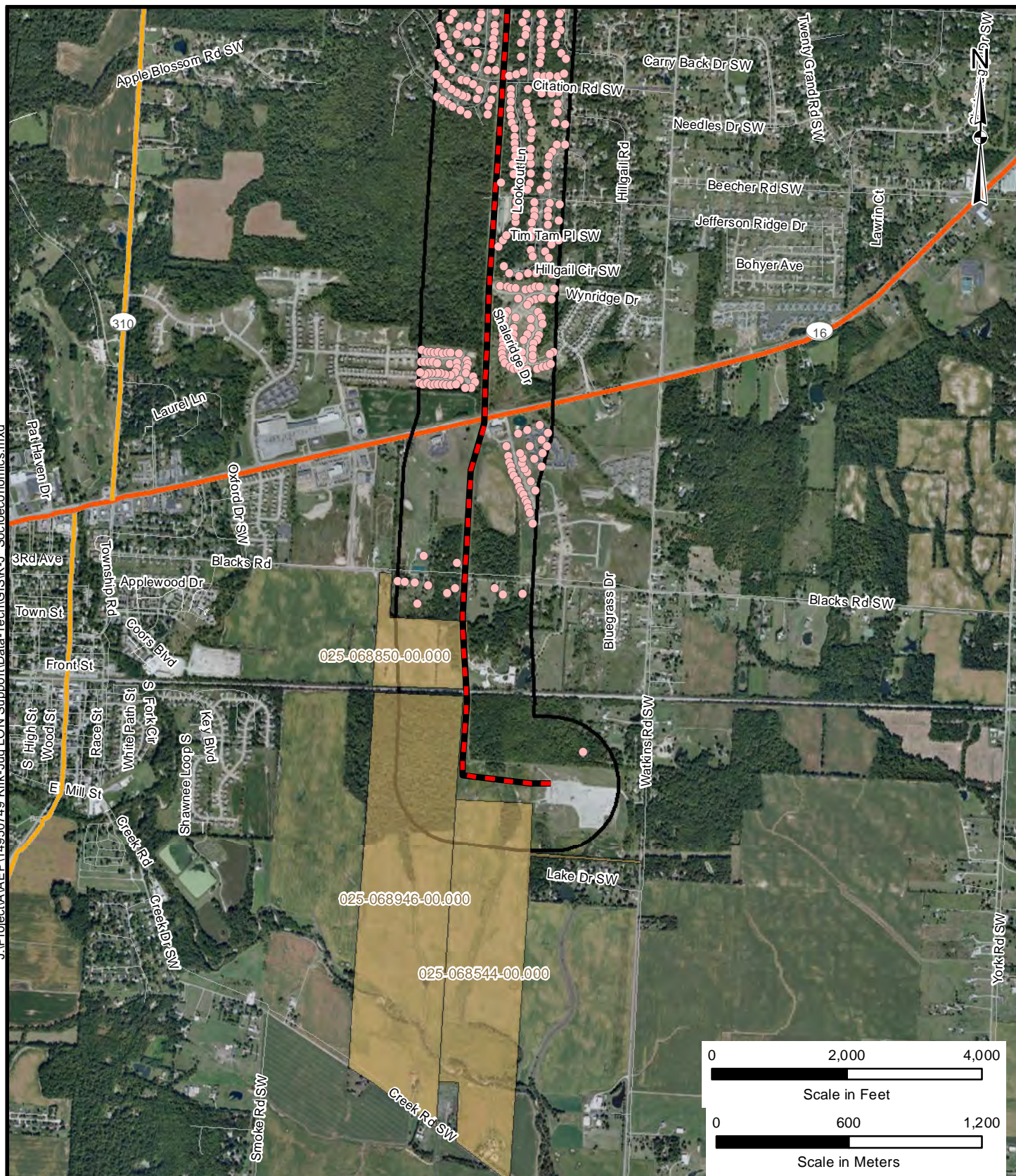
Jug Street to Kirk
138 kV Circuit

FIGURE 5A
LAND USE MAP
TOPOGRAPHIC QUADRANGLE

JOB NO. 14950749



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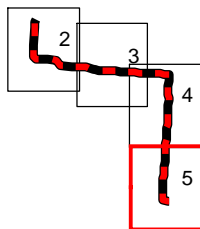


LEGEND:

- Route
- School
- Residence
- Agricultural District Parcel
- 2,000-foot Study Corridor

BASE MAP SOURCE:
Aerials Express, Comlulus 2009

Figure Key



Jug Street to Kirk
138 kV Circuit

FIGURE 5B
LAND USE MAP
AERIAL PHOTOGRAPHY

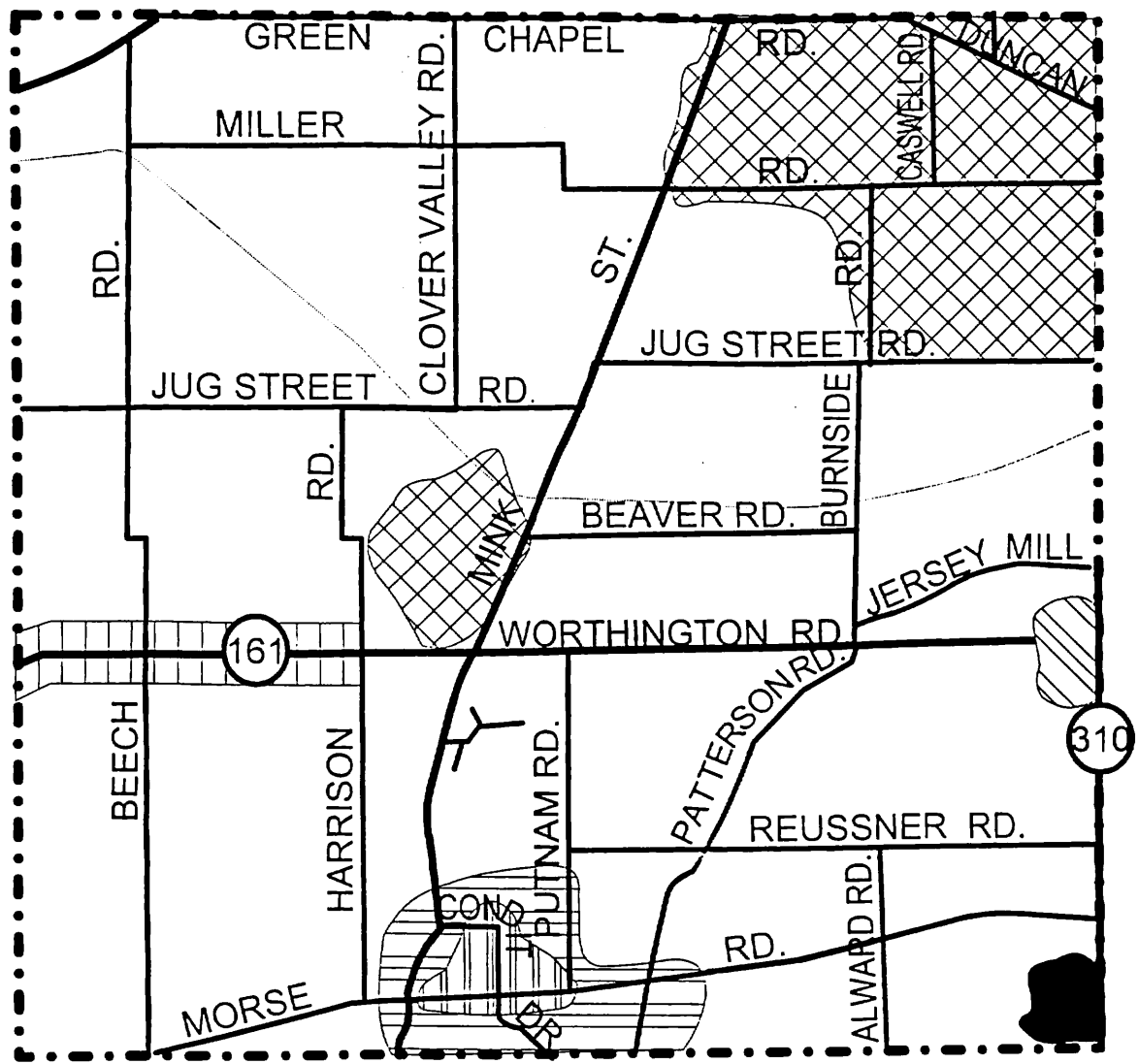
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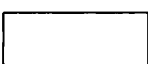
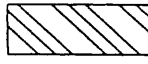

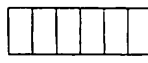
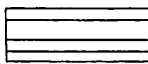


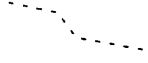


APPENDIX A

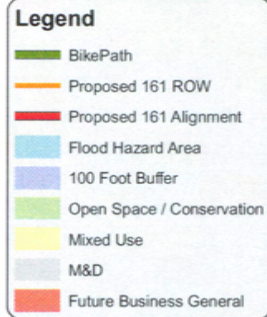
COMPREHENSIVE PLAN MAPS

MAP 13: PROPOSED FUTURE LAND USE MAP-JERSEY TOWNSHIP



- | | | | |
|--|---------------------------|--|---------------------|
|  | RURAL RESIDENTIAL |  | GENERAL COMMERCIAL |
|  | CONSERVATION / OPEN SPACE |  | GENERAL BUSINESS |
|  | VILLAGE RESIDENTIAL |  | LIGHT MANUFACTURING |
|  | VILLAGE MIXED-USE |  | POWER LINE |

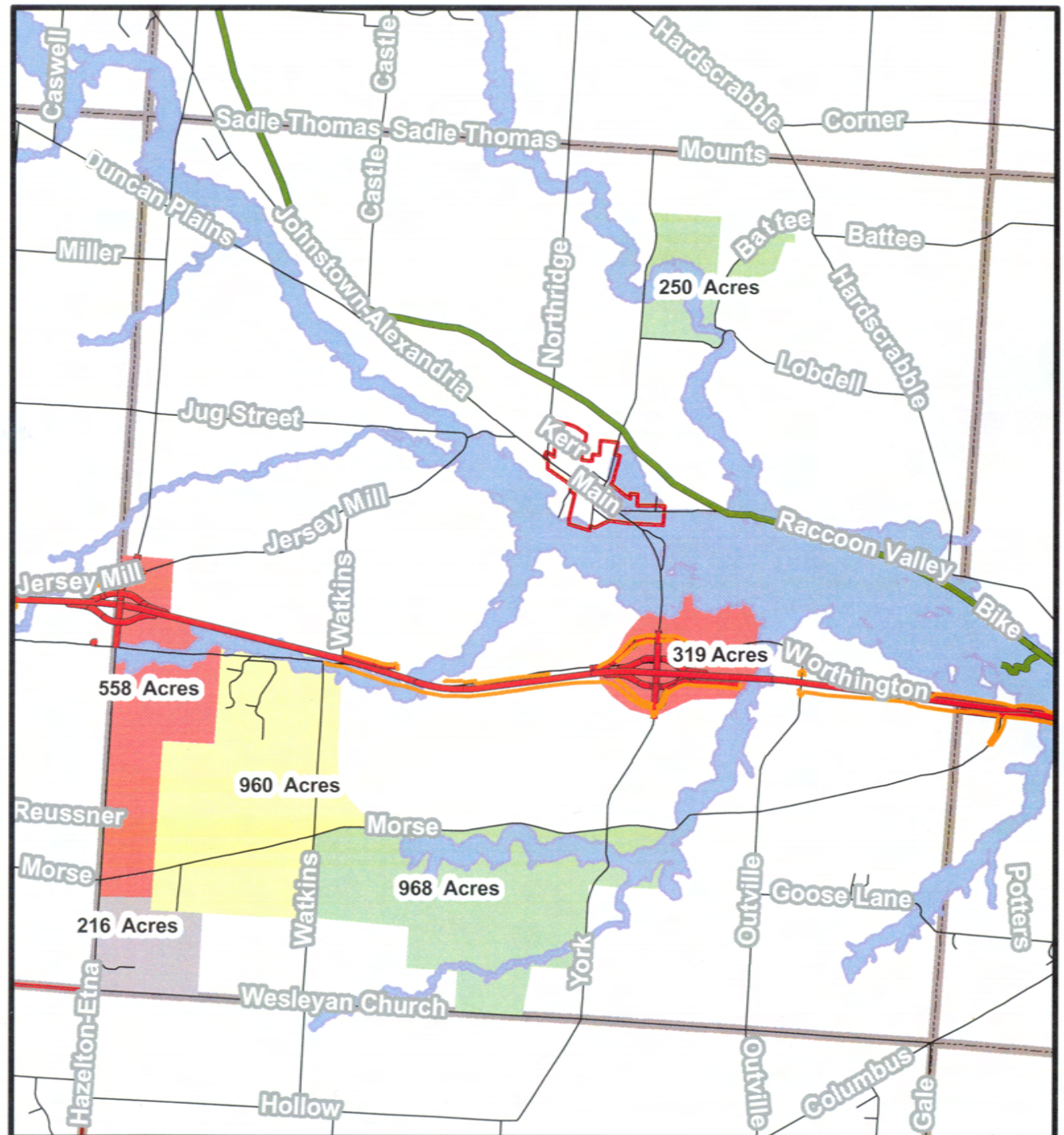
ST. ALBANS TOWNSHIP FUTURE LAND USE MAP



TOTAL ACREAGE
 Township: 16,916 Acres
 Open Space/Conservation: 1218 Acres
 Mixed Use: 960 Acres
 M&D: 216 Acres
 Future Business General: 877 Acres

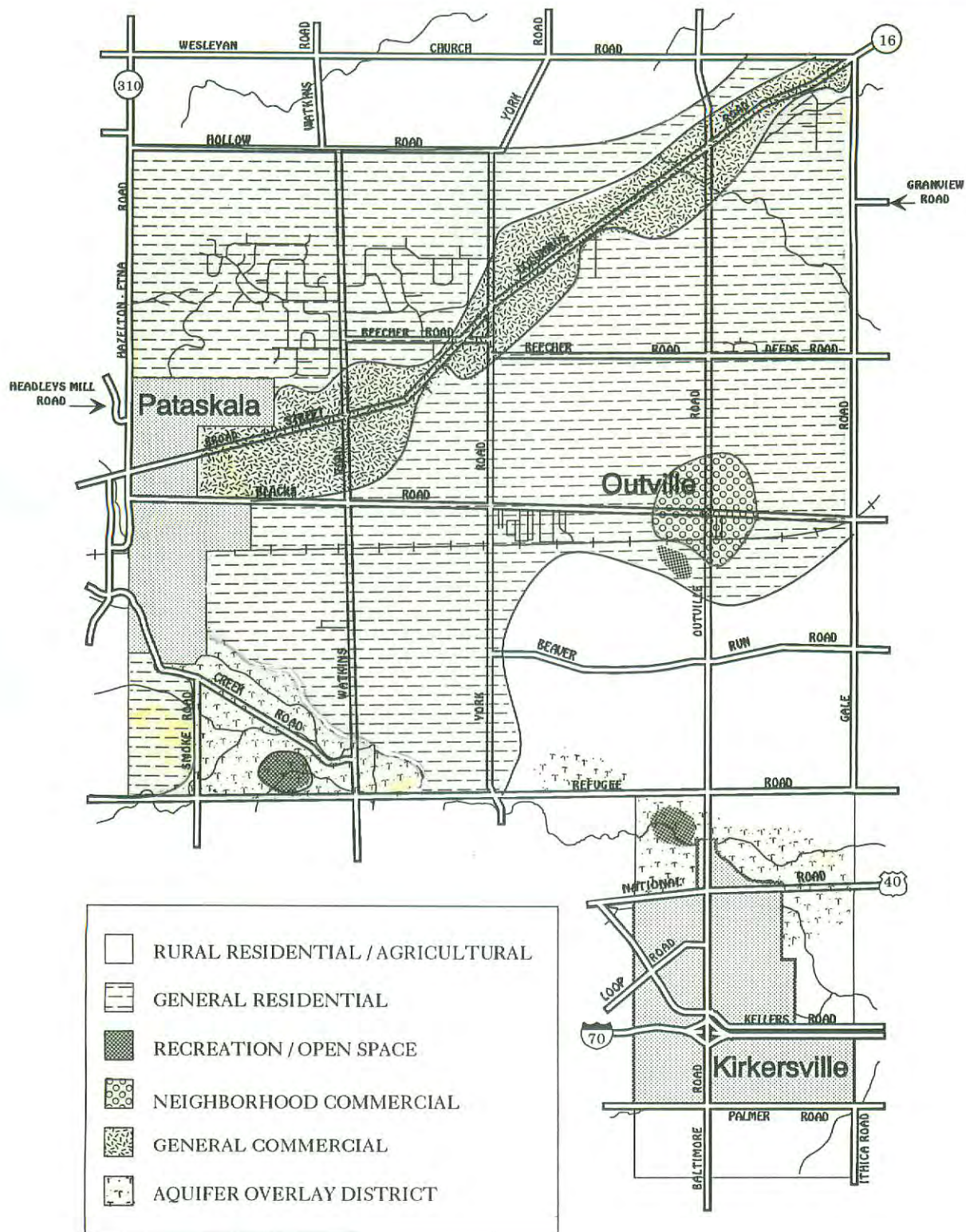


Approval Date: September 25, 2007
 Approved by: Charles Reeves
Carol Beem
David Lees



HARRISON TOWNSHIP FUTURE LAND USE MAP

(As adopted by the Harrison Township Trustees on October 4, 1993)



0 1/2 1
scale of miles

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/14/2012 10:35:13 AM

in

Case No(s). 12-2519-EL-BLN

Summary: Letter of Notification and Attachments for Kirk-Jug 138 kV Circuit Project (Part 4 of 12) electronically filed by Erin C Miller on behalf of AEP Ohio Transmission Company, Inc.