Application for Certificate of Environmental Compatibility and Public Need

Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation Project

OPSB Case No. 22-0248-EL-BTX

American Transmission Systems, Incorporated

ATSI®

American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

Submitted to

Ohio Power Siting Board

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TABLE OF CONTENTS

4906-5-02 Project Summary and Applicant Information 2-1
(A) Project Summary 2-1
(1) General Purpose of the Facility 2-1
(2) General Location, Size, and Operating Characteristics 2-1
(3) Suitability of Preferred and Alternate Routes for Dowling-Fulton 345 kV Transmission Line Tap 2-2
(4) Schedule 2-3
(B) Applicant Description 2-3
(1) Company History 2-3
(2) Current Operations and Affiliate Relationships 2-4

4906-5-03 Review of Need and Schedule 3-1
(A) Need for Proposed Facility 3-1
(1) Purpose of the Proposed Facility 3-3
(2) System Conditions, Local Requirements, and Other Pertinent Factors 3-4
(3) Power Flow Studies and Contingency Analyses 3-4
(4) System Performance Transcription Diagrams 3-5
(B) Regional Expansion Plans 3-5
(1) Proposed Facility in Long-Term Forecast 3-5
(2) Gas Pipeline Long-Term Forecast Reference 3-7
(C) System Economy and Reliability 3-7
(D) Options to Eliminate the Need for the Proposed Project 3-7
(E) Facility Selection Rationale 3-7
(F) Project Schedule 3-8
(1) Gantt Schedule Bar Chart 3-8
(2) Impact of Critical Delays 3-8

4906-5-04 Route Alternatives Analysis 4-1
(A) Route Selection Study 4-1
(1) Study Area Description and Rationale 4-1
(2) Study Area Map 4-1
(3) Map of Study Area, Study Segments and Routes Evaluated 4-2
(4) Siting Criteria 4-2
(5) Siting Process to Determine the Preferred and Alternate Routes 4-2
(6) Route Descriptions and Rationale for Selecting the Preferred and Alternative Routes 4-3
(B) Comparison Table of Routes, Route Segments, and Site 4-4
(C) Public Involvement 4-5

4906-5-05 Project Description 5-1
(A) Project Area Description 5-1

(1) Project Area Map 5-1
(2) Proposed Right-of-Way, Transmission Length, and Properties Crossed 5-1
(B) Route or Site Alternative Facility Layout and Installation 5-2
(1) Site Clearing, Construction, and Reclamation 5-2
(C) Description of Proposed Transmission Lines or Pipelines 5-5
(1) Electric Power Transmission Lines 5-5
(2) Diagram of Electric Power Transmission Substations 5-6

4906-5-06 Economic Impact and Public Interaction 6-1
(A) Ownership of Proposed Facility 6-1
(B) Capital and Intangible Costs Estimate for Electric Power Transmission Facility Alternatives 6-1
(C) Capital and Intangible Costs Estimate for Gas Transmission Facility Alternatives 6-2
(D) Public Interaction and Economic Impact 6-2
(1) Counties, Townships, Villages, and Cities within 1,000 feet 6-2
(2) Public Officials Contacted 6-3
(3) Planned Public Interaction 6-3
(4) Liability Insurance or Compensation 6-4
(5) Tax Revenues 6-4

4906-5-07 Health and Safety, Land Use, and Regional Development 7-1
(A) Health and Safety 7-1
(1) Compliance with Safety Regulations 7-1
(2) Electric and Magnetic Fields 7-1
(3) Estimate of Radio, Television, and Communications Interference 7-7
(4) Noise from Construction, Operations, and Maintenance 7-7
(B) Land Use 7-8
(1) Map of the Site and Route Alternatives 7-8
(2) Impacts on Identified Land Uses 7-8
(3) Impacts on Identified Nearby Structures 7-13
(C) Agricultural Land Impacts 7-13
(1) Agricultural Land Map 7-14
(2) Impacts on Agricultural Lands and Agricultural Districts 7-14
(D) Land Use Plans and Regional Development 7-16
(1) Impacts on Regional Development 7-16
(2) Compatibility of Proposed Facility with Current Regional Land Use Plans 7-16
(E) Cultural and Archaeological Resources 7-16
(1) Cultural Resources Map 7-16
(2) Cultural Resources in Study Corridor 7-17
(3) Construction, Operation, and Maintenance Impacts on Cultural Resources 7-19
(4) Mitigation Procedures 7-19

(5) Aesthetic Impacts....7-19

4906-5-08 Ecological Information and Compliance with Permitting Requirements....8-1
(A) Ecological Map....8-1
(B) Field Survey Report for Vegetation and Surface Waters....8-1
(1) Vegetative Communities, Wetlands, and Waterbodies in Study Area....8-2
(2) Map of Facility, Right-of-Way, and Delineated Resources....8-13
(3) Construction Impacts on Vegetation and Surface Waters....8-14
(4) Operation and Maintenance Impacts on Vegetation and Surface Water....8-19
(5) Mitigation Procedures....8-19
(C) Literature Survey of Plant and Animal Life Potentially Affected....8-20
(1) Project Vicinity Species Descriptions....8-21
(2) Operation and Maintenance Impacts on Identified Species....8-28
(3) Mitigation Procedures....8-29
(D) Site Geology....8-29
(1) Site Geology....8-29
(2) Slopes and Foundation Soil Suitability....8-29
(E) Environmental and Aviation Regulation Compliance....8-30
(1) Licenses, Permits, and Authorizations Required for the Facility....8-30
(2) Construction Debris....8-30
(3) Stormwater and Erosion Control....8-30
(4) Disposition of Contaminated Soil and Hazardous Materials....8-32
(5) Maximum Height of Above Ground Structures....8-33
(6) Dusty or Muddy Conditions Plan....8-33

Appendices

4-1 Route Selection Study
5-1 Easement Form
5-2 Melbourne Substation Drawing
6-1 List of Public Official Points of Contact
6-2 Public Information Meeting Materials
7-1 Typical Cross Section Profiles of the Normal Calculated Electric Fields and Magnetic Fields for all Scenarios Considered (Exhibits 7-1 through 7-6)
8-1 Ecological Information for the Proposed Melbourne Substation and the Proposed 345 kV Tie Lines (Melbourne Substation to Sydney Substation)
8-2 Correspondence with Ohio Department of Natural Resources and U.S. Fish & Wildlife Service
8-3A Wetland and Waterbody Delineation Report for the Preferred Route
8-3B Wetland and Waterbody Delineation Report for the Alternate Route
8-3C Wetland and Waterbody Delineation Report for the Proposed Melbourne Substation and 345 kV Tie Lines (Melbourne Substation to Sydney Substation)

Figures

2-1 Project Overview
2-2 Detail Map
3-1 Existing Area Topology....3-2
3-2 Load Loss under Contingency....3-2
3-3 Proposed Configuration....3-3
3-4 Future Area Benefits (RTEP s2756)....3-3
3-5 Project Schedule....3-9
5-1A 345kV Single Circuit Tubular Steel Structure Suspension, Angles 0° to 30°
5-1B 345kV Single Circuit Tubular Steel Structure Suspension, Angles 30° to 50°
5-1C 345kV Single Circuit Tubular Steel Structure Deadend, Angles 0° to 50°
5-1D 345kV Single Circuit Tubular Steel Structure Deadend, Angles 50° to 105°
5-1E 345kV Single Circuit Tubular Steel Structure In-Line Deadend, Tap
5-1F 345kV Single Circuit Tubular Steel Structure Vertical Deadend, Angles 0° to 60°
7-1a Land Use Map
7-1b Land Use Map
7-2a Agricultural Land Use Map
7-2b Agricultural Land Use Map
8-1 Wetland and Waterbody Overview Map
8-2A-K Preferred Route Delineated Wetland and Waterbodies Map
8-3A-J Alternate Route Delineated Wetland and Waterbodies Map
8-4 Area of 345 kV Tie Lines -- Delineated Wetland and Waterbodies Map

Tables

3-1 Case Evaluation....3-4
4-1 Alternative Route Ranking Results (Second Scoring of 212 Alternative Routes)....4-5
5-1 Right-of-way Area, Length, and Number of Properties Crossed for the Preferred Route....5-2
5-2 Right-of-way Area, Length, and Number of Properties Crossed for the Preferred Route Tie Lines....5-2
6-1 Estimates of Applicable Intangible and Capital Costs for Both the Preferred and Alternate Routes....6-2
7-1 Transmission Line Loadings....7-2
7-2 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-1) Span Configuration for the Preferred and Alternate Routes of the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation....7-3
7-3 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-2) Span Configuration within the shared right-of-way of the Fulton-North Star Steel 345 kV Transmission Line and the Preferred Route of the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation....7-3
7-4 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-3) Span Configuration within the shared right-of-way of the Delta-Fulton 138 kV Transmission Line and the Alternate Route of the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation....7-4

7-5 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-4) Span Configuration within the shared right-of-way of the with the Delta-Wauseon 138 kV Transmission Line and the Melbourne-North Star Steel #1 345 kV Transmission tie line and Melbourne-North Star Steel #2 345 kV Transmission tie line....7-4
7-6 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-5) Span Configuration within the shared right-of-way for the Preferred Routes of the Melbourne-North Star Steel #1 345 kV Transmission Tie Line and Melbourne-North Star Steel #2 345 kV Transmission Tie Line....7-5
7-7 EMF Calculations for a Typical Tangent - Tangent (Exhibit 7-6) Span Configuration in independent right-of-way for the Melbourne-North Star Steel #1 345 kV Transmission Tie Line and the Melbourne-North Star Steel #2 345 kV Transmission Tie Line....7-5
7-8 Length and Percent of Land Uses Crossed by Route Alternatives....7-9
7-9 Acreage and Percent of Land Uses Crossed by Route Alternatives....7-10
7-10 Number of Sensitive Features within or near the Potential Disturbance Area for the Route Alternatives....7-11
8-1 NWI Wetlands within 1,000 Feet of the Preferred and Alternate Routes....8-5
8-2 Delineated Wetlands within the Preferred and Alternate Route Field Survey Area and Potential Disturbance Area/ROW....8-7
8-3 Streams within the Preferred and Alternate Route Environmental Field Survey Area and Potential Disturbance Area/ROW....8-10
8-4 Delineated Ponds within the Preferred Route and Alternate Route Environmental Field Survey Area....8-13
8-5 Approximate Vegetation Impacts along the Potential Disturbance Area/ROW....8-14
8-6 Listed Species in the Project County (Fulton)....8-23

4906-5-02 PROJECT SUMMARY AND APPLICANT INFORMATION

(A) PROJECT SUMMARY

American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, proposes to construct a new 345 kilovolt (kV) four-breaker ring bus substation (Melbourne Substation) on an approximately 9-acre site and one new 345 kV transmission line to connect the Melbourne Substation with ATSI's existing 345 kV electric transmission system. The line will extend approximately 9 miles from ATSI's existing Dowling-Fulton 345 kV Transmission Line to the Melbourne Substation in Fulton County, Ohio. Also, as a part of this Project, ATSI plans to construct two, approximately 0.5-mile long, 345 kV transmission lines (Tie Lines) to connect the existing, customer-owned Sydney Substation to the proposed Melbourne Substation. The Project is referred to as the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation (Project). Figures 2-1 and 2-2 provide a general overview of the Project.

(1) General Purpose of the Facility

The Project will mitigate a violation of PJM Interconnection, LLC's ("PJM's")[1] and FirstEnergy's Planning Criteria—loss of load greater than 300 MW—by adding redundancy through a second 345 kV source, via the proposed Melbourne Substation, to the existing North Star BlueScope Steel Sydney Substation. Further, the Project will enable ATSI to meet projected electric service load needs as well as provide operational flexibility to customers. Additional details can be found in this Application's Review of Need and Schedule, in Section 4906-5-03.

(2) General Location, Size, and Operating Characteristics

(a) Melbourne Substation

The proposed Melbourne Substation is located approximately 0.5-miles south of the intersection of U.S. Highway 20A and County Road 10 between the North Star BlueScope Steel and Worthington Steel facilities. An approximately 7.6-acre site (total area required for construction activities) is required for the substation.

(b) Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation (Transmission Line)

The proposed 345 kV transmission line begins west of Swanton, Ohio, along ATSI's existing Dowling-Fulton 345 kV Transmission Line and terminates at the proposed Melbourne Substation. The transmission line will be approximately 8.62 to 9.46 miles in length, depending on the route selected, and will be constructed primarily on single steel monopoles. New permanent right-of-way (ROW) required will range from 95 to 150 feet in width, dependent on the specific segment of the route; if the Preferred Route is selected, a portion will run parallel to the existing Fulton-North Star Steel 345 kV Transmission Line ROW.

[1] PJM is the regional transmission organization (RTO) for the area.

(c) Melbourne Substation to Sydney Substation 345 kV Transmission Lines (Tie Lines)

The two proposed 345 kV Tie Lines, each approximately .51 miles in length, begin at the proposed Melbourne Substation and terminate at the existing Sydney Substation located within the North Star BlueScope Steel facility. The Tie Lines will (like the proposed Dowling-Fulton 345 kV Transmission Line) be constructed primarily on single steel monopoles. Combined, the two transmission tie lines will require an approximately 150-foot-wide permanent ROW on North Star BlueScope Steel property, in addition to a crossing of public road ROW.

(3) Suitability of Preferred and Alternate Routes for Dowling-Fulton 345 kV Transmission Line Tap

ATSI identified Preferred and Alternate Routes for the transmission line after conducting a Route Selection Study (RSS) for the Project, which is included in Appendix 4-1[2]. The RSS provides details on the selection process utilized by ATSI and the siting team to identify the Preferred and Alternate Routes proposed in this Application. A detailed discussion of the RSS's and selected routes are found in Section 4906-5-04 of this Application.

The RSS process is an iterative and incremental process that starts with the identification of numerous feasible alternative routes that could fulfill the Project need, within a defined physical siting study area, while minimizing impacts to the human and natural environment. Potential routes for review and consideration were initially selected based on the avoidance or minimization of impacts to known sensitive land uses, ecological features, and cultural resources, where identification was possible from existing resources. Potential routes were then evaluated, compared, and ranked to narrow down the most viable routes for further evaluation.

For the purposes of identifying the Preferred and Alternate Routes presented in this Application, the siting team considered all the factors as detailed in the RSS, with a particular emphasis on route alternatives that minimized land use/residential impacts and paralleled existing linear infrastructure. Stakeholder and public comments were also considered and incorporated, where possible, to further reduce impacts.

Ultimately, the RSS process identified the Preferred and Alternate Routes for the proposed Dowling-Fulton 345 kV Transmission Line Tap, which represent, in ATSI's analysis, the minimum adverse environmental and land use impacts considering all relevant factors.

(a) Preferred Route

The Preferred Route, which spans from ATSI's existing Dowling-Fulton 345 kV Transmission Line to the Melbourne Substation, is approximately 9.46 miles in length.

[2] The RSS did not entail analysis of route alternatives for the Tie Lines due to their short length, configuration, and function. For the avoidance of doubt, however, ATSI has included the Tie Lines (along with the proposed Melbourne Substation) within the scope of its motion for partial waiver of the requirement in OAC Rule 4906-3-05 to include fully developed information on two sites/routes.

The Preferred Route begins along ATSI's existing Dowling-Fulton 345 kV Transmission Line directly south of Interstate 80/90 (I-80/90) and runs west, paralleling I-80/90, for approximately 5.0 miles. At County Road 7-2, the route turns south, then runs west between the Delta Reservoir and Delta Motorsports Park, before continuing to parallel I-80/90 for approximately 2.0 miles. Just east of County Road 10, the Preferred Route turns south and runs approximately 1.3 miles, paralleling ATSI's existing Fulton-North Star 345 kV Transmission Line. The Preferred Route then crosses the Fulton-North Star 345 kV Transmission Line and continues south for 0.4 miles, before turning west and terminating at the proposed Melbourne Substation.

Even though it is longer than the Alternate Route, the Preferred Route maximizes existing ROW corridors and has fewer overall impacts to current land use, including fewer streams and properties crossed.

(b) Alternate Route

The Alternate Route, which spans from ATSI's existing Dowling-Fulton 345 kV Transmission Line to the Melbourne Substation, is approximately 8.62 miles in length.

The Alternate Route begins along ATSI's existing Dowling-Fulton 345 kV Transmission Line directly north of the Norfolk Southern Company railroad, approximately 0.2 miles south of County Road H, and runs west, paralleling the railroad and the existing Delta-Fulton 138 kV Transmission Line, for approximately 3.1 miles. At County Road 5-2, the route turns south and runs approximately 0.6 miles, then turns west and runs approximately 1.4 miles across agricultural land. South of the Village of Delta, the Alternate Route crosses Jefferson Street, Bad Creek, and State Route (SR) 109, then continues across agricultural land. At County Road FG, the route turns northwest, then runs west paralleling the railroad for approximately 1.5 miles. At County Road 10, the Alternate Route runs north for approximately 0.2 miles, crossing the railroad, before turning west and terminating at the proposed Melbourne Substation.

(4) Schedule

Construction of the Project is anticipated to begin in the third quarter of 2025 with an anticipated in-service date of June 2026. The current Project schedule, including all major activities and milestones, is illustrated in a Gantt schedule bar chart provided in Section 4906-5-03(F)(1).

(B) APPLICANT DESCRIPTION

(1) Company History

ATSI's facilities are comprised, in large part, of the transmission assets formerly owned by the operating utilities of FirstEnergy in western Pennsylvania and Ohio (i.e., Pennsylvania Power Company in western Pennsylvania, and Ohio Edison Company, The Cleveland Electric Illuminating Company, and The Toledo Edison Company in Ohio). ATSI began providing electric transmission service subject to the Federal Energy Regulatory Commission's (FERC's) jurisdiction on September 1, 2000, following approval from the Public Utilities Commission of Ohio (PUCO) to transfer transmission assets from the FirstEnergy Ohio operating companies to ATSI.

FirstEnergy was formed in 1997 through the merger of Ohio Edison Company and Centerior Energy Corporation. Through this merger, FirstEnergy became the holding company for Ohio Edison and its Pennsylvania Power Company subsidiary, as well as The Cleveland Electric Illuminating Company and The Toledo Edison Company. At that time, FirstEnergy served 2.2 million customers within 13,200 square miles of northern and central Ohio and western Pennsylvania and had approximately 12,000 megawatts of generating capacity.

In 2001, FirstEnergy nearly doubled its customers to more than 4.3 million when it merged with the former GPU, Inc., based in Morristown, New Jersey. GPU served 2.1 million customers in a 24,000 square-mile service area in Pennsylvania and New Jersey through its three operating companies: Metropolitan Edison Company, Pennsylvania Electric Company, and Jersey Central Power & Light Company.

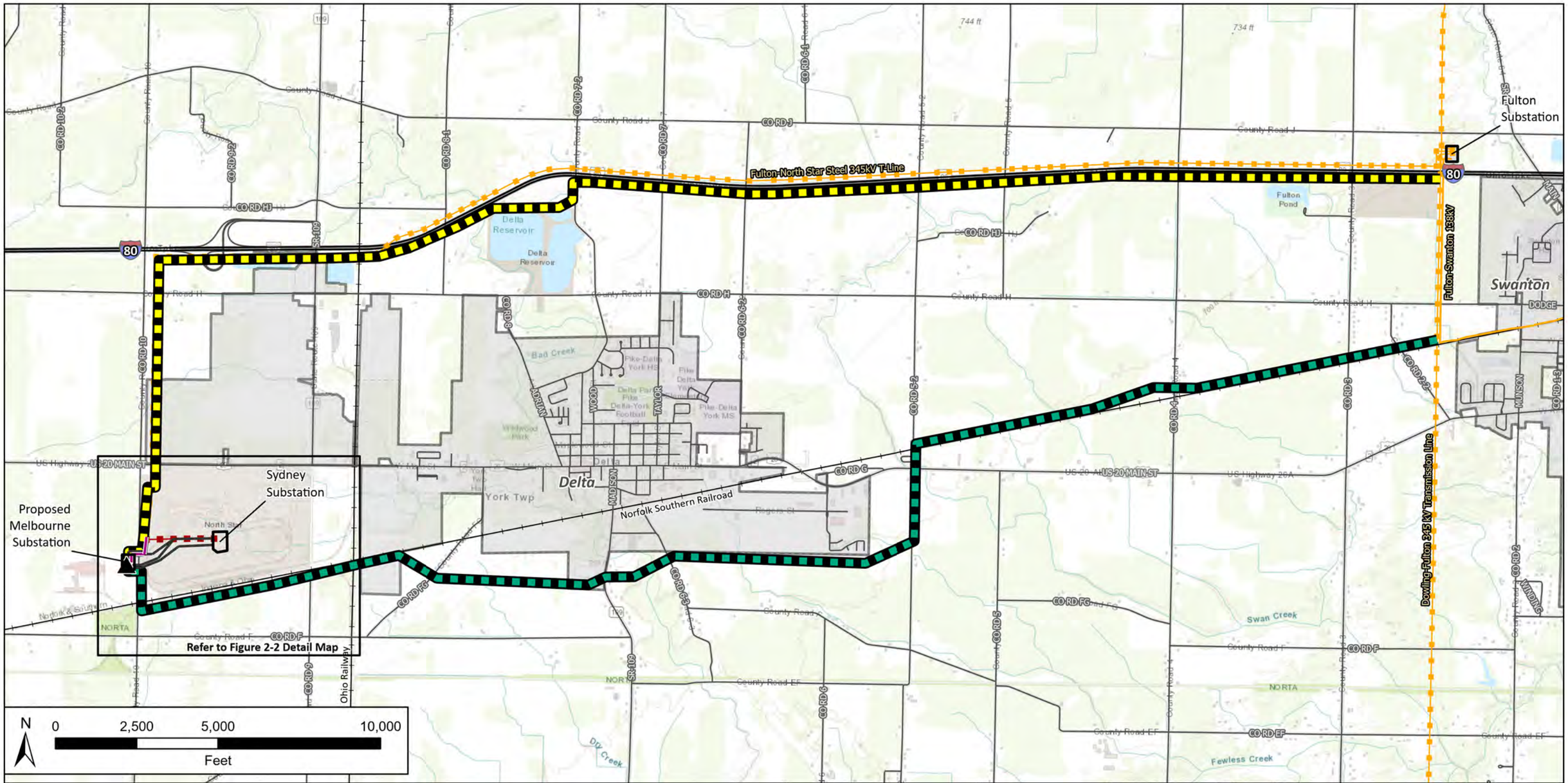
In 2011, FirstEnergy completed a merger with Allegheny Energy, a Greensburg, Pennsylvania-based company that served 1.6 million customers in Pennsylvania, West Virginia, Maryland, and Virginia.

Today, FirstEnergy is one of the nation's largest investor-owned electric systems serving 6 million customers within a service territory of 65,000 square miles across six states.

(2) Current Operations and Affiliate Relationships

ATSI is a transmission-only company (a Transco) that provides transmission services in the western portion of Pennsylvania and in the State of Ohio. Currently, ATSI owns and maintains over 8,100 circuit-miles of transmission lines, substations, and other transmission facilities that are located primarily in the ATSI Zone of PJM. ATSI also owns certain limited transmission facilities outside of its zone that are necessary to tie ATSI's transmission system into the transmission and generation facilities in neighboring utilities' territories or otherwise necessary to support transmission service in ATSI's zone. ATSI's transmission facilities are under PJM's functional control.

Figures



Legend

- Proposed Melbourne Substation
- FirstEnergy Substation
- Preferred Route
- Alternate Route
- Fulton-North Star Steel 345 kV Transmission Line Extension to Melbourne Substation (Future Filing)
- Melbourne Station-Sydney Station 345 kV Tie Lines (Tie-Lines for Both Preferred/ Alternate Shown)
- Existing 345 kV Transmission Line
- Existing 345 kV Transmission Line to be Removed (Future Filing)
- Roads
- Interstates
- Railroad
- Corporation Limits

Base Map Source:
ESRI Topographic

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

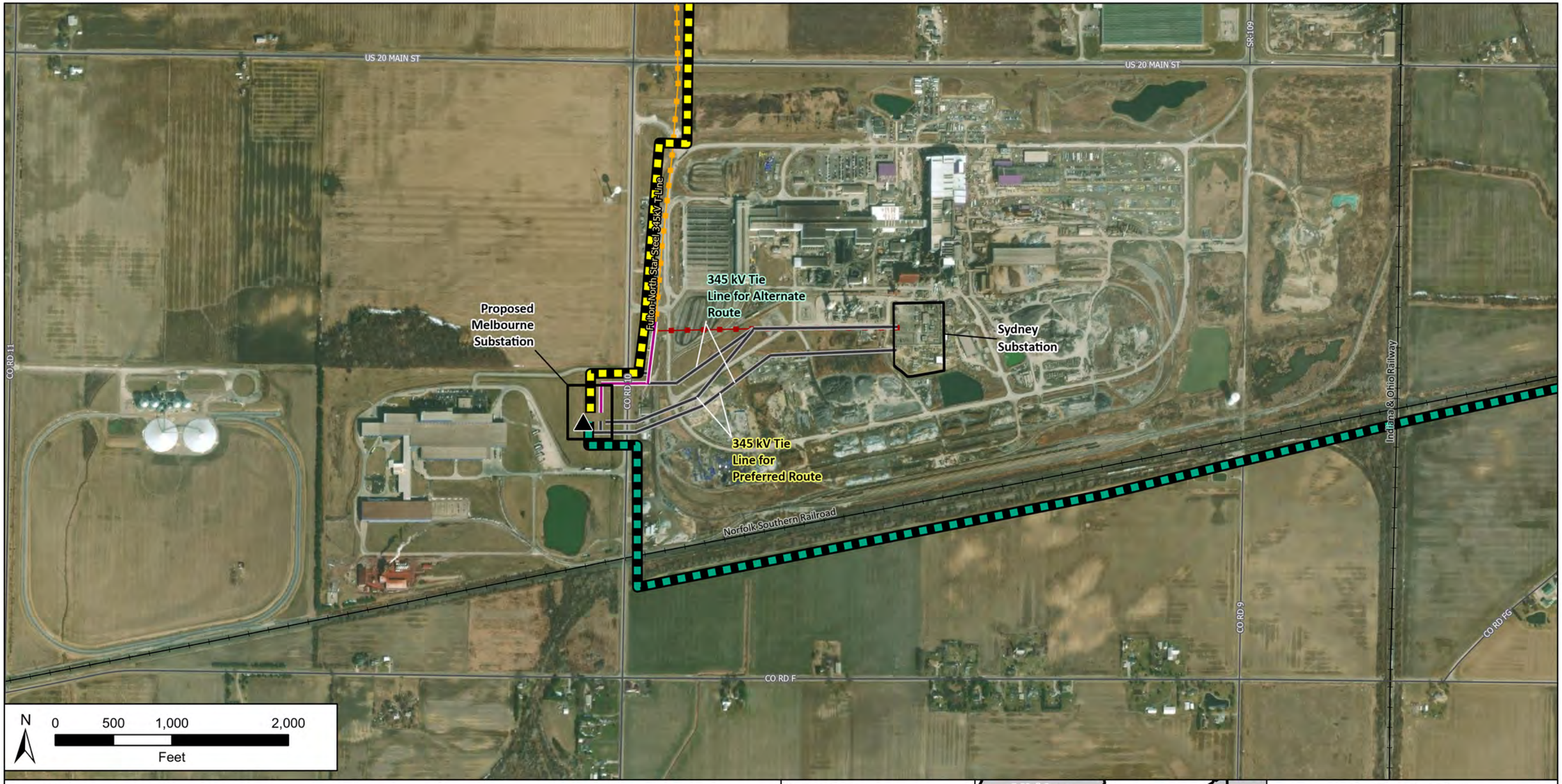


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 2-1
Project Overview

3/3/2023

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Legend

- Proposed Melbourne Substation
- FirstEnergy Substation
- Preferred Route
- Alternate Route
- Fulton-North Star Steel 345 kV Transmission Line Extension to Melbourne Substation (Future Filing)
- Melbourne Station-Sydney Station 345 kV Tie Lines (Tie-Lines for Both Preferred/ Alternate Shown)
- Existing 345 kV Transmission Line
- Existing 345 kV Transmission Line to be Removed (Future Filing)
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Topographic

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983



Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 2-2
Detail Map

3/3/2023

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4906-5-03 REVIEW OF NEED AND SCHEDULE

(A) NEED FOR PROPOSED FACILITY

The Project addresses reliability and operational issues in ATSI's transmission system serving the Delta and surrounding areas by ensuring that safe and reliable electric service will continue to be supplied as well as that capacity for economic development and load growth in the area will be increased.

The need for this Project was identified in 2020 by PJM in its no harm analysis of the customer's load increase. PJM identified that the load increase under certain contingencies on the transmission system will result in a planning criteria violation (i.e., loss of load of more than 300 MW). PJM used the PJM 2019 RTEP power flow model for the year 2024 to conduct the analysis. Because PJM identified, and ATSI confirmed, a loss of load planning criteria violation, it is mandatory for ATSI to mitigate the planning criteria violation. ATSI determined this Project to be the most practical and beneficial solution to satisfy the immediate and future needs of the area.

The Project will directly mitigate a violation of PJM's and FirstEnergy's transmission planning criteria—loss of load greater than 300 MW. This Project will also provide additional reliability and benefit to the Delta and surrounding areas by enabling a future ATSI-planned project (PJM RTEP # s2756) that will provide additional support to the 138 kV transmission system in the immediate area.

Construction of a new 345 kV transmission line is required to prevent more than 300 MWs of load loss because one of ATSI's large industrial customer, North Star BlueScope Steel, currently operates off a radial 345 kV transmission line with a load of 300 MW. The loss of this radial transmission line and any other transmission line on the transmission system in the area would cause a loss of over 300 MW: a PJM and FirstEnergy planning criteria violation that must be mitigated. Adding another 345 kV line to the transmission system in the area and creating a loop feed to the large industrial customer ensures that loss of load over 300 MW will not occur under any contingency on the transmission system in the immediate area (see Figures 3-1 & 3-2[1]).

[1] The topology diagrams in Figures 3-1, 3-2, and 3-3 show the electrical system configuration, but are not geographically or relationally to scale.

Figure 3-1: Existing Area Topology

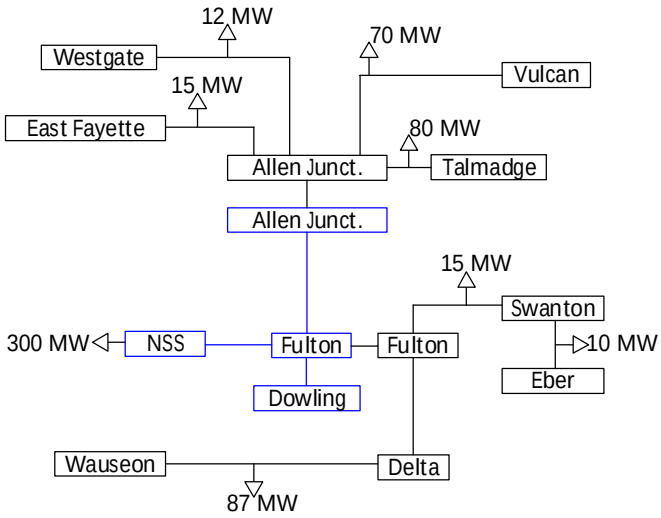


Figure 3-2: Load Loss under Contingency

The loss of the Fulton- North Star Steel 345 kV Line and the loss of the Delta-Wauseon 138 kV Line results in a loss of approximately 387 MWs.

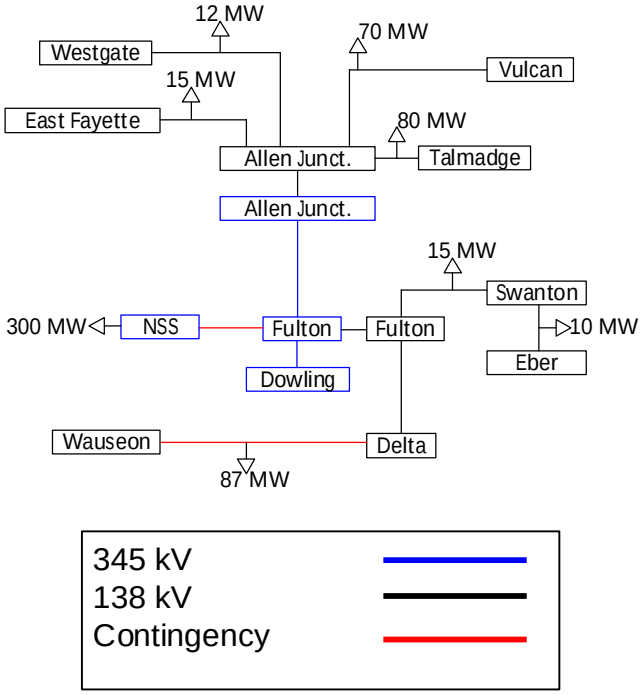
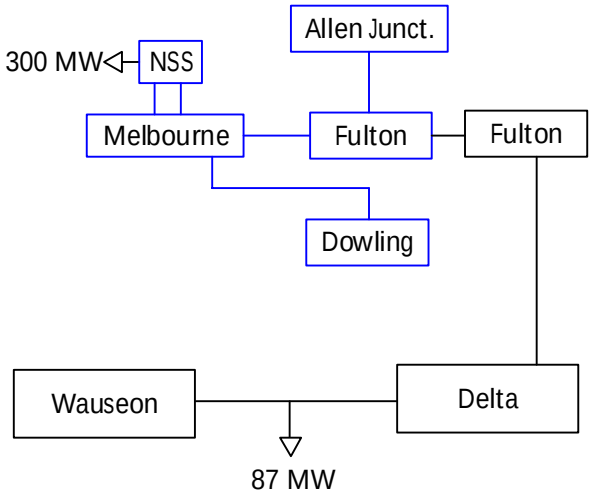


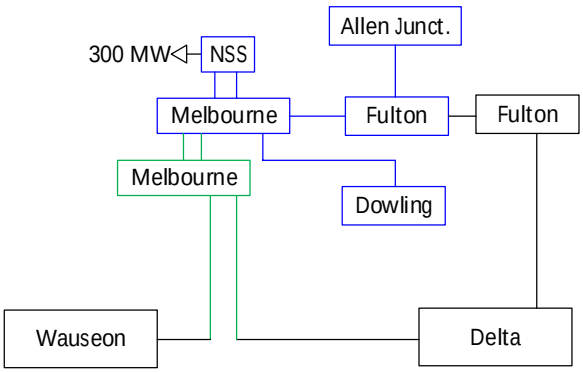
Figure 3-3: Proposed Configuration



(1) Purpose of the Proposed Facility

The purpose of this Project is to mitigate the planning criteria violation illustrated in Figure 3-2. With the implementation of this solution, loss of more than 300 MW could not occur, which meets the FirstEnergy and PJM planning criteria. An additional benefit of this Project will be to further reinforce the transmission system in the area, with the intent of accommodating a future 345/138 kV transformation project to strengthen the 138 kV transmission system. The future project is shown in green in Figure 3-4 below.

Figure 3-4: Future Area Benefits (RTEP s2756)



This future solution will further decrease the amount of load lost under contingency scenarios due to the addition of two more 138 kV transmission lines supporting the Project Study Area. This future project reinforces the 138 kV transmission system in the Delta and surrounding areas, which has experienced significant industrial load growth over the past few years and is projected to increase further in future years due to existing customer load growth and other economic development opportunities.

(2) System Conditions, Local Requirements, and Other Pertinent Factors

North Star Bluescope Steel is a large industrial customer of ATSI, with 300 MW of load. The North Star Bluescope Steel facility is currently served via a single radial 345 kV line. Loss of that radial 345 kV line along with any other transmission line in the area would cause a load loss of over 300 MW, which violates the FirstEnergy and PJM planning criteria. FirstEnergy is therefore obligated to pursue a solution to mitigate this violation.

(3) Power Flow Studies and Contingency Analyses

FirstEnergy modeled various planning scenarios and performed multiple studies of the Project Area's transmission system using the PJM 2020 RTEP summer power flow peak conditions for model year 2025 with and without the proposed Project. These studies included evaluation of the effects of the specific contingencies resolved by the proposed Project.

Power Flow Study Results

Table 3-1 provides a summary of the evaluation and the amount of load (in MWs) interrupted before and after the Project is completed.

The largest load loss contingency scenario (387 MW) would occur with the loss of the radial North Star Steel (Fulton) 345 kV Transmission Line, followed by the loss of the Delta-Wauseon 138 kV Transmission Line, which results in the loss of approximately 387 MWs of load.

Table 3-1: Case Evaluation

Contingency	Monitored Facility	Before Project Load Loss (MW)	After Project Load Loss (MW)
Loss of radial 345 kV line feeding NSS and the Delta-Wauseon 138 kV Line	Delta OH	387	87
Loss of radial 345 kV line feeding NSS and the Allen Junct-East Fayette line	Delta, OH	315	15
Loss of both 345 kV lines feeding NSS	Delta, OH	N/A	260
Loss of radial 345 kV feeding NSS and Allen Junction – Vulcan 138 kV Line	Delta, OH	370	70
Loss of radial 345 kV feeding NSS and Allen Junction – Westgate 138 kV Line	Delta, OH	312	12
Loss of radial 345 kV feeding NSS and Allen Junction – Talmadge 138 kV Line	Delta, OH	380	80
Loss of radial 345 kV feeding NSS and Fulton-Swanton 138 kV Line	Delta, OH	315	15
Loss of radial 345 kV feeding NSS and Eber-Swanton 138 kV Line	Delta, OH	310	10

All models and associated files to study the transmission system should be requested through PJM. This is due to the fact that the data in the power flow model and the associated files is owned

by PJM. ATSI only provides some of the data that goes into the model. All the other Transmission Owners (TOs) and stakeholders in PJM also provide input to the model and associated files. PJM assembles the data and creates the model and the associated files. The model and the associated file are not owned or controlled by ATSI.

(4) System Performance Transcription Diagrams

FirstEnergy does not create System Performance Transcription Diagrams. Therefore, no such diagrams are provided for this Project.

(B) REGIONAL EXPANSION PLANS

The Project need was submitted as a Supplemental Project to the PJM Regional Transmission Expansion Plan ("RTEP") at the Transmission Expansion Advisory Committee on November 22, 2019, and the solution was presented November 4, 2020. See section (1) (c) below.

(1) Proposed Facility in Long-Term Forecast

(a) Reference in Recent Long-Term Forecast

The Project is included on page 83 of the FirstEnergy Corp. 2022 Long-Term Forecast Report ("LTFR") (Case No. 22-0504-EL-FOR).

(b) Explanation if Not Referenced

Not applicable; see Section 4906-5-03(B)(1)(a) directly above.

(c) Reference in Regional Expansion Plans

The Project need was submitted as a Supplemental Project to the PJM RTEP at the Transmission Expansion Advisory Committee on November 22, 2019, and the solution was presented November 4, 2020. The Project is needed to improve the operational flexibility, reliability, and infrastructure resilience; reduce the amount of local load loss under contingency conditions; and mitigate planning criteria concerns on the >100 kV system. PJM evaluated the proposed Project and did not identify any FirstEnergy or PJM Planning Criteria violations caused by the Project. As such, there is no need for additional network system upgrades as a result of the Project. PJM assigned the Project supplemental upgrade identification number s2237.2.

PJM, in its capacity as the regional Transmission Planning Coordinator, Transmission Planner, and Transmission Operator, identifies the need and timing for mandatory transmission system upgrades as part of the reliability planning, economic planning, and interconnection planning process to preserve the reliability of the electricity grid under its operational control as the RTO. The PJM planning process is an 18-month cycle starting in September of every calendar year. The process ultimately produces a PJM Board-approved RTEP 18 months later (February). The RTEP identifies transmission system upgrades and enhancements to provide for the operational, economic, and reliability requirements of PJM. The RTEP consists of system upgrades produced from one or more of four planning processes: reliability planning; economic planning; interconnection planning; and local planning.

Baseline upgrades are identified as part of the reliability planning and economic planning analysis. The analysis consists of a comprehensive series of detailed studies that are designed to satisfy PJM's reliability planning criteria and those of the applicable TOs, including FirstEnergy's Transmission Planning Criteria, as well as the North American Electric Reliability Corporation (NERC) and ReliabilityFirst Corporation (RF) reliability standards. The transmission planning process, and the baseline RTEP projects selected for construction under that process, are required by the applicable reliability and planning criteria. Once approved by PJM, TOs are obligated to build these projects under Section 1.7 of Schedule 6 of the PJM Operating Agreement. These projects are identified by PJM with an upgrade ID starting with the letter "b" followed by a four-digit number.

Supplemental upgrades are TO-initiated projects and are part of the local planning process. In accordance with Attachment M-3 of the PJM Open Access Transmission Tariff (OATT), FirstEnergy provides information regarding the criteria used to plan and identify Supplemental Projects at an Assumptions meeting. The process for developing Supplemental upgrades includes identification and review of system needs at a separate Needs meeting and an opportunity for stakeholders to comment. Next, there is a Solutions meeting where potential solutions and any considered alternatives are discussed. Stakeholders may then provide comments on the potential solutions.

FirstEnergy Supplemental upgrades are typically: (i) a request for electric service from new or existing customers; and/or, (ii) a project identified pursuant to FirstEnergy's Energizing the Future methodology. This methodology and any identified projects are presented to PJM and the PJM stakeholders in accordance with the PJM OATT, Attachment M-3, as described above. ATSI Reliability Enhancement projects, such as the proposed Project, are presented at the PJM Sub-Regional RTEP–Western or PJM Transmission Expansion Advisory committee meetings that occur monthly. Supplemental upgrades that have been reviewed through the Attachment M-3 process are identified by PJM with an "s" followed by a four-digit number. Supplemental upgrades are not mandated or directed by PJM but are necessary in order to address planning functions not transferred to PJM (e.g., asset management, customer interconnections). These projects reflect the TOs' obligation to provide reliable service in its local service territory and are grounded in Good Utility Practice.

The Project is identified as a supplemental project under item (i) in the above paragraph because it compelled as a result of North Star Steel's load increase. Planning criteria violations determined to be caused by such a load addition are assigned as supplemental projects to address the identified violations and restore the transmission system to a similar state of reliability as it was before the load addition.

In general, FirstEnergy's Reliability Enhancement methodology is intended to: (i) proactively upgrade or replace transmission lines and substation components that present an increasing risk to reliability; (ii) modernize the Operating Companies' transmission infrastructure by implementing technological advances to enhance reliability and promote increased efficiencies; (iii) increase or restore load serving capability; (iv) improve the resiliency of the existing transmission system to better withstand and recover from storms and unusual weather events,

such as extreme heat and cold; (v) address heightened concerns with cyber and physical security; (vi) improve customer reliability by installing new equipment with real-time monitoring capabilities to optimize maintenance intervals and reduce the likelihood of equipment failure; and, (vii) better address our customers' needs by reducing the duration and frequency of unscheduled outages. Reliability Enhancement projects, such as the proposed Project, are largely driven to meet customers' increasing reliability demands.

The Project was reviewed in accordance with the PJM OATT, Attachment M-3, process, as described above, and presented at the PJM Transmission Expansion Advisory committee meeting on November 22, 2019, and November 4, 2020. The Project was assigned supplemental upgrade identification number s2237.2.

(2) Gas Pipeline Long-Term Forecast Reference

Gas Pipeline Information; not applicable to this Project.

(C) SYSTEM ECONOMY AND RELIABILITY

Completion of the Project will resolve the identified planning criteria violation resulting from loss of over 300 MW of load under contingency. PJM and FirstEnergy have determined that the completion of this Project will also not cause any adverse effects on the overall transmission system, but instead will increase the overall reliability of the transmission system while supporting additional load growth and future transmission expansion projects in the area, such as incorporating a future project that will provide a 345/138 kV transformation to strengthen the 138 kV transmission system and benefit all customers in the area.

(D) OPTIONS TO ELIMINATE THE NEED FOR THE PROPOSED PROJECT

There is no feasible alternative to constructing a new transmission line. ATSI considered one alternative to this Project (still necessitating construction of a new transmission line), but that alternative was rejected as infeasible due to exorbitant cost. ATSI would have had to build a new 345 kV substation and re-terminate the existing Fulton-North Star Steel 345 kV Transmission Line into that substation. This option would have also required the construction of an additional 138 kV substation with transformation between it and the aforementioned newly constructed 345 kV substation. In addition, expansion of the existing Fulton Substation would be required to facilitate the addition of a second 345/138 kV transformer. Likewise, expansion of the existing Delta Substation and construction of a second Delta-Fulton 138 kV Transmission Line along with a second Delta-Wauseon 138 kV Transmission Line would be needed. Lastly, the two Delta-Wauseon 138 kV Transmission Lines would then need to be looped into the newly constructed 138 kV substation to eliminate the load loss criteria violation. Therefore, this alternative was not selected as it required the construction of more new facilities to mitigate the same criteria violation, which was estimated at a substantially higher cost than the proposed Project.

(E) FACILITY SELECTION RATIONALE

The proposed Project was selected because it provided the least costly solution to mitigate the planning criteria violation. The selected Project involves constructing one new 345 kV line, two

short 345 kV Tie Lines, and a 345 kV ring bus substation.[2] Whereas the alternative option (explained in (D)) would entail constructing two new 138 kV lines and two new substations, this Project will serve the public by bringing in another 345 kV transmission line to the area, which provides for future capacity needs and better overall system reliability and resiliency.

(F) PROJECT SCHEDULE

(1) Gantt Schedule Bar Chart

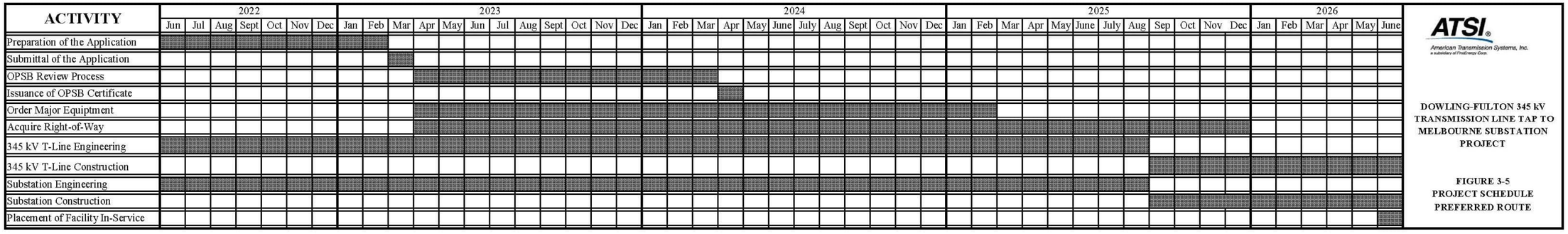
A detailed schedule for the proposed Project is presented on Figure 3-5.

(2) Impact of Critical Delays

Until this Project is in service, there is imminent risk of load loss greater than 300 MW.

[2] ATSI will submit a separate Construction Notice Application for extension of the existing Fulton-North Star Steel 345 kV Transmission Line: an additional scope of work also related this Project.

Figure 3-5: Project Schedule



4906-5-04 ROUTE ALTERNATIVES ANALYSIS

(A) ROUTE SELECTION STUDY

ATSI and its siting team conducted an independent Route Selection Study ("RSS") for the Dowling-Fulton 345 kV Transmission Line Tap component of the Project. [1] A copy of the RSS for the Project is included in Appendix 4-1. The goal of the RSS was to identify feasible routes, while avoiding or minimizing effects on sensitive land uses, ecological, and cultural features in the Project vicinity with the ultimate objective being the identification of Preferred and Alternate Route for the Project that meets all applicable criteria for issuance of a Certificate by the OPSB. Potential routes were quantitatively and qualitatively evaluated, compared, and ranked to provide the basis for selecting a Preferred and Alternate Route.

(1) Study Area Description and Rationale

The Project area is in southeastern Fulton County. Existing land use in the Project area is primarily agricultural, with low-density residential use along county roads and higher-density residential use within the Village of Delta. Large commercial/industrial facilities, including the North Star BlueScope Steel facility, are west of Delta. The primary transportation corridors in the Project area are Interstate 80/90 (I-80/I-90), US Highway 20A (US-20A), and State Route 109 (SR-109).

The study area was determined by the geographic area between ATSI's existing north-south Dowling-Fulton 345 kV Transmission Line and site proposed for Melbourne Substation. The study area was defined to include a reasonable area where potential routes could be developed without adding unnecessary length to the transmission line. The northern boundary allowed the siting team to evaluate routes paralleling the existing Fulton-North Star 345 kV Transmission Line and I-80 corridor. The southern boundary captured opportunities for routes through the southeastern part of Fulton County while avoiding a large area of protected land managed by the Black Swamp Conservancy. Extending the study area east of the Dowling-Fulton 345 kV Transmission Line or west of the Melbourne Substation would have added unnecessary length to the transmission line component of the Project. Given these considerations, the siting team identified a study area encompassing approximately 41,293 acres (64.5 square miles) in Fulton County, Ohio.

(2) Study Area Map

Figure 2 in the attached RSS report (Appendix 4-1) illustrates the approximate boundary of the study area.

[1] The RSS did not analyze alternatives for the proposed Melbourne Substation, nor for the Tie Lines, because there were no reasonable alternatives. (*See* ATSI's Motion for Partial Waiver of OAC Rule 4906-3-05, filed concurrently with this Application.)

(3) Map of Study Area, Study Segments and Routes Evaluated

Figures 2 through 12 in the attached RSS report (Appendix 4-1) illustrate the approximate boundary of the study area, study segments, and the alternative routes that were evaluated to guide the siting team in selecting the Preferred and Alternate routes.

(4) Siting Criteria

The list and description of all quantitative siting criteria and the weighting values for each criterion used in the RSS are presented in Appendix C of the RSS report (Appendix 4-1). The quantitative siting criteria were selected to identify potential impacts to the community or environment, as well as technical challenges that may be encountered when designing and constructing the Project; they consist of constraint and attribute data, including, but not limited to, locations of forested lands, wetlands, streams, cultural resources, individual residences, property boundaries, institutional land uses, existing transmission lines, and other land use features. These criteria were assigned weighting values based on the specific study area setting and primary land uses, and the professional judgment of the siting team, which allowed for the calculation of route scores.

(5) Siting Process to Determine the Preferred and Alternate Routes

After identifying the study area, reviewing constraint and opportunity data, and establishing the siting criteria, conceptual route corridors and preliminary study segments were drawn based on mapped attribute and constraint data and review of aerial imagery. The intent when placing these study segments was to minimize impacts to residences and land use by paralleling existing linear infrastructure, including the existing Fulton-North Star 345 kV Transmission Line, I-80/I-90, and Norfolk Southern' s railroad corridor. Following a field review, study segments were refined then combined into 526 alternative routes.

Alternative routes were then assessed and compared based on natural and cultural resources, land uses, and engineering and construction concerns. For comparison of the alternative routes, various siting criteria were quantified for each route and then each quantified value was normalized to assign each criterion a score. This more easily allows a relative comparison of the data and routes. Normalizing the data into a score is vital so that all constraints are directly compared according to the same scale. The alternative routes were then numerically scored to identify the overall ranking of alternative routes.

Based on the initial scoring and ranking results, the siting team recognized that the top 60 ranked routes were very similar to one another, and most routes did not meet the OPSB requirement that alternative routes have no more than 20 percent in common. The top ranked alternatives are also all near the existing Fulton-North Star 345 kV Transmission Line and I-80/I-90 corridor, so proceeding with just these alternatives would disregard siting opportunities in other parts of the study area. Given this situation, the siting team grouped the alternative routes into three general corridors (the northern corridor, central corridor, and southern corridor), primarily based on the initial conceptual route corridors. Because the routes in the southern part of the study area scored the worst in the initial round of scoring (out of 526 alternatives), these routes were dropped from further consideration. Once the routes were grouped, quantitative scoring and ranking was

completed again to gain an understanding of how the alternative routes compared to one another within the northern and central corridors. In addition to the quantitative scoring, ATSI's siting team relied on its extensive experience and familiarity with transmission siting projects to further refine the routes based on several qualitative factors. Qualitative siting criteria used to assess the alternative routes included potential impacts to existing transmission lines during construction, operation, and maintenance of the Project, impacts to future land use and economic development in the study area, and visual impacts to the surrounding community.

The siting team held an informal open house on August 24, 2022, to obtain input from property owners and stakeholders on three alternative routes. The alternatives included a route from the northern corridor (Route 266) and two routes from the central corridor (Route 149 and Route 18). Based on input from landowners during the meeting, the southern-most route (Route 18) was eliminated, primarily from opposition to bisecting several agricultural land parcels on this largely greenfield route. The siting team made significant modifications to Route 149 based on input received from North Star BlueScope Steel representatives concerning conflict with the facility's material handling operations, as well as route shifts to other segments to lessen land use impacts. Lastly, the northern Route 266 underwent a modification to reduce impacts to the Delta Motorsports Park's racetrack and business operations.

Given the numerous route modifications necessitated by input from stakeholders and other opportunities to reduce impacts, a group of 212 alternative routes was re-evaluated through a second scoring and ranking process. Based on quantitative scoring and that Route 266 Modified reduces land use impacts compared to other routes, this route was selected to be advanced and included for presentation in this Application. Based on the route adjustments that resulted in Route 149 Modified, the public's comments, and the siting team's effort to optimize this central route, this route was also selected to be presented in this Application.

ATSI held a public information meeting, pursuant to OAC Rule 4906-3-03, on December 6, 2022, regarding the two refined alternative routes: Route 266 Modified and Route 149 Modified. Based on comments received from property owners in attendance, coupled with the route ranking and qualitative considerations, the siting team selected Route 266 Modified as the Preferred Route and Route 149 Modified as the Alternate Route.

The entire siting process, methodology, and results are described in detail in the RSS report in Appendix 4-1.

(6) Route Descriptions and Rationale for Selecting the Preferred and Alternative Routes

Route 266 Modified was identified as the Preferred Route in the RSS. The Preferred Route is 9.5 miles in total length and has 12 residences within 500 feet of the route centerline, the second lowest residential count of all routes. The route crosses land owned by 33 individuals or entities, the second lowest of all routes. Route 266 Modified has a higher potential for delineated wetlands (based on National Wetland Inventory data) compared to the majority of alternative routes but

has fewer stream crossings and fewer impacts to existing land uses compared to other routes evaluated.

The impacts to sensitive land uses and historical cultural resources are expected to be minimal, and quantities of these sensitive features (historic structures, recreational areas, etc.) are among the lowest. Additionally, the route is among the lowest for overall length and in the middle of the range for the number of angle structures. This route also parallels I-80/I-90 for the majority of its length. This route will be co-located (offset 100 feet) with the existing Fulton-North Star 345 kV Transmission Line for 3.0 miles of the total 9.5-mile route, thereby reducing the amount of potential new ROW that would need to be acquired from landowners.

Route 149 Modified was identified as the Alternate Route in the RSS. This route parallels the Norfolk Southern Company railroad for 4.0 miles of the total 8.5-mile route. The Alternate Route also parallels 2.5 miles of ATSI's existing Delta-Wauseon 138 kV Transmission Line, which follows the railroad corridor.

The Alternate Route is among the lowest for potential wetlands being crossed (based on National Wetland Inventory and hydric soils data), involves five stream crossings (based on desktop data), and is the middle of the range for woodlot impacts. In terms of land use, the Alternate Route has 9 residences within 250 feet of the route centerline and 65 residences within 500 feet of the route centerline, which is in the lower to middle of the impact ranges for all alternative routes evaluated. The route crosses land owned by 45 individuals or entities which is close to the middle of the range. The impacts to sensitive land uses and historical cultural resources are expected to be minimal, and quantities of these sensitive features (historic structures, recreational areas, etc.) are among the lowest. Additionally, the route is among the lowest for overall length (8.5 miles) and in the middle of the range for the number of angle structures.

(B) COMPARISON TABLE OF ROUTES, ROUTE SEGMENTS, AND SITE

Table 4-1 below summarizes the top-ranked routes resulting from the RSS (Appendix 4-1). In addition, Tables 3-1 and 3-2 of the RSS report provide scoring and ranking results for the initial round of route analysis conducted during the RSS. Detailed quantitative analysis results are provided in Appendix D, Appendix E, and Appendix F of the RSS (Appendix 4-1).

Table 4-1: Alternative Route Ranking Results (Second Scoring of 212 Alternative Routes)

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
266	4,17,32,37,63,74,75,80	20.9	27.0	16.3	44.9	24.5	1
306	4,9,11,14,20,29,43,44,55,67,70,76,83	32.6	0.0	23.6	55.2	30.3	2
266 Mod	4,17,32,37,63,74,75,80 (with modifications)	40.2	12.0	17.9	50.9	30.6	3
307	4,9,11,14,20,29,43,44,59,66,67,70,83	30.1	0.0	28.2	53.1	30.9	4
500	14,20,29,43,44,55,67,70,76,78,79	32.2	39.0	16.9	53.7	31.1	5
354	4,9,14,20,29,43,44,55,67,70,76,78,81	31.9	0.0	23.9	59.8	31.1	6
133	3,11,14,20,22,28,43,44,55,67,70,76,83	31.4	39.0	25.0	39.8	31.3	7
149	3,11,16,23,25,31,33,45,47,48,52,65,67	33.4	69.0	29.9	15.7	32.0	8
Routes ranked 9th through 38th were eliminated (all utilize southern segments of central corridor or circuitous routing)		N/A	N/A	N/A	N/A	N/A	9-38
149 Mod	3,11,16,23,25,31,33,45,47,48,52,65,67 (with modifications)	31.0	39.0	42.0	27.3	35.5	39

(C) PUBLIC INVOLVEMENT

ATSI conducted a public information program to raise awareness, communicate Project details, and solicit feedback from residents and local elected officials. ATSI's public involvement for the route selection process entailed two meetings in the area: first, an informal open house; and second, the required public informational meeting pursuant to OAC Rule 4906-3-03. During both meetings, community members were afforded the opportunity to offer comments on proposed route segments and alternatives. Prior to each meeting, ATSI mailed invitation letters to residents and tenants. ATSI also published a public notice of the public information meeting in the local newspaper. A project website was also created with Project mapping and a summary description. Additionally, ATSI set up a virtual open house website to provide stakeholders with a summary of the Project need and purpose, transmission line pole types, vegetation management, environmental permitting, real estate negotiations, and a map of alternative routes. At the meetings, ATSI representatives were available to answer questions, listen, and receive feedback from the public to incorporate in the siting process. Summaries of the meetings are provided below.

First, on August 24, 2022, ATSI conducted an informal open house, from 6:00 pm to 8:00 pm at the American Legion Hall in Delta, Ohio (5939 State Route 109, Delta, OH 43515). Materials on three alternative routes were offered for public comment, along with other Project information during the meeting. Detailed maps of the potential routes were presented, including property boundaries with unique parcel identification (ID) numbers referenced to a list of property owners. This allowed attendees to identify their property on aerial photographs and observe the location of the proposed alignments with respect to their property. Approximately 72 members of the public attended the informal open house.

ATSI encouraged those attendees with specific objections to suggest alternatives. Twenty written comments were collected, including two comments received via e-mail and one comment via the website after the session. Additionally, three comments from owners were transcribed by ATSI's real estate staff during discussions. Comments included concerns about agricultural crop operations, proximity to residences, and visual aesthetics. Comments also included preference for one of the three presented routes. ATSI's siting team reviewed each of the landowners' comments and fully considered the concerns and/or recommendations expressed to aid in the selection of the Preferred and Alternate Routes.

Following the informal open house, ATSI refined its analysis of the route segments for further consideration.

Second, on December 7, 2022, ATSI conducted its public informational meeting, pursuant to OPSB Rule 4906-3-03, from 6:00 pm to 8:00 pm at the American Legion Hall in Delta, Ohio (5939 State Route 109, Delta, OH 43515). Two alternative routes were presented for public comment, along with other Project information during the meeting. Again, detailed maps of the route alternatives were presented, including property boundaries with unique parcel identification (ID) numbers referenced to a list of property owners. This allowed attendees to identify their property on aerial photographs and observe the location of the proposed alignments with respect to their property.

Approximately 30 members of the public attended the public information meeting, and 13 comments were received. Of the 13 comments, seven were in favor of the northern alternative route. Two additional commentors who own property on the northern route expressed concerns including the transmission poles causing more difficult agricultural equipment operations for field crops and concern about the number of easements from all utilities that cross a specific parcel of agricultural crop land. Four comments were received from property owners on the southern route. Some of the four commentors expressed interest in selling their property for purposes of constructing the transmission line and mentioned concerns about perceived health effects from living adjacent to a high voltage transmission line. ATSI's siting team reviewed each of the landowners' comments and fully considered the concerns and/or recommendations expressed to aid in the selection of the Preferred and Alternate Routes.

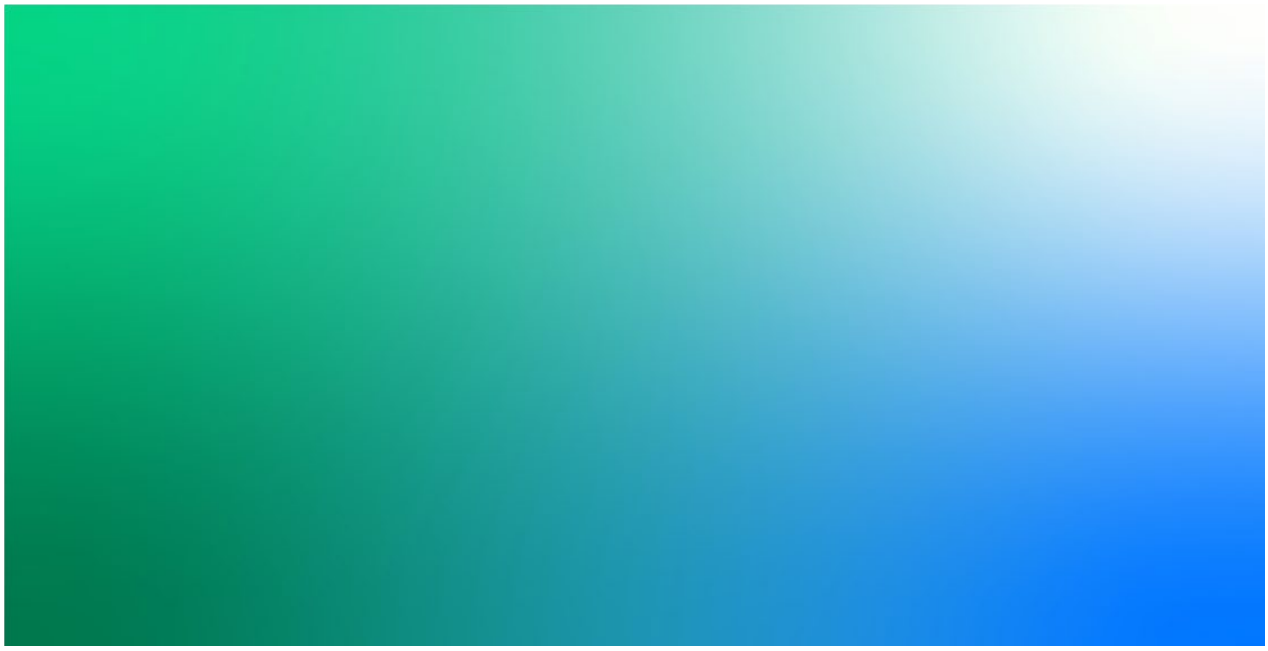
Appendix 4-1
Route Selection Study

Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation Project

Route Selection Study

March 2023

American Transmission Systems, Incorporated



Contents

Acronyms and Abbreviations v

1. Introduction and Project Overview 1-1

1.1 Purpose and Need 1-1

1.2 Project Area Description 1-1

1.3 Goal of Siting Study 1-1

2. Route Selection Methodology 2-1

3. Route Selection Study 3-1

3.1 Study Area Delineation 3-1

3.2 Constraint and Opportunity Data 3-1

3.2.1 Raster-Based Suitability Modeling 3-2

3.3 Study Segment Network and Alternative Routes 3-3

3.3.1 Identifying Conceptual Route Corridors 3-3

3.3.2 Developing Initial Study Segments 3-3

3.3.3 Refining the Study Segment Network 3-3

3.3.4 Developing Alternative Routes 3-4

3.4 Evaluating Alternative Routes 3-4

3.4.1 Evaluation Criteria and Process 3-5

3.4.2 Initial Scoring and Ranking Results 3-6

3.4.3 Corridor Scoring and Ranking Results 3-6

3.4.4 Alternative Routes Discussion 3-9

3.5 Public and Stakeholder Engagement 3-11

3.5.1 Stakeholder Engagement 3-12

3.5.2 Public Information Meeting 3-12

3.6 Route Adjustments and Second Scoring of Routes 3-13

3.6.1 Route Adjustments 3-13

3.6.2 Second Scoring and Ranking of Alternative Routes 3-15

3.7 OPSB Jurisdictional Public Information Meeting 3-17

3.8 Selection of the Preferred and Alternate Route 3-18

4. Conclusions 4-1

Appendices

Appendix A Figures
Appendix B GIS Data
Appendix C Alternative Routes
Appendix D Evaluation Criteria
Appendix E Route Scoring Results
Appendix F Corridor Scoring Results
Appendix G Second Route Scoring Results

Tables

3-1 Northern Corridor Alternative Route Evaluation Scores 3-7
3-2 Central Corridor Alternative Route Evaluation Scores 3-8
3-3 Alternative Route Ranking Results (Second Scoring of 212 Alternative Routes) 3-15

Figures

1 Project Overview
2 Study Area and Constraints
3 Overall Suitability Model
4 Conceptual Route Corridors
5 Initial Study Segment Network
6 Refined Study Segment Network
7 Top Ranked Northern Corridor Alternative Routes
8 Top Ranked Central Corridor Alternative Routes
9 Alternative Routes - Initial Public Information Meeting
10 Revised Study Segments for Second Scoring of Alternative Routes
11 Alternative Routes 149 and 266 (Initial and Modified) Jurisdictional Public Information Meeting
12 Preferred and Alternate Routes

No table of contents entries found.

Acronyms and Abbreviations

ATSI	American Transmission Systems, Incorporated
CECPN	Certificate of Environmental Compatibility and Public Need
FE	FirstEnergy
GIS	geographic information system
I-	Interstate
Jacobs	Jacobs Engineering Group Inc.
kV	kilovolt
NWI	National Wetlands Inventory
OAC	Ohio Administrative Code
OPSB	Ohio Power Siting Board
Project	Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation Project
SR-	State Route
US-	US Highway

1. Introduction and Project Overview

1.1 Purpose and Need

American Transmission Systems, Incorporated (ATSI), a FirstEnergy (FE) company, is proposing to develop a new 345-kilovolt (kV) transmission line between ATSI's existing Dowling-Fulton 345 kV Transmission Line and the proposed Melbourne Substation[1] in Fulton County, Ohio (Figure 1). The proposed project, referred to as the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation (Project), will provide a second 345 kV source to the proposed Melbourne Substation to enhance the electric service reliability for existing customers, add redundancy to the transmission network, and allow for future growth in the area. The Project will also alleviate a potential 300-megawatt load loss, which would be a PJM Planning Criteria Violation, as a result of increased load on the transmission system.

The Project requires an Application for a Certificate of Environmental Compatibility and Public Need (CECPN) be submitted to the Ohio Power Siting Board (OPSB). As part of the CECPN process, a route selection study is required that analyzes the siting constraints and siting opportunities used to select a Preferred Route and an Alternate Route for the Project.[2] In accordance with Ohio statutory requirements, this report summarizes the siting process and methodology, and makes a recommendation on a Preferred Route and Alternate Route for the Project.

1.2 Project Area Description

The Project area is in southeastern Fulton County. Existing land uses in the Project area consist primarily of agricultural land, low-density residential along county roads with higher-density residential within the Village of Delta. Large commercial/industrial facilities, including the North Star BlueScope Steel facility, are west of Delta. The primary transportation corridors in the Project area are Interstate 80/90 (I-80/I-90) which runs east to west north of Delta, US Highway 20A (US-20A) which runs east to west through Delta approximately 1.5 miles south of I-80/I-90, and State Route 109 (SR-109) which runs south from Delta.

1.3 Goal of Siting Study

The primary goal of the route selection study was to identify a route for the Project that (1) reasonably minimizes adverse impacts on area land uses and the natural and cultural environment; (2) minimizes special design requirements and unreasonable costs; and (3) can be constructed and operated safely for its service life while meeting the purpose and need of the Project

[1] Site selection for the Melbourne Substation is not included in this report.
[2] OAC § 4906-5-04

2. Route Selection Methodology

In compliance with the OPSB requirements, the route selection process follows a common siting methodology that is routinely used to route electric transmission lines in Ohio and other states. A siting team was convened to implement the route selection process and consisted of multidisciplinary staff from ATSI and Jacobs with experience in transmission line siting, engineering, environmental permitting, impact assessment for the natural and human environment, public engagement, construction, project management, planning, vegetation management, and operations.

The siting process provides a layered approach, employing appropriate methods for the siting team to determine the preferred and alternate routes for the Project. The process used for this Project consisted of the following primary tasks, detailed in the following sections:

1) **Identifying a Project-specific study area:** The first step in the siting process was to develop a Project-specific study area that identifies an appropriate geographic boundary where the siting team can collect detailed constraint and opportunity data. The study area should include a large enough area to investigate reasonable routing alternatives for the Project. To identify a study area, the siting team reviewed publicly available environmental, land use, and socioeconomic information and determined the boundaries of the study area based on the initial opportunity review (to identify where a new transmission line may have the least impacts) and the constraint review (to identify existing land or man-made features that are less suitable for a transmission line siting) review.
2) **Mapping of constraint and opportunity data:** After the siting team developed the study area, further constraint and opportunity data were collected under four broad categories; ecological, cultural, land use, and technical. Detailed data were collected under these broad categories based on their relevance to the Project, the study area, and the availability and quality of the dataset. Once collected, the data were analyzed by way of the following:
    a) The data were mapped within the study area to produce an overall constraint and opportunity map. This initial mapping gave the siting team insight into all constraints within the study area generally.
    b) After the data mapping was complete, the opportunity and constraint information was converted into raster-based (or grid cell) layers and assigned a suitability value related to its suitability to host a transmission line. For example, an existing utility right-of-way would be assigned a high suitability score, while a residential area or wooded wetland would be assigned a low score. These individual suitability layers were combined to form an overall suitability surface, which assists the siting team with developing a study segment network.
3) **Developing a study segment network and identification of alternative routes:** Once the suitability mapping and raster-based layers were completed, the information gleaned from the data analysis was used to develop an initial study segment network. Study segments were developed by using corridors that were the most conducive to electric transmission line development. A site visit was then conducted to review the study area and initial study segments. Following the site visit, study segments were revised based on additional opportunities and constraints identified during the visit. Based on the revised study segments, the siting team developed unique alternative routes for the Project by combining study segments from the existing Dowling-Fulton 345 kV Transmission Line to the proposed Melbourne Substation.
4) **Comparing alternative routes:** Once the alternative routes were identified, the siting team established a set of metrics to compare and rank the routes. These metrics were based on opportunities and

constraints in the study area and weighted based on the specific Project area setting and primary land uses, as well as the professional judgement of the siting team in routing projects in a similar setting.

Based on quantitative scores and qualitative factors, the siting team identified three alternative routes to present at a public information meeting. As part of this process, the siting team chose routes that met the OPSB requirement that alternative routes submitted as part of the CECPN application have no more than 20 percent of their length in common. [3]

5) **Conducting public and stakeholder meetings:** The Project team held a stakeholder meeting in January 2022 and a public information meeting in the Project area in August of 2022 to present the Project, three alternative routes and solicit written comments from the public to incorporate in the siting process. The public information meeting in August was supplemented with an OPSB jurisdictional public meeting in December 2022.

6) **Adjusting and re-evaluating routes**: The Project team made study segment and route adjustments based on applicable and relevant feedback from property owners at the public information meeting as well as detailed engineering and re-evaluated alternative routes. Because of the nature of the data collection and analysis process used to review siting options, the siting team was (and remains) able to reevaluate routes, corridors, and data with minimal additional processing of data inputs.

7) **Selecting a Preferred and Alternate route:** In addition to the quantitative evaluation, qualitative factors play a crucial role in the selection of a Preferred Route and Alternate Route for the CEPCN application. The qualitative factors vary from project to project and could include visual impacts, local public perception and preferences, current land use, and proposed future land use. The siting team used its experience to determine the type and extent to which qualitative data influenced routing decisions. Further record of qualitative information gleaned through the project is discussed in other sections of this document. The siting team then used the qualitative and quantitative analysis to select the Preferred and Alternate routes presented in the Application.

[3] OAC § 4906-3-05

3. Route Selection Study

3.1 Study Area Delineation

The study area's boundaries include the area between ATSI's existing Dowling-Fulton 345 kV Transmission Line and the proposed Melbourne Substation. It was defined to include a reasonable area where potential routes could be identified. Given these considerations, the siting team identified a study area encompassing approximately 41,293 acres (64.5 square miles) in Fulton County, Ohio (Figure 2).

The eastern boundary of the study area extends approximately 8.6 miles from north of County Road J to Township Highway W (the southern boundary of Fulton County), paralleling of the existing Dowling-Fulton 345 kV Transmission Line approximately 0.25 mile to the east. The southern boundary extends west along the county line for approximately 4.8 miles, then north along SR-109 for approximately 2.4 miles before continuing west for another 3.5 miles through agricultural fields to County Road 11. The western boundary extends approximately 6.1 miles north along County Road 11 until just north of County Road J. The northern boundary extends east for approximately 8.8 miles through agricultural fields, north of County Road J and I-80/I-90, until it meets with the eastern boundary (northeast of ATSI's existing Fulton Substation). The siting team believed that extending the study area past these boundaries would add unnecessary area without significant benefit. The northern boundary allows the siting team to evaluate potentially paralleling the existing Fulton-NorthStar 345 kV Transmission Line and I-80/I-90 corridor. The southern boundary captures opportunities for routing through the southern part of the county while avoiding a large area of protected land managed by the Black Swamp Conservancy on the western side of SR-109. Extending the study area east or west of the identified boundaries would have added unnecessary length to the Project.

3.2 Constraint and Opportunity Data

Once the study area was determined, Jacobs reviewed publicly available data in the study area to identify opportunities and constraints that could affect the viability of a proposed transmission line route. Figure 2 shows the study area boundary and the following constraints and opportunity features identified in the study area. Appendix A presents a list of the geographic information system (GIS) data sources used for this study.

Ecological Resources

- Streams, including Bad Creek, Blue Creek, Dry Creek, Fewless Creek, and Swan Creek
- Wetlands
- Floodplains
- Forested areas

Cultural Resources

- Cemeteries
- Ohio Archaeological Inventory listed archaeology sites
- Ohio Historic Inventory listed architectural and historical resources
- National Register of Historic Places eligible resources

Land Use

- Residential development, including the Village of Delta and surrounding areas
- Commercial/Industrial developments, including Nova Tube & Steel, LLC's two new electric resistance welding tube mills, and proposed Tricounty Rural Electric Cooperative, Inc.'s Winameg Area Substation
- Institutional facilities
- Landfills
- Cell towers
- Agricultural district lands
- Recreation areas, including the Delta Reservoirs, Delta Raceway, and Wabash Cannonball Trail
- Protected lands, including Fulton Pond Wildlife Area, Maumee State Forest, and open farm and ranch lands managed by the Black Swamp Conservancy

Technical

- Local roads, including I-80/I-90, County Road J, County Road H, US-20A, County Road D, County Road C, County Road 3, County Road 5-2, SR-109, and County Road F
- Railroads owned and operated by Norfolk Southern Company and Indiana & Ohio Railway
- Transmission lines, including ATSI's existing Dowling-Fulton 345 kV Transmission Line, Fulton-NorthStar 345 kV Transmission Line, Delta-Wauseon 138 kV Transmission Line, Delta-Fulton 138 kV Transmission Line, Fulton-Swanton 138 kV Transmission Line, and NorthStar Steel-Wauseon 138 kV Transmission Line.

3.2.1 Raster-Based Suitability Modeling

Based on siting constraints and opportunities within the study area, a raster-based suitability surface was created. The suitability model analysis resulted in three levels of detail, or tiers of suitability surfaces:

- **Tier 1:** Individual criteria or layers (for example, woodlots, wetlands, streams and floodplain were collected and mapped individually). Each data layer was converted to raster format where each grid cell measured 100 feet by 100 feet and was assigned a "suitability" score between 1 and 10, where 1 is "best" and 10 is "worst." The scores were determined by the Project team using professional experience with similar projects and regulatory guidelines.
- **Tier 2:** Related Tier 1 surfaces were combined into one of three categories (ecological, cultural, land use, and technical) and given a category score. For example, woodlots, wetlands, streams and floodplain were combined to form an "ecological" suitability surface. In addition to serving as the foundational pieces of the suitability model, these grouped layers are useful in communicating the siting process to interested parties.
- **Tier 3:** Tier 3 surfaces were generated by combining and applying statistical weights to the three Tier 2 surfaces. The result was an overall suitability surface model which is color-coded using a progressive chromatic scale from red (least suitable) to green (most suitable).

The overall suitability model (Figure 3) includes a color-coded display that allows for an easy visual assessment of routing constraints and opportunities. The purpose of creating the suitability model for this Project was to identify areas that would be more suitable for developing a routing corridor network. The

suitability model also shows areas where routing constraints would limit the development of routing corridors.

3.3 Study Segment Network and Alternative Routes

Developing routes is an iterative process that allows for re-assessment and adjustment of routes throughout the process as new constraints are identified. The subsections below summarize the stepwise approach used to develop the study segments and alternative routes for the Project.

3.3.1 Identifying Conceptual Route Corridors

Using the overall suitability model and review of aerial photography, topographic maps, and the collected attribute and constraint data, the siting team first identified conceptual route corridors from the Dowling-Fulton 345 kV Transmission Line to the west side of NorthStar Steel's facility because the location of the proposed Melbourne Substation was not finalized at this stage in the routing study. The intent when developing the conceptual route corridors was to avoid less suitable areas for a transmission line (e.g., urban areas, wetlands, forested areas) and follow more suitable areas (e.g., existing developed corridors such as roads and existing transmission lines) that will later be defined into study segments and eventually alternative routes. Along the Dowling-Fulton 345 kV Transmission Line, six areas were identified for potential tap locations: near the Fulton Substation, directly south of I-80/I-90, along the Delta-Fulton 138 kV Transmission Line, south of US-20A, just north of County Road D, and south of County Road C. From these six tie-in points, the conceptual route corridors extend west by following the green (more suitable) areas while avoiding the red (less suitable) areas until reaching the west side of NorthStar Steel's facility. The conceptual route corridors identified for the Project are shown on Figure 4.

3.3.2 Developing Initial Study Segments

Once conceptual route corridors were identified, initial study segments were developed by identifying study segments that avoided constraints and used opportunities within each corridor. In some areas, study segments were developed outside of the conceptual route corridors as constraints (e.g., clusters of residences, environmental features, etc.) within the corridor made it challenging to route a transmission line that will require an approximately 150-foot ROW. Additionally, the siting team looked for areas of opportunity throughout the study area to develop segments that would create connections between the corridors. Sixty-seven initial study segments were developed for the Project and are shown on Figure 5. Many of these segments parallel existing linear infrastructure including the existing Fulton-NorthStar 345 kV Transmission Line, I-80/I-90, and Norfolk Southern' s railroad corridor. Study segments 3, 11, 16, 23, 47, 48, 52, 54 and 65 were developed as a rebuild of the Delta-Wauseon 138 kV Transmission Line and Delta-Fulton 138 kV Transmission Line, as a double circuit 138/345 kV transmission line.

Following development of the initial study segment network, the siting team completed a field review of the study area and study segments to identify any issues/concerns with the study segments developed as well as any additional constraints or opportunities that needed to be considered during the siting process.

3.3.3 Refining the Study Segment Network

Based on the field review, four segments were removed (1, 46, 51, 54), numerous segments were revised, and 16 segments were added (69 to 84). The refined study segments are shown on Figure 6.

Study segment 1 was removed from consideration when a wetland and windbreak managed by the Fulton County Soil and Water Conservation District in the southwest corner of County Road 3 and County Road E was identified. Due to the density of residences in this area, it was not feasible to adjust this segment. Southwest of Delta, the Siting Team reviewed study segments 45, 46 and 47. In this area, there were two options to connect to the north side of the railroad corridor. Segments 45 and 47 were retained because these segments reduce land use impacts in the area and have a better crossing angle over the railroad tracks. Segment 46 was removed from consideration. East of the NorthStar Steel facility, study segment 51 was removed from consideration because it was redundant with segment 53. The siting team chose to keep segment 53 because its location on NorthStar Steel property would reduce impacts to new landowners. Lastly, due to some minor adjustments to study segments south of the railroad corridor, segment 54 was incorporated into segment 65.

In the southeast corner of the study area, the siting team observed a cluster of residences along the smaller county and township roads making it challenging to route a transmission line through this area. The siting team identified a more suitable overgrown tree lot adjacent to agricultural fields and shifted segment 6 to this area to reduce impacts on residences. South of Delta, segment 33 was adjusted to reduce potential impacts to Bad Creek and the associated forested floodplain, and segment 34 was adjusted to shift the segment further away from a newly constructed residence along Jefferson Street. On the west side of the NorthStar Steel facility, segments 63, 64, and 67 were adjusted to account for the confirmed site of the proposed Melbourne Substation. Along the Norfolk Southern railroad corridor, segments were shifted slightly north to provide 100 feet of clearance from the railroad corridor. This distance would allow ATSI to construct the double circuit 138/345 kV transmission line in the clear from the existing Delta-Fulton 138 kV and Delta-Wauseon 138 kV transmission lines.

North of Delta, the siting team identified a well-preserved, potentially historic residence along Fulton County 7-2 as well as residences near one another. To reduce impacts on residences in the area and avoid the potentially historic residence, the siting team shifted segment 50 to run along the south side of I-80/I-90 and cross the Delta Raceway Park. The siting team also identified opportunities to use the area on either side of I-80/I-90 and added study segments in this area. Other areas of opportunity identified during the field review where the siting team added new segments included: the area directly south of the Norfolk Southern railroad corridor east of Delta; directly south of the Norfolk Southern railroad corridor south of the NorthStar Steel facility; and along the north side of NorthStar Steel's property, south of US-20A. As a result of these changes, 79 study segments were developed.

3.3.4 Developing Alternative Routes

Once the study segment network was refined, 526 unique alternative routes were developed starting with segments 2, 3, 4, 5, 6 or 79 and continuing west towards the proposed Melbourne Substation (Appendix B). Segments were combined to progress north, south, or west toward the substation site while avoiding segments that would loop back east.

3.4 Evaluating Alternative Routes

The next step in the route selection study was to evaluate the 526 alternatives routes. Alternative routes were assessed and compared with natural and cultural resources, land uses, and engineering and construction concerns considered. Ultimately, through a quantitative and qualitative analysis and comparison of the alternative routes, the siting team identified routes to present to stakeholders and the public for comment.

3.4.1 Evaluation Criteria and Process

Based on the publicly available data assembled to identify opportunities and constraints within the study area, the siting team developed a set of evaluation criteria to quantitatively compare the alternative routes to one another (Appendix C). The data used to evaluate and compare the routes were chosen based on their relevance to siting a transmission line within the Project's study area and grouped into four categories: ecological, cultural, land use, and technical.

For comparison of the alternative routes, raw data for each data category and each route were collected, quantified, and then normalized to a dimensionless parameter. Lower scores indicate "more favorable" conditions, higher scores indicate "less favorable" conditions. Normalizing the data allows all the constraints to be compared according to the same scale and avoids one constraint being unintentionally influential. It also allows each category to be weighted based on the constraints and opportunities identified within the study area and their importance to the Project. The following formula was used to normalize the raw data:

Normalized Score = ((Xij – [Min Value]j) / Range) *100

where: i = xth value in constraint and j = constraint

This normalizing method uses the established range of collected data in a particular category to compare all route options to one another and avoids one constraint category being unintentionally influential.

The next step in this process was to weigh the criteria within each category and across the four categories (ecological, cultural, land use, and technical). Weighting recognizes that under certain circumstances, one evaluation criterion is more important or relevant than another in determining an outcome. The criteria weighting values were determined by consensus of the siting team and based on the specific Project area setting and professional judgment of the siting team members' experience routing projects in a similar setting. The criteria weighting values are included in Appendix C. Based on the constraints and opportunities identified within the Project area, the siting team determined the following criteria to be most important: number of residences near the route, woodlots (removal), number of landowners impacted, and paralleling existing linear features. These criteria were assigned weighting values that yield the most influence on the route scores.

The criteria were measured and calculated to assess potential impacts and benefits. For ecological constraints, impacts to woodlots and NWI wetlands were measured within the proposed right-of-way to account for construction and clearing of trees, while stream impacts were measured by the number of crossings to account for potential permitting requirements. Residences were counted within 250 feet and out to 1,000 feet from the route centerlines to measure potential direct impacts from the alternative route as well as potential aesthetic impacts. Length of route and paralleling existing transmission line were both measured in units of distance to account for costs and reducing impacts to current land use. In addition, there were various other constraints and attributes that were measured (either in units of distance or total occurrences) along the centerline.

Across the four categories, the land use category was weighted the highest (40 percent), followed by ecological (30 percent), technical (20 percent), and lastly cultural (10 percent).

The siting team assigned the highest weight of 40 percent to the land use category to reflect the priority of minimizing impacts on residents and aesthetics of the area. The land use weighting reflects impacts on

residences within 1,000 feet of the alternative routes. The ecological category was assigned a 30 percent weight to reflect ecological considerations in the study area due to the presence of forested lands and wetland and stream crossings. The technical category was assigned a 20 percent weight to account for the engineering challenges associated with constructing a 345 kV transmission line and the potential for paralleling existing linear corridors to decrease land use impacts in a rural, agricultural community. The study area contains few notable historic or archeological features based on the desktop reviews; therefore, the cultural category was weighted the lowest at 10 percent.

3.4.2 Initial Scoring and Ranking Results

The first step in the route evaluation process involved quantitative scoring and ranking the 526 unique alternative routes to gain an understanding of how the alternative routes compared to one another given the expansive study area and various constraints and opportunities in the area (see Appendix D). Based on the initial scoring and ranking, alternative routes paralleling the existing Fulton-NorthStar 345 kV Transmission Line and I-80/I-90 scored the most favorable, followed by routes along the 138 kV/railroad corridor. The alternative routes in the southern part of the study area (all the routes that started with segment 6) scored the least favorable. Due to the routes in the southern part of the study area scoring the worst in the initial round of scoring, these routes were dropped from future consideration.

3.4.3 Corridor Scoring and Ranking Results

Typically, at this stage in the siting process, the top ranked alternative routes would be identified and evaluated in more detail in the siting study. However, based on the initial scoring and ranking results, the siting team recognized that the top 60 ranked routes were very similar to one another, and selecting from this group of routes would not meet the OPSB requirement that alternative routes have no more than 20 percent of their length in common. The top ranked alternatives are also all near the existing 345 kV transmission line and I-80/I-90 corridor so proceeding with just these alternatives would disregard siting opportunities in other parts of the study area. To ensure the OPSB requirement for alternative routes was met and continue to consider routes throughout the study area, the siting team grouped the alternative routes into two general corridors (northern corridor and central corridor), primarily based on the initial conceptual route corridors developed in the early stages of route development. Alternative routes grouped in the northern corridor included all the routes with segments along the existing 345 kV transmission line and I-80/I-90 corridor. Alternative routes grouped in the central corridor included all the routes comprised of segments along the 138 kV/railroad corridor and segments south of Delta. Once the routes were grouped, quantitative scoring and ranking was completed again to gain an understanding of how the alternative routes compared to one another within the northern and central corridors (Appendix E).

3.4.3.1 Northern Corridor Route Evaluation

Table 3-1 presents the top 12 alternative routes by overall score for the northern corridor. Like the initial scoring and ranking results, many of the top ranked alternatives were very similar, with only one or two segments different. The siting team chose to keep the top ranked alternatives and eliminate any lower ranked route variations that did not present a different option for connecting to the Melbourne Station in the western part of the study area. Based on this, five alternative routes were identified: Route 382, Route 252, Route 392, Route 266, and Route 394 (Figure 7).

Table 3-1. Northern Corridor Alternative Route Evaluation Scores

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
382	5,35,36,37,75,50,69,80	2.6	16.0	13.5	51.8	18.1	1
252	4,17,32,37,75,50,69,80	8.4	16.0	10.6	50.0	18.4	2
392	5,35,38,73,71,64	12.7	0.0	16.2	42.4	18.8	3
388	5,35,38,49,75,50,69,80	2.9	16.0	16.6	51.2	19.4	4
384	5,35,36,37,75,74,72,71,64	11.3	0.0	13.8	57.6	20.4	5
267	4,17,32,37,75,74,72,71,64	17.1	0.0	10.9	55.8	20.6	6
378	5,35,36,37,49,73,71,64	12.3	0.0	14.8	55.9	20.8	7
261	4,17,32,37,49,73,71,64	18.1	0.0	11.9	54.1	21.0	8
383	5,35,36,37,63,74,75,80	7.0	27.0	17.9	46.8	21.3	9
266	4,17,32,37,75,74,63,80	12.8	27.0	15.0	45.0	21.6	10
394	5,60,62,64	25.0	0.0	10.7	48.9	21.6	11
390	5,35,38,49,75,74,72,71,64	11.7	0.0	16.9	56.9	21.6	12

Note:

Routes grayed out were eliminated by the siting team as they are lower ranked variations of the top ranked routes.

Route 382 begins near the existing Fulton Substation and runs west, paralleling the existing Fulton-NorthStar 345 kV Transmission Line for approximately 4.0 miles. The route then cuts south, crossing the existing 345 kV transmission line and I-80/I-90 before continuing west along the south side of I-80/I-90 for another 1.7 miles. West of the Delta Reservoir, Route 382 runs south then southwest through agricultural fields and crosses US-20A. The route then runs west along the north side of North Star BlueScope Steel's facility before turning south and paralleling the existing Fulton-NorthStar 345 kV Transmission Line into the Melbourne Substation.

Route 252 begins along the existing Dowling-Fulton 345 kV Transmission Line just south of I-80/I-90 and runs west, paralleling the south side of I-80/I-90 for approximately 5.8 miles. West of the Delta Reservoir, Route 252 runs south then southwest through agricultural fields and crosses US-20A. The route then runs west along the north side of North Star BlueScope Steel's facility before turning south and paralleling the existing Fulton-NorthStar 345 kV Transmission Line into the Melbourne Substation.

Route 392 begins near the existing Fulton Substation and runs west, paralleling the existing Fulton-NorthStar 345 kV Transmission Line and I-80/I-90 for approximately 7.9 miles. West of County Road 10, the route runs south, crossing I-80/I-90 and running through agricultural fields for approximately 1.9 miles until it connects into the Melbourne Substation.

Route 266 begins along the existing Dowling-Fulton 345 kV Transmission Line just south of I-80/I-90 and runs west, paralleling the south side of I-80/I-90 for approximately 6.3 miles then parallels the existing Fulton-NorthStar 345 kV Transmission Line for another 1.3 miles. Just before County Road 10, the route turns south and continues to parallel the existing Fulton-NorthStar 345 kV Transmission Line until it connects into the Melbourne Substation.

Route 394 begins near the existing Fulton Substation and runs west, paralleling the existing Fulton-NorthStar 345 kV Transmission Line for approximately 3.6 miles. Between County Road 5-2 and County Road 6-2, the route angles northwest, cutting across the middle of agricultural fields between I-80/I-90 and County Road J for approximately 3.4 miles. Route 394 then runs southwest, crossing I-80/I-90 west of County Road 10, then runs south through agricultural fields for approximately 1.9 miles until it connects into the Melbourne Substation.

3.4.3.2 Central Corridor Route Evaluation

Table 3-2 presents the top 12 alternative routes by overall score for the central corridor. Similar to the northern corridor, many of the top ranked alternatives were very similar, with only one or two segments different. The siting team chose to keep the top ranked alternatives and eliminate lower ranked route variations. Route 18 (ranked 12) is completely different from any of the other top ranked alternatives in the central corridor and is further south within the study area. Therefore, the siting team chose to keep this route to continue to consider routes throughout the study area.

One opportunity for routes in the central corridor is to rebuild the existing Delta-Fulton 138 kV Transmission Line and Delta-Wauseon 138 kV Transmission Line as a double circuit 138/345 kV transmission line, thereby reducing land use impacts in the study area. The second ranked route (Route 149) includes a double circuit for approximately 64 percent of the route compared to only 46 percent on the top ranked route (Route 442). Therefore, the siting team chose to keep this route option for further evaluation. Based on this, three alternative routes were identified: Route 442, Route 149, and Route 18 (Figure 8).

Table 3-2. Central Corridor Alternative Route Evaluation Scores

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
442	79,81,11,16,23,25,31,33, 45,47,48,52,65,67	25.1	69.0	20.5	24.2	27.5	1
149	3,11,16,23,25,31,33,45, 47,48,52,65,67	23.8	69.0	26.7	16.4	28.0	2
443	79,81,11,16,23,25,31,33, 45,47,48,52,84,76,70,67	25.5	54.0	22.1	31.6	28.2	3
150	3,11,16,23,25,31,33,45, 47,48,52,84,76,70,67	24.1	54.0	27.6	23.8	28.4	4
48	2,8,81,11,16,23,25,31,33, 45,47,48,52,65,67	31.8	30.0	25.0	34.6	29.4	5
49	2,8,81,11,16,23,25,31,33, 45,47,48,52,84,76,70,67	32.1	15.0	26.5	42.0	30.1	6
500	79,78,14,20,29,43,44,55, 76,70,67	37.9	39.0	19.2	46.1	32.2	7
450	79,78,77,82,23,25,31,33, 45,47,48,52,65,67	28.7	69.0	26.6	30.4	32.2	8
446	79,81,11,83,77,82,23,25, 31,33,45,47,48,52,65,67	29.5	69.0	25.7	31.7	32.4	9

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
497	79,81,11,83,14,20,29,43, 44,55,76,70,67	38.7	39.0	19.0	47.3	32.5	10
441	79,81,11,16,23,25,31,33, 45,47,52,53,69,80	41.2	70.0	21.6	23.0	32.6	11
18	2,7,13,28,43,44,55,76,70, 67	45.7	0.0	19.9	55.9	32.8	12

Note:
Routes grayed out were eliminated by the siting team as they are lower ranked variations of the top ranked routes.

Route 442 begins along the existing Dowling-Fulton 345 kV Transmission Line just south of the Norfolk Southern Company railroad. From here, the route runs west, paralleling the south side of the railroad for approximately 2.0 miles. The route then jumps to the north side of the railroad and continues west for another 1.6 miles. Just before the Village of Delta, Route 442 runs southwest, crossing the railroad and US-20A and runs through agricultural fields before continuing west and crossing South Madison Street. West of South Madison Street, the route runs northwest, crosses the railroad again, then continues west along the north side of the railroad until it connects into the Melbourne Substation.

Route 149 is almost identical to Route 442, the only difference being Route 149 begins along the existing Dowling-Fulton 345 kV Transmission Line just north of the Norfolk Southern Company railroad. From here, the route runs west, paralleling the north side of the railroad for approximately 3.7 miles, rebuilding the Delta-Fulton 138 kV Transmission Line as a double circuit 138/345 kV transmission line. Like Route 442, just before the Village of Delta, Route 149 runs southwest, crossing the railroad and US-20A and runs through agricultural fields before continuing west and crossing South Madison Street. West of South Madison Street, the route runs northwest, crosses the railroad again, then continues west along the north side of the railroad until it connects into the Melbourne Substation.

Route 18 begins the furthest south along the existing Dowling-Fulton 345 kV Transmission Line, south of US-20A. From here, the route runs west across agricultural fields for approximately 2.0 miles before turning south for another 1.1 miles, crossing the Wabash Cannonball Trail. Route 18 then runs west through agricultural fields for another 4.3 miles until it crosses the Indiana & Ohio Railway elevated railroad. The route then runs north paralleling the railroad for 0.8 mile before running west for 1.1 miles south of the Norfolk Southern railroad before turning north, crossing the railroad and connecting to the Melbourne Substation.

3.4.4 Alternative Routes Discussion

The siting team met to discuss the five alternative routes from the northern corridor and three alternative routes from the southern corridor and select the routes to advance to public and stakeholder meetings.

3.4.4.1 Northern Corridor Routes

For the northern corridor routes, qualitative factors were a key part of selecting the routes to proceed with because the quantitative scores between the five alternative routes were so similar. Qualitative factors considered included crossing the existing Fulton-NorthStar 345 kV Transmission Line and I-80/I-90,

impacts to future development opportunities west of Delta and on Worthington Steel property and impacts to the existing 138 kV transmission lines in the project area.

Routes 382, 392 and 394 all cross the existing Fulton-North Star 345 kV Transmission Line adjacent to the Fulton Substation and Route 382 crosses the transmission line again, as well as I-80/I-90, halfway along the route. Due to the number of transmission lines in and around the Fulton Substation and the voltage of these lines, an outage would need to be taken on the existing Fulton-North Star 345 kV Transmission Line during construction of any of these routes for safety reasons. Along Route 382, where it crosses the existing 345 kV transmission line and I-80/I-90, another outage on the Fulton-NorthStar 345 kV Transmission Line would be needed to complete this crossing. North Star Steel will have to take an outage and stop production during any construction that requires the Fulton-North Star Steel 345 kV Line to be outaged, and therefore the extent and number of outages required to complete the construction should be minimized.

In addition to requiring an outage on the existing 345 kV transmission line, the siting team discussed engineering challenges where Route 382 crosses the existing 345 kV transmission line and I-80/I-90. Due to the height of the existing 345 kV transmission line (125 feet) as well as the span length needed to cross both the transmission line and the I-80/I-90 ROW (approximately 660 feet), two very tall transmission structures would be needed to complete the crossing. Although the existing transmission line is along the north side of I-80/I-90, these tall structures would have a visual impact to the area, especially to residences along County Road H and County Road J near the crossing.

The area west of Delta has undergone rapid commercial and industrial development over the past eight years with construction of NatureFresh Farms greenhouse, BlueScope Recycling and Materials, and Fulton County Processing. Proposed/current developments include Nova Tube & Steel, LLC's two new electric resistance welding tube mills, and Tricounty Rural Electric Cooperative, Inc. Winameg Area Substation. Routes 382 and 252 both run south then southwest bisecting five large open agricultural parcels adjacent to these developments. As the proposed Project requires a ROW of 150 feet, a 345 kV transmission line through this area would impact any future commercial/ industrial developments on these parcels. The agricultural parcels are surrounded on three sides by the Village of Delta's incorporated area, and a former agricultural parcel was included in the site where the Nova Tube Structural Steel facility was constructed.

During discussions with Worthington Steel as part of Melbourne Substation's site evaluation, the company indicated it has plans for future development directly north of the current facility. A new business has recently been constructed in the northeast corner of Worthington Steel's property. Routes 392 and 394 bisect Worthington Steel's property which would impact potential future developments in this area by Worthington Steel. The siting team considered shifting the routes to reduce impacts on Worthington Steel's property but due to the development in the northeast corner of the parcel, residential developments along County Road 10, and the Village of Delta water tower along County Road 10, shifting Routes 392 and 394 would require either crossing the existing 345 kV transmission line or take of some residences along County Road 10.

Lastly, in the northwest corner of North Star BlueScope Steel's property, the Delta-Wauseon 138 kV Transmission Line runs east to west along the south side of US-20A before running north along SR-109, providing power to commercial and industrial businesses in the area. As Routes 382 and 252 also run along the south side of US-20A, the siting team considered rebuilding the Delta-Wauseon 138 kV Transmission Line in this area as a double circuit 138/345 kV transmission line for approximately 0.2 mile. These routes would require an outage to be taken on the Delta-Wauseon 138 kV Transmission Line,

impacting the commercial and industrial businesses. Even if the Delta-Wauseon 138 kV Transmission Line was not rebuilt as a double circuit and was just crossed by Routes 382 and 252, an outage would still be required.

Based on the qualitative and quantitative factors discussed and considered, the siting team selected Route 266 as the best route from the northern corridor to proceed with in the siting study and dismissed the other alternative routes. Route 266 does not cross the existing Fulton-North Star 345 kV Transmission Line; therefore, an outage would not be required to construct this route. Route 266 also avoids the area west of Delta and the northwest corner of North Star BlueScope Steel's property, so it will not impact future commercial/industrial development in this area. It also will not impact existing commercial/industrial businesses in the area because it would not require an outage along the Delta-Wauseon 138 kV Transmission Line. Lastly, where Route 266 parallels the existing Fulton-North Star 345 kV Transmission Line, the ROW can be reduced, thereby further reducing impacts to future land use in the area between North Star BlueScope Steel's property and I-80/I-90. Route 266 was selected and advanced to the public information meeting to seek input from property owners and other stakeholders.

3.4.4.2 Central Corridor Routes

For the central corridor routes, qualitative factors were considered when selecting between Route 442 and Route 149 as the routes are identical except for a short segment at the eastern end of the routes. Route 442 begins south of the Norfolk Southern Company railroad to avoid a residence north of the railroad along County Road 4, then crosses to the north side of the railroad. Route 149 runs along the north side of the railroad and has a slight deviation to avoid impacting the residence. In reviewing Route 442, crossing the railroad then immediately turning west and double circuiting the 138 kV transmission line would be challenging from an engineering design and construction perspective. Route 442 would also impact landowners not already crossed by a transmission line whereas Route 149 would use an existing utility corridor. To reduce land use impacts in the area, the siting team selected Route 149 to proceed with and removed Route 442 from consideration.

For Route 18, the siting team considered both qualitative and quantitative factors. Compared to Route 149, Route 18 has fewer residences within 1,000 feet of centerline and less woodlots within the ROW. However, the route is longer and does not parallel existing linear infrastructure. Qualitatively, Route 18 is a true greenfield route that crosses agricultural land and avoids the railroad corridor, double circuiting the 138 kV transmission line and crossing North Star BlueScope Steel's property. New landowners would be impacted by the transmission line and new access roads would be required for construction, but due to limited constraints and turn angles, there is potential for longer spans between transmission line structures. The siting team agreed to proceed with Route 18 because the route provides an option of routing the transmission line further away from Delta and residences within the study area. Both Route 149 (with the modification discussed in Section 3.5.1 below) and Route 18 were selected and advanced to the first public information meeting.

3.5 Public and Stakeholder Engagement

Following selection of the northern corridor route (Route 266) and two central corridor routes (Route 149 and Route 18), ATSI held a stakeholder meeting and a public information meeting to present the Project and alternative routes and solicit comments from stakeholders and the public to incorporate in the siting considerations. For the public and stakeholder meetings, Route 266 was labeled the Northern Route

Alternative, Route 149 was labeled the Central Route Alternative, and Route 18 was labeled the Southern Route Alternative.

3.5.1 Stakeholder Engagement

ATSI held a stakeholder meeting on January 26, 2022, with North Star BlueScope Steel, Worthington Steel, and economic development groups (Jobs Ohio, Fulton County Economic Development, Regional Planning) within the study area. Prior to the meeting, minor engineering adjustments were made to the three routes to ensure ATSI was presenting the most accurate alignments at this stage in the siting process.

The feedback received included information on future industrial development areas around Delta and the potential for development or expansions on the north side of North Star BlueScope Steel property. Based on the feedback received from stakeholders, the siting team adjusted Route 149 to avoid crossing a possible future industrial development area south of US-20A and reduce impacts to a possible future industrial development area west of the Village of Delta.

3.5.2 Public Information Meeting

In early August 2022, ATSI mailed notification letters to property owners to inform them of the public information meeting. The notifications were mailed to property owners that were either crossed by one of the three proposed alternative routes, or owned land parcels that adjoined the crossed parcels. Other information that accompanied the notification letters included a fact sheet summarizing the Project, a map illustrating the proposed routes, and information about accessing a web-based interactive map where property owners could view the routes in more detail and submit written comments. Additionally, a virtual open house website was established by ATSI which provided stakeholders with a summary of the Project need and purpose, transmission line pole types, vegetation management, environmental permitting, real estate negotiations, and a map of alternative routes. ATSI also included other local stakeholders such as municipal officials and elected officials in the notification mailings.

The public information meeting was held on August 24, 2022, from 6:00 pm to 8:00 pm at the American Legion Hall in Delta, Ohio (5939 State Route 109, Delta, OH 43515). The siting team set up stations at the meeting and provided information related to engineering and design of the structures, Project need, real estate and right-of-way information, vegetation management, and the siting process. Detailed maps of the three alternative routes (Northern Route Alternative, Central Route Alternative, and Southern Route Alternative) were available for viewing and Project staff members were present for questions and to listen to public comments. Figure 9 shows the route alternatives presented at the public information meeting.

In addition to the siting team interacting with attendees and listening to comments, comment sheets were distributed to attendees, who were asked to fill out the sheet including contact information. Approximately 72 members of the public attended the meeting, and 20 written comments were collected including two comments received via e-mail and one comment via the website subsequent to the meeting. Additionally, three comments from owners were transcribed by ATSI's real estate staff during discussions. The majority of the commentors (11) own properties that coincide with the southern alternative route while the next highest number of comments (8) were provided by property owners associated with the northern alternative route.

Of the commentors that voiced opposition to a particular route, the majority of the disapproval was directed toward the southern alternative route. Many of the same commentors expressed favor for the northern route based on the corridor having existing and similar infrastructure (i.e., the Fulton-North Star 345 kV Transmission Line and I-80/I-90). A smaller number of commentors, owning land on the northern route, opposed the route for reasons including: agricultural crop operations, proximity to one residence, and visual aesthetics. Representatives of North Star BlueScope Steel expressed disapproval of the central route due to its interference with current operations in the southern portion of their facility grounds including processing of materials using cranes or similar height equipment for stockpiles. Written comments from the first public information meeting were reviewed and recorded in the Project database as a record of meeting attendance and property owners' comments.

Based on the input provided by stakeholders and property owners, the siting team made adjustments to the Central and Northern Route Alternatives. Further details of the route adjustments are discussed in Section 3.6.

3.6 Route Adjustments and Second Scoring of Routes

3.6.1 Route Adjustments

As mentioned, input from stakeholders resulted in the siting team making minor and major adjustments to various alternative routes under consideration. The input and new information were received from local officials and stakeholders during the January 26, 2022, meeting, property owner comments from the public information meeting (August 24, 2022), and new information gathered by the siting team on land use and newly developed properties or development plans.

Given the adjustments that were made to various routes throughout the public engagement, information gathering, and exploration phase of the study, the siting team reevaluated and rescored 212 routes. The purpose of rescoring was to determine whether route adjustments changed the route rankings.

The following segments from the refined study segment network were removed from the second round of route analysis, scoring, and ranking of the alternatives for the reasons noted (Figure 10):

- Segments 5, 35, 36, 38, 49, 60, 61, 62, 64, 71, 72, 73 were eliminated because they comprise routes that are north of I-80/I-90 or are located west of County Road 10 and the North Star BlueScope Steel facility. Route segments west of County Road 10 would encroach on Worthington Steel's property where there is potential for future expansion or other development and could constrain future development opportunities in the agricultural land between I-80/I-90 and Worthington Steel. Route segments north of I-80/I-90 were eliminated due to crossing the existing Fulton-North Star 345 kV Transmission Line which would require an extensive outage of this line and construction of at least two large angle structures. Other segments north of I-80/I-90 would impact many of the same agricultural land parcels and property owners that are crossed by the Fulton-North Star 345 kV Transmission Line and right-of-way for 6.2 miles. These routes were eliminated due to other northern alternative routes having fewer constraints and a higher rank in scoring.
- Segments 50, 53, and 69 were eliminated because segment 50 passes diagonally through a potential commercial development area northwest of the Village of Delta, in the same vicinity as a manufacturing or industrial site under development. Based on the potential for land use conflicts and constrained future development, segment 50 and the linked segments 53 and 69 near the North Star BlueScope Steel facility were eliminated.

- Segments 24, 31 and 34 were eliminated based on information received from local county and township officials during the January 26, 2022, meeting. Segment 34 crosses through agricultural lots that are on the southern border of the Village of Delta and surrounded by small commercial businesses. The officials indicated that this area offers benefits as future commercial development sites and requested the area be avoided. Segment 24 travels north to south in the area northeast of the Village of Delta. The segment bisects through 1.7 miles of agricultural land as compared to numerous other segments that can be located along the perimeter of agricultural parcels, thus lessening impacts to agricultural operations.
- Segments 6, 12, 26, 27, 39, 40, 41, 42, 56, 57, and 58 were previously eliminated from the southern part of the study area because all southern routes were at the bottom of the route rankings resulting from the initial scoring and ranking of 526 alternative routes.

In addition to removing study segments from the second scoring process, the siting team also adjusted specific segments associated with the routes presented at the January 26, 2022, meeting with local officials and the public information meeting. The adjustments are illustrated in (Figure 11) and the rationale for each adjustment is provided below.

3.6.1.1 Northern Alternative (Route 266) Adjustment (Study Segment 75)

Prior to the OPSB jurisdictional public meeting and the second scoring of the alternative routes, the siting team identified the need to modify study segment 75 to minimize impacts to the Delta Raceway's racetrack and business operations. Figure 11 illustrates the route adjustments compared to the original Route 266. The team shifted the route segment on this property from the northern property line, which adjoins I-80/I-90, to the southern and eastern property boundary. This adjustment will result in the addition of two turn angles and additional tree removal but is expected to minimize impacts to racing operations (e.g., grandstand area and vending or restroom facility) to the extent possible.

3.6.1.2 Central Route Alternative (Route 149) Adjustment (Multiple Study Segments)

Several modifications were made to the Central Route Alternative (Route 149) after the first public information meeting based on input received from property owners and stakeholders as shown in Figure 11. Several of the study segments that make up the western part of Route 149 were modified or removed, and a new segment was created. There were two primary drivers for the route modification. The North Star BlueScope Steel facility representatives commented that the Central Route Alternative (segment 65) crosses the southern portion of their facility for 1.4 miles. A portion of this route coincides with locations of stockpile storage of raw materials, as well as a railroad spur, which involves large handling equipment (tall and long reach). A transmission line would negatively impact their operations and movement of these materials. Additionally, the eastern end of the facility contains retention ponds and wet areas the transmission line would need to span. The company representatives expressed their opposition to the Central Route Alternative for these reasons.

Secondly, the siting team identified an opportunity to improve the Central Route Alternative in the vicinity of Road FG located southeast of the North Star BlueScope Steel facility property. The team decided to use a portion of segment 76 (modified to parallel more along the south side of the railroad) and to create a new segment to extend further eastward across Road FG then further east to County Road 109 as a crossing point. This alignment provides a slightly shorter route across 1.1 miles of agricultural land and between two residences (maintaining sufficient distance of 210 feet between the route centerline to each residence). Additionally, the team identified an opportunity to reduce impacts and avoid crossing through

the middle of agricultural land (for 0.9 mile) east of County Road 5-2. Instead, segment 18 was incorporated into Route 149. Segment 18 parallels County Road 5-2 north to the railroad where the route then turns to the east to parallel the railroad. The adjustment also results in paralleling more of the Norfolk Southern railroad and double circuiting the existing Delta-Wauseon 138 kV transmission line.

3.6.2 Second Scoring and Ranking of Alternative Routes

With the adjustments to Route 266 (Northern Route Alternative) and Route 149 (Central Route Alternative) complete, as well as minor modifications to other individual route segments, the siting team performed a second quantitative scoring and ranking of the alternative routes (Appendix F). The same siting criteria and methodology was followed, as described in Section 3.4. The primary objective of rescoring the routes was to confirm that the previous route rankings had not significantly changed after the route adjustments discussed in the preceding sections. This step assisted the siting team in narrowing the options to two optimal alternative routes to be presented for feedback at the OPSB jurisdictional public meeting held on December 7, 2022.

For purposes of selecting two alternative routes for the Project, 212 alternative routes were analyzed and scored, as opposed to the first scoring and ranking of routes (discussed in Section 3.4.3) where it was necessary to group the routes into two general corridors (northern corridor and central corridor).

Based on the written comments from the August 24th public information meeting, the majority of property owners' comments were in opposition to the Southern Route Alternative (Route 18 with adjustments) compared to the Northern Route Alternative. Given the relative level of opposition, the siting team had come to the decision following the public meeting that Route 18 (and all central corridor routes where there is extensive length crossing or bisecting agricultural cropland) would not be advanced as a routing option. Nonetheless, the central corridor routes were included in the second scoring and ranked for comparison to other alternative routes after the route adjustments discussed above.

Table 3-3 presents the top 39 alternative routes by overall score, individual criteria scores, and overall rank. The top three ranked routes include northern routes, one of which was presented at the first public meeting (Route 266).

Table 3-3. Alternative Route Ranking Results (Second Scoring of 212 Alternative Routes)

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
266	4,17,32,37,63,74,75,80	20.9	27.0	16.3	44.9	24.5	1
306	4,9,11,14,20,29,43,44,55, 67,70,76,83	32.6	0.0	23.6	55.2	30.3	2
266 Mod	4,17,32,37,63,74,75,80 (with modifications)	40.2	12.0	17.9	50.9	30.6	3
307	4,9,11,14,20,29,43,44,59, 66,67,70,83	30.1	0.0	28.2	53.1	30.9	4
500	14,20,29,43,44,55,67,70, 76,78,79	32.2	39.0	16.9	53.7	31.1	5
354	4,9,14,20,29,43,44,55,67, 70,76,78,81	31.9	0.0	23.9	59.8	31.1	6

Route	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Overall Rank
133	3,11,14,20,22,28,43,44,55,67,70,76,83	31.4	39.0	25.0	39.8	31.3	7
149	3,11,16,23,25,31,33,45,47,48,52,65,67	33.4	69.0	29.9	15.7	32.0	8
Routes ranked 9th through 38th were eliminated (all utilize southern segments of central corridor or circuitous routing)		N/A	N/A	N/A	N/A	N/A	9-38
149 Mod	3,11,16,23,25,31,33,45,47,48,52,65,67 (with modifications)	31.0	39.0	42.0	27.3	35.5	39

Note:
Routes grayed out were eliminated by the siting team as explained within this section.

As noted above, the siting team decided to not advance the southern-most routes within the central corridor (including Route 18 with adjustments) which largely bisected agricultural cropland and were opposed by many property owners. Of the top 50 alternative routes (out of a total of 212 routes), 44 of them consisted of the southern-most study segments which are part of the original central corridor. The siting criteria used in the quantitative scoring favor these routes, however, property owner and stakeholder opinions were weighed foremost by the siting team in deciding to not advance these alternative routes.

The 2nd ranked route, as well as the 13th and 29th ranked routes, consisted of longer circuitous routes that are a combination of central corridor and northern corridor segments. Although the extensive crossing of agricultural land and co-location with other linear infrastructure (including the railroad, the 138 kV line and I-80/I-90) resulting in high rankings, the routes involve up to an additional 2 miles of route length and additional parcels being crossed. Therefore, these three route alternatives were not advanced by the siting team.

Route 266 and Route 266 Modified ranked 1st and 3rd, respectively. Based on the scoring and modifications to Route 266 to reduce impacts to the Delta Raceway's racetrack and business operations, Route 266 Modified was selected to be advanced and included for presentation during the OPSB jurisdictional public meeting

The alternative route that ranked 8th is the original Route 149 which impacts the material handling operations within the grounds of the North Star BlueScope Steel Facility. For this reason, Route 149 was eliminated from further consideration.

The modified Route 149 (using segments entirely south of the railroad on the western end of the route and avoiding conflicts with North Star BlueScope Steel's stockpile operations) is the 39th ranked route. Based on the adjustments to create this alternative route (Route 149 Modified), public comments and the siting team's effort to optimize this central route, this route was selected to be advanced and included for presentation during the OPSB jurisdictional public meeting.

In summary, the siting team selected the Route 266 Modified and Route 149 Modified as the two alternatives to advance for this Project, including presentation to property owners and stakeholders for comment at the OPSB jurisdictional public meeting held on December 7, 2022.

3.7 OPSB Jurisdictional Public Information Meeting

An OPSB jurisdictional public information meeting was conducted on December 7, 2022, from 6:00 pm to 8:00 pm at the American Legion Hall in Delta, Ohio (5939 State Route 109, Delta, OH 43515), which is in the middle of the study area. This location was selected because, pursuant to OAC Rule 4906-3-03, the meeting must be held in the area in which the Project is located so that landowners within the Project area can attend. The community was notified about the time and location of the meeting through the following means:

- All property owners having land crossed by the two proposed alternative routes, as well as immediately adjacent landowners were sent letters on November 18, 2022, notifying them of the public information meeting and ATSI's website containing Project details.
- A public notice was also posted in local newspapers, including the Swanton Enterprise, the Fulton County Expositor, and the Toledo Blade on November 22 and 24, 2022, in compliance with OPSB specifications.

The siting team set up stations at the meeting and provided information related to engineering and design of the structures, purpose of and need for the Project, real estate and right-of-way information, and the siting process. Detailed maps of the alternative routes were available for viewing and the Project staff members were present to answer questions and listen to public comments. Property boundaries were also indicated on the mapping with the unique parcel identification numbers referenced to each property owner.

Two alternative routes were presented in the meeting, the selected northern route (Route 266 Modified) and the central route (Route 149 Modified). Comment sheets were distributed, and attendees were asked to complete the form, including contact information. Approximately 30 members attended the meeting, and 13 comments were received. Of the 13 comments submitted, seven (7) were in favor of the northern alternative route. Also, two (2) comments received from property owners on the northern route expressed concerns with the transmission poles causing more difficult agricultural crop and equipment operations, as well as concerns about the total number of easements from all utilities that cross a single land parcel. One of the northern route property owners commented that the southern route alternative should be selected.

Four (4) comments were received from property owners on the southern route. Some of the four (4) commentors expressed interest in selling their property for purposes of constructing the transmission line and also mentioned concerns about perceived health effects from living adjacent to a high voltage transmission line. Written comments from the public information meeting were reviewed and recorded in the Project database as a record of meeting attendance and property owners' comments.

Based on the input provided by property owners, the siting team determined that no further adjustments to the northern or southern alternative routes were necessary.

3.8 Selection of the Preferred and Alternate Route

Following the OPSB public information meeting, the siting team selected Route 266 Modified and Route 149 Modified as the two alternatives to advance into the certificate application filing to the OPSB (Figure 12). The siting team established Route 266 Modified as the Preferred Route on the basis of the quantitative score/ranking results (3rd overall ranked route) coupled with qualitative considerations, most notably the input received from property owners and various stakeholders. The Preferred Route crosses or parallels the perimeter of several agricultural land parcels and/or parallels the existing Fulton-North Star 345 kV Transmission Line for nearly its entire length.

Route 149 Modified, which was ranked 39th out of the 212 total routes during the second scoring process, was selected as the Alternate Route. Nearly all higher ranked routes (rank 4th through 38th) were not considered viable alternatives based on the relative level of opposition from property owners because of impacts from bisecting numerous agricultural crop lands where no other linear infrastructure currently exists (greenfield), or adversely impacted the North Star BlueScope Steel Facility's material handling operations. The scoring of the alternative routes, including the Alternate Route, was completed assuming the new 345 kV pole structures for the selected route would incorporate, as an under-build configuration, certain sections of the existing Delta-Wauseon 138 kV line where the two lines run in parallel. FE engineers later determined that the Alternate Route, if selected, would be built as a stand-alone line corridor running parallel to the existing 138 kV line, where applicable. The siting team determined that this change will not affect the decision on the Preferred and Alternate Routes.

Several qualitative factors were taken into consideration, along with the quantitative scoring when selecting the Preferred and Alternate Route. The qualitative factors include:

- Comments received from property owners who own property on one (or more) of the alternative routes presented at the public information meetings. Additionally, input received from community officials on the preliminary alternative routes and possible conflicts with future land development.
- Viewshed and visual impact from the new transmission structures based on the number and location of residents, in particular along the Preferred Route (Route 266 Modified).
- The low feasibility of the new 345 kV transmission line crossing over the existing Fulton-North Star 345 kV transmission line, and I-80/90, presented extensive construction challenges and outages to customers.

Following selection of the Preferred Route, ATSI staff extensively evaluated the co-location of the northern Route 266 Modified with the existing Fulton-North Star 345 kV Transmission Line for purposes of meeting the company's policy for electrical reliability and redundancy. The Preferred Route is co-located (offset 100 feet) with the existing transmission line for 3.0 miles of the total 9.5-mile route. ATSI concluded that this co-location was acceptable and complies with the company's specifications.

4. Conclusions

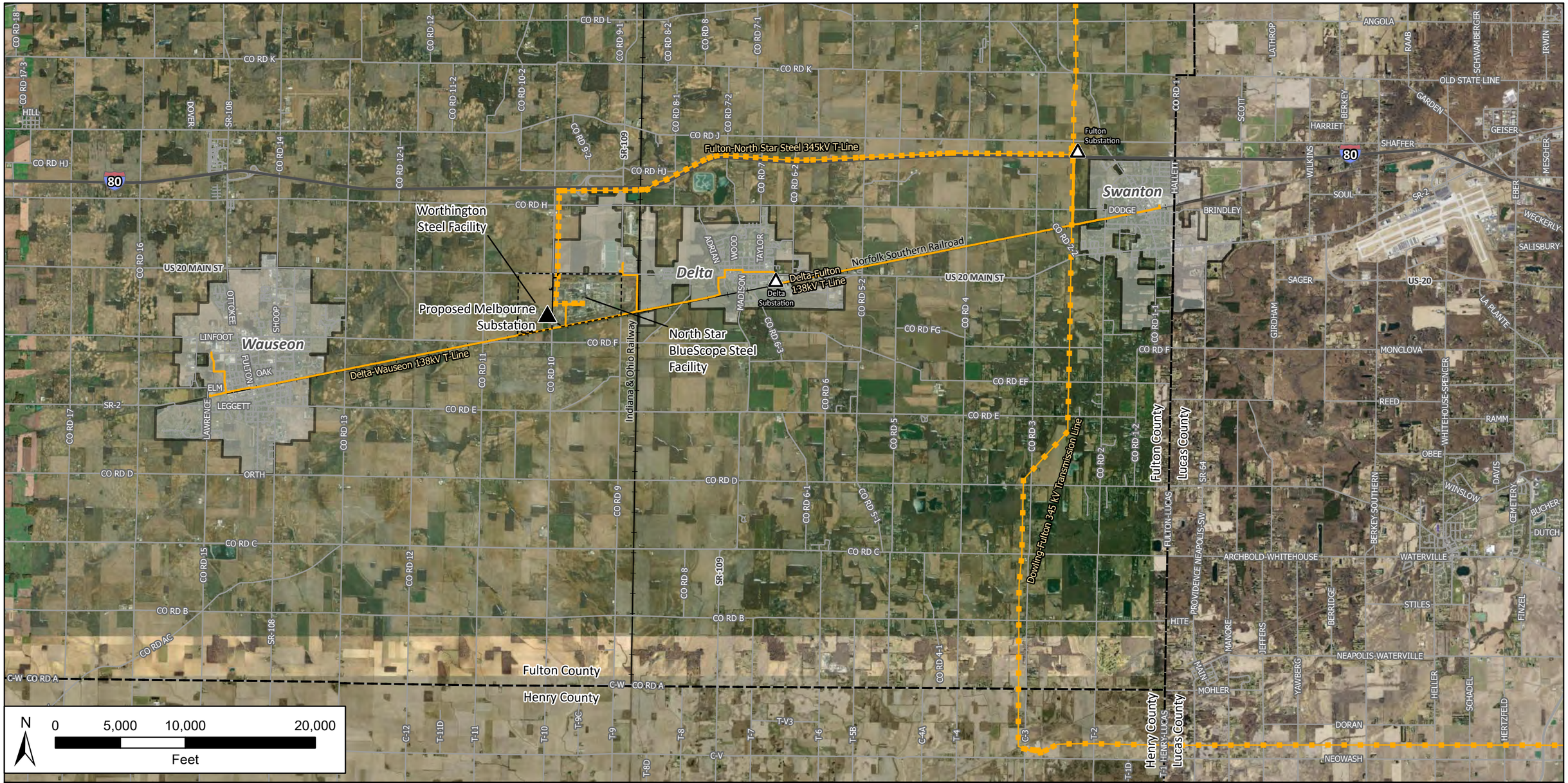
The siting team conducted a detailed Route Selection Study to identify and evaluate practical transmission alternatives for the Dowling-Fulton 345 kV Transmission Line Tap to Melbourne Substation Project. Using detailed constraint and opportunity data and through an iterative process, the siting team developed and initially evaluated 526 alternative routes. Based on the initial scoring and ranking results, alternative routes were grouped into three general corridors (the northern corridor, central corridor, and southern corridor), and from the scoring and ranking of these groups, three alternative routes (Northern Route Alternative, Central Route Alternative, Southern Route Alternative) were selected and presented at a public information meeting on August 24, 2022.

Following the public information meeting, the siting team made modifications to study segments and routes based on landowner feedback, then re-evaluated routes. Given the numerous route modifications necessitated by input from stakeholders and other opportunities to reduce impacts, a group of alternative routes (a total of 212) were re-evaluated through a second scoring and ranking. The northern Route 266 Modified ranked 3rd followed by numerous alternative routes (rank 4th through 38th) which used several common segments that were not viable based on earlier comments received from property owners. Among the route rankings, Route 149 Modified held the next best score and rank (39th), based on the rank and qualitative considerations (i.e., after the eliminating the aforementioned alternative routes due to public comments and potential conflicts with land use).

An OPSB-jurisdictional public information meeting was held on December 6, 2022, to present the two refined alternative routes from the second round of scoring and ranking. Based on comments received from property owners in attendance coupled with the route ranking and qualitative considerations, the siting team selected Route 266 Modified as the Preferred Route and Route 149 Modified as the Alternate Route to advance into the certificate application filing to the OPSB.

Appendix G
Second Round Scoring Results

Figures



Legend

- Proposed Melbourne Substation
- Existing Substations
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- Roads
- Interstates
- Railroad
- Corporation Limits
- County Boundary

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

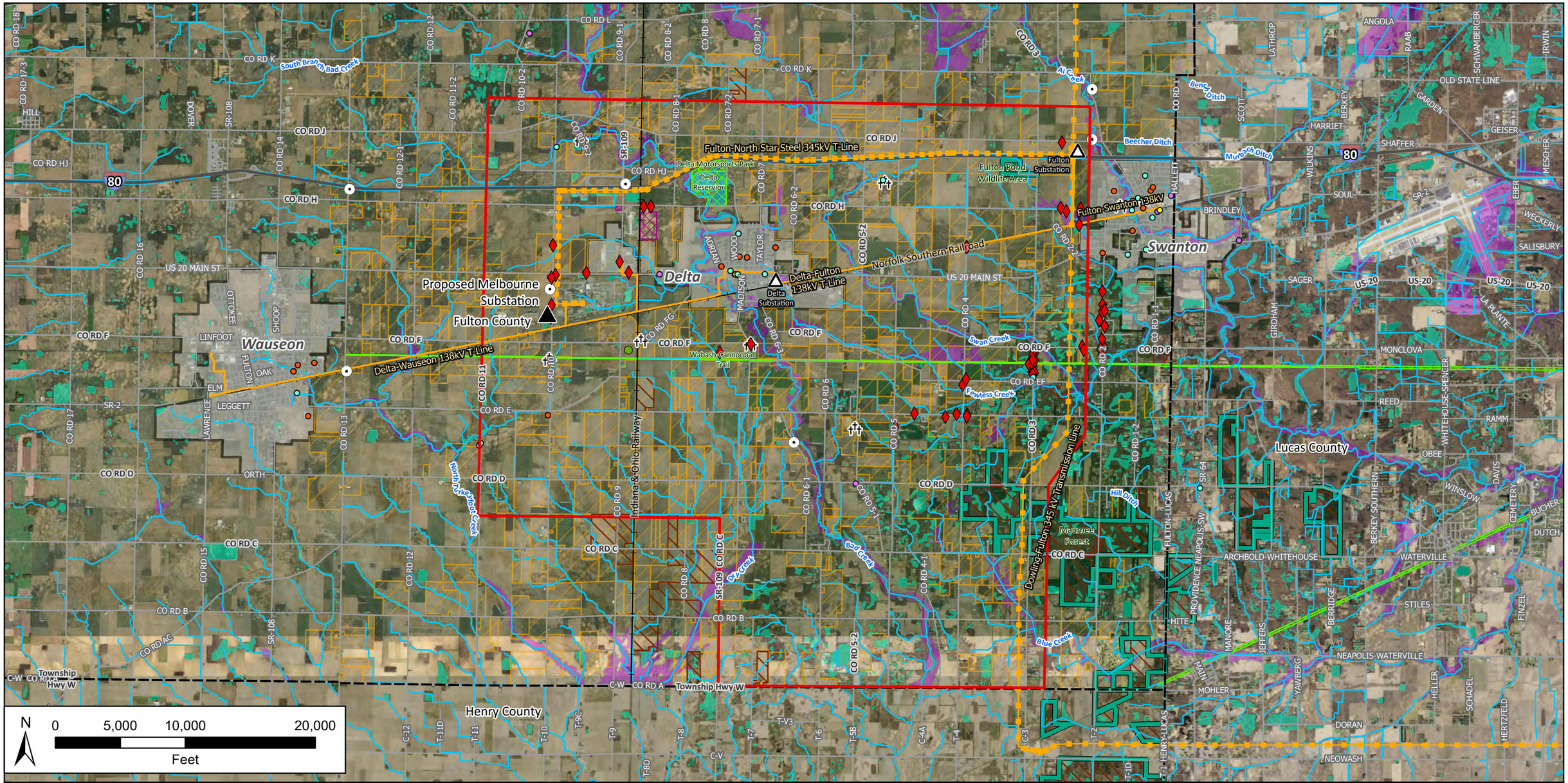


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 1
Project Overview

1/31/2023

ATSI
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.



Legend

- Proposed Melbourne Substation
- Study Area
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- National Register of Historic Places (NRHP)-eligible resources
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- OGS Cemeteries
- Government Office
- Library
- Place of Worship
- School
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Agricultural Districts
- Roads
- Interstates
- Railroad
- County Boundary
- Corporation Limits

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

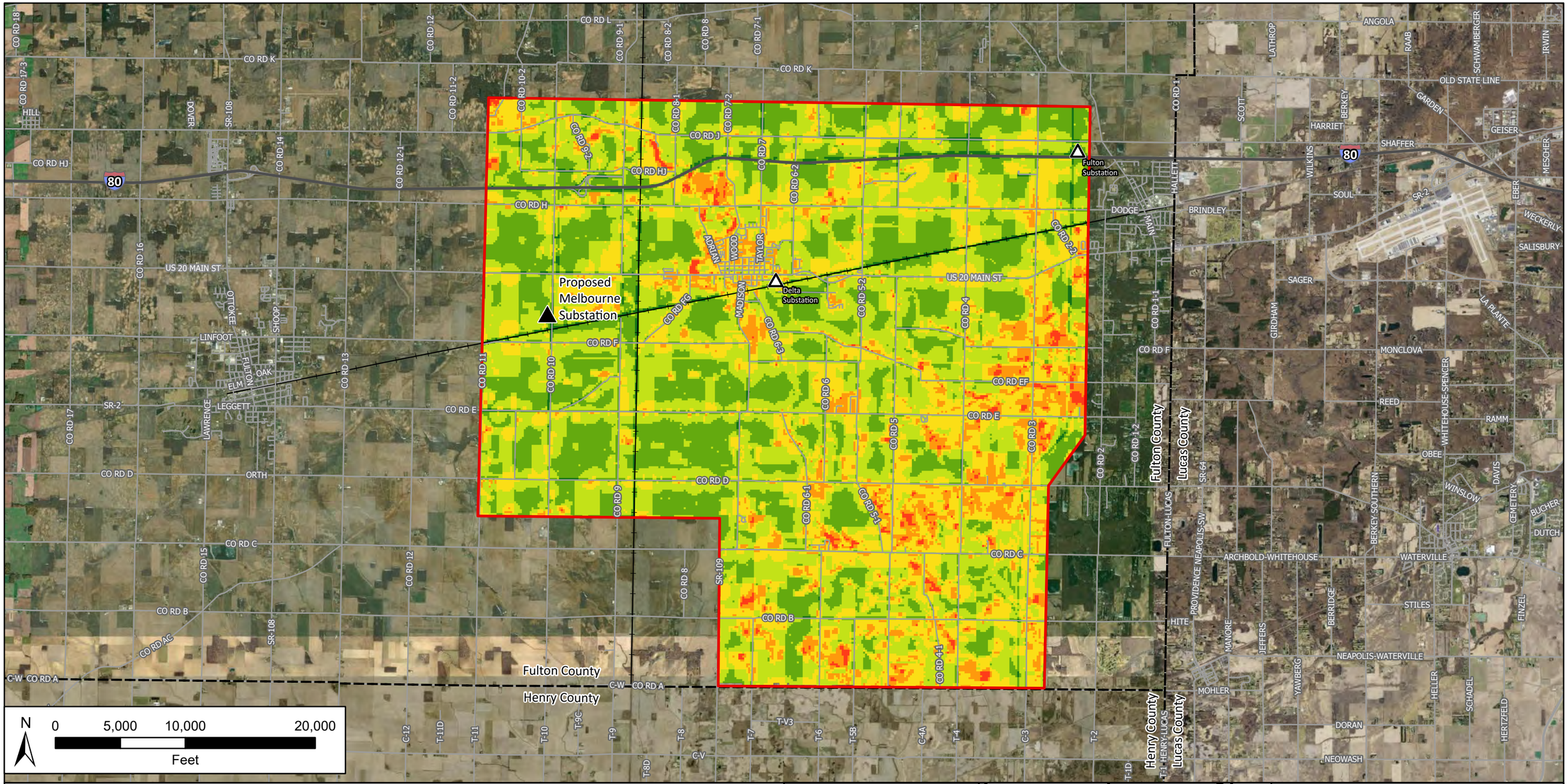


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 2
Study Area and Constraints

1/31/2023

ATSI
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.



Legend

- Proposed Melbourne Substation
- Study Area
- Existing Substations
- Roads
- Interstates
- Railroad
- County Boundary

Suitability Model

- Least Suitable
- Most Suitable

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

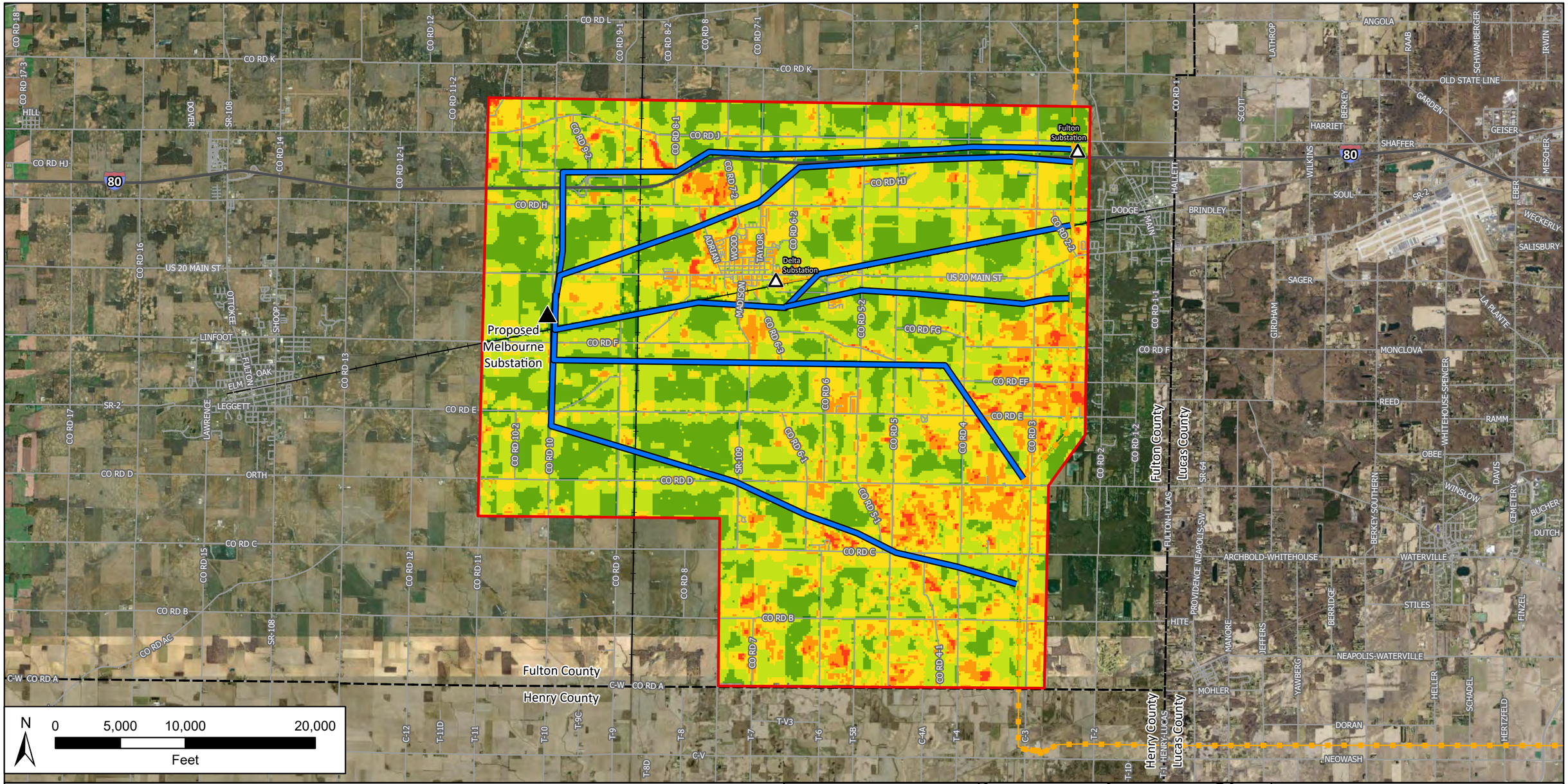


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 3
Suitability Model

1/31/2023

ATSI
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.



Legend

- Proposed Melbourne Substation
- Conceptual Route Corridors
- Study Area
- Existing Substations
- Existing 345 kV Transmission Line
- Roads
- Interstates
- Railroad
- County Boundary

Suitability Model

- Least Suitable
- Most Suitable

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

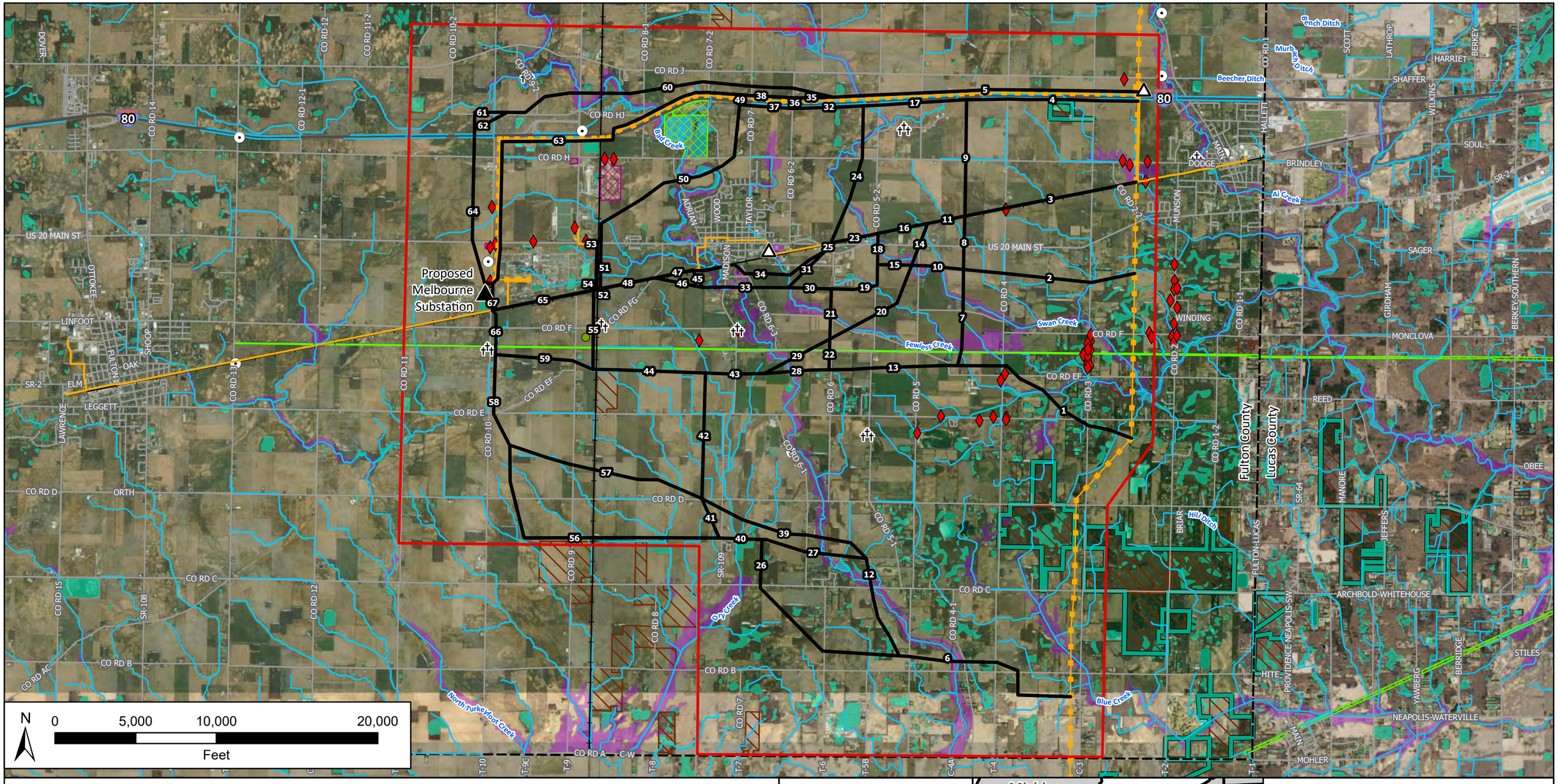


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 4
Conceptual Route Corridors

1/31/2023

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Legend

- Proposed Melbourne Substation
- Study Segments
- Study Area
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- NWI Wetlands
- FEMA Floodplain
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad
- County Boundary

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

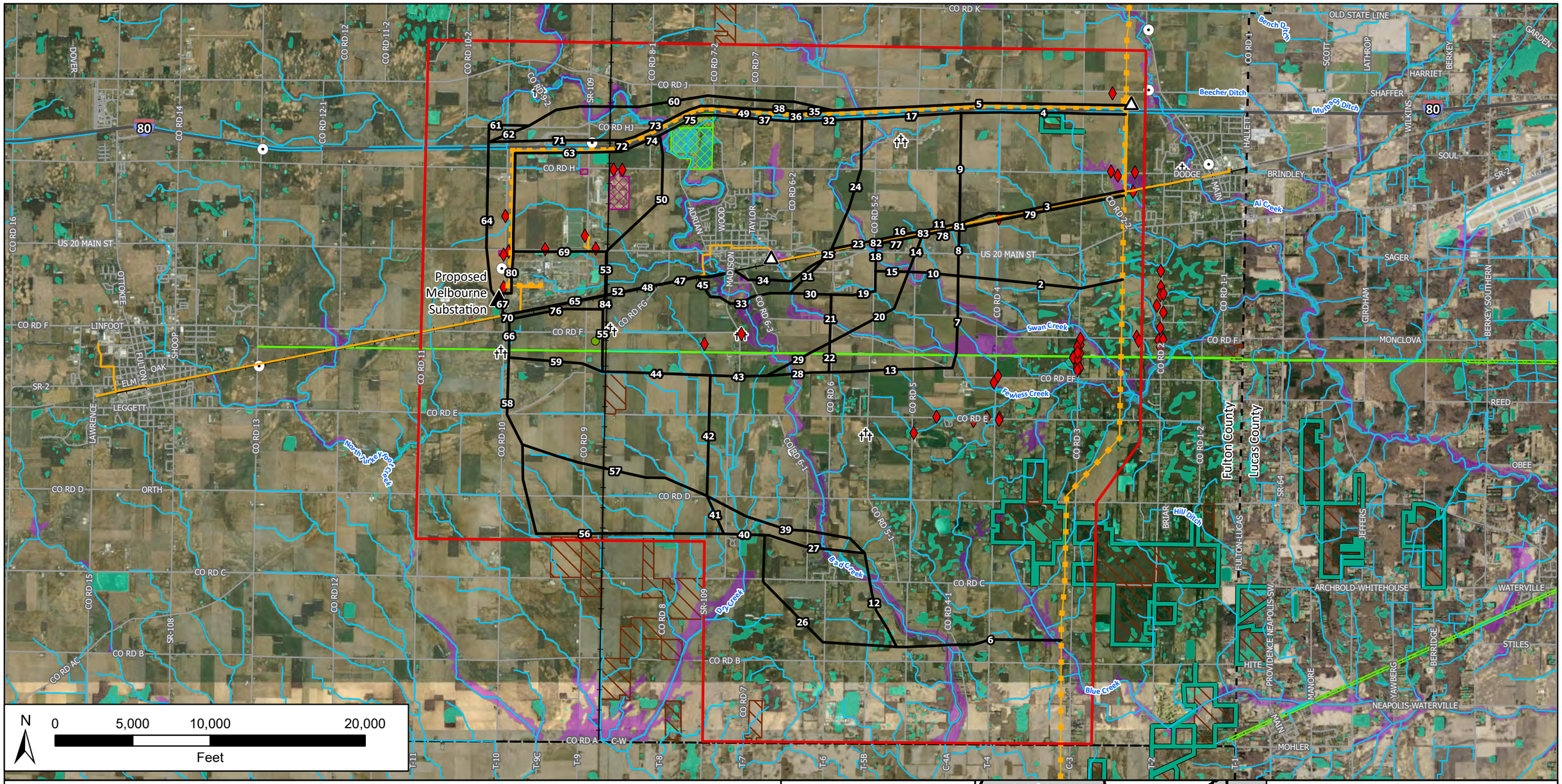


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 5
Initial Study Segments

1/31/2023

ATSI
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Legend

- Proposed Melbourne Substation
- Refined Study Segment Network
- Study Area
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- National Register of Historic Places (NRHP)-eligible resources
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad
- County Boundary

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

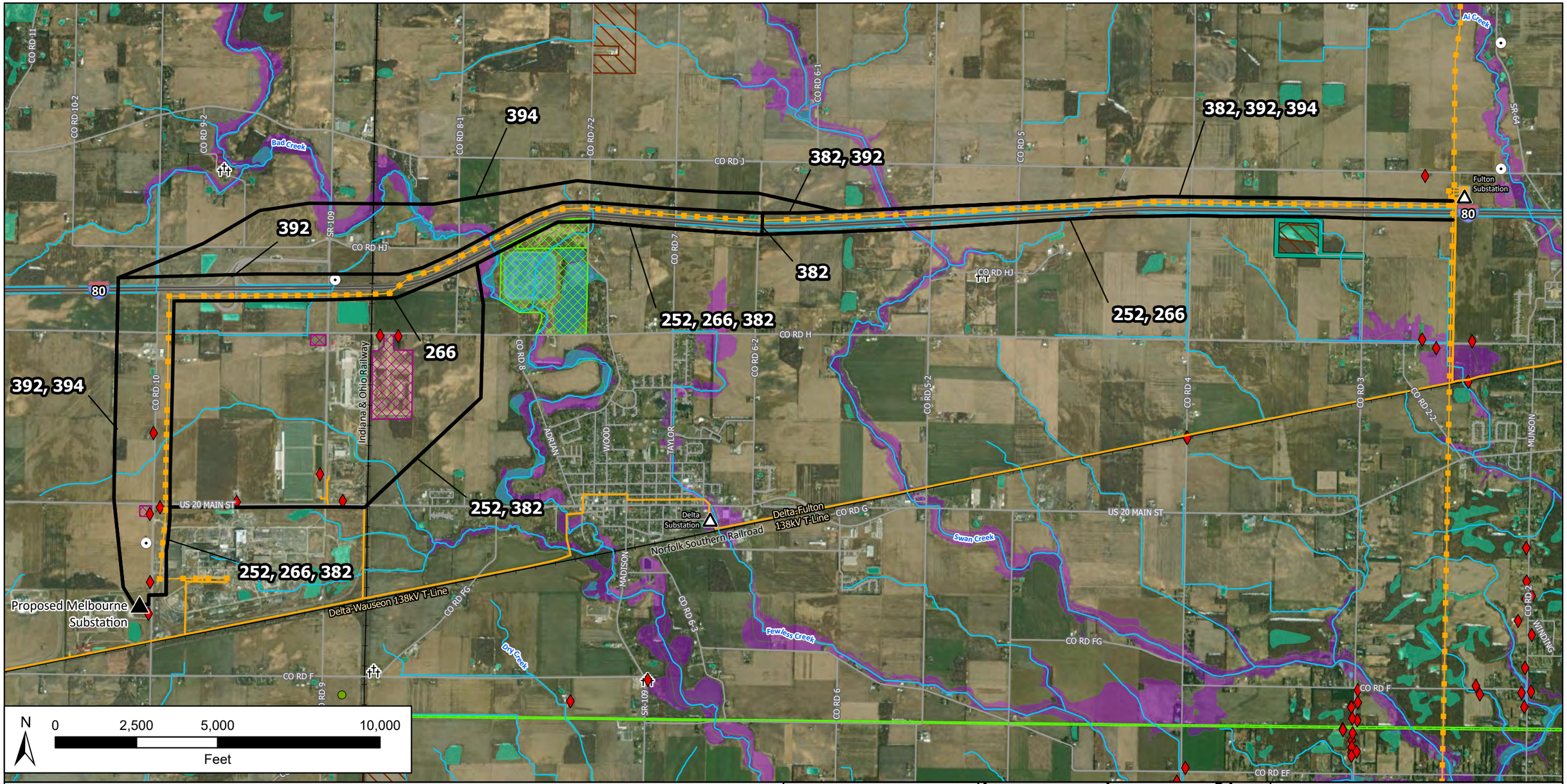


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 6
Refined Study Segment Network

1/31/2023

ATSI
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Legend

- Proposed Melbourne Substation
- Alternative Routes
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- National Register of Historic Places (NRHP)-eligible resources
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Topographic

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

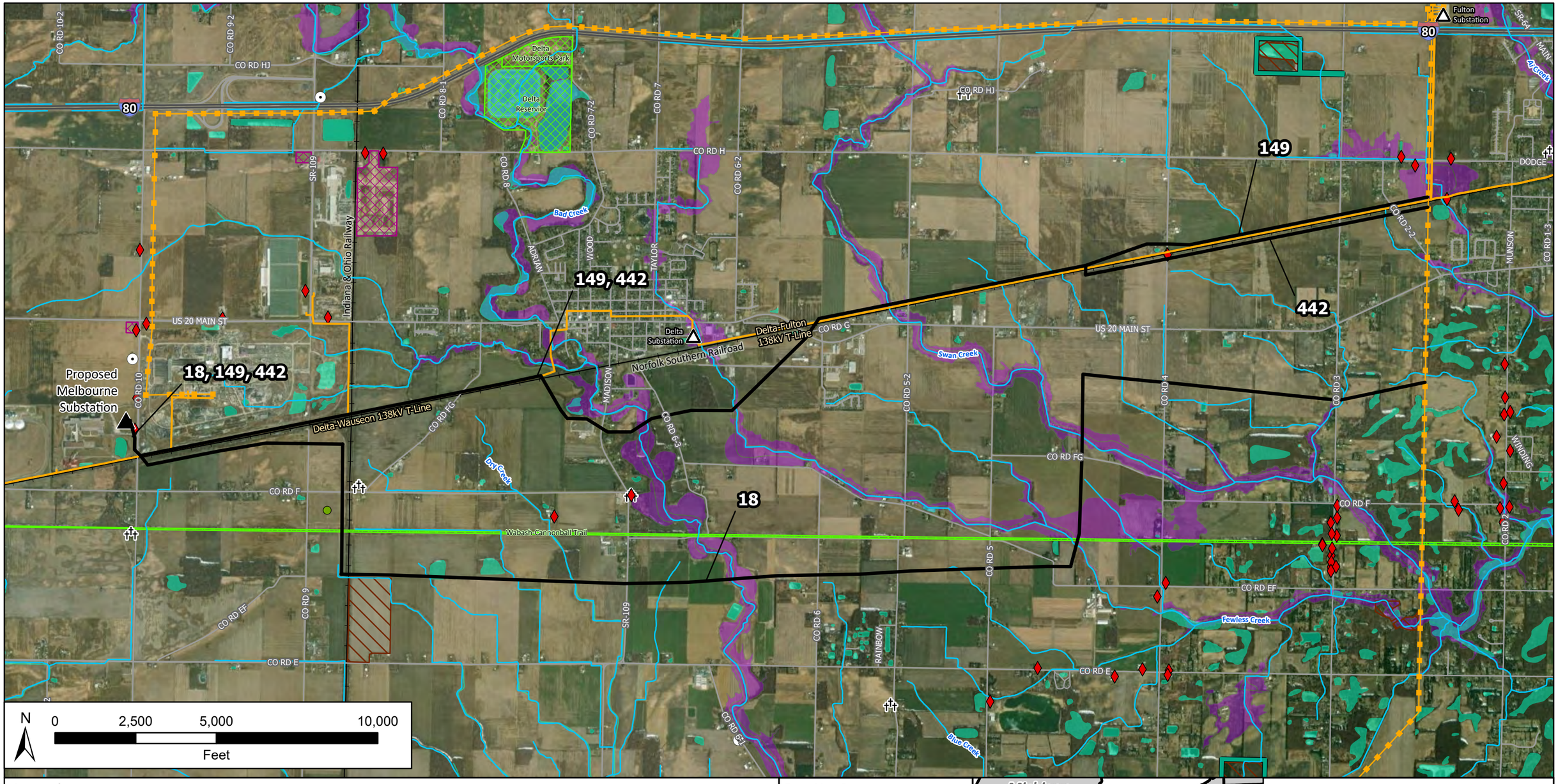


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 7
Top Ranked Northern Corridor Alternative Routes

1/31/2023

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Legend

- Proposed Melbourne Substation
- Alternative Routes
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

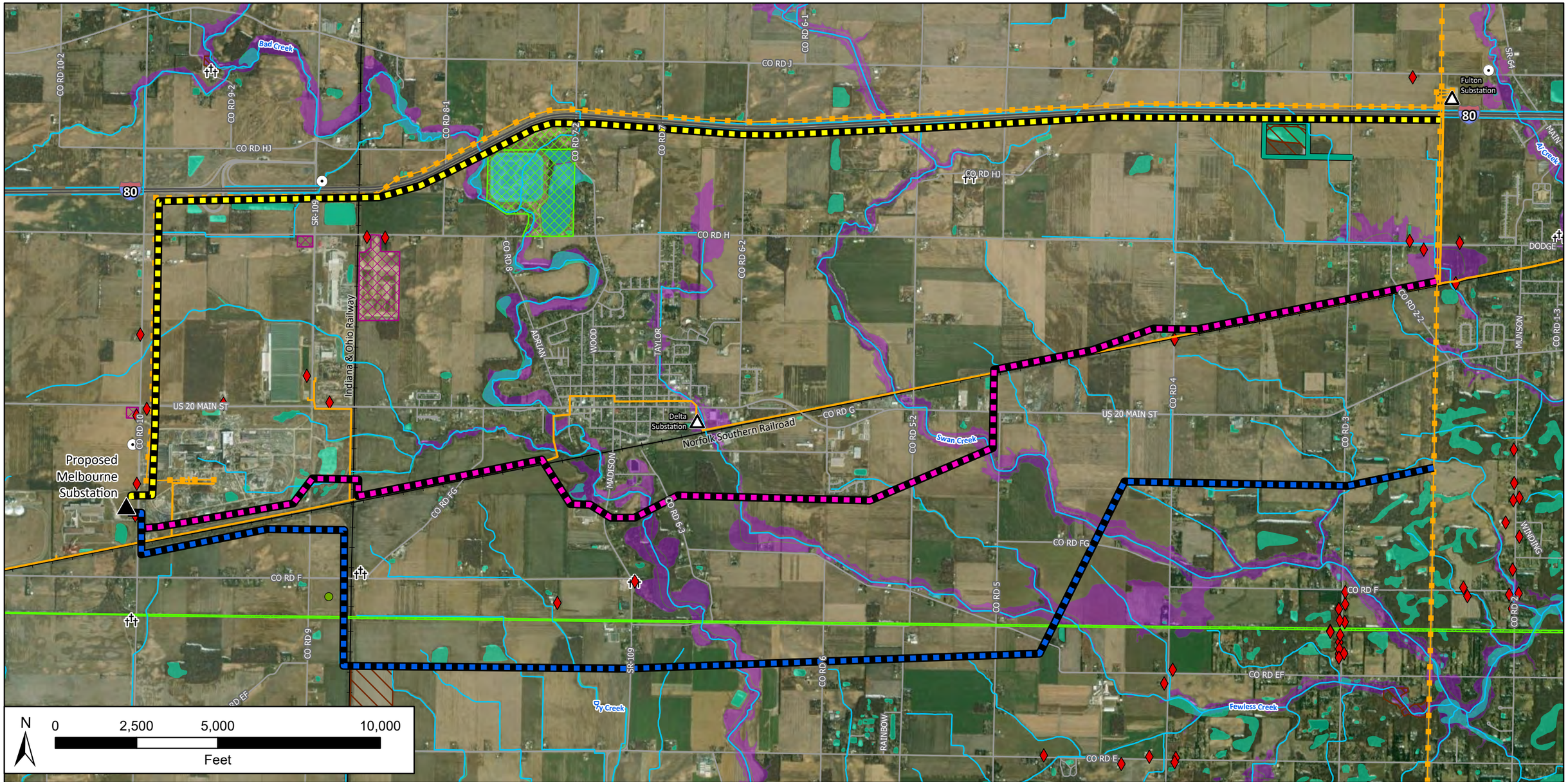


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 8
Top Ranked Central Corridor Alternative Routes

1/31/2023

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Legend

- Proposed Melbourne Substation
- Northern Alternative Route (266)
- Central Alternative Route (149)
- Southern Route Alternative (18)
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

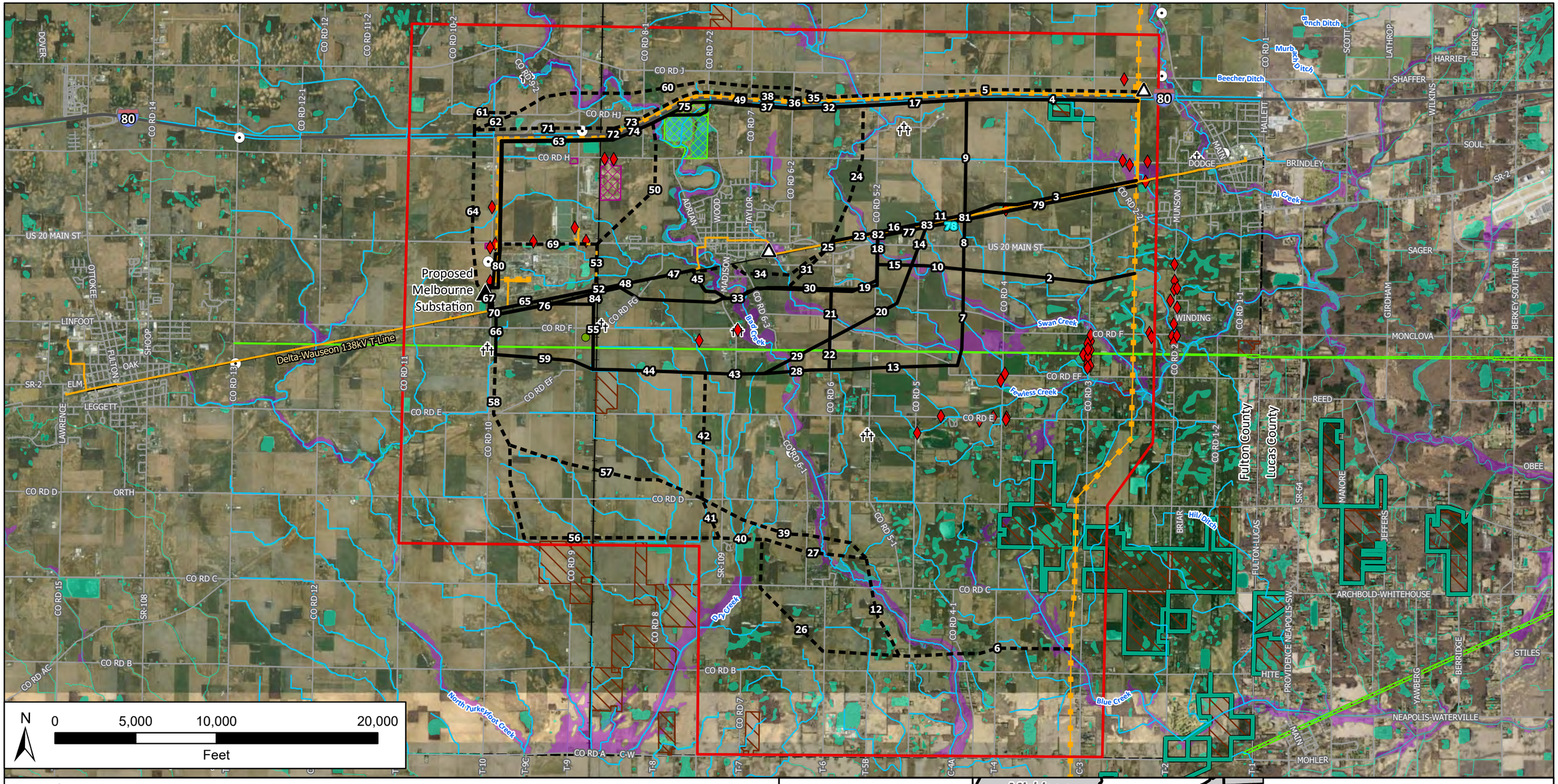


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 9
Alternative Routes
Initial Public Information Meeting

1/31/2023

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Legend

- Proposed Melbourne Substation
- Eliminated Study Segments
- Study Segments
- Study Area
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad
- County Boundary

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

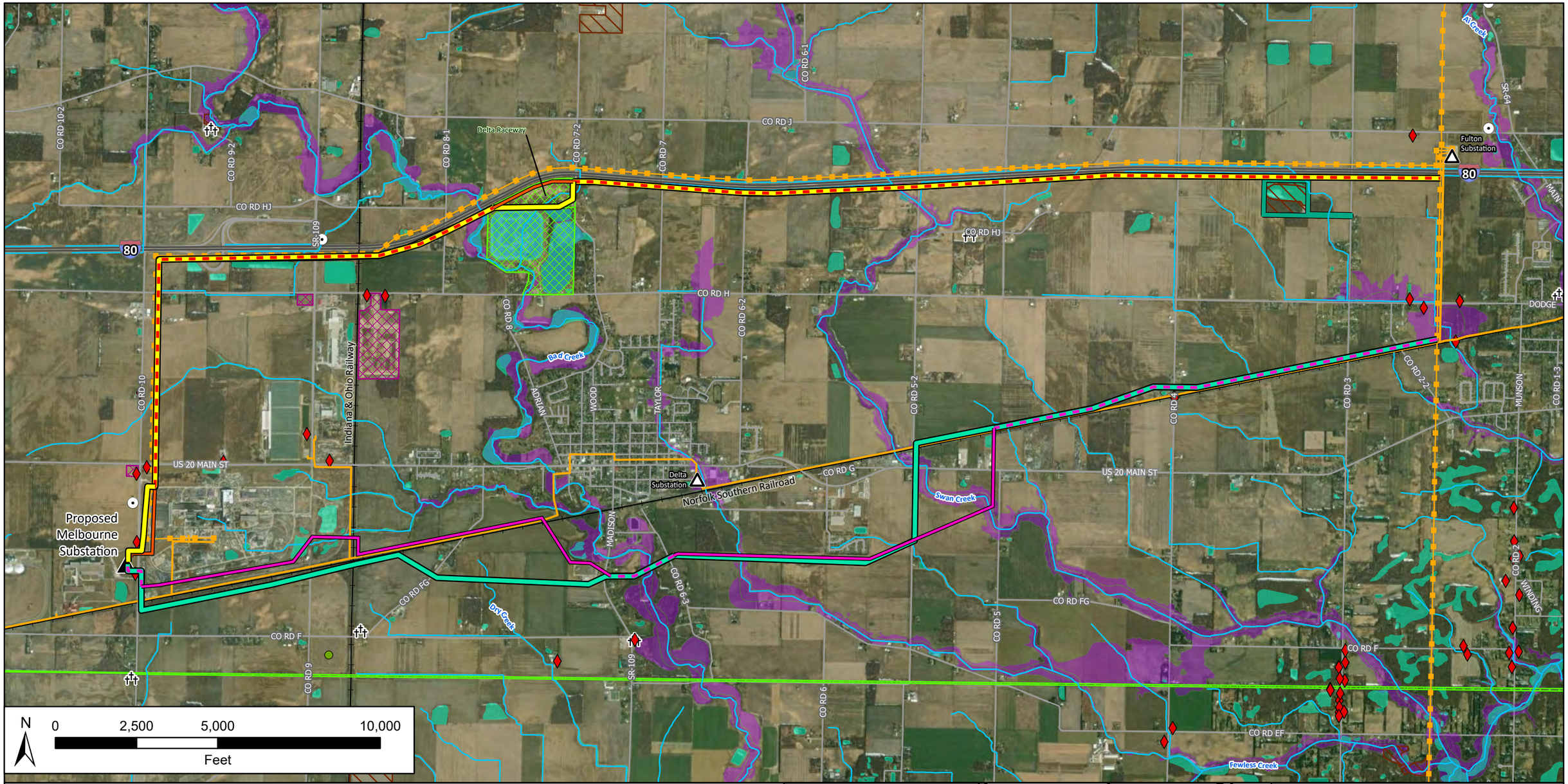


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 10
Revised Study Segments for Second Scoring of Alternative Routes

1/31/2023

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Legend

- Proposed Melbourne Substation
- Route 266
- Route 266 Modified
- Route 266 Common Alignment
- Route 149
- Route 149 Modified
- Route 149 Common Alignment
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983

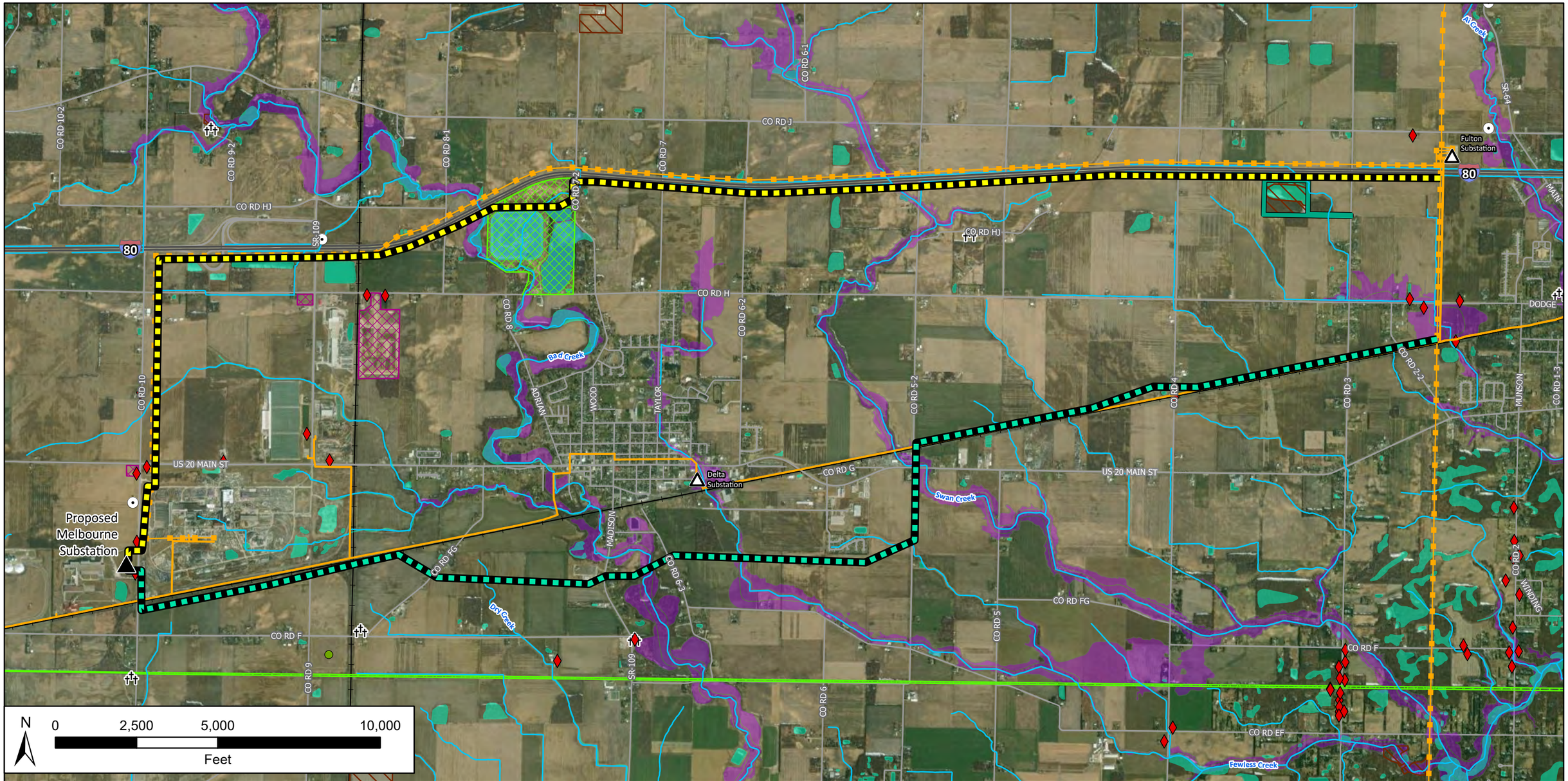


Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 11
Alternative Routes 149 and 266 (Initial and Modified) Jurisdictional Public Information Meeting

1/31/2023

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Legend

- Proposed Melbourne Substation
- Preferred Route
- Alternate Route
- Existing Substations
- Cellular Towers
- Existing 345 kV Transmission Line
- Existing 138 kV Transmission Line
- NHD Stream
- FEMA Floodplain
- NWI Wetlands
- Ohio Historic Inventory (OHI)-listed architectural and historical resources
- National Register of Historic Places (NRHP)-eligible resources
- OGS Cemeteries
- Landfill
- ODNR Protected Lands
- PADUS Sites
- Recreation Areas
- Commercial Site Under Development
- Roads
- Interstates
- Railroad

Base Map Source:
ESRI Aerial Imagery

Roads:
ODOT Road Inventory 2022

Data sources included in text bibliography

Coordinate System:
StatePlane Ohio North
NAD 1983



Dowling-Fulton 345 kV
Transmission Line Tap
to Melbourne Substation Project
Fulton County, Ohio

Figure 12
Preferred and Alternate Routes

1/31/2023

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Appendix A. GIS Data

Appendix A. GIS Data Sources

Siting Criteria	Source	Description
Ecological Resources		
National Hydrography Dataset (NHD) stream and waterbodies	United States Geological Survey National Hydrography Dataset (2021)	The NHD is a comprehensive set of digital spatial data prepared by the USGS that contains information about surface water features such as lakes, ponds, streams, rivers, springs, and wells.
National Wetlands Inventory (NWI) wetlands	United States Fish and Wildlife Services (2021)	NWI produces information on the characteristics, extent, and status of the nation's wetlands and deepwater habitats.
Floodplains	Federal Emergency Management Agency (2021)	100-year floodplain within the study area
Forested Areas		Forest within the study area.
Cultural Resources		
Cemeteries		
Archeological resources	Ohio Historic Preservation Office (OHPO)	Previously identified archeological resources, including those listed or eligible on the NRHP.
Architectural resources	Ohio Historic Preservation Office (OHPO)	Previously identified historic architectural resource sites and districts, including those listed or eligible on the NRHP.
Land Use		
Parcels		Land use determination
Residences		Residences within the study area
Commercial/Industrial developments		Commercial buildings within the study area.
Land use	National Land Cover Database (2013-2016)	The NLCD (2013-2016) compiled by the Multi-Resolution Land Characteristics Consortium includes 15 classes of land cover from Landsat satellite imagery.
Institutional uses (e.g., schools, places of worship, and cemeteries)		Places of worship, schools, and cemeteries within the study area.

Conservation easements	National Conservation Easement Database (2021)	Private conservation in study areas from the National Conservation Easement Database, which is composed of voluntarily reported conservation easement information from land trusts and public agencies.
Public lands	The Protected Areas Database of the United States (2021)	Federal, state, and local lands in the study area
Airfield and heliports	https://www.faa.gov/ (2021)	Airfields and heliports within study areas
Landfills		

Technical Resources		
Roads		
Railroads		
Existing electric transmission lines	FirstEnergy/ Burns and McDonnell Replica	Existing transmission lines within the study area.
Existing pipelines	U.S. Department of Transportation National Pipeline Mapping System	Existing pipelines within the study area.

Appendix B. Alternative Routes

Appendix B: Alternative Routes

Routes	Study Segments
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70
2	2,10,15,19,21,22,28,43,44,55,67,70,76
3	2,10,15,19,21,22,28,43,44,59,66,67,70
4	2,10,15,19,21,29,42,43,57,58,66,67,70
5	2,10,15,19,21,29,43,44,55,67,70,76
6	2,10,15,19,21,29,43,44,59,66,67,70
7	2,10,15,19,30,33,45,47,48,52,53,69,80
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84
9	2,10,15,19,30,33,45,47,48,52,65,67
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84
11	2,10,20,22,28,42,43,57,58,66,67,70
12	2,10,20,22,28,43,44,55,67,70,76
13	2,10,20,22,28,43,44,59,66,67,70
14	2,10,20,29,42,43,57,58,66,67,70
15	2,10,20,29,43,44,55,67,70,76
16	2,10,20,29,43,44,59,66,67,70
17	2,7,13,28,42,43,57,58,66,67,70
18	2,7,13,28,43,44,55,67,70,76
19	2,7,13,28,43,44,59,66,67,70
20	2,8,23,25,31,33,45,47,48,52,65,67,77,78,82
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82

Routes	Study Segments
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84
53	2,8,11,16,23,25,34,47,48,52,65,67,81
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78

Routes	Study Segments
77	2,8,14,20,22,28,43,44,55,67,70,76,78
78	2,8,14,20,22,28,43,44,59,66,67,70,78
79	2,8,14,20,29,42,43,57,58,66,67,70,78
80	2,8,14,20,29,43,44,55,67,70,76,78
81	2,8,14,20,29,43,44,59,66,67,70,78
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81
111	2,8,9,17,32,36,38,63,72,73,80,81
112	2,8,9,17,32,36,38,64,71,73,81
113	2,8,9,17,32,37,49,63,72,73,80,81
114	2,8,9,17,32,37,49,64,71,73,81
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84

Routes	Study Segments
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84
117	2,8,9,17,32,37,50,53,65,67,71,75,81
118	2,8,9,17,32,37,50,69,75,80,81
119	2,8,9,17,32,37,63,74,75,80,81
120	2,8,9,17,32,37,64,71,72,74,75,81
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83
133	3,11,14,20,22,28,43,44,55,67,70,76,83
134	3,11,14,20,22,28,43,44,59,66,67,70,83
135	3,11,14,20,29,42,43,57,58,66,67,70,83
136	3,11,14,20,29,43,44,55,67,70,76,83
137	3,11,14,20,29,43,44,59,66,67,70,83
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84
149	3,11,16,23,25,31,33,45,47,48,52,65,67
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84
151	3,11,16,23,25,31,33,45,47,52,53,69,80
152	3,11,16,23,25,34,47,48,52,53,69,80
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84
154	3,11,16,23,25,34,47,48,52,65,67

Routes	Study Segments
155	3,11,16,23,25,34,47,48,52,67,70,76,84
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84
172	3,11,23,25,34,47,48,52,65,67,77,82,83
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81
178	3,14,20,22,28,43,44,55,67,70,76,78,81
179	3,14,20,22,28,43,44,59,66,67,70,78,81
180	3,14,20,29,42,43,57,58,66,67,70,78,81
181	3,14,20,29,43,44,55,67,70,76,78,81
182	3,14,20,29,43,44,59,66,67,70,78,81
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82

Routes	Study Segments
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84
199	3,23,25,34,47,48,52,65,67,78,81,82
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84
202	3,7,8,13,28,42,43,57,58,66,67,70,81
203	3,7,8,13,28,43,44,55,67,70,76,81
204	3,7,8,13,28,43,44,59,66,67,70,81
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81
216	3,8,10,20,22,28,43,44,55,67,70,76,81
217	3,8,10,20,22,28,43,44,59,66,67,70,81
218	3,8,10,20,29,42,43,57,58,66,67,70,81
219	3,8,10,20,29,43,44,55,67,70,76,81
220	3,8,10,20,29,43,44,59,66,67,70,81
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84
224	3,9,17,24,25,31,33,45,47,48,52,65,67
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84
226	3,9,17,24,25,34,47,48,52,53,69,80
227	3,9,17,24,25,34,47,48,52,65,67
228	3,9,17,24,25,34,47,48,52,67,70,76,84
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84
230	3,9,17,32,36,38,49,50,53,65,67,75
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84
232	3,9,17,32,36,38,49,50,69,75,80

Routes	Study Segments
233	3,9,17,32,36,38,49,64,71,72,74,75
234	3,9,17,32,36,38,63,72,73,80
235	3,9,17,32,36,38,64,71,73
236	3,9,17,32,37,49,63,72,73,80
237	3,9,17,32,37,49,64,71,73
238	3,9,17,32,37,50,35,67,70,75,76,84
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84
240	3,9,17,32,37,50,53,65,67,75
241	3,9,17,32,37,50,69,75,80
242	3,9,17,32,37,63,74,75,80
243	3,9,17,32,37,64,71,72,74,75
244	4,17,24,25,31,33,45,47,48,52,53,69,80
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84
246	4,17,24,25,31,33,45,47,48,52,65,67
247	4,17,24,25,31,33,47,48,52,67,70,76,84
248	4,17,24,25,34,47,48,52,53,69,80
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84
250	4,17,24,25,34,47,48,52,65,67
251	4,17,24,25,34,47,48,52,67,70,76,84
252	4,17,32,37,50,69,75,80
253	4,17,32,36,38,36,34,72,73,80
254	4,17,32,36,38,49,50,53,65,67,75
255	4,17,32,36,38,49,50,53,67,70,75,76,84
256	4,17,32,36,38,49,50,69,75,80
257	4,17,32,36,38,49,63,34,74,75,80
258	4,17,32,36,38,49,64,71,72,74,75
259	4,17,32,36,38,64,71,73
260	4,17,32,37,49,63,72,73,80
261	4,17,32,37,49,64,71,73
262	4,17,32,37,50,53,55,59,66,67,70,75,84
263	4,17,32,37,50,53,65,67,75
264	4,17,32,37,50,53,67,70,75,76,84
266	4,17,32,37,63,74,75,80
267	4,17,32,37,64,71,72,74,75
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81

Routes	Study Segments
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81
276	4,7,8,9,13,28,43,44,55,67,70,76,81
277	4,7,8,9,13,28,43,44,59,66,67,70,81
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84
279	4,8,9,10,15,18,23,25,34,47,48,52,55,59,66,67,70,81,82,84
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83
306	4,9,11,14,20,29,43,44,55,67,70,76,83
307	4,9,11,14,20,29,43,44,59,66,67,70,83
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82

Routes	Study Segments
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84
321	4,9,11,16,23,25,34,47,48,52,53,69,80
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84
323	4,9,11,16,23,25,34,47,48,52,65,67
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81

Routes	Study Segments
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81
354	4,9,14,20,29,43,44,55,67,70,76,78,81
355	4,9,14,20,29,43,44,59,66,67,70,78,81
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84
377	5,35,36,37,49,63,72,73,80
378	5,35,36,37,49,64,71,73
379	5,35,36,37,50,53,55,59,66,67,70,75,84
380	5,35,36,37,50,53,65,67,75
381	5,35,36,37,50,53,67,70,75,76,84
382	5,35,36,37,50,69,75,80
383	5,35,36,37,63,74,75,80
384	5,35,36,37,64,71,72,74,75
385	5,35,38,49,50,53,55,59,66,67,70,75,84
386	5,35,38,49,50,53,65,67,75
387	5,35,38,49,50,53,67,70,75,76,84
388	5,35,38,49,50,69,75,80
389	5,35,38,49,63,74,75,80

Routes	Study Segments
390	5,35,38,49,64,71,72,74,75
391	5,35,38,63,72,73,80
392	5,35,38,64,71,73
393	5,60,61,64
394	5,60,62,64
395	6,12,27,40,41,42,44,55,67,70,76
396	6,12,27,40,41,42,44,59,66,67,70
397	6,12,27,40,41,57,58,66,67,70
398	6,12,27,40,56,58,66,67,70
399	6,12,39,42,44,55,67,70,76
400	6,12,39,42,44,59,66,67,70
401	6,12,39,57,58,66,67,70
402	6,26,40,41,42,44,55,67,70,76
403	6,26,40,41,42,59,66,67,70
404	6,26,40,41,57,58,66,67,70
405	6,26,40,56,58,66,67,70
406	9,17,32,36,38,64,71,73,79,81
407	9,17,32,37,49,64,71,73,79,81
408	9,17,32,37,64,71,72,74,75,79,81
409	9,17,32,36,38,49,64,71,72,74,75,79,81
410	9,17,32,37,63,74,75,79,80,81
411	9,17,32,36,38,63,72,73,79,80,81
412	9,17,32,37,49,63,72,73,79,80,81
413	9,17,32,37,50,69,75,79,80,81
414	9,17,32,36,38,49,50,69,75,71,79,80,81
415	9,17,32,37,50,53,65,67,71,75,79,81
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84
425	9,17,24,25,34,47,48,52,65,67,71,79,81
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84

Routes	Study Segments
429	11,16,23,25,34,47,48,52,53,69,79,80,81
430	11,16,23,25,34,47,48,52,65,67,79,81
431	11,16,23,25,34,47,48,52,67,70,76,84
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84
437	23,25,34,47,48,52,53,69,77,78,79,80,82
438	23,25,34,47,48,52,65,67,78,79,82
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82
450	23,25,31,33,45,47,48,52,65,67,77,78,82
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83
458	11,18,19,30,33,45,47,48,52,65,67,77,83
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80
462	18,19,30,33,45,47,48,52,65,67,77,78,79
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84

Routes	Study Segments
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80
470	14,15,19,30,33,45,47,48,52,65,67,78,79
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83
482	18,19,21,29,43,44,55,67,70,76,77,78,79
483	18,19,21,29,43,44,59,66,67,70,77,78,79
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79
497	11,14,20,29,43,44,55,67,70,76,79,81,83
498	11,14,20,29,43,44,59,66,67,70,79,81,83
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83
500	14,20,29,43,44,55,67,70,76,78,79
501	14,20,29,43,44,59,66,67,70,78,79
502	14,20,29,42,43,57,58,66,67,70,78,79
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83
506	14,20,22,28,43,44,55,67,70,76,78,79

Routes	Study Segments
507	14,20,22,28,43,44,59,66,67,70,78,79
508	14,20,22,28,42,43,57,58,66,67,70,78,79
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80
510	8,10,15,19,30,33,45,47,48,52,65,67,79
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84
513	8,10,15,19,21,29,43,44,55,67,70,76,79
514	8,10,15,19,21,29,43,44,59,66,67,70,79
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79
519	8,10,20,29,43,44,55,67,70,76,79
520	8,10,20,29,43,44,59,66,67,70,79
521	8,10,20,29,42,43,57,58,66,67,70,79
522	8,10,20,22,28,43,44,55,67,70,76,79
523	8,10,20,22,28,43,44,59,66,67,70,79
524	8,10,20,22,28,42,43,57,58,66,67,70,79
525	7,8,13,28,43,44,55,67,70,76,79
526	7,8,13,28,43,44,59,66,67,70,79
527	7,8,13,28,42,43,57,58,66,67,70,79

Appendix C. Evaluation Criteria

Appendix C: Evaluation Criteria

Category	Criteria		Criteria Weight	Category Weight	Influence
Ecological	Area of Woodlots within ROW (in acres)		50%	30%	15
	Area of NWI within ROW (in acres)		30%		9
	Named NHD/Mussel Stream Crossing		20%		6
Cultural	NRHP-listed and eligible resources within 1,000-ft of centerline		35%	10%	3.5
	Known Archaeology Sites within 75-ft of centerline		30%		3
	OHI Historic Structures within 1,000-ft of centerline		20%		2
	Cemeteries within 75-ft of centerline		15%		1.5
Land Use	Residences	Residences within 250-ft of centerline (weighted 50%)	60%	40%	12
		Residences between 250-500 ft of centerline (weighted 30%)			7.2
		Residences between 500-750 ft of centerline (weighted 15%)			3.6
		Residences between 750-1,000 ft of centerline (weighted 5%)			1.2
	Number of Property Owners within ROW		15%		6
	Ag. District Lands Crossed		5%		2
	Other Sensitive Land Uses within 1,000-ft**		10%		4
	Number of Institutional Land Uses within 1,000-ft of centerline*		10%		4
Technical	Interstate Highway Crossings		15%	20%	3
	Turn Angles Greater than or Equal to 45 Degrees		15%		3
	Paralleling Linear Features	Length Paralleling limited Access Highway (weighted 30%)	25%		1.5
		Length Paralleling Railroad Corridor (weighted 30%)			1.5
		Length Paralleling Existing Transmission Line (weighted 40%)			2
	Rebuild existing transmission line		25%		5
	Length of Route		15%		3
	Endpoint Distance from FE Fulton Substation		5%		1

*Institutional Land Uses include churches, hospitals, and schools.

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Appendix D. Route Scoring Results

Appendix D: Route Scoring

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
392	5,35,38,64,71,73	2.76	9	0.57	10	2	0	0	0	0	0	2	0	0	0
252	4,17,32,37,50,69,75,80	1.49	4	0.63	11	2	0	0	0	0	0	6	80	0	0
382	5,35,36,37,50,69,75,80	1.18	3	0.12	0	2	0	0	0	0	0	6	80	0	0
394	5,60,62,64	6.65	24	0.29	4	2	0	0	0	0	0	2	0	0	0
393	5,60,61,64	6.65	24	0.28	3	2	0	0	0	0	0	2	0	0	0
267	4,17,32,37,64,71,72,74,75	3.07	10	0.92	17	2	0	0	0	0	0	2	0	0	0
261	4,17,32,37,49,64,71,73	3.07	10	1.03	20	2	0	0	0	0	0	2	0	0	0
384	5,35,36,37,64,71,72,74,75	2.76	9	0.42	6	2	0	0	0	0	0	2	0	0	0
388	5,35,38,49,50,69,75,80	1.18	3	0.16	1	2	0	0	0	0	0	6	80	0	0
378	5,35,36,37,49,64,71,73	2.76	9	0.53	9	2	0	0	0	0	0	2	0	0	0
263	4,17,32,37,50,53,65,67,75	8.03	29	0.65	11	2	0	0	0	1	50	3	20	0	0
259	4,17,32,36,38,64,71,73	3.07	10	1.08	21	2	0	0	0	0	0	2	0	0	0
380	5,35,36,37,50,53,65,67,75	7.72	28	0.14	0	2	0	0	0	1	50	3	20	0	0
264	4,17,32,37,50,53,67,70,75,76,84	8.14	29	0.65	11	2	0	0	0	0	0	3	20	0	0
390	5,35,38,49,64,71,72,74,75	2.76	9	0.46	7	2	0	0	0	0	0	2	0	0	0
381	5,35,36,37,50,53,67,70,75,76,84	7.83	28	0.14	0	2	0	0	0	0	0	3	20	0	0
266	4,17,32,37,63,74,75,80	1.00	2	1.33	26	2	0	0	0	1	50	5	60	0	0
383	5,35,36,37,63,74,75,80	0.69	1	0.82	15	2	0	0	0	1	50	5	60	0	0
386	5,35,38,49,50,53,65,67,75	7.72	28	0.18	1	2	0	0	0	1	50	3	20	0	0
387	5,35,38,49,50,53,67,70,75,76,84	7.83	28	0.18	1	2	0	0	0	0	0	3	20	0	0
256	4,17,32,36,38,49,50,69,75,80	1.49	4	0.67	12	2	0	0	0	0	0	6	80	0	0
389	5,35,38,49,63,74,75,80	0.69	1	0.86	16	2	0	0	0	1	50	5	60	0	0
391	5,35,38,63,72,73,80	0.69	1	0.97	19	2	0	0	0	1	50	5	60	0	0
258	4,17,32,36,38,49,64,71,72,74,75	3.07	10	0.96	18	2	0	0	0	0	0	2	0	0	0
118	2,8,9,17,32,37,50,69,75,80,81	2.98	9	0.80	15	2	0	0	0	0	0	6	80	0	0
241	3,9,17,32,37,50,69,75,80	1.49	4	0.64	11	2	0	1	100	0	0	7	100	0	0
413	9,17,32,37,50,69,75,79,80,81	1.81	5	0.64	11	2	0	1	100	0	0	7	100	0	0
254	4,17,32,36,38,49,50,53,65,67,75	8.03	29	0.69	12	2	0	0	0	1	50	3	20	0	0
260	4,17,32,37,49,63,72,73,80	1.00	2	1.44	29	2	0	0	0	1	50	5	60	0	0
255	4,17,32,36,38,49,50,53,67,70,75,76,84	8.14	29	0.69	12	2	0	0	0	0	0	3	20	0	0
120	2,8,9,17,32,37,64,71,72,74,75,81	4.56	16	1.10	21	2	0	0	0	0	0	2	0	0	0
377	5,35,36,37,49,63,72,73,80	0.69	1	0.93	18	2	0	0	0	1	50	5	60	0	0
114	2,8,9,17,32,37,49,64,71,73,81	4.56	16	1.21	24	2	0	0	0	0	0	2	0	0	0
243	3,9,17,32,37,64,71,72,74,75	3.07	10	0.94	18	2	0	1	100	0	0	3	20	0	0
408	9,17,32,37,64,71,72,74,75,79,81	3.40	11	0.93	18	2	0	1	100	0	0	3	20	0	0
257	4,17,32,36,38,49,63,34,74,75,80	1.00	2	1.37	27	2	0	0	0	1	50	5	60	0	0
237	3,9,17,32,37,49,64,71,73	3.07	10	1.05	20	2	0	1	100	0	0	3	20	0	0
407	9,17,32,37,49,64,71,73,79,81	3.40	11	1.05	20	2	0	1	100	0	0	3	20	0	0
253	4,17,32,36,38,36,34,72,73,80	1.00	2	1.48	30	2	0	0	0	1	50	5	60	0	0
117	2,8,9,17,32,37,50,53,65,67,71,75,81	9.53	35	0.82	15	2	0	0	0	1	50	3	20	0	0
415	9,17,32,37,50,53,65,67,71,75,79,81	8.36	30	0.66	12	2	0	1	100	1	50	4	40	0	0
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	9.63	35	0.82	15	2	0	0	0	0	0	3	20	0	0
262	4,17,32,37,50,53,55,59,66,67,70,75,84	8.14	29	1.16	23	2	0	0	0	0	0	3	20	0	0
112	2,8,9,17,32,36,38,64,71,73,81	4.56	16	1.25	25	2	0	0	0	0	0	2	0	0	0
240	3,9,17,32,37,50,53,65,67,75	8.03	29	0.66	12	2	0	1	100	1	50	4	40	0	0
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	8.46	30	0.66	12	2	0	1	100	0	0	4	40	0	0
235	3,9,17,32,36,38,64,71,73	3.07	10	1.09	21	2	0	1	100	0	0	3	20	0	0
406	9,17,32,36,38,64,71,73,79,81	3.40	11	1.09	21	2	0	1	100	0	0	3	20	0	0
379	5,35,36,37,50,53,55,59,66,67,70,75,84	7.83	28	0.66	12	2	0	0	0	0	0	3	20	0	0
238	3,9,17,32,37,50,35,67,70,75,76,84	8.14	29	0.66	12	2	0	1	100	0	0	4	40	0	0
119	2,8,9,17,32,37,63,74,75,80,81	2.50	8	1.50	30	2	0	0	0	1	50	5	60	0	0
242	3,9,17,32,37,63,74,75,80	1.00	2	1.34	27	2	0	1	100	1	50	6	80	0	0
410	9,17,32,37,63,74,75,79,80,81	1.33	3	1.34	26	2	0	1	100	1	50	6	80	0	0
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	5.98	21	0.46	7	3	25	0	0	2	100	2	0	0	0
385	5,35,38,49,50,53,55,59,66,67,70,75,84	7.83	28	0.70	13	2	0	0	0	0	0	3	20	0	0
246	4,17,24,25,31,33,45,47,48,52,65,67	7.50	27	0.60	10	4	50	0	0	2	100	2	0	0	0
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	2.98	9	0.84	16	2	0	0	0	0	0	6	80	0	0
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	6.07	21	0.46	7	3	25	0	0	1	50	2	0	0	0
232	3,9,17,32,36,38,49,50,69,75,80	1.49	4	0.68	12	2	0	1	100	0	0	7	100	0	0
414	9,17,32,36,38,49,50,69,75,71,79,80,81	1.81	5	0.68	12	2	0	1	100	0	0	7	100	0	0
247	4,17,24,25,31,33,47,48,52,67,70,76,84	7.59	27	0.60	10	4	50	0	0	1	50	2	0	0	0
306	4,9,11,14,20,29,43,44,55,67,70,76,83	2.37	7	2.45	51	4	50	0	0	0	0	2	0	0	0
18	2,7,13,28,43,44,55,67,70,76	4.54	15	2.23	46	4	50	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	7.47	27	0.49	8	3	25	0	0	2	100	2	0	0	0
354	4,9,14,20,29,43,44,55,67,70,76,78,81	2.37	7	2.37	49	4	50	0	0	0	0	2	0	0	0
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	4.56	16	1.14	22	2	0	0	0	0	0	2	0	0	0
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	6.31	22	0.33	5	3	25	1	100	2	100	3	20	0	0
233	3,9,17,32,36,38,49,64,71,72,74,75	3.07	10	0.98	19	2	0	1	100	0	0	3	20	0	0
409	9,17,32,36,38,49,64,71,72,74,75,79,81	3.40	11	0.97	19	2	0	1	100	0	0	3	20	0	0
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	7.56	27	0.49	8	3	25	0	0	1	50	2	0	0	0
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	2.37	7	2.45	51	4	50	0	0	0	0	2	0	0	0
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	6.39	23	0.33	5	3	25	1	100	1	50	3	20	0	0
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	2.37	7	2.37	49	4	50	0	0	0	0	2	0	0	0
149	3,11,16,23,25,31,33,45,47,48,52,65,67	5.98	21	0.33	5	3	25	1	100	2	100	3	20	0	0
276	4,7,8,9,13,28,43,44,55,67,70,76,81	3.05	10	2.33	48	4	50	0	0	0	0	2	0	0	0
15	2,10,20,29,43,44,55,67,70,76	3.86	13	2.16	44	5	75	0	0	0	0	2	0	0	0
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	9.53	35	0.86	16	2	0	0	0	1	50	3	20	0	0
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	6.07	21	0.33	5	3	25	1	100	1	50	3	20	0	0
80	2,8,14,20,29,43,44,55,67,70,76,78	3.86	13	2.41	50	4	50	0	0	0	0	2	0	0	0
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	8.36	30	0.70	13	2	0	1	100	1	50	4	40	0	0
113	2,8,9,17,32,37,49,63,72,73,80,81	2.50	8	1.61	32	2	0	0	0	1	50	5	60	0	0
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	9.63	35	0.86	16	2	0	0	0	0	0	3	20	0	0
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3.86	13	2.49	52	4	50	0	0	0	0	2	0	0	0
500	14,20,29,43,44,55,67,70,76,78,79	2.70	8	2.25	46	4	50	1	100	0	0	3	20	0	0
230	3,9,17,32,36,38,49,50,53,65,67,75	8.03	29	0.70	13	2	0	1	100	1	50	4	40	0	0
236	3,9,17,32,37,49,63,72,73,80	1.00	2	1.45	29	2	0	1	100	1	50	6	80	0	0
412	9,17,32,37,49,63,72,73,79,80,81	1.33	3	1.45	29	2	0	1	100	1	50	6	80	0	0
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	8.46	30	0.70	13	2	0	1	100	0	0	4	40	0	0
497	11,14,20,29,43,44,55,67,70,76,79,81,83	2.70	8	2.33	48	4	50	1	100	0	0	3	20	0	0
12	2,10,20,22,28,43,44,55,67,70,76	3.86	13	2.16	44	5	75	0	0	0	0	2	0	0	0
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	8.14	29	0.70	13	2	0	1	100	0	0	4	40	0	0
307	4,9,11,14,20,29,43,44,59,66,67,70,83	2.37	7	2.97	62	4	50	0	0	0	0	2	0	0	0
77	2,8,14,20,22,28,43,44,55,67,70,76,78	3.86	13	2.41	50	4	50	0	0	0	0	2	0	0	0
19	2,7,13,28,43,44,59,66,67,70	4.54	15	2.75	57	4	50	0	0	0	0	2	0	0	0
355	4,9,14,20,29,43,44,59,66,67,70,78,81	2.37	7	2.89	60	4	50	0	0	0	0	2	0	0	0
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	3.86	13	2.49	52	4	50	0	0	0	0	2	0	0	0
136	3,11,14,20,29,43,44,55,67,70,76,83	2.37	7	2.33	48	4	50	1	100	0	0	3	20	0	0
506	14,20,22,28,43,44,55,67,70,76,78,79	2.70	8	2.25	46	4	50	1	100	0	0	3	20	0	0
111	2,8,9,17,32,36,38,63,72,73,80,81	2.50	8	1.65	33	2	0	0	0	1	50	5	60	0	0
525	7,8,13,28,43,44,55,67,70,76,79	3.37	11	2.20	45	4	50	1	100	0	0	3	20	0	0
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	9.63	35	1.34	26	2	0	0	0	0	0	3	20	0	0
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	2.70	8	2.33	48	4	50	1	100	0	0	3	20	0	0
181	3,14,20,29,43,44,55,67,70,76,78,81	2.37	7	2.25	46	4	50	1	100	0	0	3	20	0	0
234	3,9,17,32,36,38,63,72,73,80	1.00	2	1.49	30	2	0	1	100	1	50	6	80	0	0
411	9,17,32,36,38,63,72,73,79,80,81	1.33	3	1.49	30	2	0	1	100	1	50	6	80	0	0
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	2.37	7	2.97	62	4	50	0	0	0	0	2	0	0	0
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	5.98	21	0.91	17	3	25	0	0	2	100	2	0	0	0
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	5.98	21	0.91	17	3	25	0	0	2	100	2	0	0	0
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	8.46	30	1.18	23	2	0	1	100	0	0	4	40	0	0
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3.05	10	2.33	48	4	50	0	0	0	0	2	0	0	0
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	9.08	33	0.72	13	3	25	0	0	1	50	6	80	0	0
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	8.14	29	1.18	23	2	0	1	100	0	0	4	40	0	0
323	4,9,11,16,23,25,34,47,48,52,65,67	7.44	27	0.49	8	3	25	0	0	2	100	2	0	0	0
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	2.37	7	2.89	60	4	50	0	0	0	0	2	0	0	0
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	5.98	21	0.83	15	3	25	0	0	2	100	2	0	0	0
133	3,11,14,20,22,28,43,44,55,67,70,76,83	2.37	7	2.33	48	4	50	1	100	0	0	3	20	0	0
277	4,7,8,9,13,28,43,44,59,66,67,70,81	3.05	10	2.84	59	4	50	0	0	0	0	2	0	0	0
16	2,10,20,29,43,44,59,66,67,70	3.86	13	2.68	56	5	75	0	0	0	0	2	0	0	0
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	6.07	21	0.91	17	3	25	0	0	1	50	2	0	0	0
244	4,17,24,25,31,33,45,47,48,52,53,69,80	10.61	39	0.86	16	4	50	0	0	1	50	6	80	0	0
203	3,7,8,13,28,43,44,55,67,70,76,81	3.05	10	2.21	45	4	50	1	100	0	0	3	20	0	0
250	4,17,24,25,34,47,48,52,65,67	8.96	32	0.63	11	4	50	0	0	2	100	2	0	0	0
81	2,8,14,20,29,43,44,59,66,67,70,78	3.86	13	2.93	61	4	50	0	0	0	0	2	0	0	0
178	3,14,20,22,28,43,44,55,67,70,76,78,81	2.37	7	2.25	46	4	50	1	100	0	0	3	20	0	0
519	8,10,20,29,43,44,55,67,70,76,79	2.70	8	2.14	44	5	75	1	100	0	0	3	20	0	0
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	7.53	27	0.49	8	3	25	0	0	1	50	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3.86	13	3.01	63	4	50	0	0	0	0	2	0	0	0
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	6.07	21	0.83	15	3	25	0	0	1	50	2	0	0	0
501	14,20,29,43,44,59,66,67,70,78,79	2.70	8	2.77	58	4	50	1	100	0	0	3	20	0	0
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	0.51	0	2.48	51	4	50	0	0	0	0	2	0	0	0
498	11,14,20,29,43,44,59,66,67,70,79,81,83	2.70	8	2.84	59	4	50	1	100	0	0	3	20	0	0
251	4,17,24,25,34,47,48,52,67,70,76,84	9.05	33	0.63	11	4	50	0	0	1	50	2	0	0	0
13	2,10,20,22,28,43,44,59,66,67,70	3.86	13	2.68	56	5	75	0	0	0	0	2	0	0	0
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	0.51	0	2.40	50	4	50	0	0	0	0	2	0	0	0
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	7.47	27	0.95	18	3	25	0	0	2	100	2	0	0	0
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	7.47	27	0.87	16	3	25	0	0	2	100	2	0	0	0
17	2,7,13,28,42,43,57,58,66,67,70	2.68	8	2.26	47	4	50	0	0	0	0	2	0	0	0
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	9.00	33	0.77	14	4	50	0	0	2	100	2	0	0	0
78	2,8,14,20,22,28,43,44,59,66,67,70,78	3.86	13	2.93	61	4	50	0	0	0	0	2	0	0	0
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	10.58	39	0.76	14	3	25	0	0	1	50	6	80	0	0
522	8,10,20,22,28,43,44,55,67,70,76,79	2.70	8	2.14	44	5	75	1	100	0	0	3	20	0	0
53	2,8,11,16,23,25,34,47,48,52,65,67,81	8.93	32	0.53	9	3	25	0	0	2	100	2	0	0	0
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	6.07	21	0.97	19	3	25	0	0	1	50	2	0	0	0
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	6.31	22	0.78	14	3	25	1	100	2	100	3	20	0	0
450	23,25,31,33,45,47,48,52,65,67,77,78,82	6.31	22	0.71	13	3	25	1	100	2	100	3	20	0	0
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	3.86	13	3.01	63	4	50	0	0	0	0	2	0	0	0
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	7.83	28	0.61	11	4	50	1	100	2	100	3	20	0	0
219	3,8,10,20,29,43,44,55,67,70,76,81	2.37	7	2.14	44	5	75	1	100	0	0	3	20	0	0
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	5.98	21	0.59	10	3	25	0	0	1	50	2	0	0	0
137	3,11,14,20,29,43,44,59,66,67,70,83	2.37	7	2.85	59	4	50	1	100	0	0	3	20	0	0
507	14,20,22,28,43,44,59,66,67,70,78,79	2.70	8	2.77	58	4	50	1	100	0	0	3	20	0	0
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	9.41	34	0.60	10	3	25	1	100	1	50	7	100	0	0
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	5.98	21	0.55	9	3	25	0	0	2	100	2	0	0	0
430	11,16,23,25,34,47,48,52,65,67,79,81	7.76	28	0.37	5	3	25	1	100	2	100	3	20	0	0
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	21	0.67	12	3	25	0	0	1	50	2	0	0	0
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	7.56	27	0.95	18	3	25	0	0	1	50	2	0	0	0
526	7,8,13,28,43,44,59,66,67,70,79	3.37	11	2.72	57	4	50	1	100	0	0	3	20	0	0
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	7.56	27	0.87	16	3	25	0	0	1	50	2	0	0	0
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	2.70	8	2.84	59	4	50	1	100	0	0	3	20	0	0
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	9.08	33	0.77	14	4	50	0	0	1	50	2	0	0	0
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	0.51	0	2.48	51	4	50	0	0	0	0	2	0	0	0
182	3,14,20,29,43,44,59,66,67,70,78,81	2.37	7	2.77	58	4	50	1	100	0	0	3	20	0	0
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	9.02	33	0.53	9	3	25	0	0	1	50	2	0	0	0
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	6.39	23	0.78	14	3	25	1	100	1	50	3	20	0	0
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	6.39	23	0.71	13	3	25	1	100	1	50	3	20	0	0
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	7.59	27	1.11	22	4	50	0	0	1	50	2	0	0	0
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	7.92	28	0.61	11	4	50	1	100	1	50	3	20	0	0
14	2,10,20,29,42,43,57,58,66,67,70	2.00	6	2.20	45	5	75	0	0	0	0	2	0	0	0
224	3,9,17,24,25,31,33,45,47,48,52,65,67	7.50	27	0.61	11	4	50	1	100	2	100	3	20	0	0
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	0.51	0	2.40	50	4	50	0	0	0	0	2	0	0	0
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3.05	10	2.84	59	4	50	0	0	0	0	2	0	0	0
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	6.07	21	0.55	9	3	25	0	0	1	50	2	0	0	0
151	3,11,16,23,25,31,33,45,47,52,53,69,80	9.08	33	0.60	10	3	25	1	100	1	50	7	100	0	0
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	21	0.67	12	3	25	0	0	0	0	2	0	0	0
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	5.98	21	0.79	14	3	25	1	100	2	100	3	20	0	0
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	1.19	3	2.36	49	4	50	0	0	0	0	2	0	0	0
154	3,11,16,23,25,34,47,48,52,65,67	7.44	27	0.37	5	3	25	1	100	2	100	3	20	0	0
216	3,8,10,20,22,28,43,44,55,67,70,76,81	2.37	7	2.14	44	5	75	1	100	0	0	3	20	0	0
79	2,8,14,20,29,42,43,57,58,66,67,70,78	2.00	6	2.44	51	4	50	0	0	0	0	2	0	0	0
134	3,11,14,20,22,28,43,44,59,66,67,70,83	2.37	7	2.85	59	4	50	1	100	0	0	3	20	0	0
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	7.59	27	0.61	11	4	50	1	100	1	50	3	20	0	0
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	2.00	6	2.52	52	4	50	0	0	0	0	2	0	0	0
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	6.07	21	0.59	10	3	25	0	0	0	0	2	0	0	0
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	6.07	21	0.79	14	3	25	1	100	1	50	3	20	0	0
9	2,10,15,19,30,33,45,47,48,52,65,67	7.47	27	0.38	6	4	50	0	0	1	50	2	0	0	0
155	3,11,16,23,25,34,47,48,52,67,70,76,84	7.53	27	0.37	5	3	25	1	100	1	50	3	20	0	0
431	11,16,23,25,34,47,48,52,67,70,76,84	7.53	27	0.37	5	3	25	1	100	1	50	3	20	0	0
204	3,7,8,13,28,43,44,59,66,67,70,81	3.05	10	2.72	57	4	50	1	100	0	0	3	20	0	0
502	14,20,29,42,43,57,58,66,67,70,78,79	0.84	1	2.28	47	4	50	1	100	0	0	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
179	3,14,20,22,28,43,44,59,66,67,70,78,81	2.37	7	2.77	58	4	50	1	100	0	0	3	20	0	0
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	6.66	24	0.76	14	4	50	0	0	1	50	2	0	0	0
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	5.98	21	0.71	13	3	25	1	100	2	100	3	20	0	0
520	8,10,20,29,43,44,59,66,67,70,79	2.70	8	2.65	55	5	75	1	100	0	0	3	20	0	0
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	0.84	1	2.36	49	4	50	1	100	0	0	3	20	0	0
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	7.56	27	1.01	19	3	25	0	0	1	50	2	0	0	0
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	7.47	27	0.71	13	3	25	0	0	1	50	2	0	0	0
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	7.47	27	0.63	11	3	25	0	0	1	50	2	0	0	0
11	2,10,20,22,28,42,43,57,58,66,67,70	2.00	6	2.20	45	5	75	0	0	0	0	2	0	0	0
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	6.07	21	0.71	13	3	25	1	100	1	50	3	20	0	0
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	7.56	27	0.38	6	4	50	0	0	0	0	2	0	0	0
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	6.39	23	0.85	16	3	25	1	100	1	50	3	20	0	0
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	6.31	22	0.54	9	3	25	1	100	1	50	3	20	0	0
470	14,15,19,30,33,45,47,48,52,65,67,78,79	6.31	22	0.47	7	3	25	1	100	1	50	3	20	0	0
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	2.00	6	2.44	51	4	50	0	0	0	0	2	0	0	0
135	3,11,14,20,29,42,43,57,58,66,67,70,83	0.51	0	2.36	49	4	50	1	100	0	0	3	20	0	0
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	2.00	6	2.52	52	4	50	0	0	0	0	2	0	0	0
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	6.75	24	0.76	14	4	50	0	0	0	0	2	0	0	0
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	7.56	27	0.71	13	3	25	0	0	0	0	2	0	0	0
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	7.56	27	0.63	11	3	25	0	0	0	0	2	0	0	0
523	8,10,20,22,28,43,44,59,66,67,70,79	2.70	8	2.65	55	5	75	1	100	0	0	3	20	0	0
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	6.07	21	0.85	16	3	25	1	100	1	50	3	20	0	0
508	14,20,22,28,42,43,57,58,66,67,70,78,79	0.84	1	2.28	47	4	50	1	100	0	0	3	20	0	0
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	9.63	35	1.38	27	2	0	0	0	0	0	3	20	0	0
220	3,8,10,20,29,43,44,59,66,67,70,81	2.37	7	2.66	55	5	75	1	100	0	0	3	20	0	0
527	7,8,13,28,42,43,57,58,66,67,70,79	1.51	4	2.24	46	4	50	1	100	0	0	3	20	0	0
180	3,14,20,29,42,43,57,58,66,67,70,78,81	0.51	0	2.28	47	4	50	1	100	0	0	3	20	0	0
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	0.84	1	2.36	49	4	50	1	100	0	0	3	20	0	0
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	6.39	23	0.54	9	3	25	1	100	0	0	3	20	0	0
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	6.39	23	0.47	7	3	25	1	100	0	0	3	20	0	0
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	8.46	30	1.22	24	2	0	1	100	0	0	4	40	0	0
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	1.19	3	2.36	49	4	50	0	0	0	0	2	0	0	0
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	5.98	21	0.48	8	4	50	0	0	1	50	2	0	0	0
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	21	0.55	9	3	25	1	100	1	50	3	20	0	0
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	8.14	29	1.22	24	2	0	1	100	0	0	4	40	0	0
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	9.08	33	1.17	23	3	25	0	0	1	50	6	80	0	0
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	7.44	27	0.94	18	3	25	0	0	2	100	2	0	0	0
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	5.98	21	0.36	5	4	50	0	0	2	100	2	0	0	0
321	4,9,11,16,23,25,34,47,48,52,53,69,80	10.54	38	0.76	14	3	25	0	0	1	50	6	80	0	0
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	0.51	0	2.36	49	4	50	1	100	0	0	3	20	0	0
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	21	0.55	9	3	25	1	100	0	0	3	20	0	0
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	9.08	33	1.09	21	3	25	0	0	1	50	6	80	0	0
217	3,8,10,20,22,28,43,44,59,66,67,70,81	2.37	7	2.66	55	5	75	1	100	0	0	3	20	0	0
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	7.44	27	0.86	16	3	25	0	0	2	100	2	0	0	0
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	6.07	21	0.48	8	4	50	0	0	0	0	2	0	0	0
521	8,10,20,29,42,43,57,58,66,67,70,79	0.84	1	2.17	45	5	75	1	100	0	0	3	20	0	0
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	5.98	21	0.47	7	3	25	1	100	1	50	3	20	0	0
202	3,7,8,13,28,42,43,57,58,66,67,70,81	1.19	3	2.24	46	4	50	1	100	0	0	3	20	0	0
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	0.51	0	2.28	47	4	50	1	100	0	0	3	20	0	0
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	7.53	27	0.94	18	3	25	0	0	1	50	2	0	0	0
248	4,17,24,25,34,47,48,52,53,69,80	12.07	44	0.90	17	4	50	0	0	1	50	6	80	0	0
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	6.07	21	0.36	5	4	50	0	0	1	50	2	0	0	0
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	6.07	21	0.47	7	3	25	1	100	0	0	3	20	0	0
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	7.53	27	0.86	16	3	25	0	0	1	50	2	0	0	0
510	8,10,15,19,30,33,45,47,48,52,65,67,79	6.31	22	0.36	5	4	50	1	100	1	50	3	20	0	0
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	10.58	39	1.21	24	3	25	0	0	1	50	6	80	0	0
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	10.58	39	1.13	22	3	25	0	0	1	50	6	80	0	0
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	12.10	44	1.04	20	4	50	0	0	1	50	6	80	0	0
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	8.93	32	0.98	19	3	25	0	0	2	100	2	0	0	0
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	6.07	21	1.43	28	3	25	0	0	1	50	2	0	0	0
218	3,8,10,20,29,42,43,57,58,66,67,70,81	0.51	0	2.17	45	5	75	1	100	0	0	3	20	0	0
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	10.45	38	0.81	15	4	50	0	0	2	100	2	0	0	0
524	8,10,20,22,28,42,43,57,58,66,67,70,79	0.84	1	2.17	45	5	75	1	100	0	0	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	10.54	38	0.81	15	4	50	0	0	1	50	2	0	0	0
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	6.39	23	0.36	5	4	50	1	100	0	0	3	20	0	0
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	12.03	44	0.80	15	3	25	0	0	1	50	6	80	0	0
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	9.41	34	1.05	20	3	25	1	100	1	50	7	100	0	0
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	9.41	34	0.97	18	3	25	1	100	1	50	7	100	0	0
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	7.53	27	1.01	19	3	25	0	0	1	50	2	0	0	0
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	10.93	40	0.88	16	4	50	1	100	1	50	7	100	0	0
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	7.76	28	0.82	15	3	25	1	100	2	100	3	20	0	0
438	23,25,34,47,48,52,65,67,78,79,82	7.76	28	0.74	13	3	25	1	100	2	100	3	20	0	0
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	6.07	21	1.35	27	3	25	0	0	1	50	2	0	0	0
425	9,17,24,25,34,47,48,52,65,67,71,79,81	9.29	34	0.64	11	4	50	1	100	2	100	3	20	0	0
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	9.08	33	0.81	15	3	25	0	0	1	50	6	80	0	0
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	9.38	34	0.64	11	4	50	1	100	1	50	3	20	0	0
429	11,16,23,25,34,47,48,52,53,69,79,80,81	10.87	40	0.63	11	3	25	1	100	1	50	7	100	0	0
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	9.08	33	0.93	18	3	25	0	0	0	0	6	80	0	0
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	7.44	27	0.58	10	3	25	0	0	2	100	2	0	0	0
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	9.02	33	0.98	19	3	25	0	0	1	50	2	0	0	0
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	9.02	33	0.90	17	3	25	0	0	1	50	2	0	0	0
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	21	0.58	10	3	25	0	0	1	50	2	0	0	0
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	5.98	21	0.36	5	4	50	1	100	1	50	3	20	0	0
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	9.08	33	0.85	16	3	25	0	0	0	0	6	80	0	0
228	3,9,17,24,25,34,47,48,52,67,70,76,84	9.05	33	0.65	11	4	50	1	100	1	50	3	20	0	0
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	7.85	28	0.82	15	3	25	1	100	1	50	3	20	0	0
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	7.44	27	0.50	8	3	25	0	0	2	100	2	0	0	0
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	7.85	28	0.74	13	3	25	1	100	1	50	3	20	0	0
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	9.05	33	1.15	22	4	50	0	0	1	50	2	0	0	0
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	10.61	39	0.88	16	4	50	1	100	1	50	7	100	0	0
227	3,9,17,24,25,34,47,48,52,65,67	8.96	32	0.65	11	4	50	1	100	2	100	3	20	0	0
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	9.08	33	1.05	20	3	25	1	100	1	50	7	100	0	0
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	0.51	0	2.17	45	5	75	1	100	0	0	3	20	0	0
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	7.53	27	0.58	10	3	25	0	0	1	50	2	0	0	0
152	3,11,16,23,25,34,47,48,52,53,69,80	10.54	38	0.64	11	3	25	1	100	1	50	7	100	0	0
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	6.07	21	0.36	5	4	50	1	100	0	0	3	20	0	0
172	3,11,23,25,34,47,48,52,65,67,77,82,83	7.44	27	0.82	15	3	25	1	100	2	100	3	20	0	0
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	7.53	27	0.50	8	3	25	0	0	1	50	2	0	0	0
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	21	0.58	10	3	25	0	0	0	0	2	0	0	0
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	7.56	27	1.38	27	3	25	0	0	1	50	2	0	0	0
7	2,10,15,19,30,33,45,47,48,52,53,69,80	10.58	39	0.65	11	4	50	0	0	0	0	6	80	0	0
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	7.53	27	0.82	15	3	25	1	100	1	50	3	20	0	0
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	9.08	33	1.29	25	4	50	0	0	1	50	2	0	0	0
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	9.08	33	0.97	19	3	25	1	100	1	50	7	100	0	0
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	7.56	27	1.46	29	3	25	0	0	1	50	2	0	0	0
199	3,23,25,34,47,48,52,65,67,78,81,82	7.44	27	0.74	13	3	25	1	100	2	100	3	20	0	0
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	6.39	23	1.22	24	3	25	1	100	1	50	3	20	0	0
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	7.92	28	1.13	22	4	50	1	100	1	50	3	20	0	0
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	9.76	35	1.03	20	4	50	0	0	0	0	6	80	0	0
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	10.58	39	0.97	19	3	25	0	0	0	0	6	80	0	0
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	10.58	39	0.89	17	3	25	0	0	0	0	6	80	0	0
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	9.02	33	1.05	20	3	25	0	0	1	50	2	0	0	0
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	6.07	21	1.06	20	3	25	0	0	1	50	2	0	0	0
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	6.39	23	1.30	26	3	25	1	100	1	50	3	20	0	0
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	21	1.19	23	3	25	0	0	0	0	2	0	0	0
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	7.47	27	0.62	11	3	25	0	0	1	50	2	0	0	0
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	7.53	27	0.74	13	3	25	1	100	1	50	3	20	0	0
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	9.41	34	0.81	15	3	25	1	100	0	0	7	100	0	0
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	9.41	34	0.73	13	3	25	1	100	0	0	7	100	0	0
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	7.85	28	0.88	17	3	25	1	100	1	50	3	20	0	0
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	7.59	27	1.13	22	4	50	1	100	1	50	3	20	0	0
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	6.07	21	1.11	21	3	25	0	0	0	0	2	0	0	0
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	6.31	22	0.45	7	3	25	1	100	1	50	3	20	0	0
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	6.07	21	1.30	26	3	25	1	100	1	50	3	20	0	0
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	7.53	27	0.89	17	3	25	1	100	1	50	3	20	0	0
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	7.56	27	0.62	11	3	25	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
5	2,10,15,19,21,29,43,44,55,67,70,76	3.86	13	2.25	46	5	75	0	0	0	0	2	0	0	0
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	6.07	21	1.22	24	3	25	1	100	1	50	3	20	0	0
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	6.39	23	0.45	7	3	25	1	100	0	0	3	20	0	0
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	5.98	21	1.03	20	3	25	0	0	1	50	2	0	0	0
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	21	0.46	7	3	25	1	100	1	50	3	20	0	0
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	9.08	33	0.74	14	4	50	0	0	0	0	6	80	0	0
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	9.08	33	0.81	15	3	25	1	100	0	0	7	100	0	0
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	6.75	24	1.28	25	4	50	0	0	0	0	2	0	0	0
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	10.54	38	1.21	24	3	25	0	0	1	50	6	80	0	0
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	7.56	27	0.90	17	4	50	0	0	0	0	2	0	0	0
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	9.08	33	0.62	11	4	50	0	0	1	50	6	80	0	0
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	7.44	27	0.39	6	4	50	0	0	2	100	2	0	0	0
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	3.86	13	2.57	53	4	50	0	0	0	0	2	0	0	0
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	21	0.95	18	3	25	0	0	1	50	2	0	0	0
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	21	0.46	7	3	25	1	100	0	0	3	20	0	0
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	7.56	27	1.15	22	3	25	0	0	0	0	2	0	0	0
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	10.54	38	1.13	22	3	25	0	0	1	50	6	80	0	0
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	6.07	21	1.03	20	3	25	0	0	0	0	2	0	0	0
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	9.08	33	0.73	13	3	25	1	100	0	0	7	100	0	0
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	7.56	27	1.22	24	3	25	0	0	0	0	2	0	0	0
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	2.70	8	2.41	50	4	50	1	100	0	0	3	20	0	0
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	6.39	23	0.98	19	3	25	1	100	0	0	3	20	0	0
2	2,10,15,19,21,22,28,43,44,55,67,70,76	3.86	13	2.25	46	5	75	0	0	0	0	2	0	0	0
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	7.53	27	0.39	6	4	50	0	0	1	50	2	0	0	0
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	6.39	23	1.06	20	3	25	1	100	0	0	3	20	0	0
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	21	0.95	18	3	25	0	0	0	0	2	0	0	0
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	9.41	34	0.62	11	4	50	1	100	0	0	7	100	0	0
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	3.86	13	2.57	53	4	50	0	0	0	0	2	0	0	0
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	2.37	7	2.41	50	4	50	1	100	0	0	3	20	0	0
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	7.47	27	1.07	21	3	25	0	0	1	50	2	0	0	0
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	7.47	27	0.99	19	3	25	0	0	1	50	2	0	0	0
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	2.70	8	2.41	50	4	50	1	100	0	0	3	20	0	0
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	21	1.00	19	4	50	0	0	0	0	2	0	0	0
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	21	1.06	21	3	25	1	100	0	0	3	20	0	0
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	12.03	44	1.25	25	3	25	0	0	1	50	6	80	0	0
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	12.03	44	1.17	23	3	25	0	0	1	50	6	80	0	0
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	13.56	50	1.07	21	4	50	0	0	1	50	6	80	0	0
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	7.53	27	1.46	29	3	25	0	0	1	50	2	0	0	0
458	11,18,19,30,33,45,47,48,52,65,67,77,83	6.31	22	0.91	17	3	25	1	100	1	50	3	20	0	0
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	6.07	21	0.87	16	4	50	0	0	1	50	2	0	0	0
462	18,19,30,33,45,47,48,52,65,67,77,78,79	6.31	22	0.83	15	3	25	1	100	1	50	3	20	0	0
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	10.87	40	1.09	21	3	25	1	100	1	50	7	100	0	0
437	23,25,34,47,48,52,53,69,77,78,79,80,82	10.87	40	1.01	19	3	25	1	100	1	50	7	100	0	0
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	6.07	21	0.99	19	3	25	1	100	0	0	3	20	0	0
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	12.39	46	0.91	17	4	50	1	100	1	50	7	100	0	0
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	7.56	27	1.07	21	3	25	0	0	0	0	2	0	0	0
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	7.56	27	0.99	19	3	25	0	0	0	0	2	0	0	0
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	7.53	27	1.38	27	3	25	0	0	1	50	2	0	0	0
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	10.54	38	0.85	16	3	25	0	0	1	50	6	80	0	0
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	2.37	7	2.41	50	4	50	1	100	0	0	3	20	0	0
6	2,10,15,19,21,29,43,44,59,66,67,70	3.86	13	2.76	58	5	75	0	0	0	0	2	0	0	0
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	9.08	33	0.84	16	3	25	0	0	0	0	6	80	0	0
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	6.39	23	0.91	17	3	25	1	100	0	0	3	20	0	0
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	6.39	23	0.83	15	3	25	1	100	0	0	3	20	0	0
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	9.08	33	0.62	11	4	50	1	100	0	0	7	100	0	0
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	10.54	38	0.77	14	3	25	0	0	1	50	6	80	0	0
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	5.98	21	0.91	17	3	25	1	100	1	50	3	20	0	0
226	3,9,17,24,25,34,47,48,52,53,69,80	12.07	44	0.91	17	4	50	1	100	1	50	7	100	0	0
513	8,10,15,19,21,29,43,44,55,67,70,76,79	2.70	8	2.22	46	5	75	1	100	0	0	3	20	0	0
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	3.86	13	3.09	65	4	50	0	0	0	0	2	0	0	0
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	10.54	38	1.09	21	3	25	1	100	1	50	7	100	0	0
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	6.39	23	0.87	16	4	50	1	100	0	0	3	20	0	0
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	6.07	21	0.91	17	3	25	1	100	0	0	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	2.70	8	2.93	61	4	50	1	100	0	0	3	20	0	0
3	2,10,15,19,21,22,28,43,44,59,66,67,70	3.86	13	2.76	58	5	75	0	0	0	0	2	0	0	0
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	9.02	33	1.42	28	3	25	0	0	1	50	2	0	0	0
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	21	0.83	15	3	25	1	100	1	50	3	20	0	0
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	10.54	38	1.32	26	4	50	0	0	1	50	2	0	0	0
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	7	2.44	51	4	50	0	0	0	0	2	0	0	0
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	10.54	38	1.01	19	3	25	1	100	1	50	7	100	0	0
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	9.02	33	1.50	30	3	25	0	0	1	50	2	0	0	0
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	7.85	28	1.26	25	3	25	1	100	1	50	3	20	0	0
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	9.38	34	1.16	23	4	50	1	100	1	50	3	20	0	0
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	2.70	8	2.22	46	5	75	1	100	0	0	3	20	0	0
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	21	0.83	15	3	25	1	100	0	0	3	20	0	0
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	3.86	13	3.09	65	4	50	0	0	0	0	2	0	0	0
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	2.37	7	2.22	46	5	75	1	100	0	0	3	20	0	0
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	2.37	7	2.93	61	4	50	1	100	0	0	3	20	0	0
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	7.53	27	1.10	21	3	25	0	0	1	50	2	0	0	0
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	7.85	28	1.34	26	3	25	1	100	1	50	3	20	0	0
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	10.58	39	0.88	17	3	25	0	0	0	0	6	80	0	0
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	6.07	21	1.09	21	3	25	0	0	0	0	2	0	0	0
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	2.70	8	2.93	61	4	50	1	100	0	0	3	20	0	0
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	9.05	33	1.16	23	4	50	1	100	1	50	3	20	0	0
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	21	0.87	16	4	50	1	100	0	0	3	20	0	0
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	9.41	34	0.72	13	3	25	1	100	0	0	7	100	0	0
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	7.53	27	1.02	20	3	25	0	0	1	50	2	0	0	0
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	7	2.44	51	4	50	0	0	0	0	2	0	0	0
4	2,10,15,19,21,29,42,43,57,58,66,67,70	2.00	6	2.28	47	5	75	0	0	0	0	2	0	0	0
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	7.53	27	1.34	27	3	25	1	100	1	50	3	20	0	0
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	2.37	7	2.22	46	5	75	1	100	0	0	3	20	0	0
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	2.37	7	2.93	61	4	50	1	100	0	0	3	20	0	0
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	9.08	33	1.30	26	3	25	0	0	0	0	6	80	0	0
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	9.08	33	0.72	13	3	25	1	100	0	0	7	100	0	0
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	7.53	27	1.26	25	3	25	1	100	1	50	3	20	0	0
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	2.00	6	2.61	54	4	50	0	0	0	0	2	0	0	0
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	10.54	38	0.66	12	4	50	0	0	1	50	6	80	0	0
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	0.84	1	2.45	51	4	50	1	100	0	0	3	20	0	0
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	9.08	33	1.22	24	3	25	0	0	0	0	6	80	0	0
514	8,10,15,19,21,29,43,44,59,66,67,70,79	2.70	8	2.74	57	5	75	1	100	0	0	3	20	0	0
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	3.86	13	2.48	51	4	50	0	0	0	0	2	0	0	0
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	2.00	6	2.28	47	5	75	0	0	0	0	2	0	0	0
401	6,12,39,57,58,66,67,70	16.29	60	2.55	53	5	75	0	0	0	0	2	0	0	0
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	7.56	27	1.13	22	3	25	0	0	0	0	2	0	0	0
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	2.70	8	2.32	48	4	50	1	100	0	0	3	20	0	0
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	0.51	0	2.45	51	4	50	1	100	0	0	3	20	0	0
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	7	2.96	62	4	50	0	0	0	0	2	0	0	0
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	7	2.90	60	4	50	0	0	0	0	2	0	0	0
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	6.39	23	0.97	18	3	25	1	100	0	0	3	20	0	0
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	2.00	6	2.61	54	4	50	0	0	0	0	2	0	0	0
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	2.70	8	2.74	57	5	75	1	100	0	0	3	20	0	0
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	7	2.32	48	4	50	1	100	0	0	3	20	0	0
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	2.37	7	2.74	57	5	75	1	100	0	0	3	20	0	0
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	7	2.82	59	4	50	0	0	0	0	2	0	0	0
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	3.86	13	2.48	51	4	50	0	0	0	0	2	0	0	0
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	10.58	39	1.33	26	3	25	0	0	0	0	6	80	0	0
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	0.84	1	2.45	51	4	50	1	100	0	0	3	20	0	0
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	10.58	39	1.26	25	3	25	0	0	0	0	6	80	0	0
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	21	1.55	31	3	25	0	0	0	0	2	0	0	0
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	6.07	21	0.97	19	3	25	1	100	0	0	3	20	0	0
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	2.70	8	2.32	48	4	50	1	100	0	0	3	20	0	0
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	9.41	34	1.17	23	3	25	1	100	0	0	7	100	0	0
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	9.41	34	1.09	21	3	25	1	100	0	0	7	100	0	0
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	7.53	27	0.91	17	4	50	0	0	1	50	2	0	0	0
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	7	2.96	62	4	50	0	0	0	0	2	0	0	0
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	7	2.90	60	4	50	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	6.07	21	1.47	29	3	25	0	0	0	0	2	0	0	0
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	0.51	0	2.45	51	4	50	1	100	0	0	3	20	0	0
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	7	2.32	48	4	50	1	100	0	0	3	20	0	0
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	2.37	7	2.74	57	5	75	1	100	0	0	3	20	0	0
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	7	2.82	59	4	50	0	0	0	0	2	0	0	0
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	0.84	1	2.26	47	5	75	1	100	0	0	3	20	0	0
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	9.08	33	1.17	23	3	25	1	100	0	0	7	100	0	0
399	6,12,39,42,44,55,67,70,76	18.27	68	3.53	74	5	75	0	0	0	0	2	0	0	0
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	3.86	13	2.86	60	4	50	0	0	0	0	2	0	0	0
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	3.86	13	3.00	63	4	50	0	0	0	0	2	0	0	0
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	3.86	13	2.94	61	4	50	0	0	0	0	2	0	0	0
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	7.56	27	1.51	30	3	25	0	0	0	0	2	0	0	0
482	18,19,21,29,43,44,55,67,70,76,77,78,79	2.70	8	2.70	56	4	50	1	100	0	0	3	20	0	0
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0.51	0	2.48	51	4	50	0	0	0	0	2	0	0	0
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	9.08	33	1.10	21	3	25	1	100	0	0	7	100	0	0
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	7.56	27	1.59	32	3	25	0	0	0	0	2	0	0	0
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	2.70	8	2.84	59	4	50	1	100	0	0	3	20	0	0
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	2.70	8	2.77	58	4	50	1	100	0	0	3	20	0	0
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	6.39	23	1.34	27	3	25	1	100	0	0	3	20	0	0
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	0.51	0	2.26	47	5	75	1	100	0	0	3	20	0	0
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	2.36	7	3.41	72	4	50	0	0	0	0	2	0	0	0
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	0.84	1	2.26	47	5	75	1	100	0	0	3	20	0	0
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	6.39	23	1.42	28	3	25	1	100	0	0	3	20	0	0
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	3.86	13	2.86	60	4	50	0	0	0	0	2	0	0	0
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	7	2.84	59	4	50	1	100	0	0	3	20	0	0
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	7	3.34	70	4	50	0	0	0	0	2	0	0	0
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	3.86	13	3.00	63	4	50	0	0	0	0	2	0	0	0
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	3.86	13	2.94	61	4	50	0	0	0	0	2	0	0	0
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	7	2.78	58	4	50	1	100	0	0	3	20	0	0
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	2.70	8	2.70	56	4	50	1	100	0	0	3	20	0	0
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	2.70	8	2.84	59	4	50	1	100	0	0	3	20	0	0
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0.51	0	2.48	51	4	50	0	0	0	0	2	0	0	0
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	21	1.43	28	3	25	1	100	0	0	3	20	0	0
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	7	2.70	56	4	50	1	100	0	0	3	20	0	0
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	2.37	7	3.41	72	4	50	0	0	0	0	2	0	0	0
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	0.51	0	2.26	47	5	75	1	100	0	0	3	20	0	0
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	7	2.84	59	4	50	1	100	0	0	3	20	0	0
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	6.07	21	1.35	27	3	25	1	100	0	0	3	20	0	0
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	7	3.34	70	4	50	0	0	0	0	2	0	0	0
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	7	2.78	58	4	50	1	100	0	0	3	20	0	0
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	2.37	7	2.78	58	4	50	1	100	0	0	3	20	0	0
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	2.00	6	2.52	52	4	50	0	0	0	0	2	0	0	0
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	3.86	13	3.37	71	4	50	0	0	0	0	2	0	0	0
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	7	2.70	56	4	50	1	100	0	0	3	20	0	0
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	0.84	1	2.36	49	4	50	1	100	0	0	3	20	0	0
400	6,12,39,42,44,59,66,67,70	18.27	68	4.05	86	5	75	0	0	0	0	2	0	0	0
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	3.86	13	3.45	73	4	50	0	0	0	0	2	0	0	0
483	18,19,21,29,43,44,59,66,67,70,77,78,79	2.70	8	3.21	67	4	50	1	100	0	0	3	20	0	0
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0.51	0	2.93	61	4	50	0	0	0	0	2	0	0	0
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	2.70	8	3.29	69	4	50	1	100	0	0	3	20	0	0
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0.51	0	2.36	49	4	50	1	100	0	0	3	20	0	0
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0.51	0	2.85	59	4	50	0	0	0	0	2	0	0	0
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	3.86	13	3.37	71	4	50	0	0	0	0	2	0	0	0
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	2.00	6	2.52	52	4	50	0	0	0	0	2	0	0	0
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	3.86	13	3.45	73	4	50	0	0	0	0	2	0	0	0
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	2.37	7	3.29	69	4	50	1	100	0	0	3	20	0	0
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	2.70	8	3.21	67	4	50	1	100	0	0	3	20	0	0
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	0.84	1	2.36	49	4	50	1	100	0	0	3	20	0	0
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	2.70	8	3.29	69	4	50	1	100	0	0	3	20	0	0
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0.51	0	2.93	61	4	50	0	0	0	0	2	0	0	0
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	7	3.21	67	4	50	1	100	0	0	3	20	0	0
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0.51	0	2.36	49	4	50	1	100	0	0	3	20	0	0
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0.51	0	2.85	59	4	50	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	2.00	6	2.89	60	4	50	0	0	0	0	2	0	0	0
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	2.37	7	3.29	69	4	50	1	100	0	0	3	20	0	0
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	2.00	6	2.97	62	4	50	0	0	0	0	2	0	0	0
404	6,26,40,41,57,58,66,67,70	19.51	73	3.22	67	4	50	0	0	0	0	2	0	0	0
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	0.84	1	2.73	57	4	50	1	100	0	0	3	20	0	0
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	7	3.21	67	4	50	1	100	0	0	3	20	0	0
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	0.84	1	2.81	59	4	50	1	100	0	0	3	20	0	0
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	2.00	6	2.89	60	4	50	0	0	0	0	2	0	0	0
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0.51	0	2.81	59	4	50	1	100	0	0	3	20	0	0
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	2.00	6	2.97	62	4	50	0	0	0	0	2	0	0	0
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	0.84	1	2.73	57	4	50	1	100	0	0	3	20	0	0
397	6,12,27,40,41,57,58,66,67,70	19.15	71	2.74	57	6	100	0	0	0	0	2	0	0	0
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0.51	0	2.73	57	4	50	1	100	0	0	3	20	0	0
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	0.84	1	2.81	59	4	50	1	100	0	0	3	20	0	0
402	6,26,40,41,42,44,55,67,70,76	21.50	80	4.19	89	4	50	0	0	0	0	2	0	0	0
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0.51	0	2.81	59	4	50	1	100	0	0	3	20	0	0
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0.51	0	2.73	57	4	50	1	100	0	0	3	20	0	0
395	6,12,27,40,41,42,44,55,67,70,76	21.13	79	3.71	78	6	100	0	0	0	0	2	0	0	0
403	6,26,40,41,42,59,66,67,70	21.49	80	4.71	100	4	50	0	0	0	0	2	0	0	0
396	6,12,27,40,41,42,44,59,66,67,70	21.13	79	4.23	90	6	100	0	0	0	0	2	0	0	0
405	6,26,40,56,58,66,67,70	26.62	100	2.92	61	4	50	0	0	0	0	2	0	0	0
398	6,12,27,40,56,58,66,67,70	26.25	99	2.44	50	6	100	0	0	0	0	2	0	0	0
	MIN	0.51	0	0.12	0	2	0	0	0	0	0	2	0	0	0
	MAX	26.62	100	4.71	100	6	100	1	100	2	100	7	100	0	0
	RANGE	26.10	100	4.59	100	4	100	1	100	2	100	5	100	0	0

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
392	5,35,38,64,71,73	4	4.55	6	0.74	11	1.58	17	1	36	20	61.40	42	2	50	0	0
252	4,17,32,37,50,69,75,80	0	0.00	7	1.11	7	0.53	15	1	32	7	59.35	40	2	50	0	0
382	5,35,36,37,50,69,75,80	0	0.00	9	1.85	13	2.11	19	1	35	17	53.99	36	2	50	0	0
394	5,60,62,64	0	0.00	11	2.59	16	2.89	25	1	32	7	69.90	50	1	25	0	0
393	5,60,61,64	2	2.27	12	2.96	14	2.37	24	1	30	0	73.71	53	1	25	0	0
267	4,17,32,37,64,71,72,74,75	1	1.14	4	0.00	7	0.53	16	1	32	7	62.96	43	2	50	0	0
261	4,17,32,37,49,64,71,73	1	1.14	5	0.37	7	0.53	13	0	33	10	70.98	51	2	50	0	0
384	5,35,36,37,64,71,72,74,75	1	1.14	6	0.74	13	2.11	20	1	35	17	57.60	39	2	50	0	0
388	5,35,38,49,50,69,75,80	3	3.41	8	1.48	12	1.84	18	1	38	27	50.61	33	2	50	0	0
378	5,35,36,37,49,64,71,73	1	1.14	7	1.11	13	2.11	17	1	36	20	65.63	46	2	50	0	0
263	4,17,32,37,50,53,65,67,75	0	0.00	6	0.74	7	0.53	15	1	33	10	59.35	40	2	50	0	0
259	4,17,32,36,38,64,71,73	4	4.55	5	0.37	5	0.00	12	0	35	17	69.31	49	2	50	0	0
380	5,35,36,37,50,53,65,67,75	0	0.00	8	1.48	13	2.11	19	1	36	20	53.99	36	2	50	0	0
264	4,17,32,37,50,53,67,70,75,76,84	0	0.00	6	0.74	7	0.53	16	1	34	13	64.92	45	2	50	0	0
390	5,35,38,49,64,71,72,74,75	4	4.55	5	0.37	12	1.84	19	1	38	27	54.22	36	2	50	0	0
381	5,35,36,37,50,53,67,70,75,76,84	0	0.00	8	1.48	13	2.11	20	1	37	23	59.57	41	2	50	0	0
266	4,17,32,37,63,74,75,80	3	3.41	6	0.74	14	2.37	12	0	34	13	66.49	47	2	50	0	0
383	5,35,36,37,63,74,75,80	3	3.41	8	1.48	20	3.95	16	1	37	23	61.13	42	2	50	0	0
386	5,35,38,49,50,53,65,67,75	3	3.41	7	1.11	12	1.84	18	1	39	30	50.61	33	2	50	0	0
387	5,35,38,49,50,53,67,70,75,76,84	3	3.41	7	1.11	12	1.84	19	1	40	33	56.19	38	2	50	0	0
256	4,17,32,36,38,49,50,69,75,80	3	3.41	7	1.11	6	0.26	13	0	36	20	58.51	40	2	50	0	0
389	5,35,38,49,63,74,75,80	6	6.82	7	1.11	19	3.68	15	1	40	33	57.75	39	2	50	0	0
391	5,35,38,63,72,73,80	6	6.82	8	1.48	18	3.42	13	0	41	37	64.93	45	2	50	0	0
258	4,17,32,36,38,49,64,71,72,74,75	4	4.55	4	0.00	6	0.26	14	0	36	20	62.12	43	2	50	0	0
118	2,8,9,17,32,37,50,69,75,80,81	1	1.14	12	2.96	13	2.11	20	1	40	33	62.96	43	1	25	0	0
241	3,9,17,32,37,50,69,75,80	4	4.55	14	3.70	14	2.37	22	1	36	20	52.79	35	1	25	0	0
413	9,17,32,37,50,69,75,79,80,81	0	0.00	9	1.85	16	2.89	23	1	34	13	63.48	44	1	25	0	0
254	4,17,32,36,38,49,50,53,65,67,75	3	3.41	6	0.74	6	0.26	13	0	37	23	58.51	40	2	50	0	0
260	4,17,32,37,49,63,72,73,80	3	3.41	7	1.11	14	2.37	9	0	38	27	74.51	54	2	50	0	0
255	4,17,32,36,38,49,50,53,67,70,75,76,84	3	3.41	6	0.74	6	0.26	14	0	38	27	64.09	44	2	50	0	0
120	2,8,9,17,32,37,64,71,72,74,75,81	2	2.27	9	1.85	13	2.11	21	1	40	33	66.57	47	1	25	0	0
377	5,35,36,37,49,63,72,73,80	3	3.41	9	1.85	20	3.95	13	0	41	37	69.16	49	2	50	0	0
114	2,8,9,17,32,37,49,64,71,73,81	2	2.27	10	2.22	13	2.11	18	1	41	37	74.59	54	1	25	0	0
243	3,9,17,32,37,64,71,72,74,75	5	5.68	11	2.59	14	2.37	23	1	36	20	56.40	38	1	25	0	0
408	9,17,32,37,64,71,72,74,75,79,81	1	1.14	6	0.74	16	2.89	24	1	34	13	67.09	47	1	25	0	0
257	4,17,32,36,38,49,63,34,74,75,80	6	6.82	6	0.74	13	2.11	10	0	38	27	65.65	46	2	50	0	0
237	3,9,17,32,37,49,64,71,73	5	5.68	12	2.96	14	2.37	20	1	37	23	64.43	45	1	25	0	0
407	9,17,32,37,49,64,71,73,79,81	1	1.14	7	1.11	16	2.89	21	1	35	17	75.11	54	1	25	0	0
253	4,17,32,36,38,36,34,72,73,80	6	6.82	7	1.11	12	1.84	8	0	40	33	72.84	52	2	50	0	0
117	2,8,9,17,32,37,50,53,65,67,71,75,81	1	1.14	11	2.59	13	2.11	21	1	40	33	62.96	43	1	25	0	0
415	9,17,32,37,50,53,65,67,71,75,79,81	0	0.00	8	1.48	16	2.89	23	1	34	13	63.48	44	1	25	0	0
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	1	1.14	11	2.59	13	2.11	21	1	41	37	68.53	48	1	25	0	0
262	4,17,32,37,50,53,55,59,66,67,70,75,84	0	0.00	14	3.70	15	2.63	20	1	40	33	82.91	61	3	75	0	0
112	2,8,9,17,32,36,38,64,71,73,81	5	5.68	10	2.22	11	1.58	18	1	43	43	72.92	52	1	25	0	0
240	3,9,17,32,37,50,53,65,67,75	4	4.55	13	3.33	14	2.37	22	1	37	23	52.79	35	1	25	0	0
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	0	0.00	8	1.48	16	2.89	24	1	35	17	69.06	49	1	25	0	0
235	3,9,17,32,36,38,64,71,73	8	9.09	12	2.96	12	1.84	19	1	39	30	62.75	43	1	25	0	0
406	9,17,32,36,38,64,71,73,79,81	4	4.55	7	1.11	14	2.37	20	1	37	23	73.44	53	1	25	0	0
379	5,35,36,37,50,53,55,59,66,67,70,75,84	0	0.00	16	4.44	21	4.21	24	1	43	43	77.56	56	3	75	0	0
238	3,9,17,32,37,50,35,67,70,75,76,84	4	4.55	13	3.33	14	2.37	23	1	38	27	58.37	39	1	25	0	0
119	2,8,9,17,32,37,63,74,75,80,81	4	4.55	11	2.59	20	3.95	18	1	42	40	70.10	50	1	25	0	0
242	3,9,17,32,37,63,74,75,80	7	7.95	13	3.33	21	4.21	19	1	38	27	59.93	41	1	25	0	0
410	9,17,32,37,63,74,75,79,80,81	3	3.41	8	1.48	23	4.74	20	1	36	20	70.62	50	1	25	0	0
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	12	13.64	30	9.63	18	3.42	25	1	43	43	47.83	30	1	25	0	0
385	5,35,38,49,50,53,55,59,66,67,70,75,84	3	3.41	15	4.07	20	3.95	23	1	46	53	74.18	53	3	75	0	0
246	4,17,24,25,31,33,45,47,48,52,65,67	4	4.55	10	2.22	13	2.11	21	1	47	57	44.58	27	1	25	0	0
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	4	4.55	12	2.96	12	1.84	18	1	44	47	62.12	43	1	25	0	0
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	12	13.64	30	9.63	18	3.42	26	1	45	50	53.40	35	1	25	0	0
232	3,9,17,32,36,38,49,50,69,75,80	7	7.95	14	3.70	13	2.11	20	1	40	33	51.95	34	1	25	0	0
414	9,17,32,36,38,49,50,69,75,71,79,80,81	3	3.41	9	1.85	15	2.63	21	1	38	27	62.64	43	1	25	0	0
247	4,17,24,25,31,33,47,48,52,67,70,76,84	4	4.55	10	2.22	13	2.11	22	1	49	63	50.16	32	1	25	0	0
306	4,9,11,14,20,29,43,44,55,67,70,76,83	2	2.27	11	2.59	9	1.05	12	0	41	37	95.09	72	2	50	0	0
18	2,7,13,28,43,44,55,67,70,76	2	2.27	12	2.96	15	2.63	16	1	39	30	85.35	63	1	25	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	13	14.77	33	10.74	22	4.47	28	1	43	43	44.01	27	0	0	0	0
354	4,9,14,20,29,43,44,55,67,70,76,78,81	2	2.27	11	2.59	9	1.05	12	0	42	40	87.18	65	2	50	0	0
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	5	5.68	9	1.85	12	1.84	19	1	44	47	65.73	46	1	25	0	0
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	12	13.64	30	9.63	25	5.26	31	2	37	23	44.53	27	0	0	0	0
233	3,9,17,32,36,38,49,64,71,72,74,75	8	9.09	11	2.59	13	2.11	21	1	40	33	55.57	37	1	25	0	0
409	9,17,32,36,38,49,64,71,72,74,75,79,81	4	4.55	6	0.74	15	2.63	22	1	38	27	66.25	46	1	25	0	0
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	13	14.77	33	10.74	22	4.47	29	2	45	50	49.59	32	0	0	0	0
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	4	4.55	9	1.85	10	1.32	14	0	41	37	92.68	70	2	50	0	0
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	12	13.64	30	9.63	25	5.26	32	2	39	30	50.11	32	0	0	0	0
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	4	4.55	9	1.85	10	1.32	14	0	42	40	84.77	63	2	50	0	0
149	3,11,16,23,25,31,33,45,47,48,52,65,67	16	18.18	35	11.48	23	4.74	30	2	42	40	33.85	18	0	0	0	0
276	4,7,8,9,13,28,43,44,55,67,70,76,81	1	1.14	11	2.59	13	2.11	15	1	39	30	99.01	75	2	50	0	0
15	2,10,20,29,43,44,55,67,70,76	4	4.55	11	2.59	12	1.84	13	0	41	37	83.86	62	1	25	0	0
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	4	4.55	11	2.59	12	1.84	19	1	44	47	62.12	43	1	25	0	0
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	16	18.18	35	11.48	23	4.74	31	2	43	43	39.42	23	0	0	0	0
80	2,8,14,20,29,43,44,55,67,70,76,78	3	3.41	14	3.70	13	2.11	15	1	44	47	83.37	61	1	25	0	0
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	3	3.41	8	1.48	15	2.63	21	1	38	27	62.64	43	1	25	0	0
113	2,8,9,17,32,37,49,63,72,73,80,81	4	4.55	12	2.96	20	3.95	15	1	46	53	78.12	57	1	25	0	0
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	4	4.55	11	2.59	12	1.84	19	1	45	50	67.70	48	1	25	0	0
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3	3.41	14	3.70	13	2.11	15	1	43	43	91.28	68	1	25	0	0
500	14,20,29,43,44,55,67,70,76,78,79	2	2.27	11	2.59	16	2.89	18	1	38	27	83.89	62	1	25	0	0
230	3,9,17,32,36,38,49,50,53,65,67,75	7	7.95	13	3.33	13	2.11	20	1	41	37	51.95	34	1	25	0	0
236	3,9,17,32,37,49,63,72,73,80	7	7.95	14	3.70	21	4.21	16	1	42	40	67.96	48	1	25	0	0
412	9,17,32,37,49,63,72,73,79,80,81	3	3.41	9	1.85	23	4.74	17	1	40	33	78.64	57	1	25	0	0
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	3	3.41	8	1.48	15	2.63	22	1	39	30	68.22	48	1	25	0	0
497	11,14,20,29,43,44,55,67,70,76,79,81,83	2	2.27	11	2.59	16	2.89	18	1	37	23	91.80	69	1	25	0	0
12	2,10,20,22,28,43,44,55,67,70,76	6	6.82	9	1.85	13	2.11	15	1	41	37	81.45	60	1	25	0	0
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	7	7.95	13	3.33	13	2.11	21	1	42	40	57.53	39	1	25	0	0
307	4,9,11,14,20,29,43,44,59,66,67,70,83	2	2.27	19	5.56	15	2.63	15	1	43	43	94.59	71	2	50	0	0
77	2,8,14,20,22,28,43,44,55,67,70,76,78	5	5.68	12	2.96	14	2.37	17	1	44	47	80.96	59	1	25	0	0
19	2,7,13,28,43,44,59,66,67,70	2	2.27	20	5.93	21	4.21	19	1	41	37	84.84	63	1	25	0	0
355	4,9,14,20,29,43,44,59,66,67,70,78,81	2	2.27	19	5.56	15	2.63	15	1	44	47	86.67	64	2	50	0	0
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	5	5.68	12	2.96	14	2.37	17	1	43	43	88.87	66	1	25	0	0
136	3,11,14,20,29,43,44,55,67,70,76,83	6	6.82	16	4.44	14	2.37	17	1	42	40	81.11	59	1	25	0	0
506	14,20,22,28,43,44,55,67,70,76,78,79	4	4.55	9	1.85	17	3.16	20	1	38	27	81.48	60	1	25	0	0
111	2,8,9,17,32,36,38,63,72,73,80,81	7	7.95	12	2.96	18	3.42	14	0	48	60	76.45	55	1	25	0	0
525	7,8,13,28,43,44,55,67,70,76,79	1	1.14	11	2.59	20	3.95	21	1	35	17	95.71	72	1	25	0	0
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	1	1.14	19	5.56	21	4.21	25	1	46	53	86.52	64	2	50	0	0
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	4	4.55	9	1.85	17	3.16	20	1	37	23	89.39	67	1	25	0	0
181	3,14,20,29,43,44,55,67,70,76,78,81	6	6.82	16	4.44	14	2.37	17	1	43	43	73.20	52	1	25	0	0
234	3,9,17,32,36,38,63,72,73,80	10	11.36	14	3.70	19	3.68	15	1	44	47	66.28	46	1	25	0	0
411	9,17,32,36,38,63,72,73,79,80,81	6	6.82	9	1.85	21	4.21	16	1	42	40	76.97	56	1	25	0	0
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	4	4.55	17	4.81	16	2.89	17	1	43	43	92.18	69	2	50	0	0
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	16	18.18	33	10.74	16	2.89	21	1	47	57	41.99	25	1	25	0	0
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	16	18.18	33	10.74	16	2.89	21	1	47	57	41.99	25	1	25	0	0
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	0	0.00	16	4.44	24	5.00	28	1	40	33	87.05	65	2	50	0	0
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3	3.41	13	3.33	13	2.11	14	0	42	40	105.75	81	2	50	0	0
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	12	13.64	31	10.00	19	3.68	26	1	44	47	47.83	30	1	25	0	0
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	4	4.55	21	6.30	22	4.47	27	1	43	43	76.36	55	2	50	0	0
323	4,9,11,16,23,25,34,47,48,52,65,67	13	14.77	47	15.93	47	11.05	67	4	42	40	41.24	24	1	25	0	0
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	4	4.55	17	4.81	16	2.89	17	1	44	47	84.27	62	2	50	0	0
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	16	18.18	33	10.74	16	2.89	21	1	48	60	34.08	18	1	25	0	0
133	3,11,14,20,22,28,43,44,55,67,70,76,83	8	9.09	14	3.70	15	2.63	19	1	42	40	78.70	57	1	25	0	0
277	4,7,8,9,13,28,43,44,59,66,67,70,81	1	1.14	19	5.56	19	3.68	18	1	41	37	98.50	75	2	50	0	0
16	2,10,20,29,43,44,59,66,67,70	4	4.55	19	5.56	18	3.42	16	1	43	43	83.35	61	1	25	0	0
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	16	18.18	33	10.74	16	2.89	22	1	49	63	47.57	30	1	25	0	0
244	4,17,24,25,31,33,45,47,48,52,53,69,80	4	4.55	11	2.59	14	2.37	22	1	48	60	44.58	27	1	25	0	0
203	3,7,8,13,28,43,44,55,67,70,76,81	5	5.68	16	4.44	18	3.42	20	1	39	30	85.02	63	1	25	0	0
250	4,17,24,25,34,47,48,52,65,67	5	5.68	27	8.52	42	9.74	63	4	46	53	37.99	22	1	25	0	0
81	2,8,14,20,29,43,44,59,66,67,70,78	3	3.41	22	6.67	19	3.68	18	1	46	53	82.86	61	1	25	0	0
178	3,14,20,22,28,43,44,55,67,70,76,78,81	8	9.09	14	3.70	15	2.63	19	1	43	43	70.79	50	1	25	0	0
519	8,10,20,29,43,44,55,67,70,76,79	3	3.41	10	2.22	17	3.16	18	1	37	23	94.16	71	1	25	0	0
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	13	14.77	47	15.93	47	11.05	68	4	44	47	46.81	29	1	25	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3	3.41	22	6.67	19	3.68	18	1	45	50	90.77	68	1	25	0	0
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	16	18.18	33	10.74	16	2.89	22	1	50	67	39.66	23	1	25	0	0
501	14,20,29,43,44,59,66,67,70,78,79	2	2.27	19	5.56	22	4.47	21	1	40	33	83.38	61	1	25	0	0
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	7	7.95	15	4.07	19	3.68	16	1	47	57	112.25	87	2	50	0	0
498	11,14,20,29,43,44,59,66,67,70,79,81,83	2	2.27	19	5.56	22	4.47	21	1	39	30	91.30	68	1	25	0	0
251	4,17,24,25,34,47,48,52,67,70,76,84	5	5.68	27	8.52	42	9.74	64	4	48	60	43.57	26	1	25	0	0
13	2,10,20,22,28,43,44,59,66,67,70	6	6.82	17	4.81	19	3.68	18	1	43	43	80.94	59	1	25	0	0
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	7	7.95	15	4.07	19	3.68	16	1	48	60	104.34	80	2	50	0	0
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	17	19.32	36	11.85	20	3.95	24	1	47	57	38.18	22	0	0	0	0
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	17	19.32	36	11.85	20	3.95	24	1	49	63	30.27	15	0	0	0	0
17	2,7,13,28,42,43,57,58,66,67,70	7	7.95	16	4.44	25	5.26	20	1	46	53	102.50	78	1	25	0	0
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	5	5.68	15	4.07	19	3.68	27	1	53	77	48.19	30	0	0	0	0
78	2,8,14,20,22,28,43,44,59,66,67,70,78	5	5.68	20	5.93	20	3.95	20	1	46	53	80.46	59	1	25	0	0
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	13	14.77	34	11.11	23	4.74	29	2	44	47	44.01	27	0	0	0	0
522	8,10,20,22,28,43,44,55,67,70,76,79	5	5.68	8	1.48	18	3.42	20	1	37	23	91.75	69	1	25	0	0
53	2,8,11,16,23,25,34,47,48,52,65,67,81	14	15.91	50	17.04	51	12.11	70	4	42	40	37.42	21	0	0	0	0
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	12	13.64	38	12.59	26	5.53	30	2	50	67	71.39	51	2	50	0	0
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	16	18.18	33	10.74	23	4.74	27	1	41	37	38.70	22	0	0	0	0
450	23,25,31,33,45,47,48,52,65,67,77,78,82	16	18.18	33	10.74	23	4.74	27	1	43	43	30.79	15	0	0	0	0
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	5	5.68	20	5.93	20	3.95	20	1	45	50	88.37	66	1	25	0	0
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	4	4.55	12	2.96	22	4.47	29	2	47	57	48.72	31	0	0	0	0
219	3,8,10,20,29,43,44,55,67,70,76,81	7	7.95	15	4.07	15	2.63	17	1	41	37	83.47	62	1	25	0	0
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	23	26.14	53	18.15	32	7.11	18	1	39	30	58.20	39	1	25	0	0
137	3,11,14,20,29,43,44,59,66,67,70,83	6	6.82	24	7.41	20	3.95	20	1	44	47	80.61	59	1	25	0	0
507	14,20,22,28,43,44,59,66,67,70,78,79	4	4.55	17	4.81	23	4.74	23	1	40	33	80.98	59	1	25	0	0
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	12	13.64	31	10.00	26	5.53	32	2	38	27	44.53	27	0	0	0	0
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	25	28.41	28	8.89	12	1.84	21	1	47	57	57.82	39	1	25	0	0
430	11,16,23,25,34,47,48,52,65,67,79,81	13	14.77	47	15.93	54	12.89	73	5	36	20	37.94	21	0	0	0	0
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	23	26.14	53	18.15	32	7.11	18	1	38	27	70.59	50	1	25	0	0
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	17	19.32	36	11.85	20	3.95	25	1	49	63	43.76	27	0	0	0	0
526	7,8,13,28,43,44,59,66,67,70,79	1	1.14	19	5.56	26	5.53	24	1	37	23	95.21	72	1	25	0	0
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	17	19.32	36	11.85	20	3.95	25	1	51	70	35.85	20	0	0	0	0
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	4	4.55	17	4.81	23	4.74	23	1	39	30	88.89	66	1	25	0	0
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	5	5.68	15	4.07	19	3.68	28	1	55	83	53.77	35	0	0	0	0
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	9	10.23	13	3.33	20	3.95	18	1	48	60	109.84	85	2	50	0	0
182	3,14,20,29,43,44,59,66,67,70,78,81	6	6.82	24	7.41	20	3.95	20	1	45	50	72.70	52	1	25	0	0
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	14	15.91	50	17.04	51	12.11	71	5	44	47	43.00	26	0	0	0	0
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	16	18.18	33	10.74	23	4.74	28	1	43	43	44.28	27	0	0	0	0
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	16	18.18	33	10.74	23	4.74	28	1	45	50	36.37	20	0	0	0	0
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	4	4.55	18	5.19	21	4.21	26	1	55	83	68.15	48	2	50	0	0
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	4	4.55	12	2.96	22	4.47	30	2	49	63	54.30	36	0	0	0	0
14	2,10,20,29,42,43,57,58,66,67,70	9	10.23	15	4.07	22	4.47	17	1	47	57	101.01	77	1	25	0	0
224	3,9,17,24,25,31,33,45,47,48,52,65,67	8	9.09	17	4.81	20	3.95	28	1	52	73	38.03	22	0	0	0	0
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	9	10.23	13	3.33	20	3.95	18	1	49	63	101.93	78	2	50	0	0
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3	3.41	21	6.30	19	3.68	17	1	44	47	105.24	81	2	50	0	0
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	25	28.41	28	8.89	12	1.84	22	1	49	63	63.40	44	1	25	0	0
151	3,11,16,23,25,31,33,45,47,52,53,69,80	16	18.18	36	11.85	24	5.00	31	2	43	43	33.85	18	0	0	0	0
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	23	26.14	53	18.15	32	7.11	19	1	40	33	76.17	55	1	25	0	0
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	20	22.73	38	12.59	21	4.21	26	1	47	57	28.01	13	0	0	0	0
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	6	6.82	15	4.07	23	4.74	19	1	46	53	116.16	90	2	50	0	0
154	3,11,16,23,25,34,47,48,52,65,67	17	19.32	52	17.78	52	12.37	72	5	41	37	27.26	12	0	0	0	0
216	3,8,10,20,22,28,43,44,55,67,70,76,81	9	10.23	13	3.33	16	2.89	19	1	41	37	81.06	59	1	25	0	0
79	2,8,14,20,29,42,43,57,58,66,67,70,78	8	9.09	18	5.19	23	4.74	19	1	50	67	100.52	77	1	25	0	0
134	3,11,14,20,22,28,43,44,59,66,67,70,83	8	9.09	22	6.67	21	4.21	22	1	44	47	78.20	57	1	25	0	0
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	8	9.09	17	4.81	20	3.95	29	2	53	77	43.61	26	0	0	0	0
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	8	9.09	18	5.19	23	4.74	19	1	49	63	108.43	83	1	25	0	0
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	23	26.14	53	18.15	32	7.11	19	1	41	37	68.26	48	1	25	0	0
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	20	22.73	38	12.59	21	4.21	27	1	48	60	33.59	18	0	0	0	0
9	2,10,15,19,30,33,45,47,48,52,65,67	25	28.41	53	18.15	35	7.89	21	1	36	20	59.38	40	0	0	0	0
155	3,11,16,23,25,34,47,48,52,67,70,76,84	17	19.32	52	17.78	52	12.37	73	5	42	40	32.84	17	0	0	0	0
431	11,16,23,25,34,47,48,52,67,70,76,84	17	19.32	52	17.78	52	12.37	73	5	42	40	32.84	17	0	0	0	0
204	3,7,8,13,28,43,44,59,66,67,70,81	5	5.68	24	7.41	24	5.00	23	1	41	37	84.52	62	1	25	0	0
502	14,20,29,42,43,57,58,66,67,70,78,79	7	7.95	15	4.07	26	5.53	22	1	44	47	101.05	77	1	25	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
179	3,14,20,22,28,43,44,59,66,67,70,78,81	8	9.09	22	6.67	21	4.21	22	1	45	50	70.29	50	1	25	0	0
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	10	11.36	33	10.74	38	8.68	44	3	44	47	86.86	65	1	25	0	0
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	20	22.73	38	12.59	21	4.21	26	1	49	63	20.10	6	0	0	0	0
520	8,10,20,29,43,44,59,66,67,70,79	3	3.41	18	5.19	23	4.74	21	1	39	30	93.65	70	1	25	0	0
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	7	7.95	15	4.07	26	5.53	22	1	43	43	108.96	84	1	25	0	0
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	13	14.77	41	13.70	30	6.58	33	2	51	70	67.58	48	1	25	0	0
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	24	27.27	56	19.26	36	8.16	21	1	38	27	66.78	47	0	0	0	0
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	24	27.27	56	19.26	36	8.16	21	1	40	33	58.87	40	0	0	0	0
11	2,10,20,22,28,42,43,57,58,66,67,70	11	12.50	13	3.33	23	4.74	19	1	48	60	98.60	75	1	25	0	0
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	20	22.73	38	12.59	21	4.21	27	1	50	67	25.68	11	0	0	0	0
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	25	28.41	53	18.15	35	7.89	22	1	38	27	64.96	45	0	0	0	0
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	12	13.64	38	12.59	33	7.37	36	2	45	50	68.10	48	1	25	0	0
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	23	26.14	53	18.15	39	8.95	24	1	32	7	67.30	47	0	0	0	0
470	14,15,19,30,33,45,47,48,52,65,67,78,79	23	26.14	53	18.15	39	8.95	24	1	34	13	59.39	40	0	0	0	0
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	10	11.36	16	4.44	24	5.00	21	1	51	70	98.12	74	1	25	0	0
135	3,11,14,20,29,42,43,57,58,66,67,70,83	11	12.50	20	5.93	24	5.00	21	1	48	60	98.27	75	1	25	0	0
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	10	11.36	16	4.44	24	5.00	21	1	50	67	106.03	81	1	25	0	0
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	10	11.36	33	10.74	38	8.68	45	3	46	53	92.44	69	1	25	0	0
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	24	27.27	56	19.26	36	8.16	22	1	40	33	72.36	52	0	0	0	0
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	24	27.27	56	19.26	36	8.16	22	1	42	40	64.45	45	0	0	0	0
523	8,10,20,22,28,43,44,59,66,67,70,79	5	5.68	16	4.44	24	5.00	23	1	39	30	91.24	68	1	25	0	0
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	16	18.18	43	14.44	31	6.84	35	2	49	63	57.41	39	1	25	0	0
508	14,20,22,28,42,43,57,58,66,67,70,78,79	9	10.23	13	3.33	27	5.79	24	1	45	50	98.64	75	1	25	0	0
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	4	4.55	19	5.56	20	3.95	23	1	50	67	85.69	63	2	50	0	0
220	3,8,10,20,29,43,44,59,66,67,70,81	7	7.95	23	7.04	21	4.21	20	1	43	43	82.96	61	1	25	0	0
527	7,8,13,28,42,43,57,58,66,67,70,79	6	6.82	15	4.07	30	6.58	25	1	42	40	112.87	87	1	25	0	0
180	3,14,20,29,42,43,57,58,66,67,70,78,81	11	12.50	20	5.93	24	5.00	21	1	49	63	90.36	68	1	25	0	0
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	9	10.23	13	3.33	27	5.79	24	1	44	47	106.55	82	1	25	0	0
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	23	26.14	53	18.15	39	8.95	25	1	34	13	72.88	52	0	0	0	0
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	23	26.14	53	18.15	39	8.95	25	1	36	20	64.97	45	0	0	0	0
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	3	3.41	16	4.44	23	4.74	26	1	44	47	86.21	64	2	50	0	0
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	8	9.09	17	4.81	23	4.74	18	1	48	60	122.90	96	2	50	0	0
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	24	27.27	52	17.78	33	7.37	20	1	38	27	72.97	52	1	25	0	0
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	27	30.68	58	20.00	37	8.42	23	1	38	27	56.61	38	0	0	0	0
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	7	7.95	21	6.30	21	4.21	25	1	47	57	75.52	55	2	50	0	0
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	16	18.18	34	11.11	17	3.16	22	1	48	60	41.99	25	1	25	0	0
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	17	19.32	50	17.04	45	10.53	63	4	46	53	35.40	19	1	25	0	0
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	26	29.55	27	8.52	13	2.11	23	1	48	60	60.20	41	1	25	0	0
321	4,9,11,16,23,25,34,47,48,52,53,69,80	13	14.77	48	16.30	48	11.32	68	4	43	43	41.24	24	1	25	0	0
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	13	14.77	18	5.19	25	5.26	23	1	49	63	95.86	72	1	25	0	0
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	27	30.68	58	20.00	37	8.42	24	1	39	30	62.19	43	0	0	0	0
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	16	18.18	34	11.11	17	3.16	22	1	49	63	34.08	18	1	25	0	0
217	3,8,10,20,22,28,43,44,59,66,67,70,81	9	10.23	21	6.30	22	4.47	22	1	43	43	80.55	59	1	25	0	0
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	17	19.32	50	17.04	45	10.53	63	4	47	57	27.49	12	1	25	0	0
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	24	27.27	52	17.78	33	7.37	21	1	40	33	78.55	57	1	25	0	0
521	8,10,20,29,42,43,57,58,66,67,70,79	8	9.09	14	3.70	27	5.79	22	1	43	43	111.31	86	1	25	0	0
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	27	30.68	58	20.00	37	8.42	23	1	40	33	48.70	31	0	0	0	0
202	3,7,8,13,28,42,43,57,58,66,67,70,81	10	11.36	20	5.93	28	6.05	24	1	46	53	102.18	78	1	25	0	0
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	13	14.77	18	5.19	25	5.26	23	1	50	67	87.95	65	1	25	0	0
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	17	19.32	50	17.04	45	10.53	64	4	48	60	40.98	24	1	25	0	0
248	4,17,24,25,34,47,48,52,53,69,80	5	5.68	28	8.89	43	10.00	64	4	47	57	37.99	22	1	25	0	0
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	26	29.55	27	8.52	13	2.11	24	1	50	67	65.78	46	1	25	0	0
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	27	30.68	58	20.00	37	8.42	24	1	41	37	54.28	36	0	0	0	0
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	17	19.32	50	17.04	45	10.53	64	4	49	63	33.07	17	1	25	0	0
510	8,10,15,19,30,33,45,47,48,52,65,67,79	24	27.27	52	17.78	40	9.21	26	1	32	7	69.68	49	0	0	0	0
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	17	19.32	37	12.22	21	4.21	25	1	48	60	38.18	22	0	0	0	0
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	17	19.32	37	12.22	21	4.21	25	1	50	67	30.27	15	0	0	0	0
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	5	5.68	16	4.44	20	3.95	28	1	54	80	48.19	30	0	0	0	0
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	18	20.45	53	18.15	49	11.58	66	4	46	53	31.59	16	0	0	0	0
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	16	18.18	41	13.70	24	5.00	26	1	54	80	65.56	46	2	50	0	0
218	3,8,10,20,29,42,43,57,58,66,67,70,81	12	13.64	19	5.56	25	5.26	21	1	47	57	100.62	77	1	25	0	0
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	6	6.82	32	10.37	48	11.32	69	4	52	73	41.60	25	0	0	0	0
524	8,10,20,22,28,42,43,57,58,66,67,70,79	10	11.36	12	2.96	28	6.05	24	1	44	47	108.91	84	1	25	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	6	6.82	32	10.37	48	11.32	70	4	52	73	47.18	30	0	0	0	0
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	24	27.27	52	17.78	40	9.21	27	1	34	13	75.26	54	0	0	0	0
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	14	15.91	51	17.41	52	12.37	71	5	43	43	37.42	21	0	0	0	0
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	16	18.18	34	11.11	24	5.00	28	1	42	40	38.70	22	0	0	0	0
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	16	18.18	34	11.11	24	5.00	28	1	44	47	30.79	15	0	0	0	0
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	13	14.77	55	18.89	55	13.16	72	5	49	63	64.80	45	2	50	0	0
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	4	4.55	13	3.33	23	4.74	30	2	48	60	48.72	31	0	0	0	0
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	17	19.32	50	17.04	52	12.37	69	4	40	33	32.11	16	0	0	0	0
438	23,25,34,47,48,52,65,67,78,79,82	17	19.32	50	17.04	52	12.37	69	4	42	40	24.20	9	0	0	0	0
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	16	18.18	41	13.70	24	5.00	26	1	55	83	57.65	39	2	50	0	0
425	9,17,24,25,34,47,48,52,65,67,71,79,81	5	5.68	29	9.26	51	12.11	71	5	46	53	42.13	25	0	0	0	0
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	25	28.41	29	9.26	13	2.11	22	1	48	60	57.82	39	1	25	0	0
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	5	5.68	29	9.26	51	12.11	72	5	46	53	47.71	30	0	0	0	0
429	11,16,23,25,34,47,48,52,53,69,79,80,81	13	14.77	48	16.30	55	13.16	74	5	37	23	37.94	21	0	0	0	0
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	23	26.14	54	18.52	33	7.37	19	1	39	30	70.59	50	1	25	0	0
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	26	29.55	45	15.19	41	9.47	63	4	46	53	51.23	33	1	25	0	0
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	18	20.45	53	18.15	49	11.58	67	4	48	60	37.17	21	0	0	0	0
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	18	20.45	53	18.15	49	11.58	67	4	50	67	29.26	14	0	0	0	0
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	37	42.05	71	24.81	32	7.11	20	1	38	27	69.18	49	1	25	0	0
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	28	31.82	57	19.63	38	8.68	25	1	37	23	59.00	40	0	0	0	0
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	23	26.14	54	18.52	33	7.37	19	1	40	33	62.68	43	1	25	0	0
228	3,9,17,24,25,34,47,48,52,67,70,76,84	9	10.23	34	11.11	49	11.58	71	5	50	67	37.02	21	0	0	0	0
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	17	19.32	50	17.04	52	12.37	70	4	42	40	37.69	21	0	0	0	0
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	26	29.55	45	15.19	41	9.47	63	4	47	57	43.32	26	1	25	0	0
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	17	19.32	50	17.04	52	12.37	70	4	44	47	29.78	14	0	0	0	0
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	5	5.68	35	11.48	50	11.84	68	4	54	80	61.56	42	2	50	0	0
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	8	9.09	18	5.19	21	4.21	29	2	53	77	38.03	22	0	0	0	0
227	3,9,17,24,25,34,47,48,52,65,67	9	10.23	34	11.11	49	11.58	70	4	51	70	31.44	16	0	0	0	0
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	20	22.73	39	12.96	22	4.47	27	1	48	60	28.01	13	0	0	0	0
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	14	15.91	17	4.81	26	5.53	23	1	48	60	98.22	74	1	25	0	0
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	26	29.55	45	15.19	41	9.47	64	4	48	60	56.81	38	1	25	0	0
152	3,11,16,23,25,34,47,48,52,53,69,80	17	19.32	53	18.15	53	12.63	73	5	42	40	27.26	12	0	0	0	0
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	28	31.82	57	19.63	38	8.68	26	1	38	27	64.57	45	0	0	0	0
172	3,11,23,25,34,47,48,52,65,67,77,82,83	21	23.86	55	18.89	50	11.84	68	4	46	53	21.43	7	0	0	0	0
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	26	29.55	45	15.19	41	9.47	64	4	49	63	48.90	31	1	25	0	0
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	37	42.05	71	24.81	32	7.11	21	1	40	33	74.76	54	1	25	0	0
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	17	19.32	44	14.81	28	6.05	29	2	56	87	53.84	35	1	25	0	0
7	2,10,15,19,30,33,45,47,48,52,53,69,80	25	28.41	54	18.52	36	8.16	22	1	37	23	59.38	40	0	0	0	0
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	21	23.86	55	18.89	50	11.84	69	4	47	57	27.00	12	0	0	0	0
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	5	5.68	23	7.04	27	5.79	32	2	60	100	71.76	51	1	25	0	0
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	20	22.73	39	12.96	22	4.47	27	1	50	67	20.10	6	0	0	0	0
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	17	19.32	44	14.81	28	6.05	29	2	55	83	61.75	42	1	25	0	0
199	3,23,25,34,47,48,52,65,67,78,81,82	21	23.86	55	18.89	50	11.84	68	4	48	60	13.51	0	0	0	0	0
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	16	18.18	41	13.70	31	6.84	32	2	50	67	54.36	36	1	25	0	0
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	4	4.55	20	5.93	30	6.58	34	2	54	80	72.29	52	1	25	0	0
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	10	11.36	34	11.11	39	8.95	45	3	45	50	86.86	65	1	25	0	0
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	24	27.27	57	19.63	37	8.42	22	1	39	30	66.78	47	0	0	0	0
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	24	27.27	57	19.63	37	8.42	22	1	41	37	58.87	40	0	0	0	0
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	14	15.91	58	20.00	59	14.21	75	5	50	67	60.99	42	1	25	0	0
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	25	28.41	36	11.85	20	3.95	26	1	54	80	81.39	60	2	50	0	0
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	16	18.18	41	13.70	31	6.84	32	2	49	63	62.27	43	1	25	0	0
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	23	26.14	61	21.11	40	9.21	23	1	45	50	94.16	71	2	50	0	0
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	38	43.18	74	25.93	36	8.16	23	1	38	27	65.37	46	0	0	0	0
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	21	23.86	55	18.89	50	11.84	69	4	49	63	19.09	5	0	0	0	0
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	23	26.14	54	18.52	40	9.21	25	1	33	10	67.30	47	0	0	0	0
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	23	26.14	54	18.52	40	9.21	25	1	35	17	59.39	40	0	0	0	0
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	13	14.77	55	18.89	62	15.00	78	5	44	47	61.51	42	1	25	0	0
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	8	9.09	25	7.78	28	6.05	33	2	58	93	61.60	42	1	25	0	0
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	23	26.14	61	21.11	40	9.21	23	1	46	53	86.25	64	2	50	0	0
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	37	42.05	71	24.81	39	8.95	26	1	32	7	65.89	46	0	0	0	0
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	20	22.73	46	15.56	29	6.32	31	2	54	80	51.58	33	1	25	0	0
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	17	19.32	60	20.74	60	14.47	77	5	48	60	50.82	33	1	25	0	0
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	38	43.18	74	25.93	36	8.16	24	1	40	33	70.95	51	0	0	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
5	2,10,15,19,21,29,43,44,55,67,70,76	21	23.86	52	17.78	30	6.58	13	0	38	27	99.77	76	1	25	0	0
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	20	22.73	46	15.56	29	6.32	31	2	55	83	43.67	27	1	25	0	0
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	37	42.05	71	24.81	39	8.95	27	1	34	13	71.47	51	0	0	0	0
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	37	42.05	72	25.19	34	7.63	17	1	40	33	63.35	44	1	25	0	0
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	41	46.59	76	26.67	37	8.42	25	1	37	23	55.20	37	0	0	0	0
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	24	27.27	53	18.15	34	7.63	21	1	39	30	72.97	52	1	25	0	0
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	27	30.68	59	20.37	38	8.68	24	1	39	30	56.61	38	0	0	0	0
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	10	11.36	41	13.70	46	10.79	49	3	50	67	110.43	85	2	50	0	0
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	17	19.32	51	17.41	46	10.79	64	4	47	57	35.40	19	1	25	0	0
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	25	28.41	61	21.11	43	10.00	26	1	44	47	82.95	61	1	25	0	0
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	26	29.55	28	8.89	14	2.37	24	1	49	63	60.20	41	1	25	0	0
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	27	30.68	44	14.81	42	9.74	65	4	47	57	53.61	35	1	25	0	0
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	20	22.73	55	18.89	31	6.84	13	0	40	33	107.17	82	1	25	0	0
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	37	42.05	72	25.19	34	7.63	17	1	41	37	55.44	37	1	25	0	0
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	41	46.59	76	26.67	37	8.42	26	1	38	27	60.78	42	0	0	0	0
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	24	27.27	64	22.22	44	10.26	26	1	47	57	82.44	61	1	25	0	0
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	17	19.32	51	17.41	46	10.79	64	4	48	60	27.49	12	1	25	0	0
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	37	42.05	72	25.19	34	7.63	18	1	42	40	68.93	49	1	25	0	0
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	27	30.68	59	20.37	38	8.68	24	1	41	37	48.70	31	0	0	0	0
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	24	27.27	64	22.22	44	10.26	26	1	46	53	90.35	68	1	25	0	0
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	19	21.59	52	17.78	34	7.63	16	1	34	13	107.69	83	1	25	0	0
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	23	26.14	61	21.11	47	11.05	29	2	41	37	82.96	61	1	25	0	0
2	2,10,15,19,21,22,28,43,44,55,67,70,76	23	26.14	50	17.04	31	6.84	15	1	38	27	97.37	74	1	25	0	0
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	27	30.68	44	14.81	42	9.74	66	4	49	63	59.19	40	1	25	0	0
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	23	26.14	61	21.11	47	11.05	29	2	40	33	90.87	68	1	25	0	0
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	37	42.05	72	25.19	34	7.63	18	1	43	43	61.02	42	1	25	0	0
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	24	27.27	53	18.15	41	9.47	27	1	33	10	69.69	49	0	0	0	0
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	22	25.00	53	18.15	32	7.11	15	1	40	33	104.77	80	1	25	0	0
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	23	26.14	57	19.63	32	7.11	15	1	39	30	97.00	73	1	25	0	0
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	38	43.18	75	26.30	38	8.68	20	1	40	33	59.54	40	0	0	0	0
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	38	43.18	75	26.30	38	8.68	20	1	42	40	51.63	34	0	0	0	0
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	21	23.86	50	17.04	35	7.89	18	1	34	13	105.29	81	1	25	0	0
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	24	27.27	60	20.74	41	9.47	25	1	45	50	96.54	73	2	50	0	0
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	27	30.68	66	22.96	45	10.53	28	1	45	50	80.18	59	1	25	0	0
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	18	20.45	54	18.52	50	11.84	67	4	47	57	31.59	16	0	0	0	0
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	18	20.45	54	18.52	50	11.84	67	4	49	63	23.68	9	0	0	0	0
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	6	6.82	33	10.74	49	11.58	69	4	53	77	41.60	25	0	0	0	0
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	17	19.32	58	20.00	53	12.63	68	4	53	77	58.97	40	2	50	0	0
458	11,18,19,30,33,45,47,48,52,65,67,77,83	37	42.05	72	25.19	41	9.47	23	1	34	13	60.06	41	0	0	0	0
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	26	29.55	35	11.48	21	4.21	28	1	55	83	83.77	62	2	50	0	0
462	18,19,30,33,45,47,48,52,65,67,77,78,79	37	42.05	72	25.19	41	9.47	23	1	36	20	52.15	34	0	0	0	0
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	17	19.32	51	17.41	53	12.63	70	4	41	37	32.11	16	0	0	0	0
437	23,25,34,47,48,52,53,69,77,78,79,80,82	17	19.32	51	17.41	53	12.63	70	4	43	43	24.20	9	0	0	0	0
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	27	30.68	66	22.96	45	10.53	28	1	46	53	72.27	52	1	25	0	0
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	5	5.68	30	9.63	52	12.37	72	5	47	57	42.13	25	0	0	0	0
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	38	43.18	75	26.30	38	8.68	21	1	42	40	65.12	45	0	0	0	0
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	38	43.18	75	26.30	38	8.68	21	1	44	47	57.21	38	0	0	0	0
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	17	19.32	58	20.00	53	12.63	68	4	54	80	51.06	33	2	50	0	0
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	26	29.55	46	15.56	42	9.74	64	4	47	57	51.23	33	1	25	0	0
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	25	28.41	55	18.89	33	7.37	17	1	39	30	94.61	71	1	25	0	0
6	2,10,15,19,21,29,43,44,59,66,67,70	21	23.86	60	20.74	36	8.16	16	1	40	33	99.26	75	1	25	0	0
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	37	42.05	72	25.19	33	7.37	21	1	39	30	69.18	49	1	25	0	0
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	37	42.05	72	25.19	41	9.47	24	1	36	20	65.64	46	0	0	0	0
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	37	42.05	72	25.19	41	9.47	24	1	38	27	57.73	39	0	0	0	0
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	28	31.82	58	20.00	39	8.95	26	1	38	27	59.00	40	0	0	0	0
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	26	29.55	46	15.56	42	9.74	64	4	48	60	43.32	26	1	25	0	0
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	41	46.59	77	27.04	39	8.95	22	1	40	33	49.37	32	0	0	0	0
226	3,9,17,24,25,34,47,48,52,53,69,80	9	10.23	35	11.48	50	11.84	71	5	52	73	31.44	16	0	0	0	0
513	8,10,15,19,21,29,43,44,55,67,70,76,79	20	22.73	51	17.41	35	7.89	18	1	34	13	110.07	85	1	25	0	0
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	20	22.73	63	21.85	37	8.42	16	1	42	40	106.66	82	1	25	0	0
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	21	23.86	56	19.26	51	12.11	69	4	47	57	21.43	7	0	0	0	0
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	24	27.27	60	20.74	48	11.32	31	2	40	33	93.25	70	1	25	0	0
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	41	46.59	77	27.04	39	8.95	23	1	41	37	54.95	36	0	0	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	19	21.59	60	20.74	40	9.21	19	1	36	20	107.18	82	1	25	0	0
3	2,10,15,19,21,22,28,43,44,59,66,67,70	23	26.14	58	20.00	37	8.42	18	1	40	33	96.87	73	1	25	0	0
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	18	20.45	61	21.11	57	13.68	71	5	55	83	47.25	30	1	25	0	0
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	41	46.59	77	27.04	39	8.95	22	1	42	40	41.46	25	0	0	0	0
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	6	6.82	40	13.33	56	13.42	74	5	59	97	65.17	45	1	25	0	0
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	33	37.50	70	24.44	27	5.79	12	0	38	27	109.57	84	2	50	0	0
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	21	23.86	56	19.26	51	12.11	69	4	49	63	13.51	0	0	0	0	0
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	18	20.45	61	21.11	57	13.68	71	5	54	80	55.16	37	1	25	0	0
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	17	19.32	58	20.00	60	14.47	74	5	49	63	47.77	30	1	25	0	0
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	5	5.68	37	12.22	59	14.21	76	5	53	77	65.70	46	1	25	0	0
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	22	25.00	49	16.67	36	8.16	20	1	34	13	107.68	83	1	25	0	0
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	41	46.59	77	27.04	39	8.95	23	1	43	43	47.04	29	0	0	0	0
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	22	25.00	61	21.11	38	8.68	18	1	42	40	104.27	80	1	25	0	0
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	24	27.27	56	19.26	33	7.37	17	1	38	27	99.38	76	1	25	0	0
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	23	26.14	65	22.59	38	8.68	18	1	41	37	96.49	73	1	25	0	0
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	26	29.55	53	18.15	49	11.58	68	4	53	77	74.80	54	2	50	0	0
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	17	19.32	58	20.00	60	14.47	74	5	48	60	55.68	37	1	25	0	0
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	38	43.18	75	26.30	37	8.42	24	1	39	30	65.37	46	0	0	0	0
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	37	42.05	79	27.78	40	9.21	25	1	45	50	92.75	70	2	50	0	0
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	21	23.86	58	20.00	41	9.47	21	1	36	20	104.79	80	1	25	0	0
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	9	10.23	42	14.07	57	13.68	75	5	57	90	55.01	36	1	25	0	0
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	28	31.82	65	22.59	46	10.79	30	2	44	47	82.56	61	1	25	0	0
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	37	42.05	72	25.19	40	9.21	27	1	33	10	65.89	46	0	0	0	0
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	26	29.55	53	18.15	49	11.58	68	4	54	80	66.89	47	2	50	0	0
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	35	39.77	68	23.70	28	6.05	14	0	38	27	107.17	82	2	50	0	0
4	2,10,15,19,21,29,42,43,57,58,66,67,70	26	29.55	56	19.26	40	9.21	17	1	44	47	116.92	91	1	25	0	0
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	21	23.86	63	21.85	58	13.95	73	5	53	77	44.99	28	1	25	0	0
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	26	29.55	54	18.52	34	7.63	19	1	38	27	96.99	73	1	25	0	0
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	25	28.41	63	21.85	39	8.95	20	1	41	37	94.10	71	1	25	0	0
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	37	42.05	73	25.56	35	7.89	18	1	41	37	63.35	44	1	25	0	0
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	41	46.59	77	27.04	38	8.68	26	1	38	27	55.20	37	0	0	0	0
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	21	23.86	63	21.85	58	13.95	73	5	54	80	37.08	21	1	25	0	0
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	25	28.41	59	20.37	41	9.47	17	1	46	53	124.32	97	1	25	0	0
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	27	30.68	45	15.19	43	10.00	66	4	48	60	53.61	35	1	25	0	0
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	24	27.27	56	19.26	44	10.26	20	1	40	33	124.84	98	1	25	0	0
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	37	42.05	73	25.56	35	7.89	18	1	42	40	55.44	37	1	25	0	0
514	8,10,15,19,21,29,43,44,59,66,67,70,79	20	22.73	59	20.37	41	9.47	21	1	36	20	109.56	84	1	25	0	0
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	34	38.64	73	25.56	31	6.84	15	1	40	33	105.75	81	1	25	0	0
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	28	31.82	54	18.52	41	9.47	19	1	45	50	114.53	89	1	25	0	0
401	6,12,39,57,58,66,67,70	10	11.36	16	4.44	28	6.05	29	2	39	30	71.73	51	1	25	1	100
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	38	43.18	82	28.89	44	10.26	28	1	46	53	88.94	66	1	25	0	0
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	33	37.50	70	24.44	34	7.63	18	1	34	13	106.28	82	1	25	0	0
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	28	31.82	61	21.11	42	9.74	19	1	45	50	114.16	89	1	25	0	0
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	33	37.50	78	27.41	33	7.37	15	1	40	33	109.06	84	2	50	0	0
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	33	37.50	71	24.81	29	6.32	9	0	40	33	103.74	79	2	50	0	0
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	37	42.05	79	27.78	47	11.05	31	2	40	33	89.46	67	1	25	0	0
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	27	30.68	57	19.63	42	9.74	19	1	47	57	121.93	95	1	25	0	0
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	22	25.00	57	19.63	42	9.74	23	1	36	20	107.17	82	1	25	0	0
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	37	42.05	75	26.30	32	7.11	17	1	38	27	95.59	72	1	25	0	0
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	24	27.27	64	22.22	39	8.95	20	1	40	33	98.87	75	1	25	0	0
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	33	37.50	71	24.81	29	6.32	9	0	41	37	95.82	72	2	50	0	0
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	36	40.91	71	24.81	32	7.11	17	1	40	33	103.36	79	1	25	0	0
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	38	43.18	76	26.67	39	8.95	21	1	41	37	59.54	40	0	0	0	0
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	26	29.55	54	18.52	45	10.53	22	1	41	37	122.45	96	1	25	0	0
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	38	43.18	76	26.67	39	8.95	21	1	43	43	51.63	34	0	0	0	0
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	37	42.05	80	28.15	42	9.74	22	1	47	57	86.92	65	2	50	0	0
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	41	46.59	84	29.63	45	10.53	30	2	44	47	78.77	57	1	25	0	0
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	35	39.77	68	23.70	35	7.89	20	1	34	13	103.88	79	1	25	0	0
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	37	42.05	73	25.56	42	9.74	24	1	35	17	60.06	41	0	0	0	0
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	37	42.05	73	25.56	42	9.74	24	1	37	23	52.15	34	0	0	0	0
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	27	30.68	52	17.78	50	11.84	70	4	54	80	77.18	56	2	50	0	0
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	35	39.77	76	26.67	34	7.63	17	1	40	33	106.67	82	2	50	0	0
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	35	39.77	69	24.07	30	6.58	11	0	40	33	101.34	77	2	50	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	37	42.05	80	28.15	42	9.74	22	1	48	60	79.01	58	2	50	0	0
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	30	34.09	59	20.37	43	10.00	21	1	46	53	111.76	86	1	25	0	0
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	39	44.32	73	25.56	33	7.37	19	1	38	27	93.19	70	1	25	0	0
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	26	29.55	62	21.48	40	9.21	22	1	40	33	96.48	73	1	25	0	0
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	35	39.77	69	24.07	30	6.58	11	0	41	37	93.43	70	2	50	0	0
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	25	28.41	55	18.89	45	10.53	22	1	40	33	127.22	100	1	25	0	0
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	41	46.59	78	27.41	40	9.21	23	1	41	37	49.37	32	0	0	0	0
399	6,12,39,42,44,55,67,70,76	5	5.68	12	2.96	22	4.47	27	1	38	27	54.65	36	1	25	1	100
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	34	38.64	74	25.93	33	7.37	12	0	43	43	92.01	69	1	25	0	0
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	34	38.64	81	28.52	37	8.42	18	1	42	40	105.25	81	1	25	0	0
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	34	38.64	74	25.93	33	7.37	12	0	42	40	99.92	76	1	25	0	0
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	38	43.18	83	29.26	46	10.79	25	1	49	63	75.20	54	1	25	0	0
482	18,19,21,29,43,44,55,67,70,76,77,78,79	33	37.50	71	24.81	36	8.16	15	1	37	23	92.54	69	1	25	0	0
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	38	43.18	74	25.93	37	8.42	16	1	44	47	126.72	100	2	50	0	0
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	41	46.59	78	27.41	40	9.21	23	1	43	43	41.46	25	0	0	0	0
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	38	43.18	83	29.26	46	10.79	25	1	48	60	83.11	61	1	25	0	0
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	33	37.50	78	27.41	40	9.21	21	1	36	20	105.77	81	1	25	0	0
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	33	37.50	71	24.81	36	8.16	15	1	36	20	100.44	76	1	25	0	0
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	37	42.05	80	28.15	49	11.58	28	1	43	43	75.72	55	1	25	0	0
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	29	32.95	60	20.74	43	10.00	21	1	44	47	116.54	91	1	25	0	0
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	33	37.50	79	27.78	35	7.89	12	0	42	40	103.22	79	2	50	0	0
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	27	30.68	53	18.15	46	10.79	24	1	41	37	124.83	98	1	25	0	0
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	37	42.05	80	28.15	49	11.58	28	1	42	40	83.63	62	1	25	0	0
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	36	40.91	72	25.19	34	7.63	14	0	43	43	89.62	67	1	25	0	0
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	37	42.05	83	29.26	38	8.68	20	1	40	33	95.08	72	1	25	0	0
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	33	37.50	79	27.78	35	7.89	12	0	43	43	95.32	72	2	50	0	0
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	36	40.91	79	27.78	38	8.68	20	1	42	40	102.85	79	1	25	0	0
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	36	40.91	72	25.19	34	7.63	14	0	42	40	97.53	74	1	25	0	0
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	37	42.05	76	26.67	34	7.63	14	0	41	37	89.76	67	1	25	0	0
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	35	39.77	69	24.07	37	8.42	17	1	37	23	90.14	67	1	25	0	0
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	35	39.77	76	26.67	41	9.47	23	1	36	20	103.38	79	1	25	0	0
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	40	45.45	72	25.19	38	8.68	18	1	45	50	124.33	97	2	50	0	0
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	41	46.59	85	30.00	47	11.05	27	1	47	57	72.94	52	1	25	0	0
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	37	42.05	76	26.67	34	7.63	14	0	42	40	81.84	60	1	25	0	0
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	35	39.77	77	27.04	36	8.16	14	0	42	40	100.83	77	2	50	0	0
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	31	35.23	58	20.00	44	10.26	23	1	45	50	114.14	88	1	25	0	0
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	39	44.32	81	28.52	39	8.95	22	1	40	33	92.69	70	1	25	0	0
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	41	46.59	85	30.00	47	11.05	27	1	48	60	65.03	45	1	25	0	0
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	35	39.77	77	27.04	36	8.16	14	0	43	43	92.92	70	2	50	0	0
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	39	44.32	74	25.93	35	7.89	16	1	41	37	87.36	65	1	25	0	0
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	39	44.32	74	25.93	35	7.89	16	1	41	37	87.36	65	1	25	0	0
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	39	44.32	77	27.04	41	9.47	19	1	46	53	122.91	96	1	25	0	0
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	34	38.64	82	28.89	39	8.95	15	1	45	50	91.51	69	1	25	0	0
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	39	44.32	74	25.93	35	7.89	16	1	42	40	79.45	58	1	25	0	0
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	38	43.18	74	25.93	44	10.26	22	1	40	33	123.43	97	1	25	0	0
400	6,12,39,42,44,59,66,67,70	5	5.68	20	5.93	28	6.05	30	2	41	37	54.15	36	1	25	1	100
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	34	38.64	82	28.89	39	8.95	15	1	44	47	99.42	76	1	25	0	0
483	18,19,21,29,43,44,59,66,67,70,77,78,79	33	37.50	79	27.78	42	9.74	18	1	39	30	92.03	69	1	25	0	0
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	38	43.18	75	26.30	39	8.95	13	0	46	53	120.89	94	2	50	0	0
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	33	37.50	79	27.78	42	9.74	18	1	38	27	99.94	76	1	25	0	0
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	42	47.73	79	27.78	42	9.74	21	1	44	47	112.74	87	1	25	0	0
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	38	43.18	75	26.30	39	8.95	13	0	47	57	112.98	87	2	50	0	0
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	36	40.91	80	28.15	40	9.21	17	1	45	50	89.11	66	1	25	0	0
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	41	46.59	75	26.30	42	9.74	21	1	47	57	120.52	94	1	25	0	0
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	36	40.91	80	28.15	40	9.21	17	1	44	47	97.02	73	1	25	0	0
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	37	42.05	84	29.63	40	9.21	17	1	43	43	89.25	67	1	25	0	0
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	35	39.77	77	27.04	43	10.00	20	1	39	30	89.63	67	1	25	0	0
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	40	45.45	72	25.19	45	10.53	24	1	41	37	121.04	95	1	25	0	0
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	35	39.77	77	27.04	43	10.00	20	1	38	27	97.54	74	1	25	0	0
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	40	45.45	73	25.56	40	9.21	15	1	47	57	118.50	92	2	50	0	0
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	37	42.05	84	29.63	40	9.21	17	1	44	47	81.34	60	1	25	0	0
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	44	50.00	77	27.04	43	10.00	23	1	45	50	110.35	85	1	25	0	0
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	40	45.45	73	25.56	40	9.21	15	1	48	60	110.59	85	2	50	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	39	44.32	78	27.41	43	10.00	16	1	49	63	109.17	84	1	25	0	0
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	39	44.32	82	28.89	41	9.47	19	1	43	43	86.86	64	1	25	0	0
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	39	44.32	78	27.41	43	10.00	16	1	48	60	117.08	91	1	25	0	0
404	6,26,40,41,57,58,66,67,70	12	13.64	32	10.37	48	11.32	39	2	39	30	64.35	45	1	25	1	100
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	38	43.18	75	26.30	46	10.79	19	1	43	43	109.69	85	1	25	0	0
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	39	44.32	82	28.89	41	9.47	19	1	44	47	78.94	58	1	25	0	0
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	38	43.18	75	26.30	46	10.79	19	1	42	40	117.60	92	1	25	0	0
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	41	46.59	76	26.67	44	10.26	18	1	50	67	106.77	82	1	25	0	0
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	42	47.73	80	28.15	44	10.26	18	1	47	57	106.91	82	1	25	0	0
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	41	46.59	76	26.67	44	10.26	18	1	49	63	114.68	89	1	25	0	0
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	40	45.45	73	25.56	47	11.05	21	1	44	47	107.29	82	1	25	0	0
397	6,12,27,40,41,57,58,66,67,70	12	13.64	32	10.37	47	11.05	41	2	37	23	70.43	50	1	25	1	100
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	42	47.73	80	28.15	44	10.26	18	1	48	60	99.00	75	1	25	0	0
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	40	45.45	73	25.56	47	11.05	21	1	43	43	115.21	89	1	25	0	0
402	6,26,40,41,42,44,55,67,70,76	7	7.95	28	8.89	42	9.74	37	2	38	27	47.28	30	1	25	1	100
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	44	50.00	78	27.41	45	10.53	20	1	48	60	104.52	80	1	25	0	0
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	44	50.00	78	27.41	45	10.53	20	1	49	63	96.61	73	1	25	0	0
395	6,12,27,40,41,42,44,55,67,70,76	7	7.95	28	8.89	41	9.47	39	2	36	20	53.36	35	1	25	1	100
403	6,26,40,41,42,59,66,67,70	7	7.95	36	11.85	48	11.32	40	2	41	37	46.77	29	1	25	1	100
396	6,12,27,40,41,42,44,59,66,67,70	7	7.95	36	11.85	47	11.05	42	2	39	30	52.85	35	1	25	1	100
405	6,26,40,56,58,66,67,70	12	13.64	31	10.00	46	10.79	34	2	40	33	67.97	48	4	100	1	100
398	6,12,27,40,56,58,66,67,70	12	13.64	31	10.00	45	10.53	36	2	38	27	74.05	53	4	100	1	100
	MIN	0	0.00	4	0.00	5	0.00	8	0	30	0	13.51	0	0	0	0	0
	MAX	44	50.00	85	30.00	62	15.00	78	5	60	100	127.22	100	4	100	1	100
	RANGE	44	50.00	81	30.00	57	15.00	70	5	30	100	113.71	100	4	100	1	100

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
392	5,35,38,64,71,73	1	25	1	8	7.83	0	0.00	30	6.16	13	0.00	100	9.86	29	0.07	0
252	4,17,32,37,50,69,75,80	0	0	6	46	5.77	8	0.00	30	0.43	38	0.23	96	9.31	20	0.15	1
382	5,35,36,37,50,69,75,80	1	25	8	62	5.79	8	0.00	30	4.44	20	0.23	96	9.43	22	0.07	0
394	5,60,62,64	1	25	0	0	3.61	16	0.00	30	3.61	24	0.00	100	9.89	29	0.07	0
393	5,60,61,64	1	25	1	8	3.61	16	0.00	30	3.61	24	0.00	100	10.06	32	0.07	0
267	4,17,32,37,64,71,72,74,75	2	50	3	23	7.90	0	0.00	30	0.00	40	0.00	100	10.02	31	0.15	1
261	4,17,32,37,49,64,71,73	2	50	3	23	7.88	0	0.00	30	1.55	33	0.00	100	10.00	31	0.15	1
384	5,35,36,37,64,71,72,74,75	3	75	5	38	7.91	0	0.00	30	4.01	22	0.00	100	10.14	33	0.07	0
388	5,35,38,49,50,69,75,80	1	25	8	62	5.76	8	0.00	30	5.04	18	0.23	96	9.41	21	0.07	0
378	5,35,36,37,49,64,71,73	3	75	5	38	7.90	0	0.00	30	5.55	16	0.00	100	10.12	33	0.07	0
263	4,17,32,37,50,53,65,67,75	0	0	4	31	5.77	8	1.73	22	0.00	40	1.73	67	9.47	22	0.15	1
259	4,17,32,36,38,64,71,73	2	50	3	23	7.87	0	0.00	30	2.15	31	0.00	100	10.00	31	0.15	1
380	5,35,36,37,50,53,65,67,75	1	25	6	46	5.79	8	1.73	22	4.01	22	1.73	67	9.59	24	0.07	0
264	4,17,32,37,50,53,67,70,75,76,84	0	0	4	31	5.77	8	0.71	27	0.00	40	0.53	90	9.63	25	0.15	1
390	5,35,38,49,64,71,72,74,75	3	75	5	38	7.88	0	0.00	30	4.61	20	0.00	100	10.12	33	0.07	0
381	5,35,36,37,50,53,67,70,75,76,84	1	25	6	46	5.79	8	0.71	27	4.01	22	0.53	90	9.75	27	0.07	0
266	4,17,32,37,63,74,75,80	0	0	4	31	7.56	1	0.00	30	2.91	27	0.00	100	9.47	22	0.15	1
383	5,35,36,37,63,74,75,80	1	25	6	46	7.58	1	0.00	30	6.92	9	0.00	100	9.58	24	0.07	0
386	5,35,38,49,50,53,65,67,75	1	25	6	46	5.76	8	1.73	22	4.61	20	1.73	67	9.57	24	0.07	0
387	5,35,38,49,50,53,67,70,75,76,84	1	25	6	46	5.76	8	0.71	27	4.61	20	0.53	90	9.74	27	0.07	0
256	4,17,32,36,38,49,50,69,75,80	2	50	10	77	5.80	8	0.00	30	1.04	35	0.23	96	9.55	24	0.15	1
389	5,35,38,49,63,74,75,80	1	25	6	46	7.55	1	0.00	30	7.52	7	0.00	100	9.57	24	0.07	0
391	5,35,38,63,72,73,80	1	25	6	46	7.55	1	0.00	30	9.07	0	0.00	100	9.58	24	0.07	0
258	4,17,32,36,38,49,64,71,72,74,75	4	100	7	54	7.92	0	0.00	30	0.61	37	0.00	100	10.26	35	0.15	1
118	2,8,9,17,32,37,50,69,75,80,81	0	0	9	69	3.77	16	0.00	30	0.43	38	0.23	96	11.32	52	2.16	32
241	3,9,17,32,37,50,69,75,80	0	0	7	54	3.77	16	1.42	23	0.43	38	1.64	69	10.71	42	1.07	15
413	9,17,32,37,50,69,75,79,80,81	0	0	8	62	3.77	16	2.03	20	0.43	38	0.23	96	10.75	43	1.13	16
254	4,17,32,36,38,49,50,53,65,67,75	2	50	8	62	5.80	8	1.73	22	0.61	37	1.73	67	9.71	26	0.15	1
260	4,17,32,37,49,63,72,73,80	2	50	8	62	7.60	1	0.00	30	4.46	20	0.00	100	9.72	26	0.15	1
255	4,17,32,36,38,49,50,53,67,70,75,76,84	2	50	8	62	5.80	8	0.71	27	0.61	37	0.53	90	9.87	29	0.15	1
120	2,8,9,17,32,37,64,71,72,74,75,81	2	50	6	46	5.89	8	0.00	30	0.00	40	0.00	100	12.03	64	2.16	32
377	5,35,36,37,49,63,72,73,80	3	75	10	77	7.61	1	0.00	30	8.46	3	0.00	100	9.84	28	0.07	0
114	2,8,9,17,32,37,49,64,71,73,81	2	50	6	46	5.88	8	0.00	30	1.55	33	0.00	100	12.01	63	2.16	32
243	3,9,17,32,37,64,71,72,74,75	2	50	4	31	5.89	8	1.42	23	0.00	40	1.40	74	11.42	54	1.07	15
408	9,17,32,37,64,71,72,74,75,79,81	2	50	5	38	5.89	8	2.03	20	0.00	40	0.00	100	11.46	55	1.13	16
257	4,17,32,36,38,49,63,34,74,75,80	2	50	8	62	7.58	1	0.00	30	3.52	24	0.00	100	9.70	26	0.15	1
237	3,9,17,32,37,49,64,71,73	2	50	4	31	5.88	8	1.42	23	1.55	33	1.40	74	11.40	54	1.07	15
407	9,17,32,37,49,64,71,73,79,81	2	50	5	38	5.88	8	2.03	20	1.55	33	0.00	100	11.44	54	1.13	16
253	4,17,32,36,38,36,34,72,73,80	2	50	8	62	7.58	1	0.00	30	5.07	18	0.00	100	9.72	26	0.15	1
117	2,8,9,17,32,37,50,53,65,67,71,75,81	0	0	7	54	3.77	16	1.73	22	0.00	40	1.73	67	11.48	55	2.16	32
415	9,17,32,37,50,53,65,67,71,75,79,81	0	0	6	46	3.77	16	3.76	12	0.00	40	1.73	67	10.91	46	1.13	16
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	0	0	7	54	3.77	16	0.71	27	0.00	40	0.53	90	11.64	57	2.16	32
262	4,17,32,37,50,53,55,59,66,67,70,75,84	0	0	4	31	5.77	8	1.44	23	0.00	40	0.53	90	10.87	45	0.15	1
112	2,8,9,17,32,36,38,64,71,73,81	2	50	6	46	5.86	8	0.00	30	2.15	31	0.00	100	12.00	63	2.16	32
240	3,9,17,32,37,50,53,65,67,75	0	0	5	38	3.77	16	3.15	15	0.00	40	3.13	41	10.87	45	1.07	15
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	0	0	6	46	3.77	16	2.74	17	0.00	40	0.53	90	11.08	48	1.13	16
235	3,9,17,32,36,38,64,71,73	2	50	4	31	5.86	8	1.42	23	2.15	31	1.40	74	11.39	53	1.07	15
406	9,17,32,36,38,64,71,73,79,81	2	50	5	38	5.86	8	2.03	20	2.15	31	0.00	100	11.44	54	1.13	16
379	5,35,36,37,50,53,55,59,66,67,70,75,84	1	25	6	46	5.79	8	1.44	23	4.01	22	0.53	90	10.99	47	0.07	0
238	3,9,17,32,37,50,35,67,70,75,76,84	0	0	5	38	3.77	16	2.13	20	0.00	40	1.94	63	11.03	48	1.07	15
119	2,8,9,17,32,37,63,74,75,80,81	0	0	7	54	5.56	9	0.00	30	2.91	27	0.00	100	11.47	55	2.16	32
242	3,9,17,32,37,63,74,75,80	0	0	5	38	5.56	9	1.42	23	2.91	27	1.40	74	10.86	45	1.07	15
410	9,17,32,37,63,74,75,79,80,81	0	0	6	46	5.56	9	2.03	20	2.91	27	0.00	100	10.91	46	1.13	16
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	0	0	6	46	2.03	22	3.85	11	0.00	40	3.89	26	9.64	25	0.15	1
385	5,35,38,49,50,53,55,59,66,67,70,75,84	1	25	6	46	5.76	8	1.44	23	4.61	20	0.53	90	10.98	47	0.07	0
246	4,17,24,25,31,33,45,47,48,52,65,67	0	0	5	38	3.24	18	2.36	19	0.00	40	2.34	56	9.56	24	0.15	1
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	2	50	13	100	3.79	16	0.00	30	1.04	35	0.23	96	11.55	56	2.16	32
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	0	0	6	46	2.03	22	2.83	16	0.00	40	2.70	49	9.80	28	0.15	1
232	3,9,17,32,36,38,49,50,69,75,80	2	50	11	85	3.79	16	1.42	23	1.04	35	1.64	69	10.94	46	1.07	15
414	9,17,32,36,38,49,50,69,75,71,79,80,81	2	50	12	92	3.79	16	2.03	20	1.04	35	0.23	96	10.99	47	1.13	16
247	4,17,24,25,31,33,47,48,52,67,70,76,84	0	0	5	38	3.24	18	1.33	24	0.00	40	1.14	78	9.72	26	0.15	1
306	4,9,11,14,20,29,43,44,55,67,70,76,83	0	0	6	46	2.03	22	1.17	24	0.00	40	0.44	92	10.81	44	0.15	1
18	2,7,13,28,43,44,55,67,70,76	0	0	5	38	0.00	30	0.76	26	0.00	40	0.00	100	9.66	25	2.16	32

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	0	0	7	54	0.00	30	3.85	11	0.00	40	3.89	26	8.94	14	2.16	32
354	4,9,14,20,29,43,44,55,67,70,76,78,81	0	0	6	46	2.03	22	1.18	24	0.00	40	0.00	100	10.83	44	0.15	1
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	4	100	10	77	5.92	8	0.00	30	0.61	37	0.00	100	12.26	68	2.16	32
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	0	0	6	46	0.00	30	5.88	2	0.00	40	3.89	26	8.37	5	1.13	16
233	3,9,17,32,36,38,49,64,71,72,74,75	4	100	8	62	5.92	8	1.42	23	0.61	37	1.40	74	11.65	58	1.07	15
409	9,17,32,36,38,49,64,71,72,74,75,79,81	4	100	9	69	5.92	8	2.03	20	0.61	37	0.00	100	11.70	58	1.13	16
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	0	0	7	54	0.00	30	2.83	16	0.00	40	2.70	49	9.10	16	2.16	32
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	0	0	7	54	2.03	22	1.17	24	0.00	40	0.44	92	11.07	48	0.15	1
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	0	0	6	46	0.00	30	4.86	7	0.00	40	2.70	49	8.54	7	1.13	16
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	0	0	7	54	2.03	22	1.18	24	0.00	40	0.00	100	11.08	48	0.15	1
149	3,11,16,23,25,31,33,45,47,48,52,65,67	0	0	5	38	0.00	30	5.27	5	0.00	40	5.30	0	8.33	4	1.07	15
276	4,7,8,9,13,28,43,44,55,67,70,76,81	0	0	8	62	2.03	22	0.76	26	0.00	40	0.00	100	11.63	57	0.15	1
15	2,10,20,29,43,44,55,67,70,76	0	0	4	31	0.00	30	0.76	26	0.00	40	0.00	100	9.10	16	2.16	32
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	2	50	11	85	3.79	16	1.73	22	0.61	37	1.73	67	11.71	59	2.16	32
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	0	0	5	38	0.00	30	4.25	10	0.00	40	4.10	23	8.49	6	1.07	15
80	2,8,14,20,29,43,44,55,67,70,76,78	0	0	5	38	0.00	30	1.18	24	0.00	40	0.00	100	10.02	31	2.16	32
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	2	50	10	77	3.79	16	3.76	12	0.61	37	1.73	67	11.15	50	1.13	16
113	2,8,9,17,32,37,49,63,72,73,80,81	2	50	11	85	5.59	9	0.00	30	4.46	20	0.00	100	11.73	59	2.16	32
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	2	50	11	85	3.79	16	0.71	27	0.61	37	0.53	90	11.87	61	2.16	32
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	0	0	7	54	0.00	30	1.17	24	0.00	40	0.44	92	10.11	33	2.16	32
500	14,20,29,43,44,55,67,70,76,78,79	0	0	4	31	0.00	30	3.21	15	0.00	40	0.00	100	9.45	22	1.13	16
230	3,9,17,32,36,38,49,50,53,65,67,75	2	50	9	69	3.79	16	3.15	15	0.61	37	3.13	41	11.10	49	1.07	15
236	3,9,17,32,37,49,63,72,73,80	2	50	9	69	5.59	9	1.42	23	4.46	20	1.40	74	11.12	49	1.07	15
412	9,17,32,37,49,63,72,73,79,80,81	2	50	10	77	5.59	9	2.03	20	4.46	20	0.00	100	11.16	50	1.13	16
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	2	50	10	77	3.79	16	2.74	17	0.61	37	0.53	90	11.31	52	1.13	16
497	11,14,20,29,43,44,55,67,70,76,79,81,83	0	0	6	46	0.00	30	3.20	15	0.00	40	0.44	92	9.55	24	1.13	16
12	2,10,20,22,28,43,44,55,67,70,76	0	0	5	38	0.00	30	0.76	26	0.00	40	0.00	100	9.36	21	2.16	32
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	2	50	9	69	3.79	16	2.13	20	0.61	37	1.94	63	11.26	51	1.07	15
307	4,9,11,14,20,29,43,44,59,66,67,70,83	0	0	4	31	2.03	22	0.41	28	0.00	40	0.44	92	10.53	39	0.15	1
77	2,8,14,20,22,28,43,44,55,67,70,76,78	0	0	6	46	0.00	30	1.18	24	0.00	40	0.00	100	10.27	35	2.16	32
19	2,7,13,28,43,44,59,66,67,70	0	0	3	23	0.00	30	0.00	30	0.00	40	0.00	100	9.37	21	2.16	32
355	4,9,14,20,29,43,44,59,66,67,70,78,81	0	0	4	31	2.03	22	0.42	28	0.00	40	0.00	100	10.54	40	0.15	1
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	0	0	8	62	0.00	30	1.17	24	0.00	40	0.44	92	10.36	37	2.16	32
136	3,11,14,20,29,43,44,55,67,70,76,83	0	0	5	38	0.00	30	2.59	18	0.00	40	1.85	65	9.50	23	1.07	15
506	14,20,22,28,43,44,55,67,70,76,78,79	0	0	5	38	0.00	30	3.21	15	0.00	40	0.00	100	9.71	26	1.13	16
111	2,8,9,17,32,36,38,63,72,73,80,81	2	50	11	85	5.58	9	0.00	30	5.07	18	0.00	100	11.72	59	2.16	32
525	7,8,13,28,43,44,55,67,70,76,79	0	0	6	46	0.00	30	2.79	17	0.00	40	0.00	100	10.26	35	1.13	16
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	0	0	7	54	3.77	16	1.44	23	0.00	40	0.53	90	12.88	78	2.16	32
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	0	0	7	54	0.00	30	3.20	15	0.00	40	0.44	92	9.80	28	1.13	16
181	3,14,20,29,43,44,55,67,70,76,78,81	0	0	5	38	0.00	30	2.60	17	0.00	40	1.40	74	9.52	23	1.07	15
234	3,9,17,32,36,38,63,72,73,80	2	50	9	69	5.58	9	1.42	23	5.07	18	1.40	74	11.11	49	1.07	15
411	9,17,32,36,38,63,72,73,79,80,81	2	50	10	77	5.58	9	2.03	20	5.07	18	0.00	100	11.16	50	1.13	16
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	0	0	5	38	2.03	22	0.41	28	0.00	40	0.44	92	10.78	44	0.15	1
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	0	0	9	69	2.03	22	3.83	12	0.00	40	3.33	37	9.73	27	0.15	1
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	0	0	9	69	2.03	22	3.83	12	0.00	40	3.33	37	9.73	27	0.15	1
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	0	0	6	46	3.77	16	3.47	13	0.00	40	0.53	90	12.32	68	1.13	16
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	0	0	9	69	2.03	22	0.76	26	0.00	40	0.00	100	12.10	65	0.15	1
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	0	0	8	62	2.03	22	3.16	15	0.43	38	3.43	35	10.54	40	0.15	1
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	0	0	5	38	3.77	16	2.86	16	0.00	40	1.94	63	12.27	68	1.07	15
323	4,9,11,16,23,25,34,47,48,52,65,67	0	0	4	31	2.03	22	4.20	10	0.00	40	3.89	26	9.40	21	0.15	1
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	0	0	5	38	2.03	22	0.42	28	0.00	40	0.00	100	10.79	44	0.15	1
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	0	0	9	69	2.03	22	3.85	11	0.00	40	2.89	46	9.75	27	0.15	1
133	3,11,14,20,22,28,43,44,55,67,70,76,83	0	0	6	46	0.00	30	2.59	18	0.00	40	1.85	65	9.75	27	1.07	15
277	4,7,8,9,13,28,43,44,59,66,67,70,81	0	0	6	46	2.03	22	0.00	30	0.00	40	0.00	100	11.35	53	0.15	1
16	2,10,20,29,43,44,59,66,67,70	0	0	2	15	0.00	30	0.00	30	0.00	40	0.00	100	8.82	12	2.16	32
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	0	0	9	69	2.03	22	2.81	16	0.00	40	2.13	60	9.89	29	0.15	1
244	4,17,24,25,31,33,45,47,48,52,53,69,80	0	0	7	54	3.24	18	1.66	22	0.43	38	1.88	65	10.46	38	0.15	1
203	3,7,8,13,28,43,44,55,67,70,76,81	0	0	7	54	0.00	30	2.18	19	0.00	40	1.40	74	10.32	36	1.07	15
250	4,17,24,25,34,47,48,52,65,67	0	0	3	23	3.24	18	2.70	17	0.00	40	2.34	56	9.32	20	0.15	1
81	2,8,14,20,29,43,44,59,66,67,70,78	0	0	3	23	0.00	30	0.42	28	0.00	40	0.00	100	9.73	27	2.16	32
178	3,14,20,22,28,43,44,55,67,70,76,78,81	0	0	6	46	0.00	30	2.60	17	0.00	40	1.40	74	9.77	27	1.07	15
519	8,10,20,29,43,44,55,67,70,76,79	0	0	5	38	0.00	30	2.79	17	0.00	40	0.00	100	9.71	26	1.13	16
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	0	0	4	31	2.03	22	3.17	15	0.00	40	2.70	49	9.56	24	0.15	1

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	0	0	5	38	0.00	30	0.41	28	0.00	40	0.44	92	9.83	28	2.16	32
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	0	0	9	69	2.03	22	2.83	16	0.00	40	1.69	68	9.91	29	0.15	1
501	14,20,29,43,44,59,66,67,70,78,79	0	0	2	15	0.00	30	2.45	18	0.00	40	0.00	100	9.17	17	1.13	16
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	0	0	5	38	2.03	22	0.41	28	0.00	40	0.44	92	12.98	79	0.15	1
498	11,14,20,29,43,44,59,66,67,70,79,81,83	0	0	4	31	0.00	30	2.44	18	0.00	40	0.44	92	9.26	19	1.13	16
251	4,17,24,25,34,47,48,52,67,70,76,84	0	0	3	23	3.24	18	1.68	22	0.00	40	1.14	78	9.49	23	0.15	1
13	2,10,20,22,28,43,44,59,66,67,70	0	0	3	23	0.00	30	0.00	30	0.00	40	0.00	100	9.07	16	2.16	32
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	0	0	5	38	2.03	22	0.42	28	0.00	40	0.00	100	12.99	79	0.15	1
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	0	0	10	77	0.00	30	3.83	12	0.00	40	3.33	37	9.03	15	2.16	32
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	0	0	8	62	0.00	30	3.85	11	0.00	40	2.89	46	8.93	14	2.16	32
17	2,7,13,28,42,43,57,58,66,67,70	0	0	4	31	0.00	30	0.00	30	0.00	40	0.00	100	11.82	60	2.16	32
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	0	0	8	62	1.24	25	2.36	19	0.00	40	2.34	56	11.56	56	2.16	32
78	2,8,14,20,22,28,43,44,59,66,67,70,78	0	0	4	31	0.00	30	0.42	28	0.00	40	0.00	100	9.98	31	2.16	32
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	0	0	9	69	0.00	30	3.16	15	0.43	38	3.43	35	9.84	28	2.16	32
522	8,10,20,22,28,43,44,55,67,70,76,79	0	0	6	46	0.00	30	2.79	17	0.00	40	0.00	100	9.96	30	1.13	16
53	2,8,11,16,23,25,34,47,48,52,65,67,81	0	0	5	38	0.00	30	4.20	10	0.00	40	3.89	26	8.70	10	2.16	32
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	6	46	2.03	22	3.56	13	0.00	40	2.70	49	11.04	48	0.15	1
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	0	0	9	69	0.00	30	5.86	2	0.00	40	3.33	37	8.47	6	1.13	16
450	23,25,31,33,45,47,48,52,65,67,77,78,82	0	0	7	54	0.00	30	5.88	2	0.00	40	2.89	46	8.37	5	1.13	16
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	0	0	6	46	0.00	30	0.41	28	0.00	40	0.44	92	10.08	32	2.16	32
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	0	0	7	54	1.24	25	4.39	9	0.00	40	2.34	56	11.00	47	1.13	16
219	3,8,10,20,29,43,44,55,67,70,76,81	0	0	6	46	0.00	30	2.18	19	0.00	40	1.40	74	9.77	27	1.07	15
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	0	0	6	46	2.03	22	2.78	17	0.00	40	2.34	56	9.69	26	0.15	1
137	3,11,14,20,29,43,44,59,66,67,70,83	0	0	3	23	0.00	30	1.83	21	0.00	40	1.85	65	9.22	18	1.07	15
507	14,20,22,28,43,44,59,66,67,70,78,79	0	0	3	23	0.00	30	2.45	18	0.00	40	0.00	100	9.42	22	1.13	16
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	0	0	8	62	0.00	30	5.19	5	0.43	38	3.43	35	9.28	19	1.13	16
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	0	0	9	69	2.03	22	3.29	14	0.00	40	3.33	37	10.36	37	0.15	1
430	11,16,23,25,34,47,48,52,65,67,79,81	0	0	4	31	0.00	30	6.23	0	0.00	40	3.89	26	8.14	1	1.13	16
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	7	54	2.03	22	2.76	17	0.00	40	2.78	48	9.97	31	0.15	1
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	0	0	10	77	0.00	30	2.81	16	0.00	40	2.13	60	9.19	18	2.16	32
526	7,8,13,28,43,44,59,66,67,70,79	0	0	4	31	0.00	30	2.03	20	0.00	40	0.00	100	9.97	31	1.13	16
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	0	0	8	62	0.00	30	2.83	16	0.00	40	1.69	68	9.10	16	2.16	32
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	0	0	5	38	0.00	30	2.44	18	0.00	40	0.44	92	9.52	23	1.13	16
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	0	0	8	62	1.24	25	1.33	24	0.00	40	1.14	78	11.73	59	2.16	32
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	0	0	6	46	2.03	22	0.41	28	0.00	40	0.44	92	13.23	83	0.15	1
182	3,14,20,29,43,44,59,66,67,70,78,81	0	0	3	23	0.00	30	1.84	21	0.00	40	1.40	74	9.23	18	1.07	15
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	0	0	5	38	0.00	30	3.17	15	0.00	40	2.70	49	8.86	13	2.16	32
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	0	0	9	69	0.00	30	4.84	7	0.00	40	2.13	60	8.63	9	1.13	16
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	0	0	7	54	0.00	30	4.86	7	0.00	40	1.69	68	8.53	7	1.13	16
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	5	38	3.24	18	2.07	20	0.00	40	1.14	78	10.96	46	0.15	1
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	0	0	7	54	1.24	25	3.37	14	0.00	40	1.14	78	11.16	50	1.13	16
14	2,10,20,29,42,43,57,58,66,67,70	0	0	3	23	0.00	30	0.00	30	0.00	40	0.00	100	11.27	51	2.16	32
224	3,9,17,24,25,31,33,45,47,48,52,65,67	0	0	6	46	1.24	25	3.78	12	0.00	40	3.74	29	10.95	46	1.07	15
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	0	0	6	46	2.03	22	0.42	28	0.00	40	0.00	100	13.24	83	0.15	1
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	0	0	7	54	2.03	22	0.00	30	0.00	40	0.00	100	11.82	60	0.15	1
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	0	0	9	69	2.03	22	2.27	19	0.00	40	2.13	60	10.52	39	0.15	1
151	3,11,16,23,25,31,33,45,47,52,53,69,80	0	0	7	54	0.00	30	4.58	8	0.43	38	4.84	9	9.23	18	1.07	15
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	7	54	2.03	22	1.74	22	0.00	40	1.58	70	10.14	33	0.15	1
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	0	0	8	62	0.00	30	5.26	5	0.00	40	4.73	11	8.42	5	1.07	15
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	0	0	7	54	2.03	22	0.00	30	0.00	40	0.00	100	13.80	92	0.15	1
154	3,11,16,23,25,34,47,48,52,65,67	0	0	3	23	0.00	30	5.62	3	0.00	40	5.30	0	8.09	0	1.07	15
216	3,8,10,20,22,28,43,44,55,67,70,76,81	0	0	7	54	0.00	30	2.18	19	0.00	40	1.40	74	10.02	31	1.07	15
79	2,8,14,20,29,42,43,57,58,66,67,70,78	0	0	4	31	0.00	30	0.42	28	0.00	40	0.00	100	12.18	66	2.16	32
134	3,11,14,20,22,28,43,44,59,66,67,70,83	0	0	4	31	0.00	30	1.83	21	0.00	40	1.85	65	9.47	22	1.07	15
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	0	0	6	46	1.24	25	2.76	17	0.00	40	2.54	52	11.12	49	1.07	15
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	0	0	6	46	0.00	30	0.41	28	0.00	40	0.44	92	12.28	68	2.16	32
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	0	0	7	54	2.03	22	1.76	22	0.00	40	1.14	78	10.15	33	0.15	1
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	0	0	8	62	0.00	30	4.23	10	0.00	40	3.53	33	8.58	8	1.07	15
9	2,10,15,19,30,33,45,47,48,52,65,67	0	0	5	38	0.00	30	2.36	19	0.00	40	2.34	56	8.26	3	2.16	32
155	3,11,16,23,25,34,47,48,52,67,70,76,84	0	0	3	23	0.00	30	4.59	8	0.00	40	4.10	23	8.25	3	1.07	15
431	11,16,23,25,34,47,48,52,67,70,76,84	0	0	3	23	0.00	30	4.59	8	0.00	40	4.10	23	8.25	3	1.07	15
204	3,7,8,13,28,43,44,59,66,67,70,81	0	0	5	38	0.00	30	1.42	23	0.00	40	1.40	74	10.04	32	1.07	15
502	14,20,29,42,43,57,58,66,67,70,78,79	0	0	3	23	0.00	30	2.45	18	0.00	40	0.00	100	11.62	57	1.13	16

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
179	3,14,20,22,28,43,44,59,66,67,70,78,81	0	0	4	31	0.00	30	1.84	21	0.00	40	1.40	74	9.48	23	1.07	15
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	0	0	9	69	2.03	22	2.36	19	0.00	40	2.34	56	11.98	63	0.15	1
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	0	0	8	62	0.00	30	5.27	5	0.00	40	4.29	19	8.43	6	1.07	15
520	8,10,20,29,43,44,59,66,67,70,79	0	0	3	23	0.00	30	2.03	20	0.00	40	0.00	100	9.42	22	1.13	16
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	0	0	5	38	0.00	30	2.44	18	0.00	40	0.44	92	11.71	59	1.13	16
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	0	0	7	54	0.00	30	3.56	13	0.00	40	2.70	49	10.34	36	2.16	32
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	0	0	8	62	0.00	30	2.76	17	0.00	40	2.78	48	9.27	19	2.16	32
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	0	0	6	46	0.00	30	2.78	17	0.00	40	2.34	56	9.17	18	2.16	32
11	2,10,20,22,28,42,43,57,58,66,67,70	0	0	4	31	0.00	30	0.00	30	0.00	40	0.00	100	11.52	56	2.16	32
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	0	0	8	62	0.00	30	4.25	10	0.00	40	3.09	42	8.60	8	1.07	15
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	0	0	5	38	0.00	30	1.33	24	0.00	40	1.14	78	8.43	5	2.16	32
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	0	0	6	46	0.00	30	5.59	3	0.00	40	2.70	49	9.78	27	1.13	16
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	0	0	7	54	0.00	30	4.80	7	0.00	40	2.78	48	8.71	10	1.13	16
470	14,15,19,30,33,45,47,48,52,65,67,78,79	0	0	5	38	0.00	30	4.81	7	0.00	40	2.34	56	8.61	8	1.13	16
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	0	0	5	38	0.00	30	0.42	28	0.00	40	0.00	100	12.43	70	2.16	32
135	3,11,14,20,29,42,43,57,58,66,67,70,83	0	0	4	31	0.00	30	1.83	21	0.00	40	1.85	65	11.67	58	1.07	15
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	0	0	7	54	0.00	30	0.41	28	0.00	40	0.44	92	12.53	72	2.16	32
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	0	0	10	77	2.03	22	1.33	24	0.00	40	1.14	78	12.20	67	0.15	1
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	0	0	8	62	0.00	30	1.74	22	0.00	40	1.58	70	9.43	22	2.16	32
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	0	0	6	46	0.00	30	1.76	22	0.00	40	1.14	78	9.34	20	2.16	32
523	8,10,20,22,28,43,44,59,66,67,70,79	0	0	4	31	0.00	30	2.03	20	0.00	40	0.00	100	9.67	26	1.13	16
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	5	38	0.00	30	4.99	6	0.00	40	4.10	23	9.73	27	1.07	15
508	14,20,22,28,42,43,57,58,66,67,70,78,79	0	0	4	31	0.00	30	2.45	18	0.00	40	0.00	100	11.87	61	1.13	16
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	2	50	11	85	3.79	16	1.44	23	0.61	37	0.53	90	13.11	81	2.16	32
220	3,8,10,20,29,43,44,59,66,67,70,81	0	0	4	31	0.00	30	1.42	23	0.00	40	1.40	74	9.49	23	1.07	15
527	7,8,13,28,42,43,57,58,66,67,70,79	0	0	5	38	0.00	30	2.03	20	0.00	40	0.00	100	12.42	70	1.13	16
180	3,14,20,29,42,43,57,58,66,67,70,78,81	0	0	4	31	0.00	30	1.84	21	0.00	40	1.40	74	11.68	58	1.07	15
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	0	0	6	46	0.00	30	2.44	18	0.00	40	0.44	92	11.97	63	1.13	16
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	0	0	7	54	0.00	30	3.77	12	0.00	40	1.58	70	8.87	13	1.13	16
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	0	0	5	38	0.00	30	3.79	12	0.00	40	1.14	78	8.78	11	1.13	16
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	2	50	10	77	3.79	16	3.47	13	0.61	37	0.53	90	12.55	72	1.13	16
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	0	0	8	62	2.03	22	0.00	30	0.00	40	0.00	100	14.27	100	0.15	1
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	0	0	8	62	2.03	22	2.36	19	0.00	40	2.34	56	10.24	35	0.15	1
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	6	46	0.00	30	4.19	10	0.00	40	4.18	21	8.66	9	1.07	15
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	2	50	9	69	3.79	16	2.86	16	0.61	37	1.94	63	12.50	71	1.07	15
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	0	0	11	85	2.03	22	3.14	15	0.43	38	2.87	46	10.64	41	0.15	1
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	0	0	7	54	2.03	22	4.18	10	0.00	40	3.33	37	9.49	23	0.15	1
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	0	0	10	77	2.03	22	2.88	16	0.00	40	2.89	46	10.63	41	0.15	1
321	4,9,11,16,23,25,34,47,48,52,53,69,80	0	0	6	46	2.03	22	3.50	13	0.43	38	3.43	35	10.30	36	0.15	1
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	0	0	5	38	0.00	30	1.83	21	0.00	40	1.85	65	11.92	62	1.07	15
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	6	46	0.00	30	3.16	15	0.00	40	2.99	44	8.82	12	1.07	15
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	0	0	11	85	2.03	22	3.15	15	0.43	38	2.43	54	10.65	41	0.15	1
217	3,8,10,20,22,28,43,44,59,66,67,70,81	0	0	5	38	0.00	30	1.42	23	0.00	40	1.40	74	9.74	27	1.07	15
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	0	0	7	54	2.03	22	4.19	10	0.00	40	2.89	46	9.51	23	0.15	1
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	0	0	8	62	2.03	22	1.33	24	0.00	40	1.14	78	10.41	37	0.15	1
521	8,10,20,29,42,43,57,58,66,67,70,79	0	0	4	31	0.00	30	2.03	20	0.00	40	0.00	100	11.87	61	1.13	16
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	0	0	6	46	0.00	30	4.20	10	0.00	40	3.74	29	8.68	10	1.07	15
202	3,7,8,13,28,42,43,57,58,66,67,70,81	0	0	6	46	0.00	30	1.42	23	0.00	40	1.40	74	12.49	71	1.07	15
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	0	0	5	38	0.00	30	1.84	21	0.00	40	1.40	74	11.93	62	1.07	15
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	0	0	7	54	2.03	22	3.16	15	0.00	40	2.13	60	9.66	25	0.15	1
248	4,17,24,25,34,47,48,52,53,69,80	0	0	5	38	3.24	18	2.01	20	0.43	38	1.88	65	10.23	35	0.15	1
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	0	0	10	77	2.03	22	1.86	21	0.00	40	1.69	68	10.79	44	0.15	1
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	0	0	6	46	0.00	30	3.18	15	0.00	40	2.54	52	8.84	12	1.07	15
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	0	0	7	54	2.03	22	3.17	15	0.00	40	1.69	68	9.67	26	0.15	1
510	8,10,15,19,30,33,45,47,48,52,65,67,79	0	0	6	46	0.00	30	4.39	9	0.00	40	2.34	56	8.87	13	1.13	16
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	0	0	12	92	0.00	30	3.14	15	0.43	38	2.87	46	9.93	30	2.16	32
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	0	0	10	77	0.00	30	3.15	15	0.43	38	2.43	54	9.84	28	2.16	32
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	0	0	10	77	1.24	25	1.66	22	0.43	38	1.88	65	12.47	71	2.16	32
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	0	0	8	62	0.00	30	4.18	10	0.00	40	3.33	37	8.79	11	2.16	32
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	0	0	9	69	2.03	22	3.55	13	0.00	40	2.13	60	11.13	49	0.15	1
218	3,8,10,20,29,42,43,57,58,66,67,70,81	0	0	5	38	0.00	30	1.42	23	0.00	40	1.40	74	11.94	62	1.07	15
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	0	0	6	46	1.24	25	2.70	17	0.00	40	2.34	56	11.33	52	2.16	32
524	8,10,20,22,28,42,43,57,58,66,67,70,79	0	0	5	38	0.00	30	2.03	20	0.00	40	0.00	100	12.12	65	1.13	16

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	0	0	6	46	1.24	25	1.68	22	0.00	40	1.14	78	11.35	53	2.16	32
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	0	0	6	46	0.00	30	3.37	14	0.00	40	1.14	78	9.03	15	1.13	16
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	0	0	7	54	0.00	30	3.50	13	0.43	38	3.43	35	9.60	25	2.16	32
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	0	0	11	85	0.00	30	5.17	5	0.43	38	2.87	46	9.37	21	1.13	16
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	0	0	9	69	0.00	30	5.19	5	0.43	38	2.43	54	9.28	19	1.13	16
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	0	0	4	31	2.03	22	3.91	11	0.00	40	2.70	49	10.80	44	0.15	1
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	0	0	9	69	1.24	25	3.69	12	0.43	38	1.88	65	11.91	62	1.13	16
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	0	0	7	54	0.00	30	6.21	0	0.00	40	3.33	37	8.23	2	1.13	16
438	23,25,34,47,48,52,65,67,78,79,82	0	0	5	38	0.00	30	6.22	0	0.00	40	2.89	46	8.13	1	1.13	16
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	9	69	2.03	22	3.56	13	0.00	40	1.69	68	11.15	50	0.15	1
425	9,17,24,25,34,47,48,52,65,67,71,79,81	0	0	5	38	1.24	25	4.73	7	0.00	40	2.34	56	10.77	43	1.13	16
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	0	0	11	85	2.03	22	2.60	17	0.43	38	2.87	46	11.26	51	0.15	1
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	0	0	5	38	1.24	25	3.71	12	0.00	40	1.14	78	10.79	44	1.13	16
429	11,16,23,25,34,47,48,52,53,69,79,80,81	0	0	6	46	0.00	30	5.53	3	0.43	38	3.43	35	9.04	15	1.13	16
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	0	0	9	69	2.03	22	2.07	20	0.43	38	2.32	56	10.88	45	0.15	1
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	0	0	7	54	2.03	22	3.64	12	0.00	40	3.33	37	10.12	33	0.15	1
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	0	0	8	62	0.00	30	3.16	15	0.00	40	2.13	60	8.96	14	2.16	32
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	0	0	6	46	0.00	30	3.17	15	0.00	40	1.69	68	8.86	12	2.16	32
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	6	46	2.03	22	3.32	14	0.00	40	3.37	36	10.01	31	0.15	1
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	0	0	7	54	0.00	30	3.78	12	0.00	40	3.74	29	8.93	14	1.07	15
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	0	0	9	69	2.03	22	2.09	20	0.43	38	1.88	65	10.89	45	0.15	1
228	3,9,17,24,25,34,47,48,52,67,70,76,84	0	0	4	31	1.24	25	3.10	15	0.00	40	2.54	52	10.74	43	1.07	15
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	0	0	7	54	0.00	30	5.19	5	0.00	40	2.13	60	8.39	5	1.13	16
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	0	0	7	54	2.03	22	3.65	12	0.00	40	2.89	46	10.14	33	0.15	1
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	0	0	5	38	0.00	30	5.20	5	0.00	40	1.69	68	8.30	3	1.13	16
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	0	0	3	23	3.24	18	2.42	18	0.00	40	1.14	78	10.72	43	0.15	1
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	0	0	8	62	1.24	25	3.09	15	0.43	38	3.28	38	11.86	61	1.07	15
227	3,9,17,24,25,34,47,48,52,65,67	0	0	4	31	1.24	25	4.12	10	0.00	40	3.74	29	10.72	43	1.07	15
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	0	0	10	77	0.00	30	4.56	8	0.43	38	4.27	19	9.32	20	1.07	15
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	0	0	6	46	0.00	30	1.42	23	0.00	40	1.40	74	12.19	66	1.07	15
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	0	0	7	54	2.03	22	2.61	17	0.00	40	2.13	60	10.28	36	0.15	1
152	3,11,16,23,25,34,47,48,52,53,69,80	0	0	5	38	0.00	30	4.92	6	0.43	38	4.84	9	8.99	15	1.07	15
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	0	0	7	54	0.00	30	2.76	17	0.00	40	2.54	52	9.09	16	1.07	15
172	3,11,23,25,34,47,48,52,65,67,77,82,83	0	0	6	46	0.00	30	5.60	3	0.00	40	4.73	11	8.18	2	1.07	15
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	0	0	6	46	2.03	22	2.63	17	0.00	40	1.69	68	10.25	35	0.15	1
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	6	46	2.03	22	2.30	19	0.00	40	2.17	59	10.17	34	0.15	1
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	0	0	8	62	0.00	30	3.56	13	0.00	40	1.69	68	10.33	36	2.16	32
7	2,10,15,19,30,33,45,47,48,52,53,69,80	0	0	7	54	0.00	30	1.66	22	0.43	38	1.88	65	9.17	17	2.16	32
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	0	0	6	46	0.00	30	4.58	8	0.00	40	3.53	33	8.35	4	1.07	15
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	0	0	8	62	1.24	25	2.07	20	0.00	40	1.14	78	12.97	79	2.16	32
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	0	0	10	77	0.00	30	4.58	8	0.43	38	3.83	28	9.34	20	1.07	15
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	0	0	10	77	0.00	30	3.55	13	0.00	40	2.13	60	10.43	38	2.16	32
199	3,23,25,34,47,48,52,65,67,78,81,82	0	0	6	46	0.00	30	5.61	3	0.00	40	4.29	19	8.20	2	1.07	15
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	0	0	7	54	0.00	30	5.59	3	0.00	40	1.69	68	9.77	27	1.13	16
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	0	0	7	54	1.24	25	4.10	10	0.00	40	1.14	78	12.40	70	1.13	16
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	0	0	12	92	2.03	22	1.66	22	0.43	38	1.88	65	12.94	79	0.15	1
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	0	0	10	77	0.00	30	2.07	20	0.43	38	2.32	56	10.18	34	2.16	32
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	0	0	8	62	0.00	30	2.09	20	0.43	38	1.88	65	10.08	32	2.16	32
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	0	0	5	38	0.00	30	3.91	11	0.00	40	2.70	49	10.10	33	2.16	32
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	0	0	9	69	2.03	22	3.00	16	0.00	40	2.13	60	11.76	59	0.15	1
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	0	0	9	69	0.00	30	5.58	3	0.00	40	2.13	60	9.87	29	1.13	16
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	7	54	2.03	22	2.48	18	0.00	40	1.58	70	11.37	53	0.15	1
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	0	0	7	54	0.00	30	3.32	14	0.00	40	3.37	36	9.31	20	2.16	32
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	0	0	6	46	0.00	30	4.59	8	0.00	40	3.09	42	8.36	4	1.07	15
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	0	0	9	69	0.00	30	4.10	10	0.43	38	2.32	56	9.61	25	1.13	16
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	0	0	7	54	0.00	30	4.12	10	0.43	38	1.88	65	9.52	23	1.13	16
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	0	0	4	31	0.00	30	5.94	1	0.00	40	2.70	49	9.54	23	1.13	16
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	6	46	1.24	25	3.49	13	0.00	40	2.54	52	12.36	69	1.07	15
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	0	0	7	54	2.03	22	2.49	18	0.00	40	1.14	78	11.39	53	0.15	1
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	0	0	6	46	0.00	30	5.36	4	0.00	40	3.37	36	8.75	11	1.13	16
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	0	0	8	62	0.00	30	4.97	6	0.00	40	3.53	33	9.82	28	1.07	15
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	0	0	3	23	0.00	30	5.33	4	0.00	40	4.10	23	9.49	23	1.07	15
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	0	0	7	54	0.00	30	2.30	19	0.00	40	2.17	59	9.47	22	2.16	32

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
5	2,10,15,19,21,29,43,44,55,67,70,76	0	0	6	46	0.00	30	0.76	26	0.00	40	0.00	100	9.51	23	2.16	32
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	8	62	0.00	30	4.98	6	0.00	40	3.09	42	9.84	28	1.07	15
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	0	0	6	46	0.00	30	4.33	9	0.00	40	2.17	59	8.91	13	1.13	16
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	0	0	7	54	2.03	22	3.31	14	0.00	40	2.78	48	10.00	31	0.15	1
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	5	38	0.00	30	4.75	7	0.00	40	4.78	10	8.70	10	1.07	15
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	0	0	10	77	2.03	22	1.66	22	0.43	38	1.88	65	11.15	50	0.15	1
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	0	0	8	62	0.00	30	3.49	13	0.43	38	3.72	30	9.57	24	1.07	15
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	10	77	2.03	22	2.07	20	0.00	40	1.14	78	13.44	87	0.15	1
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	0	0	9	69	2.03	22	3.49	13	0.43	38	2.87	46	10.40	37	0.15	1
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	0	0	5	38	0.00	30	2.07	20	0.00	40	1.14	78	9.67	26	2.16	32
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	0	0	12	92	2.03	22	2.19	19	0.43	38	2.43	54	11.53	56	0.15	1
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	0	0	8	62	2.03	22	3.23	14	0.00	40	2.89	46	10.39	37	0.15	1
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	0	0	9	69	0.00	30	1.17	24	0.00	40	0.44	92	10.52	39	2.16	32
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	7	54	2.03	22	3.32	14	0.00	40	2.34	56	10.01	31	0.15	1
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	5	38	0.00	30	3.72	12	0.00	40	3.58	32	8.86	12	1.07	15
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	0	0	6	46	0.00	30	2.49	18	0.00	40	1.14	78	10.58	40	2.16	32
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	0	0	9	69	2.03	22	3.50	13	0.43	38	2.43	54	10.41	38	0.15	1
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	0	0	7	54	2.03	22	2.29	19	0.00	40	1.58	70	10.16	34	0.15	1
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	0	0	8	62	0.00	30	3.51	13	0.43	38	3.28	38	9.58	24	1.07	15
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	0	0	8	62	0.00	30	2.48	18	0.00	40	1.58	70	10.67	42	2.16	32
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	0	0	8	62	0.00	30	3.20	15	0.00	40	0.44	92	9.96	30	1.13	16
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	0	0	5	38	0.00	30	4.52	8	0.00	40	1.14	78	10.01	31	1.13	16
2	2,10,15,19,21,22,28,43,44,55,67,70,76	0	0	7	54	0.00	30	0.76	26	0.00	40	0.00	100	9.76	27	2.16	32
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	0	0	8	62	2.03	22	2.21	19	0.00	40	1.69	68	10.55	40	0.15	1
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	0	0	7	54	0.00	30	4.51	8	0.00	40	1.58	70	10.11	33	1.13	16
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	7	54	2.03	22	2.30	19	0.00	40	1.14	78	10.17	34	0.15	1
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	0	0	8	62	0.00	30	3.69	12	0.43	38	1.88	65	9.77	27	1.13	16
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	0	0	10	77	0.00	30	1.17	24	0.00	40	0.44	92	10.77	43	2.16	32
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	0	0	7	54	0.00	30	2.59	18	0.00	40	1.85	65	9.91	29	1.07	15
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	0	0	8	62	0.00	30	3.31	14	0.00	40	2.78	48	9.30	20	2.16	32
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	0	0	6	46	0.00	30	3.32	14	0.00	40	2.34	56	9.20	18	2.16	32
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	0	0	9	69	0.00	30	3.20	15	0.00	40	0.44	92	10.21	34	1.13	16
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	8	62	2.03	22	2.07	20	0.00	40	1.14	78	11.64	58	0.15	1
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	6	46	0.00	30	3.90	11	0.00	40	2.99	44	10.06	32	1.07	15
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	0	0	10	77	0.00	30	3.49	13	0.43	38	2.87	46	9.70	26	2.16	32
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	0	0	8	62	0.00	30	3.50	13	0.43	38	2.43	54	9.60	24	2.16	32
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	0	0	8	62	1.24	25	2.01	20	0.43	38	1.88	65	12.23	67	2.16	32
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	0	0	7	54	2.03	22	3.89	11	0.00	40	2.13	60	10.90	45	0.15	1
458	11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	7	54	0.00	30	5.34	4	0.00	40	2.78	48	8.74	10	1.13	16
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	0	0	10	77	2.03	22	2.60	17	0.00	40	1.69	68	12.03	64	0.15	1
462	18,19,30,33,45,47,48,52,65,67,77,78,79	0	0	5	38	0.00	30	5.35	4	0.00	40	2.34	56	8.64	9	1.13	16
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	0	0	9	69	0.00	30	5.52	3	0.43	38	2.87	46	9.14	17	1.13	16
437	23,25,34,47,48,52,53,69,77,78,79,80,82	0	0	7	54	0.00	30	5.53	3	0.43	38	2.43	54	9.04	15	1.13	16
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	0	0	6	46	0.00	30	3.91	11	0.00	40	2.54	52	10.08	32	1.07	15
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	0	0	7	54	1.24	25	4.04	11	0.43	38	1.88	65	11.67	58	1.13	16
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	0	0	8	62	0.00	30	2.29	19	0.00	40	1.58	70	9.46	22	2.16	32
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	0	0	6	46	0.00	30	2.30	19	0.00	40	1.14	78	9.36	21	2.16	32
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	7	54	2.03	22	3.91	11	0.00	40	1.69	68	10.91	46	0.15	1
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	0	0	9	69	2.03	22	2.94	16	0.43	38	2.87	46	11.03	48	0.15	1
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	0	0	8	62	0.00	30	2.59	18	0.00	40	1.85	65	10.16	34	1.07	15
6	2,10,15,19,21,29,43,44,59,66,67,70	0	0	4	31	0.00	30	0.00	30	0.00	40	0.00	100	9.23	18	2.16	32
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	0	0	8	62	2.03	22	2.63	17	0.43	38	2.91	45	10.91	46	0.15	1
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	0	0	7	54	0.00	30	4.32	9	0.00	40	1.58	70	8.90	13	1.13	16
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	0	0	5	38	0.00	30	4.33	9	0.00	40	1.14	78	8.80	12	1.13	16
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	0	0	9	69	0.00	30	3.09	15	0.43	38	3.28	38	9.84	28	1.07	15
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	0	0	9	69	2.03	22	2.96	16	0.43	38	2.43	54	11.04	48	0.15	1
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	6	46	0.00	30	4.73	7	0.00	40	4.18	21	8.69	10	1.07	15
226	3,9,17,24,25,34,47,48,52,53,69,80	0	0	6	46	1.24	25	3.43	13	0.43	38	3.28	38	11.62	57	1.07	15
513	8,10,15,19,21,29,43,44,55,67,70,76,79	0	0	7	54	0.00	30	2.79	17	0.00	40	0.00	100	10.12	33	1.13	16
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	0	0	7	54	0.00	30	0.41	28	0.00	40	0.44	92	10.23	35	2.16	32
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	0	0	8	62	0.00	30	4.91	6	0.43	38	4.27	19	9.09	16	1.07	15
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	0	0	6	46	0.00	30	4.10	10	0.00	40	1.14	78	10.27	35	1.13	16
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	0	0	6	46	0.00	30	3.71	12	0.00	40	2.99	44	8.85	12	1.07	15

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	0	0	6	46	0.00	30	2.44	18	0.00	40	0.44	92	9.67	26	1.13	16
3	2,10,15,19,21,22,28,43,44,59,66,67,70	0	0	5	38	0.00	30	0.00	30	0.00	40	0.00	100	9.48	22	2.16	32
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	0	0	6	46	0.00	30	3.91	11	0.00	40	1.69	68	10.10	33	2.16	32
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	6	46	0.00	30	4.74	7	0.00	40	3.74	29	8.70	10	1.07	15
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	0	0	6	46	1.24	25	2.42	18	0.00	40	1.14	78	12.73	75	2.16	32
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	7	54	2.03	22	1.73	22	0.00	40	1.03	80	11.26	51	0.15	1
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	0	0	8	62	0.00	30	4.92	6	0.43	38	3.83	28	9.10	16	1.07	15
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	0	0	8	62	0.00	30	3.89	11	0.00	40	2.13	60	10.19	34	2.16	32
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	0	0	5	38	0.00	30	5.94	1	0.00	40	1.69	68	9.54	23	1.13	16
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	0	0	5	38	1.24	25	4.45	9	0.00	40	1.14	78	12.17	66	1.13	16
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	0	0	8	62	0.00	30	2.79	17	0.00	40	0.00	100	10.37	37	1.13	16
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	6	46	0.00	30	3.72	12	0.00	40	2.54	52	8.86	13	1.07	15
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	0	0	8	62	0.00	30	0.41	28	0.00	40	0.44	92	10.49	39	2.16	32
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	0	0	8	62	0.00	30	2.18	19	0.00	40	1.40	74	10.18	34	1.07	15
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	0	0	5	38	0.00	30	1.83	21	0.00	40	1.85	65	9.62	25	1.07	15
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	0	0	7	54	2.03	22	3.35	14	0.00	40	2.13	60	11.52	56	0.15	1
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	0	0	7	54	0.00	30	5.92	1	0.00	40	2.13	60	9.63	25	1.13	16
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	0	0	9	69	0.00	30	2.63	17	0.43	38	2.91	45	10.21	34	2.16	32
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	0	0	6	46	2.03	22	3.04	15	0.00	40	2.17	59	11.41	54	0.15	1
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	0	0	7	54	0.00	30	2.44	18	0.00	40	0.44	92	9.92	30	1.13	16
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	0	0	4	31	1.24	25	3.84	12	0.00	40	2.54	52	12.12	65	1.07	15
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	7	54	0.00	30	3.49	13	0.00	40	2.54	52	10.33	36	1.07	15
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	0	0	8	62	0.00	30	4.66	8	0.43	38	2.91	45	9.65	25	1.13	16
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	0	0	7	54	2.03	22	3.36	14	0.00	40	1.69	68	11.54	56	0.15	1
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	8	62	2.03	22	1.73	22	0.00	40	1.03	80	11.51	55	0.15	1
4	2,10,15,19,21,29,42,43,57,58,66,67,70	0	0	5	38	0.00	30	0.00	30	0.00	40	0.00	100	11.68	58	2.16	32
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	0	0	6	46	0.00	30	5.31	4	0.00	40	3.53	33	9.58	24	1.07	15
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	0	0	9	69	0.00	30	2.18	19	0.00	40	1.40	74	10.43	38	1.07	15
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	0	0	6	46	0.00	30	1.83	21	0.00	40	1.85	65	9.87	29	1.07	15
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	0	0	9	69	2.03	22	2.62	17	0.43	38	2.32	56	10.90	46	0.15	1
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	0	0	7	54	0.00	30	4.05	10	0.43	38	4.31	19	9.60	25	1.07	15
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	6	46	0.00	30	5.33	4	0.00	40	3.09	42	9.60	24	1.07	15
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	0	0	8	62	0.00	30	0.41	28	0.00	40	0.44	92	12.68	74	2.16	32
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	0	0	10	77	2.03	22	2.53	18	0.43	38	2.43	54	11.30	52	0.15	1
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	0	0	7	54	0.00	30	2.44	18	0.00	40	0.44	92	12.12	65	1.13	16
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	0	0	9	69	2.03	22	2.63	17	0.43	38	1.88	65	10.92	46	0.15	1
514	8,10,15,19,21,29,43,44,59,66,67,70,79	0	0	5	38	0.00	30	2.03	20	0.00	40	0.00	100	9.83	28	1.13	16
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	0	0	8	62	0.00	30	1.73	22	0.00	40	1.03	80	10.56	40	2.16	32
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	0	0	6	46	0.00	30	0.00	30	0.00	40	0.00	100	11.93	62	2.16	32
401	6,12,39,57,58,66,67,70	0	0	0	0	0.00	30	0.00	30	0.00	40	0.00	100	9.57	24	6.62	100
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	0	0	7	54	0.00	30	3.04	15	0.00	40	2.17	59	10.71	42	2.16	32
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	0	0	7	54	0.00	30	3.76	12	0.00	40	1.03	80	9.99	31	1.13	16
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	0	0	6	46	0.00	30	1.83	21	0.00	40	1.85	65	12.07	64	1.07	15
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	5	38	2.03	22	0.97	25	0.00	40	1.03	80	10.97	47	0.15	1
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	8	62	2.03	22	1.71	22	0.00	40	0.44	92	11.25	51	0.15	1
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	0	0	6	46	0.00	30	5.07	6	0.00	40	2.17	59	10.15	33	1.13	16
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	0	0	9	69	0.00	30	0.41	28	0.00	40	0.44	92	12.93	78	2.16	32
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	0	0	6	46	0.00	30	2.03	20	0.00	40	0.00	100	10.08	32	1.13	16
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	6	46	0.00	30	3.15	15	0.00	40	2.44	54	9.95	30	1.07	15
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	0	0	6	46	0.00	30	1.42	23	0.00	40	1.40	74	9.89	29	1.07	15
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	8	62	2.03	22	1.73	22	0.00	40	0.00	100	11.26	51	0.15	1
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	0	0	9	69	0.00	30	1.73	22	0.00	40	1.03	80	10.81	44	2.16	32
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	0	0	10	77	0.00	30	2.62	17	0.43	38	2.32	56	10.20	34	2.16	32
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	0	0	8	62	0.00	30	2.44	18	0.00	40	0.44	92	12.37	69	1.13	16
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	0	0	8	62	0.00	30	2.63	17	0.43	38	1.88	65	10.10	33	2.16	32
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	7	54	2.03	22	3.02	15	0.00	40	1.58	70	11.40	54	0.15	1
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	0	0	5	38	0.00	30	4.46	9	0.00	40	3.58	32	10.10	33	1.07	15
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	0	0	8	62	0.00	30	3.76	12	0.00	40	1.03	80	10.25	35	1.13	16
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	0	0	9	69	0.00	30	4.65	8	0.43	38	2.32	56	9.64	25	1.13	16
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	0	0	7	54	0.00	30	4.66	8	0.43	38	1.88	65	9.54	24	1.13	16
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	0	0	8	62	2.03	22	2.94	16	0.00	40	1.69	68	11.79	60	0.15	1
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	6	46	2.03	22	0.97	25	0.00	40	1.03	80	11.22	51	0.15	1
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	9	69	2.03	22	1.71	22	0.00	40	0.44	92	11.50	55	0.15	1

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	0	0	7	54	2.03	22	3.04	15	0.00	40	1.14	78	11.41	54	0.15	1
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	0	0	7	54	0.00	30	1.83	21	0.00	40	1.85	65	12.32	69	1.07	15
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	7	54	0.00	30	3.15	15	0.00	40	2.44	54	10.20	34	1.07	15
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	0	0	7	54	0.00	30	1.42	23	0.00	40	1.40	74	10.14	33	1.07	15
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	9	69	2.03	22	1.73	22	0.00	40	0.00	100	11.51	55	0.15	1
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	0	0	6	46	0.00	30	2.03	20	0.00	40	0.00	100	12.28	68	1.13	16
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	0	0	8	62	0.00	30	4.04	11	0.43	38	3.72	30	9.59	24	1.07	15
399	6,12,39,42,44,55,67,70,76	0	0	5	38	0.00	30	0.76	26	0.00	40	0.00	100	10.35	37	6.62	100
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	0	0	7	54	0.00	30	1.73	22	0.00	40	0.00	100	10.45	38	2.16	32
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	0	0	6	46	0.00	30	0.97	25	0.00	40	1.03	80	10.27	35	2.16	32
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	0	0	9	69	0.00	30	1.71	22	0.00	40	0.44	92	10.54	40	2.16	32
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	0	0	6	46	0.00	30	3.04	15	0.00	40	1.14	78	10.60	41	2.16	32
482	18,19,21,29,43,44,55,67,70,76,77,78,79	0	0	6	46	0.00	30	3.76	12	0.00	40	0.00	100	9.89	29	1.13	16
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0	0	6	46	2.03	22	0.97	25	0.00	40	1.03	80	13.42	86	0.15	1
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	0	0	8	62	0.00	30	4.05	10	0.43	38	3.28	38	9.61	25	1.07	15
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	0	0	8	62	0.00	30	3.02	15	0.00	40	1.58	70	10.70	42	2.16	32
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	0	0	5	38	0.00	30	3.00	16	0.00	40	1.03	80	9.71	26	1.13	16
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	0	0	8	62	0.00	30	3.74	12	0.00	40	0.44	92	9.98	31	1.13	16
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	0	0	5	38	0.00	30	5.07	6	0.00	40	1.14	78	10.04	32	1.13	16
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	0	0	7	54	0.00	30	1.42	23	0.00	40	1.40	74	12.34	69	1.07	15
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	0	0	6	46	2.03	22	0.95	25	0.00	40	0.44	92	10.96	46	0.15	1
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	0	0	7	54	0.00	30	2.03	20	0.00	40	0.00	100	12.53	72	1.13	16
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	0	0	7	54	0.00	30	5.05	6	0.00	40	1.58	70	10.14	33	1.13	16
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	0	0	8	62	0.00	30	1.73	22	0.00	40	0.00	100	10.70	42	2.16	32
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	4	31	0.00	30	2.39	18	0.00	40	2.44	54	9.66	25	1.07	15
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	6	46	2.03	22	0.96	25	0.00	40	0.00	100	10.97	47	0.15	1
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	0	0	7	54	0.00	30	0.97	25	0.00	40	1.03	80	10.52	39	2.16	32
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	0	0	10	77	0.00	30	1.71	22	0.00	40	0.44	92	10.80	44	2.16	32
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	7	54	0.00	30	3.13	15	0.00	40	1.85	65	9.93	30	1.07	15
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	0	0	7	54	0.00	30	3.76	12	0.00	40	0.00	100	10.14	33	1.13	16
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	0	0	6	46	0.00	30	3.00	16	0.00	40	1.03	80	9.96	30	1.13	16
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0	0	7	54	2.03	22	0.97	25	0.00	40	1.03	80	13.67	90	0.15	1
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	6	46	0.00	30	4.44	9	0.00	40	2.99	44	10.09	32	1.07	15
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	7	54	0.00	30	3.15	15	0.00	40	1.40	74	9.95	30	1.07	15
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	0	0	7	54	2.03	22	0.95	25	0.00	40	0.44	92	11.21	51	0.15	1
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	0	0	8	62	0.00	30	1.42	23	0.00	40	1.40	74	12.59	73	1.07	15
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	5	38	0.00	30	2.39	18	0.00	40	2.44	54	9.91	30	1.07	15
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	0	0	6	46	0.00	30	4.46	9	0.00	40	2.54	52	10.10	33	1.07	15
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	7	54	2.03	22	0.96	25	0.00	40	0.00	100	11.23	51	0.15	1
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	8	62	0.00	30	3.13	15	0.00	40	1.85	65	10.19	34	1.07	15
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	0	0	8	62	0.00	30	3.13	15	0.00	40	1.85	65	10.19	34	1.07	15
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	0	0	7	54	0.00	30	0.97	25	0.00	40	1.03	80	12.72	75	2.16	32
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	0	0	5	38	0.00	30	0.96	25	0.00	40	0.00	100	10.16	34	2.16	32
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	8	62	0.00	30	3.15	15	0.00	40	1.40	74	10.20	34	1.07	15
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	0	0	6	46	0.00	30	3.00	16	0.00	40	1.03	80	12.16	66	1.13	16
400	6,12,39,42,44,59,66,67,70	0	0	3	23	0.00	30	0.00	30	0.00	40	0.00	100	10.07	32	6.62	100
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	0	0	7	54	0.00	30	0.95	25	0.00	40	0.44	92	10.26	35	2.16	32
483	18,19,21,29,43,44,59,66,67,70,77,78,79	0	0	4	31	0.00	30	3.00	16	0.00	40	0.00	100	9.60	24	1.13	16
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0	0	7	54	2.03	22	0.95	25	0.00	40	0.44	92	13.41	86	0.15	1
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	0	0	6	46	0.00	30	2.98	16	0.00	40	0.44	92	9.70	26	1.13	16
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0	0	5	38	0.00	30	2.39	18	0.00	40	2.44	54	12.11	65	1.07	15
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0	0	7	54	2.03	22	0.96	25	0.00	40	0.00	100	13.42	86	0.15	1
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	0	0	6	46	0.00	30	0.96	25	0.00	40	0.00	100	10.41	38	2.16	32
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	0	0	8	62	0.00	30	0.97	25	0.00	40	1.03	80	12.97	79	2.16	32
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	0	0	8	62	0.00	30	0.95	25	0.00	40	0.44	92	10.51	39	2.16	32
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	0	0	5	38	0.00	30	2.37	19	0.00	40	1.85	65	9.65	25	1.07	15
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	0	0	5	38	0.00	30	3.00	16	0.00	40	0.00	100	9.85	29	1.13	16
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	0	0	7	54	0.00	30	3.00	16	0.00	40	1.03	80	12.41	70	1.13	16
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	0	0	7	54	0.00	30	2.98	16	0.00	40	0.44	92	9.95	30	1.13	16
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0	0	8	62	2.03	22	0.95	25	0.00	40	0.44	92	13.66	90	0.15	1
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	5	38	0.00	30	2.39	18	0.00	40	1.40	74	9.66	25	1.07	15
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0	0	6	46	0.00	30	2.39	18	0.00	40	2.44	54	12.36	69	1.07	15
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0	0	8	62	2.03	22	0.96	25	0.00	40	0.00	100	13.68	90	0.15	1

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	0	0	6	46	0.00	30	0.96	25	0.00	40	0.00	100	12.61	73	2.16	32
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	0	0	6	46	0.00	30	2.37	19	0.00	40	1.85	65	9.90	29	1.07	15
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	0	0	8	62	0.00	30	0.95	25	0.00	40	0.44	92	12.71	75	2.16	32
404	6,26,40,41,57,58,66,67,70	0	0	4	31	0.00	30	0.00	30	0.00	40	0.00	100	9.77	27	6.62	100
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	0	0	5	38	0.00	30	3.00	16	0.00	40	0.00	100	12.05	64	1.13	16
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	6	46	0.00	30	2.39	18	0.00	40	1.40	74	9.91	30	1.07	15
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	0	0	7	54	0.00	30	2.98	16	0.00	40	0.44	92	12.15	66	1.13	16
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	0	0	7	54	0.00	30	0.96	25	0.00	40	0.00	100	12.86	77	2.16	32
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0	0	6	46	0.00	30	2.37	19	0.00	40	1.85	65	12.10	65	1.07	15
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	0	0	9	69	0.00	30	0.95	25	0.00	40	0.44	92	12.96	79	2.16	32
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	0	0	6	46	0.00	30	3.00	16	0.00	40	0.00	100	12.30	68	1.13	16
397	6,12,27,40,41,57,58,66,67,70	0	0	2	15	0.00	30	0.00	30	0.00	40	0.00	100	9.73	26	6.62	100
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0	0	6	46	0.00	30	2.39	18	0.00	40	1.40	74	12.11	65	1.07	15
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	0	0	8	62	0.00	30	2.98	16	0.00	40	0.44	92	12.40	70	1.13	16
402	6,26,40,41,42,44,55,67,70,76	0	0	9	69	0.00	30	0.76	26	0.00	40	0.00	100	10.55	40	6.62	100
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0	0	7	54	0.00	30	2.37	19	0.00	40	1.85	65	12.35	69	1.07	15
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0	0	7	54	0.00	30	2.39	18	0.00	40	1.40	74	12.36	69	1.07	15
395	6,12,27,40,41,42,44,55,67,70,76	0	0	7	54	0.00	30	0.76	26	0.00	40	0.00	100	10.51	39	6.62	100
403	6,26,40,41,42,59,66,67,70	0	0	7	54	0.00	30	0.00	30	0.00	40	0.00	100	10.26	35	6.62	100
396	6,12,27,40,41,42,44,59,66,67,70	0	0	5	38	0.00	30	0.00	30	0.00	40	0.00	100	10.22	35	6.62	100
405	6,26,40,56,58,66,67,70	0	0	4	31	0.00	30	0.00	30	0.00	40	0.00	100	10.31	36	6.62	100
398	6,12,27,40,56,58,66,67,70	0	0	2	15	0.00	30	0.00	30	0.00	40	0.00	100	10.26	35	6.62	100
	MIN	0	0	0	0	0	0	0.00	0	0.00	0	0.00	0	8.09	0	0.07	0
	MAX	4	100	13	100	8	30	6.23	30	9.07	40	5.30	100	14.27	100	6.62	100
	RANGE	4	100	13	100	8	30	6.23	30	9.07	40	5.30	100	6.18	100	6.55	100

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
392	5,35,38,64,71,73	7.2	0.0	14.6	45.0	17.0	1
252	4,17,32,37,50,69,75,80	5.2	16.0	9.3	52.9	17.5	2
382	5,35,36,37,50,69,75,80	1.3	16.0	12.1	54.8	17.8	3
394	5,60,62,64	12.8	0.0	10.0	50.7	18.0	4
393	5,60,61,64	12.8	0.0	10.4	52.3	18.4	5
267	4,17,32,37,64,71,72,74,75	10.1	0.0	9.5	58.2	18.5	6
261	4,17,32,37,49,64,71,73	10.9	0.0	10.5	56.5	18.7	7
384	5,35,36,37,64,71,72,74,75	6.2	0.0	12.3	60.1	18.8	8
388	5,35,38,49,50,69,75,80	1.5	16.0	15.1	54.1	18.9	9
378	5,35,36,37,49,64,71,73	7.0	0.0	13.3	58.3	19.1	10
263	4,17,32,37,50,53,65,67,75	17.8	19.0	9.6	42.3	19.5	11
259	4,17,32,36,38,64,71,73	11.1	0.0	13.1	55.8	19.7	12
380	5,35,36,37,50,53,65,67,75	13.9	19.0	12.4	44.2	19.9	13
264	4,17,32,37,50,53,67,70,75,76,84	18.0	4.0	10.4	49.6	19.9	14
390	5,35,38,49,64,71,72,74,75	6.5	0.0	15.3	59.4	20.0	15
381	5,35,36,37,50,53,67,70,75,76,84	14.1	4.0	13.2	51.4	20.2	16
266	4,17,32,37,63,74,75,80	8.8	27.0	13.4	47.7	20.2	17
383	5,35,36,37,63,74,75,80	4.9	27.0	16.2	49.5	20.6	18
386	5,35,38,49,50,53,65,67,75	14.2	19.0	15.4	43.5	21.0	19
387	5,35,38,49,50,53,67,70,75,76,84	14.4	4.0	16.2	50.8	21.3	20
256	4,17,32,36,38,49,50,69,75,80	5.4	16.0	13.1	64.9	21.4	21
389	5,35,38,49,63,74,75,80	5.2	27.0	19.2	48.8	21.7	22
391	5,35,38,63,72,73,80	5.9	27.0	20.0	47.2	21.9	23
258	4,17,32,36,38,49,64,71,72,74,75	10.4	0.0	13.3	70.2	22.5	24
118	2,8,9,17,32,37,50,69,75,80,81	9.2	16.0	13.9	64.7	22.8	25
241	3,9,17,32,37,50,69,75,80	5.3	55.0	14.2	51.7	23.1	26
413	9,17,32,37,50,69,75,79,80,81	5.9	55.0	10.2	58.9	23.1	27
254	4,17,32,36,38,49,50,53,65,67,75	18.1	19.0	13.3	54.3	23.5	28
260	4,17,32,37,49,63,72,73,80	9.5	27.0	15.9	58.6	23.6	29
255	4,17,32,36,38,49,50,53,67,70,75,76,84	18.3	4.0	14.1	61.6	23.9	30
120	2,8,9,17,32,37,64,71,72,74,75,81	14.1	0.0	14.1	70.0	23.9	31
377	5,35,36,37,49,63,72,73,80	5.6	27.0	18.7	60.5	24.0	32
114	2,8,9,17,32,37,49,64,71,73,81	14.9	0.0	15.1	68.3	24.1	33
243	3,9,17,32,37,64,71,72,74,75	10.2	39.0	14.4	57.0	24.1	34
408	9,17,32,37,64,71,72,74,75,79,81	10.8	39.0	10.4	64.2	24.2	35
257	4,17,32,36,38,49,63,34,74,75,80	9.1	27.0	17.2	59.6	24.2	36
237	3,9,17,32,37,49,64,71,73	10.9	39.0	15.4	55.3	24.4	37
407	9,17,32,37,49,64,71,73,79,81	11.6	39.0	11.4	62.5	24.4	38
253	4,17,32,36,38,36,34,72,73,80	9.8	27.0	18.5	58.0	24.6	39
117	2,8,9,17,32,37,50,53,65,67,71,75,81	21.8	19.0	13.7	54.1	24.8	40
415	9,17,32,37,50,53,65,67,71,75,79,81	18.5	58.0	10.0	48.3	25.0	41
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	22.0	4.0	14.5	61.3	25.1	42
262	4,17,32,37,50,53,55,59,66,67,70,75,84	21.4	4.0	19.9	51.7	25.1	43
112	2,8,9,17,32,36,38,64,71,73,81	15.1	0.0	17.7	67.6	25.1	44
240	3,9,17,32,37,50,53,65,67,75	17.9	58.0	14.5	41.1	25.2	45
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	18.7	43.0	10.8	55.6	25.3	46
235	3,9,17,32,36,38,64,71,73	11.2	39.0	18.0	54.6	25.4	47
406	9,17,32,36,38,64,71,73,79,81	11.8	39.0	14.0	61.8	25.4	48
379	5,35,36,37,50,53,55,59,66,67,70,75,84	17.5	4.0	22.7	53.6	25.4	49
238	3,9,17,32,37,50,35,67,70,75,76,84	18.1	43.0	15.3	48.4	25.5	50
119	2,8,9,17,32,37,63,74,75,80,81	12.8	27.0	18.1	59.4	25.6	51
242	3,9,17,32,37,63,74,75,80	8.9	66.0	18.3	46.5	25.9	52
410	9,17,32,37,63,74,75,79,80,81	9.5	66.0	14.3	53.7	25.9	53
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	17.6	30.0	27.2	35.8	26.4	54
385	5,35,38,49,50,53,55,59,66,67,70,75,84	17.8	4.0	25.7	52.9	26.6	55
246	4,17,24,25,31,33,45,47,48,52,65,67	26.5	30.0	18.2	42.5	26.7	56
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	9.4	16.0	17.7	76.7	26.8	57
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	17.8	15.0	28.5	43.1	26.9	58
232	3,9,17,32,36,38,49,50,69,75,80	5.5	55.0	18.0	63.7	27.1	59
414	9,17,32,36,38,49,50,69,75,71,79,80,81	6.1	55.0	14.0	70.9	27.1	60
247	4,17,24,25,31,33,47,48,52,67,70,76,84	26.7	15.0	19.5	49.7	27.3	61
306	4,9,11,14,20,29,43,44,55,67,70,76,83	28.8	0.0	17.8	58.2	27.4	62
18	2,7,13,28,43,44,55,67,70,76	31.5	0.0	15.2	60.3	27.6	63

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	20.8	30.0	26.7	38.7	27.6	64
354	4,9,14,20,29,43,44,55,67,70,76,78,81	28.3	0.0	18.0	60.3	27.7	65
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	14.4	0.0	17.9	82.0	27.9	66
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	17.5	69.0	23.0	33.0	27.9	67
233	3,9,17,32,36,38,49,64,71,72,74,75	10.5	39.0	18.2	69.0	28.1	68
409	9,17,32,36,38,49,64,71,72,74,75,79,81	11.1	39.0	14.2	76.2	28.1	69
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	20.9	15.0	28.0	46.0	28.2	70
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	28.8	0.0	18.9	60.0	28.2	71
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	17.6	54.0	24.3	40.2	28.4	72
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	28.3	0.0	19.0	62.1	28.5	73
149	3,11,16,23,25,31,33,45,47,48,52,65,67	16.9	69.0	28.5	25.8	28.5	74
276	4,7,8,9,13,28,43,44,55,67,70,76,81	29.3	0.0	17.1	65.1	28.6	75
15	2,10,20,29,43,44,55,67,70,76	34.7	0.0	16.7	57.8	28.7	76
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	22.1	19.0	17.5	66.1	28.7	77
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	17.0	54.0	29.3	33.0	28.8	78
80	2,8,14,20,29,43,44,55,67,70,76,78	31.4	0.0	18.4	60.6	28.9	79
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	18.8	58.0	13.7	60.3	29.0	80
113	2,8,9,17,32,37,49,63,72,73,80,81	13.5	27.0	20.5	70.4	29.0	81
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	22.3	4.0	18.2	73.3	29.1	82
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	31.9	0.0	18.3	61.1	29.1	83
500	14,20,29,43,44,55,67,70,76,78,79	28.1	39.0	14.7	54.9	29.2	84
230	3,9,17,32,36,38,49,50,53,65,67,75	18.2	58.0	18.2	53.1	29.2	85
236	3,9,17,32,37,49,63,72,73,80	9.6	66.0	20.8	57.4	29.3	86
412	9,17,32,37,49,63,72,73,79,80,81	10.2	66.0	16.7	64.7	29.3	87
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	19.0	43.0	14.5	67.6	29.3	88
497	11,14,20,29,43,44,55,67,70,76,79,81,83	28.6	39.0	14.5	55.3	29.4	89
12	2,10,20,22,28,43,44,55,67,70,76	34.7	0.0	17.8	59.5	29.4	90
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	18.4	43.0	19.0	60.4	29.5	91
307	4,9,11,14,20,29,43,44,59,66,67,70,83	32.2	0.0	21.6	56.1	29.5	92
77	2,8,14,20,22,28,43,44,55,67,70,76,78	31.4	0.0	19.5	62.4	29.7	93
19	2,7,13,28,43,44,59,66,67,70	34.9	0.0	19.1	58.2	29.7	94
355	4,9,14,20,29,43,44,59,66,67,70,78,81	31.6	0.0	21.8	58.2	29.9	95
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	31.9	0.0	19.3	62.9	29.9	96
136	3,11,14,20,29,43,44,55,67,70,76,83	28.0	39.0	20.0	48.1	29.9	97
506	14,20,22,28,43,44,55,67,70,76,78,79	28.1	39.0	15.7	56.6	29.9	98
111	2,8,9,17,32,36,38,63,72,73,80,81	13.8	27.0	23.1	69.7	30.0	99
525	7,8,13,28,43,44,55,67,70,76,79	29.1	39.0	13.8	59.6	30.1	100
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	25.4	4.0	23.5	63.5	30.1	101
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	28.6	39.0	15.6	57.1	30.1	102
181	3,14,20,29,43,44,55,67,70,76,78,81	27.5	39.0	20.2	50.2	30.3	103
234	3,9,17,32,36,38,63,72,73,80	9.9	66.0	23.4	56.8	30.3	104
411	9,17,32,36,38,63,72,73,79,80,81	10.5	66.0	19.4	64.0	30.3	105
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	32.2	0.0	22.7	57.9	30.3	106
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	20.6	30.0	31.9	42.2	30.4	107
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	20.6	30.0	31.9	42.2	30.4	107
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	22.1	43.0	19.8	57.7	30.4	109
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	29.3	0.0	20.6	67.4	30.5	110
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	25.3	31.0	28.2	42.8	30.5	111
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	21.5	43.0	24.3	50.5	30.6	112
323	4,9,11,16,23,25,34,47,48,52,65,67	20.7	30.0	37.3	32.5	30.6	113
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	31.6	0.0	22.8	60.0	30.6	114
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	20.1	30.0	32.1	44.3	30.7	115
133	3,11,14,20,22,28,43,44,55,67,70,76,83	28.0	39.0	21.1	49.9	30.7	116
277	4,7,8,9,13,28,43,44,59,66,67,70,81	32.6	0.0	20.9	63.0	30.7	117
16	2,10,20,29,43,44,59,66,67,70	38.1	0.0	20.5	55.7	30.8	118
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	20.8	15.0	33.2	49.5	30.9	119
244	4,17,24,25,31,33,45,47,48,52,53,69,80	34.2	31.0	19.2	49.5	30.9	120
203	3,7,8,13,28,43,44,55,67,70,76,81	28.5	39.0	18.8	55.0	31.0	121
250	4,17,24,25,34,47,48,52,65,67	29.5	30.0	28.3	39.2	31.0	122
81	2,8,14,20,29,43,44,59,66,67,70,78	34.8	0.0	22.2	58.5	31.0	123
178	3,14,20,22,28,43,44,55,67,70,76,78,81	27.5	39.0	21.2	52.0	31.0	124
519	8,10,20,29,43,44,55,67,70,76,79	32.4	39.0	15.2	57.1	31.1	125
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	20.8	15.0	38.6	39.8	31.1	126

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	35.3	0.0	22.1	59.0	31.2	127
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	20.3	15.0	33.3	51.6	31.2	128
501	14,20,29,43,44,59,66,67,70,78,79	31.5	39.0	18.5	52.8	31.3	129
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	25.4	0.0	27.6	63.2	31.3	130
498	11,14,20,29,43,44,59,66,67,70,79,81,83	32.0	39.0	18.4	53.3	31.5	131
251	4,17,24,25,34,47,48,52,67,70,76,84	29.7	15.0	29.6	46.4	31.5	132
13	2,10,20,22,28,43,44,59,66,67,70	38.1	0.0	21.6	57.4	31.6	133
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	24.9	0.0	27.8	65.3	31.6	134
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	23.7	30.0	31.3	45.1	31.7	135
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	23.2	30.0	32.0	44.6	31.7	136
17	2,7,13,28,42,43,57,58,66,67,70	28.1	0.0	25.5	65.3	31.7	137
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	30.5	30.0	21.9	54.2	31.8	138
78	2,8,14,20,22,28,43,44,59,66,67,70,78	34.8	0.0	23.3	60.3	31.8	139
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	28.4	31.0	27.6	45.8	31.8	140
522	8,10,20,22,28,43,44,55,67,70,76,79	32.4	39.0	16.3	58.9	31.9	141
53	2,8,11,16,23,25,34,47,48,52,65,67,81	23.8	30.0	36.7	35.4	31.9	142
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	21.2	15.0	37.5	45.2	31.9	143
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	20.4	69.0	27.6	39.3	31.9	144
450	23,25,31,33,45,47,48,52,65,67,77,78,82	19.9	69.0	28.3	38.9	32.0	145
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	35.3	0.0	23.1	60.8	32.0	146
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	27.2	69.0	18.1	48.5	32.0	147
219	3,8,10,20,29,43,44,55,67,70,76,81	31.7	39.0	20.3	52.5	32.0	148
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	18.5	15.0	40.2	44.6	32.1	149
137	3,11,14,20,29,43,44,59,66,67,70,83	31.4	39.0	23.9	46.0	32.1	150
507	14,20,22,28,43,44,59,66,67,70,78,79	31.5	39.0	19.6	54.5	32.1	151
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	25.1	70.0	23.9	40.0	32.1	152
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	18.2	30.0	37.0	44.4	32.1	153
430	11,16,23,25,34,47,48,52,65,67,79,81	20.5	69.0	33.0	29.7	32.2	154
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	19.0	15.0	40.3	44.3	32.2	155
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	23.9	15.0	32.6	52.4	32.2	156
526	7,8,13,28,43,44,59,66,67,70,79	32.5	39.0	17.6	57.6	32.2	157
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	23.4	15.0	33.3	51.9	32.2	158
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	32.0	39.0	19.4	55.0	32.3	159
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	30.7	15.0	23.2	61.5	32.3	160
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	25.4	0.0	29.2	65.0	32.3	161
182	3,14,20,29,43,44,59,66,67,70,78,81	30.9	39.0	24.0	48.2	32.4	162
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	23.9	15.0	38.0	42.7	32.4	163
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	20.6	54.0	28.9	46.6	32.5	164
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	20.1	54.0	29.6	46.1	32.5	165
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	30.0	15.0	29.0	51.9	32.5	166
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	27.4	54.0	19.4	55.7	32.5	167
14	2,10,20,29,42,43,57,58,66,67,70	31.4	0.0	26.5	62.8	32.6	168
224	3,9,17,24,25,31,33,45,47,48,52,65,67	26.6	69.0	23.6	41.3	32.6	169
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	24.9	0.0	29.3	67.1	32.6	170
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	32.6	0.0	24.5	65.3	32.6	171
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	18.4	15.0	38.3	51.6	32.7	172
151	3,11,16,23,25,31,33,45,47,52,53,69,80	24.5	70.0	29.4	32.8	32.7	173
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	19.2	0.0	41.6	51.6	32.7	174
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	19.8	69.0	33.6	32.1	32.7	175
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	25.9	0.0	27.4	70.1	32.7	176
154	3,11,16,23,25,34,47,48,52,65,67	19.9	69.0	38.5	22.5	32.8	177
216	3,8,10,20,22,28,43,44,55,67,70,76,81	31.7	39.0	21.3	54.3	32.8	178
79	2,8,14,20,29,42,43,57,58,66,67,70,78	28.0	0.0	28.2	65.6	32.8	179
134	3,11,14,20,22,28,43,44,59,66,67,70,83	31.4	39.0	24.9	47.8	32.8	180
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	26.8	54.0	24.4	48.5	32.9	181
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	28.5	0.0	28.1	66.1	33.0	182
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	18.7	0.0	41.7	53.7	33.0	183
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	20.0	54.0	34.4	39.4	33.0	184
9	2,10,15,19,30,33,45,47,48,52,65,67	25.0	15.0	38.2	43.9	33.1	185
155	3,11,16,23,25,34,47,48,52,67,70,76,84	20.0	54.0	39.3	29.7	33.1	186
431	11,16,23,25,34,47,48,52,67,70,76,84	20.0	54.0	39.3	29.7	33.1	186
204	3,7,8,13,28,43,44,59,66,67,70,81	31.9	39.0	22.6	52.9	33.1	188
502	14,20,29,42,43,57,58,66,67,70,78,79	24.7	39.0	24.5	59.9	33.1	189

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
179	3,14,20,22,28,43,44,59,66,67,70,78,81	30.9	39.0	25.1	49.9	33.2	190
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	26.0	15.0	32.7	54.1	33.2	191
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	19.3	69.0	34.3	34.2	33.2	192
520	8,10,20,29,43,44,59,66,67,70,79	35.7	39.0	19.1	55.1	33.3	193
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	25.3	39.0	24.3	60.4	33.3	194
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	24.3	15.0	37.5	48.1	33.4	195
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	22.1	15.0	39.7	47.2	33.5	196
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	21.6	15.0	40.4	46.8	33.5	197
11	2,10,20,22,28,42,43,57,58,66,67,70	31.4	0.0	28.1	64.5	33.6	198
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	19.5	54.0	35.1	41.5	33.6	199
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	25.2	0.0	39.5	51.2	33.6	200
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	21.0	54.0	33.8	42.4	33.7	201
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	18.9	54.0	36.0	41.5	33.8	202
470	14,15,19,30,33,45,47,48,52,65,67,78,79	18.3	54.0	36.6	41.0	33.8	203
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	28.0	0.0	29.8	67.4	33.8	204
135	3,11,14,20,29,42,43,57,58,66,67,70,83	24.6	39.0	29.8	53.1	33.9	205
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	28.6	0.0	29.6	67.9	34.0	206
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	26.1	0.0	34.0	62.7	34.0	207
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	22.3	0.0	41.0	54.5	34.0	208
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	21.8	0.0	41.7	54.0	34.0	209
523	8,10,20,22,28,43,44,59,66,67,70,79	35.7	39.0	20.1	56.8	34.0	210
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	20.4	54.0	38.8	35.2	34.1	211
508	14,20,22,28,42,43,57,58,66,67,70,78,79	24.7	39.0	26.0	61.6	34.1	212
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	25.7	4.0	27.2	75.5	34.1	213
220	3,8,10,20,29,43,44,59,66,67,70,81	35.1	39.0	24.1	50.4	34.2	214
527	7,8,13,28,42,43,57,58,66,67,70,79	25.7	39.0	24.1	64.7	34.2	215
180	3,14,20,29,42,43,57,58,66,67,70,78,81	24.1	39.0	30.0	55.3	34.2	216
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	25.3	39.0	25.9	62.1	34.3	217
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	19.0	39.0	37.3	48.8	34.3	218
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	18.5	39.0	37.9	48.3	34.3	219
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	22.4	43.0	23.5	69.7	34.4	220
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	25.9	0.0	30.4	72.4	34.4	221
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	22.8	15.0	41.1	48.7	34.5	222
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	18.2	54.0	42.0	34.3	34.5	223
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	21.8	43.0	28.0	62.5	34.5	224
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	28.3	31.0	32.8	49.2	34.6	225
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	23.6	30.0	41.9	38.9	34.6	226
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	22.0	30.0	38.3	48.8	34.7	227
321	4,9,11,16,23,25,34,47,48,52,53,69,80	28.3	31.0	38.2	39.5	34.8	228
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	24.6	39.0	31.4	54.9	34.8	229
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	18.4	39.0	42.8	41.6	34.9	230
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	27.8	31.0	33.0	51.3	34.9	231
217	3,8,10,20,22,28,43,44,59,66,67,70,81	35.1	39.0	25.1	52.2	34.9	232
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	23.1	30.0	42.1	41.0	35.0	233
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	23.0	0.0	42.4	56.0	35.0	234
521	8,10,20,29,42,43,57,58,66,67,70,79	29.0	39.0	25.1	62.2	35.1	235
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	17.7	54.0	42.7	36.4	35.1	236
202	3,7,8,13,28,42,43,57,58,66,67,70,81	25.1	39.0	29.1	60.0	35.1	237
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	24.1	39.0	31.5	57.0	35.2	238
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	23.8	15.0	43.2	46.2	35.2	239
248	4,17,24,25,34,47,48,52,53,69,80	37.2	31.0	29.2	46.2	35.2	240
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	22.2	15.0	39.6	56.0	35.2	241
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	17.9	39.0	43.4	43.7	35.4	242
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	23.3	15.0	43.4	48.3	35.5	243
510	8,10,15,19,30,33,45,47,48,52,65,67,79	22.6	54.0	36.8	43.3	35.6	244
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	31.4	31.0	32.3	52.1	35.9	245
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	30.9	31.0	32.9	51.7	35.9	246
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	38.2	31.0	22.8	61.3	35.9	247
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	26.7	30.0	41.4	41.8	35.9	248
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	24.2	15.0	42.2	51.6	35.9	249
218	3,8,10,20,29,42,43,57,58,66,67,70,81	28.4	39.0	30.1	57.5	36.0	250
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	33.5	30.0	32.0	50.9	36.0	251
524	8,10,20,22,28,42,43,57,58,66,67,70,79	29.0	39.0	26.6	63.9	36.0	252

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	33.7	15.0	32.2	57.9	36.1	253
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	22.8	39.0	38.1	50.6	36.1	254
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	31.5	31.0	37.7	42.5	36.1	255
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	28.1	70.0	28.5	46.4	36.1	256
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	27.6	70.0	29.2	45.9	36.1	257
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	24.2	15.0	47.6	41.9	36.2	258
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	34.9	70.0	19.1	55.5	36.2	259
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	23.4	69.0	37.7	36.0	36.2	260
438	23,25,34,47,48,52,65,67,78,79,82	22.9	69.0	38.3	35.6	36.2	261
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	23.6	15.0	42.3	53.7	36.3	262
425	9,17,24,25,34,47,48,52,65,67,71,79,81	30.2	69.0	28.2	45.2	36.3	263
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	25.9	31.0	37.9	51.4	36.3	264
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	30.4	54.0	28.5	52.1	36.3	265
429	11,16,23,25,34,47,48,52,53,69,79,80,81	28.2	70.0	33.9	36.7	36.4	266
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	26.7	16.0	41.2	51.4	36.4	267
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	21.3	30.0	47.0	41.1	36.4	268
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	26.9	15.0	42.7	49.1	36.5	269
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	26.4	15.0	43.3	48.6	36.5	270
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	18.4	15.0	53.8	39.8	36.5	271
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	22.0	54.0	42.3	38.7	36.7	272
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	26.2	16.0	41.3	53.5	36.7	273
228	3,9,17,24,25,34,47,48,52,67,70,76,84	29.8	54.0	33.5	44.9	36.7	274
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	23.6	54.0	39.0	43.3	36.7	275
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	20.7	30.0	47.2	43.2	36.7	276
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	23.1	54.0	39.6	42.8	36.7	277
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	33.1	15.0	39.1	48.6	36.8	278
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	34.3	70.0	24.6	48.3	36.8	279
227	3,9,17,24,25,34,47,48,52,65,67	29.6	69.0	33.7	38.0	36.9	280
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	27.5	70.0	34.6	39.2	36.9	281
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	28.4	39.0	31.6	59.3	36.9	282
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	21.4	15.0	48.3	48.3	36.9	283
152	3,11,16,23,25,34,47,48,52,53,69,80	27.6	70.0	39.4	29.5	36.9	284
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	22.2	39.0	43.1	45.9	37.0	285
172	3,11,23,25,34,47,48,52,65,67,77,82,83	22.8	69.0	43.7	28.8	37.0	286
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	20.9	15.0	48.5	49.2	37.0	287
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	18.6	0.0	55.1	47.1	37.1	288
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	26.8	15.0	42.3	54.0	37.2	289
7	2,10,15,19,30,33,45,47,48,52,53,69,80	32.7	16.0	39.2	51.0	37.3	290
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	23.0	54.0	44.5	36.1	37.3	291
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	34.0	15.0	32.2	63.6	37.3	292
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	27.0	70.0	35.2	41.3	37.4	293
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	27.3	15.0	42.1	54.5	37.4	294
199	3,23,25,34,47,48,52,65,67,78,81,82	22.3	69.0	44.3	30.9	37.5	295
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	23.5	54.0	38.6	48.3	37.5	296
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	30.7	54.0	28.4	57.9	37.6	297
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	33.6	16.0	33.7	62.4	37.6	298
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	29.8	16.0	40.6	54.3	37.7	299
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	29.3	16.0	41.3	53.8	37.7	300
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	27.3	15.0	47.5	44.8	37.7	301
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	21.8	15.0	47.3	53.8	37.7	302
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	24.0	54.0	38.4	48.7	37.7	303
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	22.6	0.0	50.6	53.7	37.7	304
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	21.6	15.0	53.3	42.7	37.8	305
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	22.5	54.0	45.1	38.2	37.8	306
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	26.5	55.0	36.9	48.5	37.9	307
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	26.0	55.0	37.6	48.1	37.9	308
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	24.0	54.0	43.8	39.1	37.9	309
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	30.1	54.0	33.4	50.7	37.9	310
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	22.1	0.0	50.7	55.8	38.1	311
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	18.3	54.0	49.6	37.0	38.1	312
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	23.4	54.0	43.9	41.5	38.3	313
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	23.4	54.0	48.8	31.9	38.3	314
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	21.7	0.0	54.6	50.0	38.3	315

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
5	2,10,15,19,21,29,43,44,55,67,70,76	35.3	0.0	39.4	61.1	38.6	316
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	22.8	54.0	44.1	43.6	38.6	317
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	18.4	39.0	50.8	44.2	38.6	318
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	21.4	15.0	55.0	43.7	38.7	319
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	17.6	54.0	55.1	29.8	38.7	320
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	30.5	16.0	42.0	55.8	38.7	321
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	25.9	55.0	42.9	41.3	38.7	322
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	29.5	0.0	42.5	64.8	38.8	323
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	31.3	31.0	42.9	45.9	38.8	324
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	28.6	0.0	49.0	53.3	38.8	325
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	29.7	31.0	39.2	55.8	38.9	326
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	25.0	30.0	48.3	45.5	38.9	327
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	32.5	0.0	40.9	64.4	39.0	328
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	20.9	15.0	55.1	45.9	39.0	329
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	17.8	39.0	55.9	37.0	39.0	330
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	25.2	0.0	50.7	56.2	39.1	331
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	30.8	31.0	43.0	48.0	39.2	332
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	21.6	0.0	56.3	51.0	39.2	333
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	25.4	55.0	43.6	43.4	39.2	334
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	25.7	0.0	50.5	56.6	39.2	335
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	29.2	39.0	37.2	58.6	39.2	336
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	21.9	39.0	46.9	50.4	39.3	337
2	2,10,15,19,21,22,28,43,44,55,67,70,76	35.3	0.0	40.5	62.8	39.4	338
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	25.2	15.0	49.6	52.7	39.5	339
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	22.4	39.0	46.8	50.9	39.5	340
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	21.1	0.0	56.4	53.1	39.5	341
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	30.3	55.0	37.7	50.3	39.7	342
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	32.5	0.0	42.0	66.2	39.8	343
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	28.5	39.0	42.7	51.4	39.8	344
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	24.5	15.0	54.4	46.7	40.0	345
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	24.0	15.0	55.1	46.2	40.0	346
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	29.2	39.0	38.2	60.4	40.0	347
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	26.3	0.0	51.4	58.1	40.1	348
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	21.8	39.0	52.3	43.7	40.1	349
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	34.4	31.0	42.3	48.8	40.1	350
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	33.9	31.0	43.0	48.4	40.1	351
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	41.2	31.0	32.8	58.0	40.2	352
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	27.2	15.0	52.2	48.3	40.2	353
458	11,18,19,30,33,45,47,48,52,65,67,77,83	21.2	54.0	50.7	40.9	40.2	354
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	25.6	15.0	48.6	58.1	40.2	355
462	18,19,30,33,45,47,48,52,65,67,77,78,79	20.7	54.0	51.4	40.4	40.2	356
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	31.1	70.0	38.6	43.1	40.4	357
437	23,25,34,47,48,52,53,69,77,78,79,80,82	30.6	70.0	39.2	42.6	40.4	358
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	21.3	39.0	52.4	45.8	40.4	359
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	37.9	70.0	29.1	52.2	40.5	360
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	24.7	0.0	55.7	53.9	40.5	361
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	24.2	0.0	56.4	53.5	40.5	362
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	26.7	15.0	52.4	50.4	40.5	363
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	28.9	31.0	48.0	48.1	40.6	364
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	28.5	39.0	43.8	53.2	40.6	365
6	2,10,15,19,21,29,43,44,59,66,67,70	38.7	0.0	43.3	59.0	40.7	366
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	26.1	16.0	54.8	46.8	40.7	367
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	21.4	39.0	52.0	48.2	40.8	368
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	20.9	39.0	52.7	47.7	40.8	369
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	29.7	55.0	43.2	45.7	40.8	370
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	28.4	31.0	48.1	50.2	40.9	371
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	20.6	54.0	56.7	33.7	41.0	372
226	3,9,17,24,25,34,47,48,52,53,69,80	37.3	70.0	34.6	45.0	41.0	373
513	8,10,15,19,21,29,43,44,55,67,70,76,79	32.9	39.0	38.0	60.4	41.1	374
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	35.8	0.0	44.7	62.3	41.1	375
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	30.5	70.0	44.6	35.9	41.2	376
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	26.2	39.0	47.6	52.7	41.3	377
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	20.8	39.0	57.5	41.0	41.3	378

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	32.5	39.0	41.0	56.5	41.4	379
3	2,10,15,19,21,22,28,43,44,59,66,67,70	38.7	0.0	44.3	60.7	41.5	380
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	29.8	15.0	52.3	50.7	41.5	381
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	20.1	54.0	57.4	35.8	41.5	382
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	37.1	15.0	42.2	60.3	41.6	383
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	28.7	0.0	54.0	56.9	41.6	384
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	30.0	70.0	45.3	38.0	41.7	385
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	30.3	15.0	52.2	51.2	41.7	386
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	26.5	54.0	48.6	45.0	41.8	387
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	33.8	54.0	38.5	54.6	41.8	388
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	32.9	39.0	39.0	62.2	41.8	389
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	20.3	39.0	58.2	43.1	41.9	390
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	35.8	0.0	45.8	64.1	41.9	391
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	32.3	39.0	43.0	55.8	42.0	392
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	31.9	39.0	46.5	49.3	42.0	393
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	24.8	15.0	57.3	50.5	42.0	394
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	27.0	54.0	48.5	45.4	42.0	395
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	29.2	16.0	54.2	49.8	42.0	396
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	22.0	0.0	64.1	49.2	42.1	397
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	32.5	39.0	42.1	58.3	42.2	398
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	33.2	54.0	43.5	47.4	42.2	399
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	25.6	39.0	52.6	48.1	42.2	400
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	25.9	55.0	50.5	44.0	42.3	401
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	24.3	15.0	57.5	52.6	42.3	402
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	28.7	0.0	55.1	58.7	42.4	403
4	2,10,15,19,21,29,42,43,57,58,66,67,70	32.0	0.0	49.2	66.1	42.5	404
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	26.4	54.0	54.0	38.2	42.6	405
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	32.3	39.0	44.1	57.6	42.7	406
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	31.9	39.0	47.6	51.1	42.7	407
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	29.1	16.0	55.9	50.8	42.8	408
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	25.3	55.0	56.0	36.8	42.9	409
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	25.9	54.0	54.1	40.3	42.9	410
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	29.1	0.0	50.7	69.4	42.9	411
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	32.7	31.0	49.3	52.5	43.1	412
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	25.8	39.0	47.0	63.6	43.2	413
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	28.6	16.0	56.1	52.9	43.2	414
514	8,10,15,19,21,29,43,44,59,66,67,70,79	36.3	39.0	41.8	58.4	43.2	415
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	31.9	0.0	54.5	59.9	43.3	416
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	32.0	0.0	50.8	67.8	43.5	417
401	6,12,39,57,58,66,67,70	61.1	0.0	33.6	58.6	43.5	418
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	25.1	0.0	64.1	52.1	43.6	419
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	28.6	39.0	50.8	54.1	43.6	420
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	25.2	39.0	52.5	56.4	43.7	421
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	32.1	0.0	57.9	54.9	43.8	422
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	31.7	0.0	55.2	60.9	43.8	423
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	21.8	39.0	60.4	46.4	43.9	424
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	29.1	0.0	52.3	71.2	43.9	425
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	36.3	39.0	42.9	60.1	44.0	426
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	28.0	39.0	55.8	46.9	44.0	427
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	35.7	39.0	46.8	53.7	44.1	428
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	31.2	0.0	55.3	63.0	44.1	429
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	31.9	0.0	55.5	61.6	44.1	430
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	32.2	16.0	55.4	53.7	44.1	431
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	25.8	39.0	48.5	65.4	44.1	432
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	31.7	16.0	56.0	53.2	44.2	433
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	25.0	0.0	65.3	53.1	44.2	434
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	21.2	39.0	65.4	39.2	44.2	435
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	28.6	39.0	51.8	55.9	44.4	436
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	28.9	55.0	51.6	47.9	44.4	437
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	28.4	55.0	52.3	47.5	44.4	438
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	28.6	15.0	58.6	54.8	44.5	439
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	32.1	0.0	58.9	56.6	44.5	440
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	31.7	0.0	56.2	62.7	44.5	441

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	24.4	0.0	65.4	55.2	44.6	442
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	25.2	39.0	54.1	58.2	44.7	443
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	28.0	39.0	56.8	48.7	44.7	444
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	35.7	39.0	47.9	55.5	44.9	445
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	31.2	0.0	56.4	64.8	44.9	446
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	29.6	39.0	47.8	65.5	45.0	447
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	28.3	55.0	57.6	40.7	45.2	448
399	6,12,39,42,44,55,67,70,76	71.3	0.0	27.0	65.3	45.3	449
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	34.3	0.0	55.8	63.3	45.3	450
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	35.2	0.0	58.3	57.8	45.4	451
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	34.8	0.0	55.6	63.8	45.5	452
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	27.5	0.0	65.4	55.6	45.5	453
482	18,19,21,29,43,44,55,67,70,76,77,78,79	31.0	39.0	52.1	57.6	45.5	454
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	25.4	0.0	63.8	62.0	45.5	455
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	27.8	55.0	58.3	42.8	45.7	456
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	28.1	0.0	65.2	56.0	45.7	457
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	31.9	39.0	54.6	52.0	45.7	458
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	31.5	39.0	51.9	58.0	45.7	459
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	24.3	39.0	61.7	49.8	45.8	460
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	29.0	39.0	52.8	60.8	45.9	461
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	35.1	0.0	59.0	58.8	45.9	462
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	29.6	39.0	49.4	67.2	46.0	463
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	24.8	39.0	61.5	50.3	46.0	464
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	34.3	0.0	56.8	65.1	46.0	465
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	31.3	39.0	59.6	44.8	46.1	466
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	34.6	0.0	59.2	60.9	46.2	467
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	35.2	0.0	59.4	59.5	46.2	468
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	34.8	0.0	56.7	65.6	46.2	469
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	30.9	39.0	57.4	50.8	46.3	470
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	31.0	39.0	53.1	59.3	46.3	471
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	31.9	39.0	55.6	53.8	46.5	472
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	25.4	0.0	65.4	63.7	46.5	473
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	24.2	39.0	67.0	43.1	46.6	474
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	30.4	39.0	57.6	52.9	46.6	475
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	35.1	0.0	60.1	60.6	46.7	476
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	29.0	39.0	54.4	62.6	46.9	477
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	31.3	39.0	60.7	46.6	46.9	478
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	23.6	39.0	67.2	45.2	46.9	479
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	34.6	0.0	60.2	62.7	47.0	480
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	30.9	39.0	58.5	52.6	47.1	481
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	30.9	39.0	58.5	52.6	47.1	481
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	28.5	0.0	64.3	64.9	47.2	483
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	37.7	0.0	59.6	61.2	47.4	484
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	30.4	39.0	58.6	54.7	47.4	485
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	25.2	39.0	60.6	59.1	47.5	486
400	6,12,39,42,44,59,66,67,70	74.7	0.0	31.3	63.3	47.6	487
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	38.2	0.0	59.5	61.7	47.6	488
483	18,19,21,29,43,44,59,66,67,70,77,78,79	34.4	39.0	55.9	55.5	47.7	489
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	28.4	0.0	65.0	65.9	47.7	490
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	34.9	39.0	55.7	56.0	47.9	491
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	24.6	39.0	65.6	51.9	47.9	492
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	27.8	0.0	65.1	68.0	48.0	493
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	37.7	0.0	60.7	63.0	48.2	494
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	28.5	0.0	65.8	66.6	48.2	495
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	38.2	0.0	60.5	63.5	48.4	496
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	34.3	39.0	61.2	48.7	48.4	497
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	34.4	39.0	56.9	57.2	48.4	498
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	25.2	39.0	62.1	60.9	48.5	499
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	34.9	39.0	56.8	57.7	48.6	500
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	28.4	0.0	66.5	67.7	48.7	501
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	33.8	39.0	61.4	50.9	48.8	502
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	24.6	39.0	67.1	53.7	48.9	503
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	27.8	0.0	66.7	69.8	49.0	504

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	31.0	0.0	65.6	68.3	49.2	505
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	34.3	39.0	62.3	50.5	49.2	506
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	31.5	0.0	65.4	68.8	49.4	507
404	6,26,40,41,57,58,66,67,70	66.6	0.0	41.8	63.7	49.4	508
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	27.7	39.0	61.9	62.6	49.5	509
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	33.8	39.0	62.5	52.6	49.5	510
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	28.2	39.0	61.7	63.1	49.6	511
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	31.0	0.0	67.1	70.1	50.2	512
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	27.6	39.0	67.2	55.8	50.2	513
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	31.5	0.0	67.0	70.6	50.4	514
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	27.7	39.0	63.4	64.3	50.4	515
397	6,12,27,40,41,57,58,66,67,70	72.8	0.0	41.0	61.3	50.5	516
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	27.1	39.0	67.4	58.0	50.6	517
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	28.2	39.0	63.3	64.8	50.6	518
402	6,26,40,41,42,44,55,67,70,76	76.8	0.0	35.2	70.4	51.2	519
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	27.6	39.0	68.8	57.6	51.2	520
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	27.1	39.0	68.9	59.7	51.5	521
395	6,12,27,40,41,42,44,55,67,70,76	83.0	0.0	34.4	68.0	52.2	522
403	6,26,40,41,42,59,66,67,70	80.2	0.0	39.5	68.4	53.5	523
396	6,12,27,40,41,42,44,59,66,67,70	86.4	0.0	38.7	65.9	54.6	524
405	6,26,40,56,58,66,67,70	78.3	0.0	49.2	65.0	56.1	525
398	6,12,27,40,56,58,66,67,70	84.4	0.0	48.4	62.6	57.2	526
	MIN						
	MAX						
	RANGE						

Appendix E. Corridor Scoring Results

Appendix E: North Corridor Route Scoring

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
382	5,35,36,37,50,69,75,80	1.18	5	0.12	0	2	0	0	0	0	0	6	80	0	0
252	4,17,32,37,50,69,75,80	1.49	7	0.63	15	2	0	0	0	0	0	6	80	0	0
392	5,35,38,64,71,73	2.76	17	0.57	14	2	0	0	0	0	0	2	0	0	0
388	5,35,38,49,50,69,75,80	1.18	5	0.16	1	2	0	0	0	0	0	6	80	0	0
384	5,35,36,37,64,71,72,74,75	2.76	17	0.42	9	2	0	0	0	0	0	2	0	0	0
267	4,17,32,37,64,71,72,74,75	3.07	20	0.92	24	2	0	0	0	0	0	2	0	0	0
378	5,35,36,37,49,64,71,73	2.76	17	0.53	12	2	0	0	0	0	0	2	0	0	0
261	4,17,32,37,49,64,71,73	3.07	20	1.03	28	2	0	0	0	0	0	2	0	0	0
383	5,35,36,37,63,74,75,80	0.69	1	0.82	21	2	0	0	0	1	50	5	60	0	0
266	4,17,32,37,63,74,75,80	1.00	4	1.33	37	2	0	0	0	1	50	5	60	0	0
394	5,60,62,64	6.65	47	0.29	5	2	0	0	0	0	0	2	0	0	0
390	5,35,38,49,64,71,72,74,75	2.76	17	0.46	10	2	0	0	0	0	0	2	0	0	0
393	5,60,61,64	6.65	47	0.28	5	2	0	0	0	0	0	2	0	0	0
259	4,17,32,36,38,64,71,73	3.07	20	1.08	29	2	0	0	0	0	0	2	0	0	0
256	4,17,32,36,38,49,50,69,75,80	1.49	7	0.67	17	2	0	0	0	0	0	6	80	0	0
389	5,35,38,49,63,74,75,80	0.69	1	0.86	22	2	0	0	0	1	50	5	60	0	0
391	5,35,38,63,72,73,80	0.69	1	0.97	26	2	0	0	0	1	50	5	60	0	0
380	5,35,36,37,50,53,65,67,75	7.72	55	0.14	1	2	0	0	0	1	50	3	20	0	0
263	4,17,32,37,50,53,65,67,75	8.03	58	0.65	16	2	0	0	0	1	50	3	20	0	0
241	3,9,17,32,37,50,69,75,80	1.49	7	0.64	16	2	0	1	100	0	0	7	100	0	0
381	5,35,36,37,50,53,67,70,75,76,84	7.83	56	0.14	1	2	0	0	0	0	0	3	20	0	0
413	9,17,32,37,50,69,75,79,80,81	1.81	10	0.64	16	2	0	1	100	0	0	7	100	0	0
264	4,17,32,37,50,53,67,70,75,76,84	8.14	58	0.65	16	2	0	0	0	0	0	3	20	0	0
386	5,35,38,49,50,53,65,67,75	7.72	55	0.18	2	2	0	0	0	1	50	3	20	0	0
258	4,17,32,36,38,49,64,71,72,74,75	3.07	20	0.96	25	2	0	0	0	0	0	2	0	0	0
377	5,35,36,37,49,63,72,73,80	0.69	1	0.93	25	2	0	0	0	1	50	5	60	0	0
260	4,17,32,37,49,63,72,73,80	1.00	4	1.44	40	2	0	0	0	1	50	5	60	0	0
118	2,8,9,17,32,37,50,69,75,80,81	2.98	19	0.80	21	2	0	0	0	0	0	6	80	0	0
387	5,35,38,49,50,53,67,70,75,76,84	7.83	56	0.18	2	2	0	0	0	0	0	3	20	0	0
257	4,17,32,36,38,49,63,34,74,75,80	1.00	4	1.37	38	2	0	0	0	1	50	5	60	0	0
243	3,9,17,32,37,64,71,72,74,75	3.07	20	0.94	25	2	0	1	100	0	0	3	20	0	0
253	4,17,32,36,38,36,34,72,73,80	1.00	4	1.48	41	2	0	0	0	1	50	5	60	0	0
237	3,9,17,32,37,49,64,71,73	3.07	20	1.05	28	2	0	1	100	0	0	3	20	0	0
408	9,17,32,37,64,71,72,74,75,79,81	3.40	22	0.93	25	2	0	1	100	0	0	3	20	0	0
242	3,9,17,32,37,63,74,75,80	1.00	4	1.34	37	2	0	1	100	1	50	6	80	0	0
407	9,17,32,37,49,64,71,73,79,81	3.40	22	1.05	28	2	0	1	100	0	0	3	20	0	0
235	3,9,17,32,36,38,64,71,73	3.07	20	1.09	29	2	0	1	100	0	0	3	20	0	0
410	9,17,32,37,63,74,75,79,80,81	1.33	6	1.34	37	2	0	1	100	1	50	6	80	0	0
254	4,17,32,36,38,49,50,53,65,67,75	8.03	58	0.69	17	2	0	0	0	1	50	3	20	0	0
120	2,8,9,17,32,37,64,71,72,74,75,81	4.56	31	1.10	30	2	0	0	0	0	0	2	0	0	0
232	3,9,17,32,36,38,49,50,69,75,80	1.49	7	0.68	17	2	0	1	100	0	0	7	100	0	0
406	9,17,32,36,38,64,71,73,79,81	3.40	22	1.09	29	2	0	1	100	0	0	3	20	0	0
114	2,8,9,17,32,37,49,64,71,73,81	4.56	31	1.21	33	2	0	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
414	9,17,32,36,38,49,50,69,75,71,79,80,81	1.81	10	0.68	17	2	0	1	100	0	0	7	100	0	0
255	4,17,32,36,38,49,50,53,67,70,75,76,84	8.14	58	0.69	17	2	0	0	0	0	0	3	20	0	0
119	2,8,9,17,32,37,63,74,75,80,81	2.50	15	1.50	42	2	0	0	0	1	50	5	60	0	0
240	3,9,17,32,37,50,53,65,67,75	8.03	58	0.66	16	2	0	1	100	1	50	4	40	0	0
112	2,8,9,17,32,36,38,64,71,73,81	4.56	31	1.25	34	2	0	0	0	0	0	2	0	0	0
415	9,17,32,37,50,53,65,67,71,75,79,81	8.36	60	0.66	16	2	0	1	100	1	50	4	40	0	0
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	2.98	19	0.84	22	2	0	0	0	0	0	6	80	0	0
238	3,9,17,32,37,50,35,67,70,75,76,84	8.14	58	0.66	16	2	0	1	100	0	0	4	40	0	0
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	5.98	42	0.46	10	3	50	0	0	2	100	2	0	0	0
233	3,9,17,32,36,38,49,64,71,72,74,75	3.07	20	0.98	26	2	0	1	100	0	0	3	20	0	0
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	8.46	61	0.66	16	2	0	1	100	0	0	4	40	0	0
379	5,35,36,37,50,53,55,59,66,67,70,75,84	7.83	56	0.66	16	2	0	0	0	0	0	3	20	0	0
117	2,8,9,17,32,37,50,53,65,67,71,75,81	9.53	69	0.82	21	2	0	0	0	1	50	3	20	0	0
236	3,9,17,32,37,49,63,72,73,80	1.00	4	1.45	40	2	0	1	100	1	50	6	80	0	0
262	4,17,32,37,50,53,55,59,66,67,70,75,84	8.14	58	1.16	32	2	0	0	0	0	0	3	20	0	0
409	9,17,32,36,38,49,64,71,72,74,75,79,81	3.40	22	0.97	26	2	0	1	100	0	0	3	20	0	0
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	6.07	43	0.46	10	3	50	0	0	1	50	2	0	0	0
412	9,17,32,37,49,63,72,73,79,80,81	1.33	6	1.45	40	2	0	1	100	1	50	6	80	0	0
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	9.63	70	0.82	21	2	0	0	0	0	0	3	20	0	0
234	3,9,17,32,36,38,63,72,73,80	1.00	4	1.49	42	2	0	1	100	1	50	6	80	0	0
385	5,35,38,49,50,53,55,59,66,67,70,75,84	7.83	56	0.70	18	2	0	0	0	0	0	3	20	0	0
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	4.56	31	1.14	31	2	0	0	0	0	0	2	0	0	0
411	9,17,32,36,38,63,72,73,79,80,81	1.33	6	1.49	42	2	0	1	100	1	50	6	80	0	0
113	2,8,9,17,32,37,49,63,72,73,80,81	2.50	15	1.61	45	2	0	0	0	1	50	5	60	0	0
246	4,17,24,25,31,33,45,47,48,52,65,67	7.50	54	0.60	14	4	100	0	0	2	100	2	0	0	0
230	3,9,17,32,36,38,49,50,53,65,67,75	8.03	58	0.70	18	2	0	1	100	1	50	4	40	0	0
111	2,8,9,17,32,36,38,63,72,73,80,81	2.50	15	1.65	46	2	0	0	0	1	50	5	60	0	0
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	8.36	60	0.70	18	2	0	1	100	1	50	4	40	0	0
306	4,9,11,14,20,29,43,44,55,67,70,76,83	2.37	14	2.45	71	4	100	0	0	0	0	2	0	0	0
354	4,9,14,20,29,43,44,55,67,70,76,78,81	2.37	14	2.37	68	4	100	0	0	0	0	2	0	0	0
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	8.14	58	0.70	18	2	0	1	100	0	0	4	40	0	0
247	4,17,24,25,31,33,47,48,52,67,70,76,84	7.59	54	0.60	14	4	100	0	0	1	50	2	0	0	0
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	2.37	14	2.45	71	4	100	0	0	0	0	2	0	0	0
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	8.46	61	0.70	18	2	0	1	100	0	0	4	40	0	0
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	9.53	69	0.86	22	2	0	0	0	1	50	3	20	0	0
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	5.98	42	0.91	24	3	50	0	0	2	100	2	0	0	0
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	5.98	42	0.91	24	3	50	0	0	2	100	2	0	0	0
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	2.37	14	2.37	68	4	100	0	0	0	0	2	0	0	0
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	5.98	42	0.83	21	3	50	0	0	2	100	2	0	0	0
323	4,9,11,16,23,25,34,47,48,52,65,67	7.44	53	0.49	11	3	50	0	0	2	100	2	0	0	0
276	4,7,8,9,13,28,43,44,55,67,70,76,81	3.05	19	2.33	67	4	100	0	0	0	0	2	0	0	0
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	9.63	70	0.86	22	2	0	0	0	0	0	3	20	0	0
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	6.07	43	0.91	24	3	50	0	0	1	50	2	0	0	0
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	8.14	58	1.18	32	2	0	1	100	0	0	4	40	0	0
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	6.07	43	0.83	21	3	50	0	0	1	50	2	0	0	0
307	4,9,11,14,20,29,43,44,59,66,67,70,83	2.37	14	2.97	86	4	100	0	0	0	0	2	0	0	0
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	8.46	61	1.18	32	2	0	1	100	0	0	4	40	0	0
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	7.53	54	0.49	11	3	50	0	0	1	50	2	0	0	0
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	9.08	66	0.72	18	3	50	0	0	1	50	6	80	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	5.98	42	0.55	13	3	50	0	0	2	100	2	0	0	0
355	4,9,14,20,29,43,44,59,66,67,70,78,81	2.37	14	2.89	84	4	100	0	0	0	0	2	0	0	0
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	5.98	42	0.59	14	3	50	0	0	1	50	2	0	0	0
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	0.51	0	2.48	72	4	100	0	0	0	0	2	0	0	0
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	2.37	14	2.97	86	4	100	0	0	0	0	2	0	0	0
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	42	0.67	17	3	50	0	0	1	50	2	0	0	0
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	6.07	43	0.97	26	3	50	0	0	1	50	2	0	0	0
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3.05	19	2.33	67	4	100	0	0	0	0	2	0	0	0
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	0.51	0	2.40	69	4	100	0	0	0	0	2	0	0	0
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	2.37	14	2.89	84	4	100	0	0	0	0	2	0	0	0
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	9.63	70	1.34	37	2	0	0	0	0	0	3	20	0	0
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	6.07	43	0.55	13	3	50	0	0	1	50	2	0	0	0
277	4,7,8,9,13,28,43,44,59,66,67,70,81	3.05	19	2.84	83	4	100	0	0	0	0	2	0	0	0
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	0.51	0	2.48	72	4	100	0	0	0	0	2	0	0	0
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	43	0.67	17	3	50	0	0	0	0	2	0	0	0
250	4,17,24,25,34,47,48,52,65,67	8.96	65	0.63	15	4	100	0	0	2	100	2	0	0	0
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	0.51	0	2.40	69	4	100	0	0	0	0	2	0	0	0
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	6.07	43	0.59	14	3	50	0	0	0	0	2	0	0	0
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	7.83	56	0.61	15	4	100	1	100	2	100	3	20	0	0
224	3,9,17,24,25,31,33,45,47,48,52,65,67	7.50	54	0.61	15	4	100	1	100	2	100	3	20	0	0
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	1.19	5	2.36	68	4	100	0	0	0	0	2	0	0	0
251	4,17,24,25,34,47,48,52,67,70,76,84	9.05	65	0.63	15	4	100	0	0	1	50	2	0	0	0
244	4,17,24,25,31,33,45,47,48,52,53,69,80	10.61	77	0.86	22	4	100	0	0	1	50	6	80	0	0
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	7.59	54	0.61	15	4	100	1	100	1	50	3	20	0	0
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	7.92	57	0.61	15	4	100	1	100	1	50	3	20	0	0
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	9.00	65	0.77	20	4	100	0	0	2	100	2	0	0	0
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	7.44	53	0.94	25	3	50	0	0	2	100	2	0	0	0
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3.05	19	2.84	83	4	100	0	0	0	0	2	0	0	0
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	6.66	47	0.76	19	4	100	0	0	1	50	2	0	0	0
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	8.14	58	1.22	33	2	0	1	100	0	0	4	40	0	0
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	7.59	54	1.11	30	4	100	0	0	1	50	2	0	0	0
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	7.44	53	0.86	22	3	50	0	0	2	100	2	0	0	0
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	8.46	61	1.22	33	2	0	1	100	0	0	4	40	0	0
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	5.98	42	0.36	7	4	100	0	0	2	100	2	0	0	0
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	1.19	5	2.36	68	4	100	0	0	0	0	2	0	0	0
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	9.08	66	0.77	20	4	100	0	0	1	50	2	0	0	0
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	5.98	42	0.48	11	4	100	0	0	1	50	2	0	0	0
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	7.53	54	0.94	25	3	50	0	0	1	50	2	0	0	0
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	9.08	66	1.17	32	3	50	0	0	1	50	6	80	0	0
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	6.75	48	0.76	19	4	100	0	0	0	0	2	0	0	0
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	7.53	54	0.86	22	3	50	0	0	1	50	2	0	0	0
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	9.63	70	1.38	38	2	0	0	0	0	0	3	20	0	0
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	42	0.58	14	3	50	0	0	1	50	2	0	0	0
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	9.08	66	1.09	30	3	50	0	0	1	50	6	80	0	0
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	6.07	43	0.36	7	4	100	0	0	1	50	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	6.07	43	1.43	40	3	50	0	0	1	50	2	0	0	0
321	4,9,11,16,23,25,34,47,48,52,53,69,80	10.54	77	0.76	19	3	50	0	0	1	50	6	80	0	0
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	7.44	53	0.58	14	3	50	0	0	2	100	2	0	0	0
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	6.07	43	0.48	11	4	100	0	0	0	0	2	0	0	0
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	6.07	43	1.35	37	3	50	0	0	1	50	2	0	0	0
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	7.44	53	0.50	11	3	50	0	0	2	100	2	0	0	0
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	7.53	54	1.01	27	3	50	0	0	1	50	2	0	0	0
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	43	0.58	14	3	50	0	0	0	0	2	0	0	0
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	7.53	54	0.58	14	3	50	0	0	1	50	2	0	0	0
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	9.08	66	0.81	21	3	50	0	0	1	50	6	80	0	0
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	7.53	54	0.50	11	3	50	0	0	1	50	2	0	0	0
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	9.08	66	0.93	25	3	50	0	0	0	0	6	80	0	0
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	6.07	43	1.06	29	3	50	0	0	1	50	2	0	0	0
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	9.08	66	0.85	22	3	50	0	0	0	0	6	80	0	0
425	9,17,24,25,34,47,48,52,65,67,71,79,81	9.29	67	0.64	16	4	100	1	100	2	100	3	20	0	0
227	3,9,17,24,25,34,47,48,52,65,67	8.96	65	0.65	16	4	100	1	100	2	100	3	20	0	0
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	43	1.19	32	3	50	0	0	0	0	2	0	0	0
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	5.98	42	1.03	28	3	50	0	0	1	50	2	0	0	0
228	3,9,17,24,25,34,47,48,52,67,70,76,84	9.05	65	0.65	16	4	100	1	100	1	50	3	20	0	0
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	6.07	43	1.11	30	3	50	0	0	0	0	2	0	0	0
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	9.38	68	0.64	16	4	100	1	100	1	50	3	20	0	0
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	42	0.95	25	3	50	0	0	1	50	2	0	0	0
248	4,17,24,25,34,47,48,52,53,69,80	12.07	89	0.90	24	4	100	0	0	1	50	6	80	0	0
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	10.45	76	0.81	21	4	100	0	0	2	100	2	0	0	0
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	10.93	80	0.88	23	4	100	1	100	1	50	7	100	0	0
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	10.61	77	0.88	23	4	100	1	100	1	50	7	100	0	0
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	6.07	43	1.03	28	3	50	0	0	0	0	2	0	0	0
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	7.59	54	1.13	31	4	100	1	100	1	50	3	20	0	0
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	9.05	65	1.15	31	4	100	0	0	1	50	2	0	0	0
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	43	0.95	25	3	50	0	0	0	0	2	0	0	0
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	10.54	77	0.81	21	4	100	0	0	1	50	2	0	0	0
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	7.92	57	1.13	30	4	100	1	100	1	50	3	20	0	0
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	7.44	53	0.39	8	4	100	0	0	2	100	2	0	0	0
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	12.10	89	1.04	28	4	100	0	0	1	50	6	80	0	0
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	10.54	77	1.21	33	3	50	0	0	1	50	6	80	0	0
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	9.76	71	1.03	28	4	100	0	0	0	0	6	80	0	0
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	10.54	77	1.13	31	3	50	0	0	1	50	6	80	0	0
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	9.08	66	1.29	35	4	100	0	0	1	50	2	0	0	0
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	7.53	54	0.39	8	4	100	0	0	1	50	2	0	0	0
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	7.53	54	1.46	41	3	50	0	0	1	50	2	0	0	0
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	9.08	66	0.62	15	4	100	0	0	1	50	6	80	0	0
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	6.75	48	1.28	35	4	100	0	0	0	0	2	0	0	0
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	9.08	66	0.74	19	4	100	0	0	0	0	6	80	0	0
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	7.53	54	1.38	38	3	50	0	0	1	50	2	0	0	0
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	6.07	43	0.87	23	4	100	0	0	1	50	2	0	0	0
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	43	1.00	26	4	100	0	0	0	0	2	0	0	0
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	9.08	66	0.84	22	3	50	0	0	0	0	6	80	0	0
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	10.54	77	0.85	22	3	50	0	0	1	50	6	80	0	0
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	6.07	43	1.09	29	3	50	0	0	0	0	2	0	0	0
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	10.54	77	0.77	20	3	50	0	0	1	50	6	80	0	0
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	14	2.44	71	4	100	0	0	0	0	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	7.53	54	1.10	30	3	50	0	0	1	50	2	0	0	0
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	7.53	54	1.02	27	3	50	0	0	1	50	2	0	0	0
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	14	2.44	71	4	100	0	0	0	0	2	0	0	0
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	12.39	91	0.91	24	4	100	1	100	1	50	7	100	0	0
226	3,9,17,24,25,34,47,48,52,53,69,80	12.07	89	0.91	24	4	100	1	100	1	50	7	100	0	0
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	9.08	66	1.30	36	3	50	0	0	0	0	6	80	0	0
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	9.05	65	1.16	32	4	100	1	100	1	50	3	20	0	0
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	9.38	68	1.16	32	4	100	1	100	1	50	3	20	0	0
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	9.08	66	1.22	33	3	50	0	0	0	0	6	80	0	0
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	43	1.55	43	3	50	0	0	0	0	2	0	0	0
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	14	2.96	86	4	100	0	0	0	0	2	0	0	0
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	14	2.90	84	4	100	0	0	0	0	2	0	0	0
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	13.56	100	1.07	29	4	100	0	0	1	50	6	80	0	0
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	6.07	43	1.47	41	3	50	0	0	0	0	2	0	0	0
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	14	2.82	82	4	100	0	0	0	0	2	0	0	0
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	10.54	77	1.32	36	4	100	0	0	1	50	2	0	0	0
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0.51	0	2.48	72	4	100	0	0	0	0	2	0	0	0
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	14	2.96	86	4	100	0	0	0	0	2	0	0	0
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	14	2.90	84	4	100	0	0	0	0	2	0	0	0
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	10.54	77	0.66	16	4	100	0	0	1	50	6	80	0	0
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	14	2.82	82	4	100	0	0	0	0	2	0	0	0
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	7.53	54	0.91	24	4	100	0	0	1	50	2	0	0	0
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0.51	0	2.48	72	4	100	0	0	0	0	2	0	0	0
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	2.36	14	3.41	100	4	100	0	0	0	0	2	0	0	0
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	14	3.34	98	4	100	0	0	0	0	2	0	0	0
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0.51	0	2.93	85	4	100	0	0	0	0	2	0	0	0
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	2.37	14	3.41	100	4	100	0	0	0	0	2	0	0	0
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0.51	0	2.85	83	4	100	0	0	0	0	2	0	0	0
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	14	3.34	98	4	100	0	0	0	0	2	0	0	0
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0.51	0	2.93	85	4	100	0	0	0	0	2	0	0	0
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0.51	0	2.85	83	4	100	0	0	0	0	2	0	0	0
	MIN	0.51	0	0.12	0	2	0	0	0	0	0	2	0	0	0
	MAX	13.56	100	3.41	100	4	100	1	100	2	100	7	100	0	0
	RANGE	13.05	100	3.29	100	2	100	1	100	2	100	5	100	0	0

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
382	5,35,36,37,50,69,75,80	0	0.00	9	1.97	13	2.22	19	1	35	17	53.99	27	2	67	0	0
252	4,17,32,37,50,69,75,80	0	0.00	7	1.18	7	0.56	15	1	32	7	59.35	32	2	67	0	0
392	5,35,38,64,71,73	4	5.00	6	0.79	11	1.67	17	1	36	20	61.40	34	2	67	0	0
388	5,35,38,49,50,69,75,80	3	3.75	8	1.58	12	1.94	18	1	38	27	50.61	23	2	67	0	0
384	5,35,36,37,64,71,72,74,75	1	1.25	6	0.79	13	2.22	20	1	35	17	57.60	30	2	67	0	0
267	4,17,32,37,64,71,72,74,75	1	1.25	4	0.00	7	0.56	16	1	32	7	62.96	36	2	67	0	0
378	5,35,36,37,49,64,71,73	1	1.25	7	1.18	13	2.22	17	1	36	20	65.63	38	2	67	0	0
261	4,17,32,37,49,64,71,73	1	1.25	5	0.39	7	0.56	13	0	33	10	70.98	44	2	67	0	0
383	5,35,36,37,63,74,75,80	3	3.75	8	1.58	20	4.17	16	1	37	23	61.13	34	2	67	0	0
266	4,17,32,37,63,74,75,80	3	3.75	6	0.79	14	2.50	12	0	34	13	66.49	39	2	67	0	0
394	5,60,62,64	0	0.00	11	2.76	16	3.06	25	1	32	7	69.90	43	1	33	0	0
390	5,35,38,49,64,71,72,74,75	4	5.00	5	0.39	12	1.94	19	1	38	27	54.22	27	2	67	0	0
393	5,60,61,64	2	2.50	12	3.16	14	2.50	24	1	30	0	73.71	47	1	33	0	0
259	4,17,32,36,38,64,71,73	4	5.00	5	0.39	5	0.00	12	0	35	17	69.31	42	2	67	0	0
256	4,17,32,36,38,49,50,69,75,80	3	3.75	7	1.18	6	0.28	13	0	36	20	58.51	31	2	67	0	0
389	5,35,38,49,63,74,75,80	6	7.50	7	1.18	19	3.89	15	1	40	33	57.75	30	2	67	0	0
391	5,35,38,63,72,73,80	6	7.50	8	1.58	18	3.61	13	0	41	37	64.93	38	2	67	0	0
380	5,35,36,37,50,53,65,67,75	0	0.00	8	1.58	13	2.22	19	1	36	20	53.99	27	2	67	0	0
263	4,17,32,37,50,53,65,67,75	0	0.00	6	0.79	7	0.56	15	1	33	10	59.35	32	2	67	0	0
241	3,9,17,32,37,50,69,75,80	4	5.00	14	3.95	14	2.50	22	1	36	20	52.79	25	1	33	0	0
381	5,35,36,37,50,53,67,70,75,76,84	0	0.00	8	1.58	13	2.22	20	1	37	23	59.57	32	2	67	0	0
413	9,17,32,37,50,69,75,79,80,81	0	0.00	9	1.97	16	3.06	23	1	34	13	63.48	36	1	33	0	0
264	4,17,32,37,50,53,67,70,75,76,84	0	0.00	6	0.79	7	0.56	16	1	34	13	64.92	38	2	67	0	0
386	5,35,38,49,50,53,65,67,75	3	3.75	7	1.18	12	1.94	18	1	39	30	50.61	23	2	67	0	0
258	4,17,32,36,38,49,64,71,72,74,75	4	5.00	4	0.00	6	0.28	14	0	36	20	62.12	35	2	67	0	0
377	5,35,36,37,49,63,72,73,80	3	3.75	9	1.97	20	4.17	13	0	41	37	69.16	42	2	67	0	0
260	4,17,32,37,49,63,72,73,80	3	3.75	7	1.18	14	2.50	9	0	38	27	74.51	47	2	67	0	0
118	2,8,9,17,32,37,50,69,75,80,81	1	1.25	12	3.16	13	2.22	20	1	40	33	62.96	36	1	33	0	0
387	5,35,38,49,50,53,67,70,75,76,84	3	3.75	7	1.18	12	1.94	19	1	40	33	56.19	29	2	67	0	0
257	4,17,32,36,38,49,63,34,74,75,80	6	7.50	6	0.79	13	2.22	10	0	38	27	65.65	38	2	67	0	0
243	3,9,17,32,37,64,71,72,74,75	5	6.25	11	2.76	14	2.50	23	1	36	20	56.40	29	1	33	0	0
253	4,17,32,36,38,36,34,72,73,80	6	7.50	7	1.18	12	1.94	8	0	40	33	72.84	46	2	67	0	0
237	3,9,17,32,37,49,64,71,73	5	6.25	12	3.16	14	2.50	20	1	37	23	64.43	37	1	33	0	0
408	9,17,32,37,64,71,72,74,75,79,81	1	1.25	6	0.79	16	3.06	24	1	34	13	67.09	40	1	33	0	0
242	3,9,17,32,37,63,74,75,80	7	8.75	13	3.55	21	4.44	19	1	38	27	59.93	33	1	33	0	0
407	9,17,32,37,49,64,71,73,79,81	1	1.25	7	1.18	16	3.06	21	1	35	17	75.11	48	1	33	0	0
235	3,9,17,32,36,38,64,71,73	8	10.00	12	3.16	12	1.94	19	1	39	30	62.75	36	1	33	0	0
410	9,17,32,37,63,74,75,79,80,81	3	3.75	8	1.58	23	5.00	20	1	36	20	70.62	43	1	33	0	0
254	4,17,32,36,38,49,50,53,65,67,75	3	3.75	6	0.79	6	0.28	13	0	37	23	58.51	31	2	67	0	0
120	2,8,9,17,32,37,64,71,72,74,75,81	2	2.50	9	1.97	13	2.22	21	1	40	33	66.57	39	1	33	0	0
232	3,9,17,32,36,38,49,50,69,75,80	7	8.75	14	3.95	13	2.22	20	1	40	33	51.95	25	1	33	0	0
406	9,17,32,36,38,64,71,73,79,81	4	5.00	7	1.18	14	2.50	20	1	37	23	73.44	46	1	33	0	0
114	2,8,9,17,32,37,49,64,71,73,81	2	2.50	10	2.37	13	2.22	18	1	41	37	74.59	47	1	33	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
414	9,17,32,36,38,49,50,69,75,71,79,80,81	3	3.75	9	1.97	15	2.78	21	1	38	27	62.64	35	1	33	0	0
255	4,17,32,36,38,49,50,53,67,70,75,76,84	3	3.75	6	0.79	6	0.28	14	0	38	27	64.09	37	2	67	0	0
119	2,8,9,17,32,37,63,74,75,80,81	4	5.00	11	2.76	20	4.17	18	1	42	40	70.10	43	1	33	0	0
240	3,9,17,32,37,50,53,65,67,75	4	5.00	13	3.55	14	2.50	22	1	37	23	52.79	25	1	33	0	0
112	2,8,9,17,32,36,38,64,71,73,81	5	6.25	10	2.37	11	1.67	18	1	43	43	72.92	46	1	33	0	0
415	9,17,32,37,50,53,65,67,71,75,79,81	0	0.00	8	1.58	16	3.06	23	1	34	13	63.48	36	1	33	0	0
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	4	5.00	12	3.16	12	1.94	18	1	44	47	62.12	35	1	33	0	0
238	3,9,17,32,37,50,35,67,70,75,76,84	4	5.00	13	3.55	14	2.50	23	1	38	27	58.37	31	1	33	0	0
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	12	15.00	30	10.26	18	3.61	25	1	43	43	47.83	20	1	33	0	0
233	3,9,17,32,36,38,49,64,71,72,74,75	8	10.00	11	2.76	13	2.22	21	1	40	33	55.57	28	1	33	0	0
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	0	0.00	8	1.58	16	3.06	24	1	35	17	69.06	42	1	33	0	0
379	5,35,36,37,50,53,55,59,66,67,70,75,84	0	0.00	16	4.74	21	4.44	24	1	43	43	77.56	50	3	100	0	0
117	2,8,9,17,32,37,50,53,65,67,71,75,81	1	1.25	11	2.76	13	2.22	21	1	40	33	62.96	36	1	33	0	0
236	3,9,17,32,37,49,63,72,73,80	7	8.75	14	3.95	21	4.44	16	1	42	40	67.96	41	1	33	0	0
262	4,17,32,37,50,53,55,59,66,67,70,75,84	0	0.00	14	3.95	15	2.78	20	1	40	33	82.91	56	3	100	0	0
409	9,17,32,36,38,49,64,71,72,74,75,79,81	4	5.00	6	0.79	15	2.78	22	1	38	27	66.25	39	1	33	0	0
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	12	15.00	30	10.26	18	3.61	26	1	45	50	53.40	26	1	33	0	0
412	9,17,32,37,49,63,72,73,79,80,81	3	3.75	9	1.97	23	5.00	17	1	40	33	78.64	52	1	33	0	0
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	1	1.25	11	2.76	13	2.22	21	1	41	37	68.53	41	1	33	0	0
234	3,9,17,32,36,38,63,72,73,80	10	12.50	14	3.95	19	3.89	15	1	44	47	66.28	39	1	33	0	0
385	5,35,38,49,50,53,55,59,66,67,70,75,84	3	3.75	15	4.34	20	4.17	23	1	46	53	74.18	47	3	100	0	0
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	5	6.25	9	1.97	12	1.94	19	1	44	47	65.73	39	1	33	0	0
411	9,17,32,36,38,63,72,73,79,80,81	6	7.50	9	1.97	21	4.44	16	1	42	40	76.97	50	1	33	0	0
113	2,8,9,17,32,37,49,63,72,73,80,81	4	5.00	12	3.16	20	4.17	15	1	46	53	78.12	51	1	33	0	0
246	4,17,24,25,31,33,45,47,48,52,65,67	4	5.00	10	2.37	13	2.22	21	1	47	57	44.58	17	1	33	0	0
230	3,9,17,32,36,38,49,50,53,65,67,75	7	8.75	13	3.55	13	2.22	20	1	41	37	51.95	25	1	33	0	0
111	2,8,9,17,32,36,38,63,72,73,80,81	7	8.75	12	3.16	18	3.61	14	0	48	60	76.45	49	1	33	0	0
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	3	3.75	8	1.58	15	2.78	21	1	38	27	62.64	35	1	33	0	0
306	4,9,11,14,20,29,43,44,55,67,70,76,83	2	2.50	11	2.76	9	1.11	12	0	41	37	95.09	68	2	67	0	0
354	4,9,14,20,29,43,44,55,67,70,76,78,81	2	2.50	11	2.76	9	1.11	12	0	42	40	87.18	60	2	67	0	0
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	7	8.75	13	3.55	13	2.22	21	1	42	40	57.53	30	1	33	0	0
247	4,17,24,25,31,33,47,48,52,67,70,76,84	4	5.00	10	2.37	13	2.22	22	1	49	63	50.16	23	1	33	0	0
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	4	5.00	9	1.97	10	1.39	14	0	41	37	92.68	66	2	67	0	0
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	3	3.75	8	1.58	15	2.78	22	1	39	30	68.22	41	1	33	0	0
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	4	5.00	11	2.76	12	1.94	19	1	44	47	62.12	35	1	33	0	0
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	16	20.00	33	11.45	16	3.06	21	1	47	57	41.99	15	1	33	0	0
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	16	20.00	33	11.45	16	3.06	21	1	47	57	41.99	15	1	33	0	0
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	4	5.00	9	1.97	10	1.39	14	0	42	40	84.77	58	2	67	0	0
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	16	20.00	33	11.45	16	3.06	21	1	48	60	34.08	7	1	33	0	0
323	4,9,11,16,23,25,34,47,48,52,65,67	13	16.25	47	16.97	47	11.67	67	4	42	40	41.24	14	1	33	0	0
276	4,7,8,9,13,28,43,44,55,67,70,76,81	1	1.25	11	2.76	13	2.22	15	1	39	30	99.01	72	2	67	0	0
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	4	5.00	11	2.76	12	1.94	19	1	45	50	67.70	41	1	33	0	0
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	16	20.00	33	11.45	16	3.06	22	1	49	63	47.57	20	1	33	0	0
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	4	5.00	21	6.71	22	4.72	27	1	43	43	76.36	49	2	67	0	0
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	16	20.00	33	11.45	16	3.06	22	1	50	67	39.66	12	1	33	0	0
307	4,9,11,14,20,29,43,44,59,66,67,70,83	2	2.50	19	5.92	15	2.78	15	1	43	43	94.59	68	2	67	0	0
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	0	0.00	16	4.74	24	5.28	28	1	40	33	87.05	60	2	67	0	0
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	13	16.25	47	16.97	47	11.67	68	4	44	47	46.81	19	1	33	0	0
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	12	15.00	31	10.66	19	3.89	26	1	44	47	47.83	20	1	33	0	0

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Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	25	31.25	28	9.47	12	1.94	21	1	47	57	57.82	31	1	33	0	0
355	4,9,14,20,29,43,44,59,66,67,70,78,81	2	2.50	19	5.92	15	2.78	15	1	44	47	86.67	60	2	67	0	0
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	23	28.75	53	19.34	32	7.50	18	1	39	30	58.20	31	1	33	0	0
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	7	8.75	15	4.34	19	3.89	16	1	47	57	112.25	85	2	67	0	0
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	4	5.00	17	5.13	16	3.06	17	1	43	43	92.18	65	2	67	0	0
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	23	28.75	53	19.34	32	7.50	18	1	38	27	70.59	43	1	33	0	0
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	12	15.00	38	13.42	26	5.83	30	2	50	67	71.39	44	2	67	0	0
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3	3.75	13	3.55	13	2.22	14	0	42	40	105.75	79	2	67	0	0
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	7	8.75	15	4.34	19	3.89	16	1	48	60	104.34	77	2	67	0	0
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	4	5.00	17	5.13	16	3.06	17	1	44	47	84.27	57	2	67	0	0
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	1	1.25	19	5.92	21	4.44	25	1	46	53	86.52	59	2	67	0	0
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	25	31.25	28	9.47	12	1.94	22	1	49	63	63.40	36	1	33	0	0
277	4,7,8,9,13,28,43,44,59,66,67,70,81	1	1.25	19	5.92	19	3.89	18	1	41	37	98.50	72	2	67	0	0
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	9	11.25	13	3.55	20	4.17	18	1	48	60	109.84	83	2	67	0	0
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	23	28.75	53	19.34	32	7.50	19	1	40	33	76.17	49	1	33	0	0
250	4,17,24,25,34,47,48,52,65,67	5	6.25	27	9.08	42	10.28	63	4	46	53	37.99	11	1	33	0	0
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	9	11.25	13	3.55	20	4.17	18	1	49	63	101.93	75	2	67	0	0
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	23	28.75	53	19.34	32	7.50	19	1	41	37	68.26	41	1	33	0	0
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	4	5.00	12	3.16	22	4.72	29	2	47	57	48.72	21	0	0	0	0
224	3,9,17,24,25,31,33,45,47,48,52,65,67	8	10.00	17	5.13	20	4.17	28	1	52	73	38.03	11	0	0	0	0
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	6	7.50	15	4.34	23	5.00	19	1	46	53	116.16	89	2	67	0	0
251	4,17,24,25,34,47,48,52,67,70,76,84	5	6.25	27	9.08	42	10.28	64	4	48	60	43.57	16	1	33	0	0
244	4,17,24,25,31,33,45,47,48,52,53,69,80	4	5.00	11	2.76	14	2.50	22	1	48	60	44.58	17	1	33	0	0
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	8	10.00	17	5.13	20	4.17	29	2	53	77	43.61	16	0	0	0	0
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	4	5.00	12	3.16	22	4.72	30	2	49	63	54.30	27	0	0	0	0
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	5	6.25	15	4.34	19	3.89	27	1	53	77	48.19	21	0	0	0	0
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	17	21.25	50	18.16	45	11.11	63	4	46	53	35.40	8	1	33	0	0
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3	3.75	21	6.71	19	3.89	17	1	44	47	105.24	78	2	67	0	0
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	10	12.50	33	11.45	38	9.17	44	3	44	47	86.86	60	1	33	0	0
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	7	8.75	21	6.71	21	4.44	25	1	47	57	75.52	48	2	67	0	0
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	4	5.00	18	5.53	21	4.44	26	1	55	83	68.15	41	2	67	0	0
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	17	21.25	50	18.16	45	11.11	63	4	47	57	27.49	0	1	33	0	0
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	3	3.75	16	4.74	23	5.00	26	1	44	47	86.21	59	2	67	0	0
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	26	32.50	27	9.08	13	2.22	23	1	48	60	60.20	33	1	33	0	0
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	8	10.00	17	5.13	23	5.00	18	1	48	60	122.90	96	2	67	0	0
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	5	6.25	15	4.34	19	3.89	28	1	55	83	53.77	26	0	0	0	0
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	24	30.00	52	18.95	33	7.78	20	1	38	27	72.97	46	1	33	0	0
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	17	21.25	50	18.16	45	11.11	64	4	48	60	40.98	14	1	33	0	0
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	16	20.00	34	11.84	17	3.33	22	1	48	60	41.99	15	1	33	0	0
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	10	12.50	33	11.45	38	9.17	45	3	46	53	92.44	65	1	33	0	0
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	17	21.25	50	18.16	45	11.11	64	4	49	63	33.07	6	1	33	0	0
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	4	5.00	19	5.92	20	4.17	23	1	50	67	85.69	59	2	67	0	0
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	37	46.25	71	26.45	32	7.50	20	1	38	27	69.18	42	1	33	0	0
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	16	20.00	34	11.84	17	3.33	22	1	49	63	34.08	7	1	33	0	0
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	26	32.50	27	9.08	13	2.22	24	1	50	67	65.78	39	1	33	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	16	20.00	41	14.61	24	5.28	26	1	54	80	65.56	38	2	67	0	0
321	4,9,11,16,23,25,34,47,48,52,53,69,80	13	16.25	48	17.37	48	11.94	68	4	43	43	41.24	14	1	33	0	0
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	26	32.50	45	16.18	41	10.00	63	4	46	53	51.23	24	1	33	0	0
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	24	30.00	52	18.95	33	7.78	21	1	40	33	78.55	51	1	33	0	0
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	16	20.00	41	14.61	24	5.28	26	1	55	83	57.65	30	2	67	0	0
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	26	32.50	45	16.18	41	10.00	63	4	47	57	43.32	16	1	33	0	0
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	13	16.25	55	20.13	55	13.89	72	5	49	63	64.80	38	2	67	0	0
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	37	46.25	71	26.45	32	7.50	21	1	40	33	74.76	48	1	33	0	0
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	26	32.50	45	16.18	41	10.00	64	4	48	60	56.81	30	1	33	0	0
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	25	31.25	29	9.87	13	2.22	22	1	48	60	57.82	31	1	33	0	0
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	26	32.50	45	16.18	41	10.00	64	4	49	63	48.90	22	1	33	0	0
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	23	28.75	54	19.74	33	7.78	19	1	39	30	70.59	43	1	33	0	0
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	25	31.25	36	12.63	20	4.17	26	1	54	80	81.39	54	2	67	0	0
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	23	28.75	54	19.74	33	7.78	19	1	40	33	62.68	35	1	33	0	0
425	9,17,24,25,34,47,48,52,65,67,71,79,81	5	6.25	29	9.87	51	12.78	71	5	46	53	42.13	15	0	0	0	0
227	3,9,17,24,25,34,47,48,52,65,67	9	11.25	34	11.84	49	12.22	70	5	51	70	31.44	4	0	0	0	0
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	23	28.75	61	22.50	40	9.72	23	1	45	50	94.16	67	2	67	0	0
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	37	46.25	72	26.84	34	8.06	17	1	40	33	63.35	36	1	33	0	0
228	3,9,17,24,25,34,47,48,52,67,70,76,84	9	11.25	34	11.84	49	12.22	71	5	50	67	37.02	10	0	0	0	0
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	23	28.75	61	22.50	40	9.72	23	1	46	53	86.25	59	2	67	0	0
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	5	6.25	29	9.87	51	12.78	72	5	46	53	47.71	20	0	0	0	0
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	37	46.25	72	26.84	34	8.06	17	1	41	37	55.44	28	1	33	0	0
248	4,17,24,25,34,47,48,52,53,69,80	5	6.25	28	9.47	43	10.56	64	4	47	57	37.99	11	1	33	0	0
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	6	7.50	32	11.05	48	11.94	69	4	52	73	41.60	14	0	0	0	0
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	4	5.00	13	3.55	23	5.00	30	2	48	60	48.72	21	0	0	0	0
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	8	10.00	18	5.53	21	4.44	29	2	53	77	38.03	11	0	0	0	0
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	37	46.25	72	26.84	34	8.06	18	1	42	40	68.93	42	1	33	0	0
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	8	10.00	25	8.29	28	6.39	33	2	58	93	61.60	34	1	33	0	0
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	5	6.25	35	12.24	50	12.50	68	4	54	80	61.56	34	2	67	0	0
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	37	46.25	72	26.84	34	8.06	18	1	43	43	61.02	34	1	33	0	0
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	6	7.50	32	11.05	48	11.94	70	5	52	73	47.18	20	0	0	0	0
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	4	5.00	20	6.32	30	6.94	34	2	54	80	72.29	45	1	33	0	0
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	27	33.75	44	15.79	42	10.28	65	4	47	57	53.61	26	1	33	0	0
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	5	6.25	16	4.74	20	4.17	28	1	54	80	48.19	21	0	0	0	0
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	17	21.25	51	18.55	46	11.39	64	4	47	57	35.40	8	1	33	0	0
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	10	12.50	34	11.84	39	9.44	45	3	45	50	86.86	60	1	33	0	0
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	17	21.25	51	18.55	46	11.39	64	4	48	60	27.49	0	1	33	0	0
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	5	6.25	23	7.50	27	6.11	32	2	60	100	71.76	45	1	33	0	0
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	27	33.75	44	15.79	42	10.28	66	4	49	63	59.19	32	1	33	0	0
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	17	21.25	58	21.32	53	13.33	68	4	53	77	58.97	32	2	67	0	0
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	26	32.50	28	9.47	14	2.50	24	1	49	63	60.20	33	1	33	0	0
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	10	12.50	41	14.61	46	11.39	49	3	50	67	110.43	84	2	67	0	0
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	24	30.00	53	19.34	34	8.06	21	1	39	30	72.97	46	1	33	0	0
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	17	21.25	58	21.32	53	13.33	68	4	54	80	51.06	24	2	67	0	0
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	26	32.50	35	12.24	21	4.44	28	1	55	83	83.77	57	2	67	0	0
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	24	30.00	60	22.11	41	10.00	25	1	45	50	96.54	70	2	67	0	0
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	37	46.25	72	26.84	33	7.78	21	1	39	30	69.18	42	1	33	0	0
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	26	32.50	46	16.58	42	10.28	64	4	47	57	51.23	24	1	33	0	0
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	37	46.25	79	29.61	40	9.72	25	1	45	50	92.75	66	2	67	0	0
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	26	32.50	46	16.58	42	10.28	64	4	48	60	43.32	16	1	33	0	0
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	33	41.25	70	26.05	27	6.11	12	0	38	27	109.57	83	2	67	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	26	32.50	53	19.34	49	12.22	68	4	53	77	74.80	48	2	67	0	0
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	26	32.50	53	19.34	49	12.22	68	4	54	80	66.89	40	2	67	0	0
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	35	43.75	68	25.26	28	6.39	14	0	38	27	107.17	80	2	67	0	0
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	5	6.25	30	10.26	52	13.06	72	5	47	57	42.13	15	0	0	0	0
226	3,9,17,24,25,34,47,48,52,53,69,80	9	11.25	35	12.24	50	12.50	71	5	52	73	31.44	4	0	0	0	0
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	37	46.25	73	27.24	35	8.33	18	1	41	37	63.35	36	1	33	0	0
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	9	11.25	42	15.00	57	14.44	75	5	57	90	55.01	28	1	33	0	0
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	5	6.25	37	13.03	59	15.00	76	5	53	77	65.70	39	1	33	0	0
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	37	46.25	73	27.24	35	8.33	18	1	42	40	55.44	28	1	33	0	0
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	37	46.25	80	30.00	42	10.28	22	1	47	57	86.92	60	2	67	0	0
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	33	41.25	78	29.21	33	7.78	15	1	40	33	109.06	82	2	67	0	0
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	33	41.25	71	26.45	29	6.67	9	0	40	33	103.74	77	2	67	0	0
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	6	7.50	33	11.45	49	12.22	69	4	53	77	41.60	14	0	0	0	0
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	37	46.25	80	30.00	42	10.28	22	1	48	60	79.01	52	2	67	0	0
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	33	41.25	71	26.45	29	6.67	9	0	41	37	95.82	69	2	67	0	0
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	6	7.50	40	14.21	56	14.17	74	5	59	97	65.17	38	1	33	0	0
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	38	47.50	74	27.63	37	8.89	16	1	44	47	126.72	100	2	67	0	0
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	35	43.75	76	28.42	34	8.06	17	1	40	33	106.67	80	2	67	0	0
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	35	43.75	69	25.66	30	6.94	11	0	40	33	101.34	74	2	67	0	0
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	27	33.75	45	16.18	43	10.56	66	4	48	60	53.61	26	1	33	0	0
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	35	43.75	69	25.66	30	6.94	11	0	41	37	93.43	66	2	67	0	0
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	27	33.75	52	18.95	50	12.50	70	5	54	80	77.18	50	2	67	0	0
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	40	50.00	72	26.84	38	9.17	18	1	45	50	124.33	98	2	67	0	0
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	33	41.25	79	29.61	35	8.33	12	0	42	40	103.22	76	2	67	0	0
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	33	41.25	79	29.61	35	8.33	12	0	43	43	95.32	68	2	67	0	0
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	38	47.50	75	28.03	39	9.44	13	0	46	53	120.89	94	2	67	0	0
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	35	43.75	77	28.82	36	8.61	14	0	42	40	100.83	74	2	67	0	0
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	38	47.50	75	28.03	39	9.44	13	0	47	57	112.98	86	2	67	0	0
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	35	43.75	77	28.82	36	8.61	14	0	43	43	92.92	66	2	67	0	0
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	40	50.00	73	27.24	40	9.72	15	1	47	57	118.50	92	2	67	0	0
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	40	50.00	73	27.24	40	9.72	15	1	48	60	110.59	84	2	67	0	0
	MIN	0	0.00	4	0.00	5	0.00	8	0	30	0	27.49	0	0	0	0	0
	MAX	40	50.00	80	30.00	59	15.00	76	5	60	100	126.72	100	3	100	0	0
	RANGE	40	50.00	76	30.00	54	15.00	68	5	30	100	99.23	100	3	100	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
382	5,35,36,37,50,69,75,80	1	25	8	62	5.79	10	0.00	30	4.44	20	0.23	94	9.43	2	0.07	0
252	4,17,32,37,50,69,75,80	0	0	6	46	5.77	10	0.00	30	0.43	38	0.23	94	9.31	0	0.15	4
392	5,35,38,64,71,73	1	25	1	8	7.83	0	0.00	30	6.16	13	0.00	100	9.86	11	0.07	0
388	5,35,38,49,50,69,75,80	1	25	8	62	5.76	10	0.00	30	5.04	18	0.23	94	9.41	2	0.07	0
384	5,35,36,37,64,71,72,74,75	3	75	5	38	7.91	0	0.00	30	4.01	22	0.00	100	10.14	17	0.07	0
267	4,17,32,37,64,71,72,74,75	2	50	3	23	7.90	0	0.00	30	0.00	40	0.00	100	10.02	14	0.15	4
378	5,35,36,37,49,64,71,73	3	75	5	38	7.90	0	0.00	30	5.55	16	0.00	100	10.12	16	0.07	0
261	4,17,32,37,49,64,71,73	2	50	3	23	7.88	0	0.00	30	1.55	33	0.00	100	10.00	14	0.15	4
383	5,35,36,37,63,74,75,80	1	25	6	46	7.58	2	0.00	30	6.92	9	0.00	100	9.58	6	0.07	0
266	4,17,32,37,63,74,75,80	0	0	4	31	7.56	2	0.00	30	2.91	27	0.00	100	9.47	3	0.15	4
394	5,60,62,64	1	25	0	0	3.61	19	0.00	30	3.61	24	0.00	100	9.89	12	0.07	0
390	5,35,38,49,64,71,72,74,75	3	75	5	38	7.88	0	0.00	30	4.61	20	0.00	100	10.12	16	0.07	0
393	5,60,61,64	1	25	1	8	3.61	19	0.00	30	3.61	24	0.00	100	10.06	15	0.07	0
259	4,17,32,36,38,64,71,73	2	50	3	23	7.87	0	0.00	30	2.15	31	0.00	100	10.00	14	0.15	4
256	4,17,32,36,38,49,50,69,75,80	2	50	10	77	5.80	10	0.00	30	1.04	35	0.23	94	9.55	5	0.15	4
389	5,35,38,49,63,74,75,80	1	25	6	46	7.55	2	0.00	30	7.52	7	0.00	100	9.57	5	0.07	0
391	5,35,38,63,72,73,80	1	25	6	46	7.55	2	0.00	30	9.07	0	0.00	100	9.58	6	0.07	0
380	5,35,36,37,50,53,65,67,75	1	25	6	46	5.79	10	1.73	19	4.01	22	1.73	56	9.59	6	0.07	0
263	4,17,32,37,50,53,65,67,75	0	0	4	31	5.77	10	1.73	19	0.00	40	1.73	56	9.47	3	0.15	4
241	3,9,17,32,37,50,69,75,80	0	0	7	54	3.77	19	1.42	21	0.43	38	1.64	58	10.71	28	1.07	48
381	5,35,36,37,50,53,67,70,75,76,84	1	25	6	46	5.79	10	0.71	26	4.01	22	0.53	86	9.75	9	0.07	0
413	9,17,32,37,50,69,75,79,80,81	0	0	8	62	3.77	19	2.03	17	0.43	38	0.23	94	10.75	29	1.13	51
264	4,17,32,37,50,53,67,70,75,76,84	0	0	4	31	5.77	10	0.71	26	0.00	40	0.53	86	9.63	7	0.15	4
386	5,35,38,49,50,53,65,67,75	1	25	6	46	5.76	10	1.73	19	4.61	20	1.73	56	9.57	5	0.07	0
258	4,17,32,36,38,49,64,71,72,74,75	4	100	7	54	7.92	0	0.00	30	0.61	37	0.00	100	10.26	19	0.15	4
377	5,35,36,37,49,63,72,73,80	3	75	10	77	7.61	1	0.00	30	8.46	3	0.00	100	9.84	11	0.07	0
260	4,17,32,37,49,63,72,73,80	2	50	8	62	7.60	1	0.00	30	4.46	20	0.00	100	9.72	8	0.15	4
118	2,8,9,17,32,37,50,69,75,80,81	0	0	9	69	3.77	19	0.00	30	0.43	38	0.23	94	11.32	40	2.16	100
387	5,35,38,49,50,53,67,70,75,76,84	1	25	6	46	5.76	10	0.71	26	4.61	20	0.53	86	9.74	9	0.07	0
257	4,17,32,36,38,49,63,34,74,75,80	2	50	8	62	7.58	2	0.00	30	3.52	24	0.00	100	9.70	8	0.15	4
243	3,9,17,32,37,64,71,72,74,75	2	50	4	31	5.89	9	1.42	21	0.00	40	1.40	64	11.42	42	1.07	48
253	4,17,32,36,38,36,34,72,73,80	2	50	8	62	7.58	2	0.00	30	5.07	18	0.00	100	9.72	8	0.15	4
237	3,9,17,32,37,49,64,71,73	2	50	4	31	5.88	9	1.42	21	1.55	33	1.40	64	11.40	42	1.07	48
408	9,17,32,37,64,71,72,74,75,79,81	2	50	5	38	5.89	9	2.03	17	0.00	40	0.00	100	11.46	43	1.13	51
242	3,9,17,32,37,63,74,75,80	0	0	5	38	5.56	11	1.42	21	2.91	27	1.40	64	10.86	31	1.07	48
407	9,17,32,37,49,64,71,73,79,81	2	50	5	38	5.88	9	2.03	17	1.55	33	0.00	100	11.44	43	1.13	51
235	3,9,17,32,36,38,64,71,73	2	50	4	31	5.86	9	1.42	21	2.15	31	1.40	64	11.39	42	1.07	48
410	9,17,32,37,63,74,75,79,80,81	0	0	6	46	5.56	11	2.03	17	2.91	27	0.00	100	10.91	32	1.13	51
254	4,17,32,36,38,49,50,53,65,67,75	2	50	8	62	5.80	10	1.73	19	0.61	37	1.73	56	9.71	8	0.15	4
120	2,8,9,17,32,37,64,71,72,74,75,81	2	50	6	46	5.89	9	0.00	30	0.00	40	0.00	100	12.03	55	2.16	100
232	3,9,17,32,36,38,49,50,69,75,80	2	50	11	85	3.79	19	1.42	21	1.04	35	1.64	58	10.94	33	1.07	48
406	9,17,32,36,38,64,71,73,79,81	2	50	5	38	5.86	9	2.03	17	2.15	31	0.00	100	11.44	43	1.13	51
114	2,8,9,17,32,37,49,64,71,73,81	2	50	6	46	5.88	9	0.00	30	1.55	33	0.00	100	12.01	54	2.16	100

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
414	9,17,32,36,38,49,50,69,75,71,79,80,81	2	50	12	92	3.79	19	2.03	17	1.04	35	0.23	94	10.99	34	1.13	51
255	4,17,32,36,38,49,50,53,67,70,75,76,84	2	50	8	62	5.80	10	0.71	26	0.61	37	0.53	86	9.87	11	0.15	4
119	2,8,9,17,32,37,63,74,75,80,81	0	0	7	54	5.56	11	0.00	30	2.91	27	0.00	100	11.47	44	2.16	100
240	3,9,17,32,37,50,53,65,67,75	0	0	5	38	3.77	19	3.15	10	0.00	40	3.13	20	10.87	31	1.07	48
112	2,8,9,17,32,36,38,64,71,73,81	2	50	6	46	5.86	9	0.00	30	2.15	31	0.00	100	12.00	54	2.16	100
415	9,17,32,37,50,53,65,67,71,75,79,81	0	0	6	46	3.77	19	3.76	6	0.00	40	1.73	56	10.91	32	1.13	51
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	2	50	13	100	3.79	19	0.00	30	1.04	35	0.23	94	11.55	45	2.16	100
238	3,9,17,32,37,50,35,67,70,75,76,84	0	0	5	38	3.77	19	2.13	17	0.00	40	1.94	50	11.03	35	1.07	48
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	0	0	6	46	2.03	26	3.85	6	0.00	40	3.89	0	9.64	7	0.15	4
233	3,9,17,32,36,38,49,64,71,72,74,75	4	100	8	62	5.92	9	1.42	21	0.61	37	1.40	64	11.65	47	1.07	48
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	0	0	6	46	3.77	19	2.74	13	0.00	40	0.53	86	11.08	36	1.13	51
379	5,35,36,37,50,53,55,59,66,67,70,75,84	1	25	6	46	5.79	10	1.44	21	4.01	22	0.53	86	10.99	34	0.07	0
117	2,8,9,17,32,37,50,53,65,67,71,75,81	0	0	7	54	3.77	19	1.73	19	0.00	40	1.73	56	11.48	44	2.16	100
236	3,9,17,32,37,49,63,72,73,80	2	50	9	69	5.59	10	1.42	21	4.46	20	1.40	64	11.12	36	1.07	48
262	4,17,32,37,50,53,55,59,66,67,70,75,84	0	0	4	31	5.77	10	1.44	21	0.00	40	0.53	86	10.87	32	0.15	4
409	9,17,32,36,38,49,64,71,72,74,75,79,81	4	100	9	69	5.92	9	2.03	17	0.61	37	0.00	100	11.70	48	1.13	51
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	0	0	6	46	2.03	26	2.83	12	0.00	40	2.70	31	9.80	10	0.15	4
412	9,17,32,37,49,63,72,73,79,80,81	2	50	10	77	5.59	10	2.03	17	4.46	20	0.00	100	11.16	37	1.13	51
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	0	0	7	54	3.77	19	0.71	26	0.00	40	0.53	86	11.64	47	2.16	100
234	3,9,17,32,36,38,63,72,73,80	2	50	9	69	5.58	10	1.42	21	5.07	18	1.40	64	11.11	36	1.07	48
385	5,35,38,49,50,53,55,59,66,67,70,75,84	1	25	6	46	5.76	10	1.44	21	4.61	20	0.53	86	10.98	34	0.07	0
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	4	100	10	77	5.92	9	0.00	30	0.61	37	0.00	100	12.26	59	2.16	100
411	9,17,32,36,38,63,72,73,79,80,81	2	50	10	77	5.58	10	2.03	17	5.07	18	0.00	100	11.16	37	1.13	51
113	2,8,9,17,32,37,49,63,72,73,80,81	2	50	11	85	5.59	10	0.00	30	4.46	20	0.00	100	11.73	49	2.16	100
246	4,17,24,25,31,33,45,47,48,52,65,67	0	0	5	38	3.24	21	2.36	15	0.00	40	2.34	40	9.56	5	0.15	4
230	3,9,17,32,36,38,49,50,53,65,67,75	2	50	9	69	3.79	19	3.15	10	0.61	37	3.13	20	11.10	36	1.07	48
111	2,8,9,17,32,36,38,63,72,73,80,81	2	50	11	85	5.58	10	0.00	30	5.07	18	0.00	100	11.72	49	2.16	100
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	2	50	10	77	3.79	19	3.76	6	0.61	37	1.73	56	11.15	37	1.13	51
306	4,9,11,14,20,29,43,44,55,67,70,76,83	0	0	6	46	2.03	26	1.17	23	0.00	40	0.44	89	10.81	30	0.15	4
354	4,9,14,20,29,43,44,55,67,70,76,78,81	0	0	6	46	2.03	26	1.18	23	0.00	40	0.00	100	10.83	31	0.15	4
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	2	50	9	69	3.79	19	2.13	17	0.61	37	1.94	50	11.26	39	1.07	48
247	4,17,24,25,31,33,47,48,52,67,70,76,84	0	0	5	38	3.24	21	1.33	22	0.00	40	1.14	71	9.72	8	0.15	4
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	0	0	7	54	2.03	26	1.17	23	0.00	40	0.44	89	11.07	35	0.15	4
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	2	50	10	77	3.79	19	2.74	13	0.61	37	0.53	86	11.31	40	1.13	51
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	2	50	11	85	3.79	19	1.73	19	0.61	37	1.73	56	11.71	48	2.16	100
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	0	0	9	69	2.03	26	3.83	6	0.00	40	3.33	15	9.73	8	0.15	4
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	0	0	9	69	2.03	26	3.83	6	0.00	40	3.33	15	9.73	8	0.15	4
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	0	0	7	54	2.03	26	1.18	23	0.00	40	0.00	100	11.08	36	0.15	4
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	0	0	9	69	2.03	26	3.85	6	0.00	40	2.89	26	9.75	9	0.15	4
323	4,9,11,16,23,25,34,47,48,52,65,67	0	0	4	31	2.03	26	4.20	3	0.00	40	3.89	0	9.40	2	0.15	4
276	4,7,8,9,13,28,43,44,55,67,70,76,81	0	0	8	62	2.03	26	0.76	25	0.00	40	0.00	100	11.63	47	0.15	4
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	2	50	11	85	3.79	19	0.71	26	0.61	37	0.53	86	11.87	52	2.16	100
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	0	0	9	69	2.03	26	2.81	12	0.00	40	2.13	45	9.89	12	0.15	4
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	0	0	5	38	3.77	19	2.86	12	0.00	40	1.94	50	12.27	60	1.07	48
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	0	0	9	69	2.03	26	2.83	12	0.00	40	1.69	57	9.91	12	0.15	4
307	4,9,11,14,20,29,43,44,59,66,67,70,83	0	0	4	31	2.03	26	0.41	27	0.00	40	0.44	89	10.53	25	0.15	4
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	0	0	6	46	3.77	19	3.47	8	0.00	40	0.53	86	12.32	61	1.13	51
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	0	0	4	31	2.03	26	3.17	10	0.00	40	2.70	31	9.56	5	0.15	4
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	0	0	8	62	2.03	26	3.16	10	0.43	38	3.43	12	10.54	25	0.15	4

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	0	0	9	69	2.03	26	3.29	9	0.00	40	3.33	15	10.36	21	0.15	4
355	4,9,14,20,29,43,44,59,66,67,70,78,81	0	0	4	31	2.03	26	0.42	27	0.00	40	0.00	100	10.54	25	0.15	4
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	0	0	6	46	2.03	26	2.78	12	0.00	40	2.34	40	9.69	8	0.15	4
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	0	0	5	38	2.03	26	0.41	27	0.00	40	0.44	89	12.98	74	0.15	4
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	0	0	5	38	2.03	26	0.41	27	0.00	40	0.44	89	10.78	30	0.15	4
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	7	54	2.03	26	2.76	12	0.00	40	2.78	29	9.97	13	0.15	4
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	6	46	2.03	26	3.56	7	0.00	40	2.70	31	11.04	35	0.15	4
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	0	0	9	69	2.03	26	0.76	25	0.00	40	0.00	100	12.10	56	0.15	4
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	0	0	5	38	2.03	26	0.42	27	0.00	40	0.00	100	12.99	74	0.15	4
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	0	0	5	38	2.03	26	0.42	27	0.00	40	0.00	100	10.79	30	0.15	4
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	0	0	7	54	3.77	19	1.44	21	0.00	40	0.53	86	12.88	72	2.16	100
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	0	0	9	69	2.03	26	2.27	16	0.00	40	2.13	45	10.52	24	0.15	4
277	4,7,8,9,13,28,43,44,59,66,67,70,81	0	0	6	46	2.03	26	0.00	30	0.00	40	0.00	100	11.35	41	0.15	4
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	0	0	6	46	2.03	26	0.41	27	0.00	40	0.44	89	13.23	79	0.15	4
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	7	54	2.03	26	1.74	19	0.00	40	1.58	59	10.14	17	0.15	4
250	4,17,24,25,34,47,48,52,65,67	0	0	3	23	3.24	21	2.70	13	0.00	40	2.34	40	9.32	0	0.15	4
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	0	0	6	46	2.03	26	0.42	27	0.00	40	0.00	100	13.24	79	0.15	4
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	0	0	7	54	2.03	26	1.76	19	0.00	40	1.14	71	10.15	17	0.15	4
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	0	0	7	54	1.24	30	4.39	2	0.00	40	2.34	40	11.00	34	1.13	51
224	3,9,17,24,25,31,33,45,47,48,52,65,67	0	0	6	46	1.24	30	3.78	6	0.00	40	3.74	4	10.95	33	1.07	48
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	0	0	7	54	2.03	26	0.00	30	0.00	40	0.00	100	13.80	91	0.15	4
251	4,17,24,25,34,47,48,52,67,70,76,84	0	0	3	23	3.24	21	1.68	19	0.00	40	1.14	71	9.49	4	0.15	4
244	4,17,24,25,31,33,45,47,48,52,53,69,80	0	0	7	54	3.24	21	1.66	19	0.43	38	1.88	52	10.46	23	0.15	4
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	0	0	6	46	1.24	30	2.76	13	0.00	40	2.54	35	11.12	36	1.07	48
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	0	0	7	54	1.24	30	3.37	9	0.00	40	1.14	71	11.16	37	1.13	51
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	0	0	8	62	1.24	30	2.36	15	0.00	40	2.34	40	11.56	45	2.16	100
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	0	0	7	54	2.03	26	4.18	4	0.00	40	3.33	15	9.49	4	0.15	4
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	0	0	7	54	2.03	26	0.00	30	0.00	40	0.00	100	11.82	51	0.15	4
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	0	0	9	69	2.03	26	2.36	15	0.00	40	2.34	40	11.98	54	0.15	4
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	2	50	9	69	3.79	19	2.86	12	0.61	37	1.94	50	12.50	64	1.07	48
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	5	38	3.24	21	2.07	17	0.00	40	1.14	71	10.96	33	0.15	4
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	0	0	7	54	2.03	26	4.19	3	0.00	40	2.89	26	9.51	4	0.15	4
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	2	50	10	77	3.79	19	3.47	8	0.61	37	0.53	86	12.55	65	1.13	51
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	0	0	10	77	2.03	26	2.88	12	0.00	40	2.89	26	10.63	27	0.15	4
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	0	0	8	62	2.03	26	0.00	30	0.00	40	0.00	100	14.27	100	0.15	4
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	0	0	8	62	1.24	30	1.33	22	0.00	40	1.14	71	11.73	49	2.16	100
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	0	0	8	62	2.03	26	2.36	15	0.00	40	2.34	40	10.24	19	0.15	4
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	0	0	7	54	2.03	26	3.16	10	0.00	40	2.13	45	9.66	7	0.15	4
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	0	0	11	85	2.03	26	3.14	10	0.43	38	2.87	26	10.64	27	0.15	4
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	0	0	10	77	2.03	26	1.33	22	0.00	40	1.14	71	12.20	58	0.15	4
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	0	0	7	54	2.03	26	3.17	10	0.00	40	1.69	57	9.67	7	0.15	4
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	2	50	11	85	3.79	19	1.44	21	0.61	37	0.53	86	13.11	77	2.16	100
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	6	46	2.03	26	3.32	9	0.00	40	3.37	13	10.01	14	0.15	4
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	0	0	11	85	2.03	26	3.15	10	0.43	38	2.43	38	10.65	27	0.15	4
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	0	0	10	77	2.03	26	1.86	18	0.00	40	1.69	57	10.79	30	0.15	4

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	0	0	9	69	2.03	26	3.55	8	0.00	40	2.13	45	11.13	37	0.15	4
321	4,9,11,16,23,25,34,47,48,52,53,69,80	0	0	6	46	2.03	26	3.50	8	0.43	38	3.43	12	10.30	20	0.15	4
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	0	0	7	54	2.03	26	3.64	7	0.00	40	3.33	15	10.12	16	0.15	4
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	0	0	8	62	2.03	26	1.33	22	0.00	40	1.14	71	10.41	22	0.15	4
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	9	69	2.03	26	3.56	7	0.00	40	1.69	57	11.15	37	0.15	4
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	0	0	7	54	2.03	26	3.65	7	0.00	40	2.89	26	10.14	17	0.15	4
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	0	0	4	31	2.03	26	3.91	5	0.00	40	2.70	31	10.80	30	0.15	4
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	6	46	2.03	26	2.30	15	0.00	40	2.17	44	10.17	17	0.15	4
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	0	0	7	54	2.03	26	2.61	13	0.00	40	2.13	45	10.28	20	0.15	4
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	0	0	11	85	2.03	26	2.60	14	0.43	38	2.87	26	11.26	39	0.15	4
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	0	0	6	46	2.03	26	2.63	13	0.00	40	1.69	57	10.25	19	0.15	4
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	0	0	9	69	2.03	26	2.07	17	0.43	38	2.32	40	10.88	32	0.15	4
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	0	0	9	69	2.03	26	3.00	11	0.00	40	2.13	45	11.76	49	0.15	4
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	0	0	9	69	2.03	26	2.09	17	0.43	38	1.88	52	10.89	32	0.15	4
425	9,17,24,25,34,47,48,52,65,67,71,79,81	0	0	5	38	1.24	30	4.73	0	0.00	40	2.34	40	10.77	29	1.13	51
227	3,9,17,24,25,34,47,48,52,65,67	0	0	4	31	1.24	30	4.12	4	0.00	40	3.74	4	10.72	28	1.07	48
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	7	54	2.03	26	2.48	14	0.00	40	1.58	59	11.37	42	0.15	4
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	0	0	7	54	2.03	26	3.31	9	0.00	40	2.78	29	10.00	14	0.15	4
228	3,9,17,24,25,34,47,48,52,67,70,76,84	0	0	4	31	1.24	30	3.10	10	0.00	40	2.54	35	10.74	29	1.07	48
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	0	0	7	54	2.03	26	2.49	14	0.00	40	1.14	71	11.39	42	0.15	4
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	0	0	5	38	1.24	30	3.71	6	0.00	40	1.14	71	10.79	30	1.13	51
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	7	54	2.03	26	3.32	9	0.00	40	2.34	40	10.01	14	0.15	4
248	4,17,24,25,34,47,48,52,53,69,80	0	0	5	38	3.24	21	2.01	17	0.43	38	1.88	52	10.23	18	0.15	4
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	0	0	6	46	1.24	30	2.70	13	0.00	40	2.34	40	11.33	41	2.16	100
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	0	0	9	69	1.24	30	3.69	7	0.43	38	1.88	52	11.91	52	1.13	51
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	0	0	8	62	1.24	30	3.09	10	0.43	38	3.28	16	11.86	51	1.07	48
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	0	0	7	54	2.03	26	2.29	16	0.00	40	1.58	59	10.16	17	0.15	4
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	6	46	1.24	30	3.49	8	0.00	40	2.54	35	12.36	61	1.07	48
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	0	0	3	23	3.24	21	2.42	15	0.00	40	1.14	71	10.72	29	0.15	4
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	7	54	2.03	26	2.30	15	0.00	40	1.14	71	10.17	17	0.15	4
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	0	0	6	46	1.24	30	1.68	19	0.00	40	1.14	71	11.35	41	2.16	100
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	0	0	7	54	1.24	30	4.10	4	0.00	40	1.14	71	12.40	62	1.13	51
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	0	0	8	62	2.03	26	3.23	10	0.00	40	2.89	26	10.39	22	0.15	4
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	0	0	10	77	1.24	30	1.66	19	0.43	38	1.88	52	12.47	64	2.16	100
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	0	0	9	69	2.03	26	3.49	8	0.43	38	2.87	26	10.40	22	0.15	4
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	0	0	12	92	2.03	26	1.66	19	0.43	38	1.88	52	12.94	73	0.15	4
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	0	0	9	69	2.03	26	3.50	8	0.43	38	2.43	38	10.41	22	0.15	4
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	0	0	8	62	1.24	30	2.07	17	0.00	40	1.14	71	12.97	74	2.16	100
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	0	0	8	62	2.03	26	2.21	16	0.00	40	1.69	57	10.55	25	0.15	4
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	0	0	7	54	2.03	26	3.89	5	0.00	40	2.13	45	10.90	32	0.15	4
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	0	0	12	92	2.03	26	2.19	16	0.43	38	2.43	38	11.53	45	0.15	4
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	10	77	2.03	26	2.07	17	0.00	40	1.14	71	13.44	83	0.15	4
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	0	0	10	77	2.03	26	1.66	19	0.43	38	1.88	52	11.15	37	0.15	4
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	7	54	2.03	26	3.91	5	0.00	40	1.69	57	10.91	32	0.15	4
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	0	0	10	77	2.03	26	2.60	14	0.00	40	1.69	57	12.03	55	0.15	4
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	8	62	2.03	26	2.07	17	0.00	40	1.14	71	11.64	47	0.15	4
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	0	0	8	62	2.03	26	2.63	13	0.43	38	2.91	25	10.91	32	0.15	4
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	0	0	9	69	2.03	26	2.94	11	0.43	38	2.87	26	11.03	35	0.15	4
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	0	0	6	46	2.03	26	3.04	11	0.00	40	2.17	44	11.41	42	0.15	4
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	0	0	9	69	2.03	26	2.96	11	0.43	38	2.43	38	11.04	35	0.15	4
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	7	54	2.03	26	1.73	19	0.00	40	1.03	73	11.26	39	0.15	4

Routes	Study Segments	Technical															
		Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	0	0	7	54	2.03	26	3.35	9	0.00	40	2.13	45	11.52	45	0.15	4
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	0	0	7	54	2.03	26	3.36	9	0.00	40	1.69	57	11.54	45	0.15	4
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	8	62	2.03	26	1.73	19	0.00	40	1.03	73	11.51	44	0.15	4
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	0	0	7	54	1.24	30	4.04	4	0.43	38	1.88	52	11.67	48	1.13	51
226	3,9,17,24,25,34,47,48,52,53,69,80	0	0	6	46	1.24	30	3.43	8	0.43	38	3.28	16	11.62	47	1.07	48
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	0	0	9	69	2.03	26	2.62	13	0.43	38	2.32	40	10.90	32	0.15	4
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	0	0	4	31	1.24	30	3.84	6	0.00	40	2.54	35	12.12	57	1.07	48
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	0	0	5	38	1.24	30	4.45	2	0.00	40	1.14	71	12.17	58	1.13	51
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	0	0	9	69	2.03	26	2.63	13	0.43	38	1.88	52	10.92	32	0.15	4
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	7	54	2.03	26	3.02	11	0.00	40	1.58	59	11.40	42	0.15	4
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	5	38	2.03	26	0.97	24	0.00	40	1.03	73	10.97	33	0.15	4
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	8	62	2.03	26	1.71	19	0.00	40	0.44	89	11.25	39	0.15	4
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	0	0	8	62	1.24	30	2.01	17	0.43	38	1.88	52	12.23	59	2.16	100
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	0	0	7	54	2.03	26	3.04	11	0.00	40	1.14	71	11.41	42	0.15	4
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	8	62	2.03	26	1.73	19	0.00	40	0.00	100	11.26	39	0.15	4
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	0	0	6	46	1.24	30	2.42	15	0.00	40	1.14	71	12.73	69	2.16	100
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0	0	6	46	2.03	26	0.97	24	0.00	40	1.03	73	13.42	83	0.15	4
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	6	46	2.03	26	0.97	24	0.00	40	1.03	73	11.22	39	0.15	4
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	9	69	2.03	26	1.71	19	0.00	40	0.44	89	11.50	44	0.15	4
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	0	0	10	77	2.03	26	2.53	14	0.43	38	2.43	38	11.30	40	0.15	4
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	9	69	2.03	26	1.73	19	0.00	40	0.00	100	11.51	44	0.15	4
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	0	0	8	62	2.03	26	2.94	11	0.00	40	1.69	57	11.79	50	0.15	4
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0	0	7	54	2.03	26	0.97	24	0.00	40	1.03	73	13.67	88	0.15	4
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	0	0	6	46	2.03	26	0.95	24	0.00	40	0.44	89	10.96	33	0.15	4
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	6	46	2.03	26	0.96	24	0.00	40	0.00	100	10.97	34	0.15	4
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0	0	7	54	2.03	26	0.95	24	0.00	40	0.44	89	13.41	83	0.15	4
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	0	0	7	54	2.03	26	0.95	24	0.00	40	0.44	89	11.21	38	0.15	4
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0	0	7	54	2.03	26	0.96	24	0.00	40	0.00	100	13.42	83	0.15	4
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	7	54	2.03	26	0.96	24	0.00	40	0.00	100	11.23	39	0.15	4
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0	0	8	62	2.03	26	0.95	24	0.00	40	0.44	89	13.66	88	0.15	4
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0	0	8	62	2.03	26	0.96	24	0.00	40	0.00	100	13.68	88	0.15	4
	MIN	0	0	0	0	1	0	0.00	0	0.00	0	0.00	0	9.31	0	0.07	0
	MAX	4	100	13	100	8	30	4.73	30	9.07	40	3.89	100	14.27	100	2.16	100
	RANGE	4	100	13	100	7	30	4.73	30	9.07	40	3.89	100	4.96	100	2.08	100

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
382	5,35,36,37,50,69,75,80	2.6	16.0	13.5	51.8	18.1	1
252	4,17,32,37,50,69,75,80	8.4	16.0	10.6	50.0	18.4	2
392	5,35,38,64,71,73	12.7	0.0	16.2	42.4	18.8	3
388	5,35,38,49,50,69,75,80	2.9	16.0	16.6	51.2	19.4	4
384	5,35,36,37,64,71,72,74,75	11.3	0.0	13.8	57.6	20.4	5
267	4,17,32,37,64,71,72,74,75	17.1	0.0	10.9	55.8	20.6	6
378	5,35,36,37,49,64,71,73	12.3	0.0	14.8	55.9	20.8	7
261	4,17,32,37,49,64,71,73	18.1	0.0	11.9	54.1	21.0	8
383	5,35,36,37,63,74,75,80	7.0	27.0	17.9	46.8	21.3	9
266	4,17,32,37,63,74,75,80	12.8	27.0	15.0	45.0	21.6	10
394	5,60,62,64	25.0	0.0	10.7	48.9	21.6	11
390	5,35,38,49,64,71,72,74,75	11.7	0.0	16.9	56.9	21.6	12
393	5,60,61,64	25.0	0.0	11.3	50.5	22.1	13
259	4,17,32,36,38,64,71,73	18.5	0.0	14.7	53.4	22.1	14
256	4,17,32,36,38,49,50,69,75,80	8.7	16.0	14.6	62.2	22.5	15
389	5,35,38,49,63,74,75,80	7.4	27.0	21.0	46.1	22.6	16
391	5,35,38,63,72,73,80	8.4	27.0	21.9	44.4	22.9	17
380	5,35,36,37,50,53,65,67,75	27.8	19.0	13.8	38.1	23.4	18
263	4,17,32,37,50,53,65,67,75	33.6	19.0	10.9	36.3	23.6	19
241	3,9,17,32,37,50,69,75,80	8.5	55.0	15.1	48.6	23.8	20
381	5,35,36,37,50,53,67,70,75,76,84	28.2	4.0	14.6	47.9	24.3	21
413	9,17,32,37,50,69,75,79,80,81	9.7	55.0	10.8	58.1	24.4	22
264	4,17,32,37,50,53,67,70,75,76,84	34.0	4.0	11.7	46.1	24.5	23
386	5,35,38,49,50,53,65,67,75	28.2	19.0	16.9	37.5	24.6	24
258	4,17,32,36,38,49,64,71,72,74,75	17.5	0.0	14.8	67.9	24.8	25
377	5,35,36,37,49,63,72,73,80	8.1	27.0	20.4	57.9	24.9	26
260	4,17,32,37,49,63,72,73,80	13.9	27.0	17.5	56.1	25.1	27
118	2,8,9,17,32,37,50,69,75,80,81	15.7	16.0	14.6	66.6	25.5	28
387	5,35,38,49,50,53,67,70,75,76,84	28.6	4.0	17.7	47.3	25.5	29
257	4,17,32,36,38,49,63,34,74,75,80	13.2	27.0	19.0	57.1	25.7	30
243	3,9,17,32,37,64,71,72,74,75	17.2	39.0	15.4	54.4	26.1	31
253	4,17,32,36,38,36,34,72,73,80	14.2	27.0	20.3	55.4	26.2	32
237	3,9,17,32,37,49,64,71,73	18.2	39.0	16.4	52.6	26.4	33
408	9,17,32,37,64,71,72,74,75,79,81	18.4	39.0	11.1	63.9	26.6	34
242	3,9,17,32,37,63,74,75,80	13.0	66.0	19.5	43.5	27.0	35
407	9,17,32,37,49,64,71,73,79,81	19.5	39.0	12.1	62.1	27.0	36
235	3,9,17,32,36,38,64,71,73	18.6	39.0	19.2	52.0	27.5	37
410	9,17,32,37,63,74,75,79,80,81	14.2	66.0	15.2	53.0	27.6	38
254	4,17,32,36,38,49,50,53,65,67,75	34.0	19.0	14.8	48.5	27.7	39
120	2,8,9,17,32,37,64,71,72,74,75,81	24.4	0.0	14.9	72.4	27.8	40
232	3,9,17,32,36,38,49,50,69,75,80	8.9	55.0	19.0	60.7	27.9	41
406	9,17,32,36,38,64,71,73,79,81	19.8	39.0	14.9	61.5	28.1	42
114	2,8,9,17,32,37,49,64,71,73,81	25.4	0.0	15.9	70.7	28.1	43

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
414	9,17,32,36,38,49,50,69,75,71,79,80,81	10.1	55.0	14.8	70.2	28.5	44
255	4,17,32,36,38,49,50,53,67,70,75,76,84	34.4	4.0	15.7	58.3	28.6	45
119	2,8,9,17,32,37,63,74,75,80,81	20.1	27.0	19.1	61.6	28.7	46
240	3,9,17,32,37,50,53,65,67,75	33.7	58.0	15.4	34.9	29.0	47
112	2,8,9,17,32,36,38,64,71,73,81	25.8	0.0	18.7	70.0	29.2	48
415	9,17,32,37,50,53,65,67,71,75,79,81	35.0	58.0	10.6	44.4	29.4	49
109	2,8,9,17,32,36,38,49,50,69,75,71,80,81	16.0	16.0	18.6	78.8	29.6	50
238	3,9,17,32,37,50,35,67,70,75,76,84	34.1	43.0	16.2	44.7	30.0	51
319	4,9,11,16,23,25,31,33,45,47,48,52,65,67	34.0	30.0	28.9	26.1	30.0	52
233	3,9,17,32,36,38,49,64,71,72,74,75	17.6	39.0	19.3	66.5	30.2	53
417	9,17,32,37,50,35,67,70,75,71,76,79,81,84	35.4	43.0	11.4	54.2	30.3	54
379	5,35,36,37,50,53,55,59,66,67,70,75,84	32.9	4.0	25.2	50.5	30.5	55
117	2,8,9,17,32,37,50,53,65,67,71,75,81	40.9	19.0	14.4	52.9	30.5	56
236	3,9,17,32,37,49,63,72,73,80	14.0	66.0	22.0	54.7	30.5	57
262	4,17,32,37,50,53,55,59,66,67,70,75,84	38.7	4.0	22.4	48.7	30.7	58
409	9,17,32,36,38,49,64,71,72,74,75,79,81	18.8	39.0	15.0	76.0	30.8	59
320	4,9,11,16,23,25,31,33,45,47,48,52,67,70,76,84	34.3	15.0	30.3	35.9	31.1	60
412	9,17,32,37,49,63,72,73,79,80,81	15.2	66.0	17.7	64.2	31.1	61
115	2,8,9,17,32,37,50,35,67,70,75,71,76,81,84	41.3	4.0	15.2	62.7	31.4	62
234	3,9,17,32,36,38,63,72,73,80	14.4	66.0	24.8	54.0	31.6	63
385	5,35,38,49,50,53,55,59,66,67,70,75,84	33.3	4.0	28.4	49.8	31.7	64
110	2,8,9,17,32,36,38,49,64,71,72,74,75,81	24.8	0.0	18.8	84.5	31.9	65
411	9,17,32,36,38,63,72,73,79,80,81	15.6	66.0	20.5	63.5	32.2	66
113	2,8,9,17,32,37,49,63,72,73,80,81	21.2	27.0	21.6	72.7	32.2	67
246	4,17,24,25,31,33,45,47,48,52,65,67	51.1	30.0	19.0	35.7	33.1	68
230	3,9,17,32,36,38,49,50,53,65,67,75	34.1	58.0	19.3	47.0	33.2	69
111	2,8,9,17,32,36,38,63,72,73,80,81	21.5	27.0	24.4	72.0	33.3	70
416	9,17,32,36,38,49,50,53,65,67,71,75,79,81	35.3	58.0	14.5	56.5	33.5	71
306	4,9,11,14,20,29,43,44,55,67,70,76,83	48.3	0.0	19.6	56.1	33.5	72
354	4,9,14,20,29,43,44,55,67,70,76,78,81	47.6	0.0	19.7	58.9	33.9	73
231	3,9,17,32,36,38,49,50,53,67,70,75,76,84	34.5	43.0	20.1	56.8	34.1	74
247	4,17,24,25,31,33,47,48,52,67,70,76,84	51.5	15.0	20.3	45.5	34.2	75
303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	48.3	0.0	20.7	58.0	34.4	76
418	9,17,32,36,38,49,50,53,67,70,71,75,76,79,81,84	35.7	43.0	15.4	66.3	34.4	77
107	2,8,9,17,32,36,38,49,50,53,65,67,71,75,81	41.3	19.0	18.4	65.1	34.7	78
337	4,9,11,23,25,31,33,45,47,48,52,65,67,77,82,83	38.1	30.0	33.8	33.5	34.7	79
338	4,9,11,23,25,31,33,45,47,48,52,65,6777,82,83	38.1	30.0	33.8	33.5	34.7	79
351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	47.6	0.0	20.8	60.9	34.8	81
371	4,9,23,25,31,33,45,47,48,52,65,67,77,78,81,82	37.4	30.0	33.9	36.4	35.1	82
323	4,9,11,16,23,25,34,47,48,52,65,67	39.9	30.0	39.6	22.5	35.3	83
276	4,7,8,9,13,28,43,44,55,67,70,76,81	49.8	0.0	18.8	64.4	35.3	84
108	2,8,9,17,32,36,38,49,50,53,67,70,71,75,76,81,84	41.7	4.0	19.2	74.9	35.5	85
339	4,9,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	38.5	15.0	35.2	43.3	35.8	86
239	3,9,17,32,37,50,53,55,59,66,67,70,75,84	38.9	43.0	26.3	47.3	35.9	87
372	4,9,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	37.7	15.0	35.3	46.2	36.2	88
307	4,9,11,14,20,29,43,44,59,66,67,70,83	53.1	0.0	23.6	54.1	36.2	89
419	9,17,32,37,50,53,55,59,66,67,70,71,75,79,81,84	40.1	43.0	21.6	56.8	36.3	90
324	4,9,11,16,23,25,34,47,48,52,67,70,76,84	40.2	15.0	40.9	32.3	36.4	91
358	4,9,16,23,25,31,33,45,47,48,52,53,69,80	48.3	31.0	29.9	34.7	36.5	92

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
292	4,9,11,14,15,18,23,25,31,33,45,47,48,52,65,67,82,83	34.8	30.0	39.5	36.3	36.5	93
355	4,9,14,20,29,43,44,59,66,67,70,78,81	52.3	0.0	23.7	57.0	36.6	94
356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	35.2	15.0	43.2	38.0	36.9	95
305	4,9,11,14,20,29,42,43,57,58,66,67,70,83	41.5	0.0	30.0	62.7	37.0	96
304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	53.1	0.0	24.7	56.0	37.0	97
300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	35.9	15.0	43.3	37.1	37.0	98
318	4,9,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	39.0	15.0	40.4	38.5	37.1	99
273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	49.8	0.0	22.6	66.9	37.4	100
353	4,9,14,20,29,42,43,57,58,66,67,70,78,81	40.8	0.0	30.1	65.5	37.4	101
352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	52.3	0.0	24.8	58.9	37.4	102
116	2,8,9,17,32,37,50,53,55,59,66,67,70,71,75,81,84	46.0	4.0	25.4	65.3	37.4	103
293	4,9,11,14,15,18,23,25,31,33,47,48,52,67,70,76,82,83,84	35.2	15.0	40.9	46.1	37.6	104
277	4,7,8,9,13,28,43,44,59,66,67,70,81	54.5	0.0	22.8	62.4	38.0	105
302	4,9,11,14,20,22,28,42,43,57,58,66,67,70,83	41.5	0.0	31.6	64.6	38.0	106
301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	36.3	0.0	44.6	46.9	38.1	107
250	4,17,24,25,34,47,48,52,65,67	57.0	30.0	29.7	32.1	38.4	108
350	4,9,14,20,22,28,42,43,57,58,66,67,70,78,81	40.8	0.0	31.7	67.5	38.4	109
349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	35.5	0.0	44.7	49.8	38.5	110
426	9,17,24,25,31,33,45,47,48,52,65,67,71,79,81	52.5	69.0	18.2	43.8	38.7	111
224	3,9,17,24,25,31,33,45,47,48,52,65,67	51.2	69.0	24.0	34.3	38.7	112
275	4,7,8,9,13,28,42,43,57,58,66,67,70,81	43.0	0.0	29.7	71.0	39.0	113
251	4,17,24,25,34,47,48,52,67,70,76,84	57.4	15.0	31.0	41.9	39.5	114
244	4,17,24,25,31,33,45,47,48,52,53,69,80	65.4	31.0	20.0	44.3	39.6	115
225	3,9,17,24,25,31,33,45,47,48,52,67,70,76,84	51.6	54.0	24.8	44.1	39.6	116
427	9,17,24,25,31,33,45,47,48,52,67,70,71,76,79,81,84	52.8	54.0	19.5	53.6	39.8	117
102	2,8,9,17,24,25,31,33,45,47,48,52,65,67,71,81	58.4	30.0	22.1	52.3	39.8	118
342	4,9,11,23,25,34,47,48,52,65,67,77,82,83	44.0	30.0	44.5	29.9	40.0	119
274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	54.5	0.0	26.6	65.0	40.0	120
270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	49.4	15.0	34.8	49.0	40.0	121
229	3,9,17,32,36,38,49,50,53,55,59,66,67,70,75,84	39.2	43.0	30.3	59.4	40.1	122
245	4,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	56.2	15.0	31.0	48.1	40.4	123
375	4,9,23,25,34,47,48,52,65,67,77,78,81,82	43.3	30.0	44.6	32.8	40.4	124
420	9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,79,81,84	40.5	43.0	25.5	68.9	40.4	125
282	4,8,9,10,15,18,23,25,31,33,45,47,48,52,65,67,81,82	43.1	30.0	40.9	41.7	40.6	126
272	4,7,8,9,13,22,29,42,43,57,58,66,67,70,81	43.0	0.0	33.0	73.5	40.8	127
103	2,8,9,17,24,25,31,33,45,47,48,52,67,70,71,76,81,84	58.8	15.0	23.4	62.1	40.9	128
288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	44.2	15.0	44.2	42.6	41.0	129
343	4,9,11,23,25,34,47,48,52,67,70,76,77,82,83,84	44.4	15.0	45.8	39.7	41.1	130
335	4,9,11,23,25,31,33,45,47,48,52,53,69,77,80,82,83	52.4	31.0	34.8	42.1	41.2	131
271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	49.7	0.0	36.1	60.1	41.4	132
376	4,9,23,25,34,47,48,52,67,70,76,77,78,81,82,84	43.6	15.0	45.9	42.6	41.5	133
121	2.8.9,17,32,36,38,49,50,53,55,59,66,67,70,71,75,81,84	46.4	4.0	29.3	77.4	41.5	134
316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	35.1	15.0	58.1	31.4	41.5	135
369	4,9,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	51.7	31.0	34.9	45.0	41.6	136
283	4,8,9,10,15,18,23,25,31,33,45,47,48,52,67,70,76,81,82,84	43.4	15.0	42.2	51.5	41.7	137

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
336	4,9,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	43.2	15.0	45.3	45.9	41.8	138
321	4,9,11,16,23,25,34,47,48,52,53,69,80	54.2	31.0	40.5	31.2	41.8	139
296	4,9,11,14,15,18,23,25,34,47,48,52,65,67,82,83	40.7	30.0	50.2	32.7	41.8	140
289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	44.5	0.0	45.5	52.4	42.0	141
370	4,9,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	42.4	15.0	45.4	48.8	42.1	142
357	4,9,15,18,23,34,47,48,52,62,67,78,81,82	40.0	30.0	50.3	35.6	42.2	143
322	4,9,11,16,23,25,34,47,48,52,55,59,66,67,70,84	44.9	15.0	51.0	34.9	42.4	144
317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	35.4	0.0	59.4	41.2	42.6	145
297	4,9,11,14,15,18,23,25,34,47,48,52,67,70,76,82,83,84	41.1	15.0	51.5	42.5	42.9	146
290	4,9,11,14,15,18,23,25,31,33,45,47,48,52,53,69,80,82,83	49.1	31.0	40.5	44.9	43.0	147
346	4,9,14,15,18,23,25,34,48,52,67,70,76,78,81,84	40.3	15.0	51.6	44.0	43.0	148
298	4,9,11,14,15,19,30,33,45,47,48,52,53,69,80,83	50.2	16.0	44.2	45.8	43.5	149
291	4,9,11,14,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,82,83,84	39.9	15.0	51.0	48.6	43.6	150
347	4,9,14,15,19,30,33,45,47,48,52,53,69,78,80,81	49.5	16.0	44.4	48.6	43.9	151
425	9,17,24,25,34,47,48,52,65,67,71,79,81	58.4	69.0	28.9	40.2	44.0	152
227	3,9,17,24,25,34,47,48,52,65,67	57.1	69.0	34.6	30.7	44.0	153
299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	41.0	0.0	54.8	49.5	44.1	154
333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	39.2	15.0	59.2	36.4	44.2	155
228	3,9,17,24,25,34,47,48,52,67,70,76,84	57.5	54.0	34.4	40.1	44.4	156
348	4,9,14,15,19,30,33,45,47,48,52,55,59,66,57,70,78,81,84	40.3	0.0	54.9	52.4	44.5	157
424	9,17,24,25,34,47,48,52,67,70,71,76,79,81,84	58.7	54.0	29.2	49.6	44.6	158
366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	38.5	15.0	59.3	39.2	44.6	159
248	4,17,24,25,34,47,48,52,53,69,80	71.3	31.0	30.6	40.8	44.9	160
105	2,8,9,17,24,25,34,47,48,52,65,67,71,81	64.3	30.0	32.7	48.7	45.1	161
422	9,14,24,25,34,33,45,47,48,52,53,69,71,79,80,81	66.8	70.0	19.2	52.4	45.2	162
221	3,9,14,24,25,34,33,45,47,48,52,53,69,80	65.6	70.0	24.9	42.9	45.2	163
334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	39.6	0.0	60.6	46.2	45.3	164
223	3,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,84	56.3	54.0	35.0	46.7	45.6	165
249	4,17,24,25,34,47,48,52,55,59,66,67,70,84	62.1	15.0	41.6	44.5	45.7	166
367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	38.8	0.0	60.7	49.0	45.7	167
106	2,8,9,17,24,25,34,47,48,52,67,70,71,76,81,84	64.7	15.0	33.0	58.1	45.7	168
428	9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,79,81,84	57.5	54.0	29.7	56.1	45.8	169
284	4,8,9,10,15,18,23,25,34,47,48,52,65,67,81,82	49.0	30.0	51.6	38.2	45.9	170
99	2,8,9,14,24,25,34,33,45,47,48,52,53,69,71,80,81	72.7	31.0	23.0	60.9	46.3	171
340	4,9,11,23,25,34,47,48,52,53,69,77,80,82,83	58.3	31.0	45.4	38.6	46.5	172
268	4,7,8,9,13,21,22,30,33,45,47,48,52,53,69,80,81	63.7	16.0	35.7	59.0	46.8	173
373	4,9,23,25,34,47,48,52,53,69,77,78,80,81,82	57.6	31.0	45.5	41.4	46.9	174
101	2,8,9,17,24,25,31,33,45,47,48,52,55,59,66,67,70,71,81,84	63.5	15.0	33.5	64.7	46.9	175
285	4,8,9,10,15,18,23,25,34,47,48,52,67,70,76,81,82,84	49.3	15.0	52.9	47.9	47.0	176
341	4,9,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	49.1	15.0	55.9	42.3	47.1	177
280	4,8,9,10,15,18,23,25,31,33,45,47,48,52,53,69,80,81,82	57.4	31.0	41.9	50.4	47.1	178
269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	54.4	0.0	45.8	62.7	47.2	179
287	4,8,9,10,15,19,30,33,45,47,48,52,53,69,80,81	58.5	16.0	45.1	51.2	47.5	180
374	4,9,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	48.4	15.0	56.0	45.2	47.5	181
281	4,8,9,10,15,18,23,25,31,33,45,47,48,52,55,59,66,67,70,81,82,84	48.1	15.0	52.4	54.1	47.7	182
278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	49.2	0.0	55.7	55.0	48.0	183
314	4,9,11,16,18,19,30,33,45,47,48,52,53,69,80,82	49.4	16.0	59.0	40.0	48.0	184
294	4,9,11,14,15,18,23,25,34,47,48,52,53,69,80,82,83	55.0	31.0	51.1	41.3	48.3	185
315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	40.1	0.0	69.6	43.8	48.6	186
345	4,9,14,15,18,23,25,34,47,48,52,69,78,80,81,82	54.3	31.0	51.2	44.2	48.7	187
312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	48.3	0.0	59.0	53.9	48.9	188

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
295	4,9,11,14,15,18,23,25,34,47,48,52,55,59,66,67,70,82,83,84	45.8	15.0	61.6	45.1	48.9	189
344	4,9,14,15,18,23,25,34,47,48,52,55,59,66,67,70,78,81,82,84	45.1	15.0	61.7	47.9	49.3	190
309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	48.3	0.0	60.2	55.8	49.7	191
421	9,17,24,25,34,47,48,52,53,69,71,79,80,81	72.7	70.0	29.8	48.8	50.5	192
226	3,9,17,24,25,34,47,48,52,53,69,80	71.5	70.0	35.6	39.3	50.5	193
331	4,9,11,18,19,30,33,45,47,48,52,53,69,77,80,83	53.5	16.0	60.2	45.0	50.7	194
222	3,9,14,2425,34,47,48,52,55,59,66,67,70,84	62.2	54.0	45.6	43.1	50.9	195
423	9,14,2425,34,47,48,52,55,59,66,67,70,71,79,81,84	63.4	54.0	40.3	52.6	51.1	196
365	4,9,18,19,30,33,45,47,48,52,53,69,77,78,80,81	52.8	16.0	60.3	47.8	51.1	197
332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	44.3	0.0	70.7	48.7	51.3	198
313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	53.0	0.0	63.0	51.9	51.5	199
329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	52.4	0.0	60.2	58.8	51.6	200
104	2,8,9,17,24,25,34,47,48,52,53,69,71,80,81	78.6	31.0	33.6	57.4	51.6	201
368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	43.6	0.0	70.8	51.6	51.7	202
363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	51.7	0.0	60.3	61.7	52.0	203
100	2,8,9,14,2425,34,47,48,52,55,59,66,67,70,71,81,84	69.4	15.0	44.2	61.1	52.2	204
311	4,9,11,16,18,19,21,29,42,43,57,58,66,67,70,82	41.5	0.0	69.4	60.5	52.3	205
310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	53.0	0.0	64.2	53.8	52.3	206
326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	52.4	0.0	61.3	60.7	52.4	207
286	4,8,9,10,15,18,23,25,34,47,48,52,69,80,81,82	63.3	31.0	52.5	46.8	52.4	208
360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	51.7	0.0	61.4	63.6	52.8	209
279	4,8,9,10,15,18,23,25,,34,47,48,52,55,59,66,67,70,81,82,84	54.0	15.0	63.0	50.5	53.0	210
308	4,9,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	41.5	0.0	71.1	62.4	53.4	211
330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	57.1	0.0	64.2	56.9	54.2	212
364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	56.4	0.0	64.3	59.7	54.6	213
328	4,9,11,18,19,21,29,42,43,57,58,66,67,70,77,83	45.6	0.0	70.6	65.4	55.0	214
327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	57.1	0.0	65.3	58.8	55.0	215
362	4,9,18,19,21,29,42,43,57,58,66,67,70,77,78,81	44.9	0.0	70.7	68.3	55.4	216
361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	56.4	0.0	65.4	61.6	55.4	217
325	4,9,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	45.6	0.0	72.2	67.3	56.0	218
359	4,9,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	44.9	0.0	72.3	70.2	56.4	219
	MIN						
	MAX						
	RANGE						

Appendix E: Central Corridor Route Scoring

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	6.31	50	0.33	0	3	0	1	100	2	100	3	20	0	0
149	3,11,16,23,25,31,33,45,47,48,52,65,67	5.98	47	0.33	0	3	0	1	100	2	100	3	20	0	0
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	6.39	51	0.33	0	3	0	1	100	1	50	3	20	0	0
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	6.07	48	0.33	0	3	0	1	100	1	50	3	20	0	0
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	7.47	60	0.49	5	3	0	0	0	2	100	2	0	0	0
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	7.56	61	0.49	5	3	0	0	0	1	50	2	0	0	0
500	14,20,29,43,44,55,67,70,76,78,79	2.70	19	2.25	61	4	50	1	100	0	0	3	20	0	0
450	23,25,31,33,45,47,48,52,65,67,77,78,82	6.31	50	0.71	12	3	0	1	100	2	100	3	20	0	0
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	6.31	50	0.78	15	3	0	1	100	2	100	3	20	0	0
497	11,14,20,29,43,44,55,67,70,76,79,81,83	2.70	19	2.33	64	4	50	1	100	0	0	3	20	0	0
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	9.41	77	0.60	9	3	0	1	100	1	50	7	100	0	0
18	2,7,13,28,43,44,55,67,70,76	4.54	35	2.23	61	4	50	0	0	0	0	2	0	0	0
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	6.39	51	0.71	12	3	0	1	100	1	50	3	20	0	0
430	11,16,23,25,34,47,48,52,65,67,79,81	7.76	63	0.37	1	3	0	1	100	2	100	3	20	0	0
136	3,11,14,20,29,43,44,55,67,70,76,83	2.37	16	2.33	64	4	50	1	100	0	0	3	20	0	0
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	6.39	51	0.78	15	3	0	1	100	1	50	3	20	0	0
506	14,20,22,28,43,44,55,67,70,76,78,79	2.70	19	2.25	61	4	50	1	100	0	0	3	20	0	0
151	3,11,16,23,25,31,33,45,47,52,53,69,80	9.08	74	0.60	9	3	0	1	100	1	50	7	100	0	0
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	5.98	47	0.79	15	3	0	1	100	2	100	3	20	0	0
181	3,14,20,29,43,44,55,67,70,76,78,81	2.37	16	2.25	61	4	50	1	100	0	0	3	20	0	0
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	2.70	19	2.33	64	4	50	1	100	0	0	3	20	0	0
154	3,11,16,23,25,34,47,48,52,65,67	7.44	60	0.37	1	3	0	1	100	2	100	3	20	0	0
470	14,15,19,30,33,45,47,48,52,65,67,78,79	6.31	50	0.47	4	3	0	1	100	1	50	3	20	0	0
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	6.07	48	0.79	15	3	0	1	100	1	50	3	20	0	0
525	7,8,13,28,43,44,55,67,70,76,79	3.37	25	2.20	60	4	50	1	100	0	0	3	20	0	0
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	6.31	50	0.54	7	3	0	1	100	1	50	3	20	0	0
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	5.98	47	0.71	12	3	0	1	100	2	100	3	20	0	0
133	3,11,14,20,22,28,43,44,55,67,70,76,83	2.37	16	2.33	64	4	50	1	100	0	0	3	20	0	0
155	3,11,16,23,25,34,47,48,52,67,70,76,84	7.53	61	0.37	1	3	0	1	100	1	50	3	20	0	0
431	11,16,23,25,34,47,48,52,67,70,76,84	7.53	61	0.37	1	3	0	1	100	1	50	3	20	0	0
80	2,8,14,20,29,43,44,55,67,70,76,78	3.86	29	2.41	67	4	50	0	0	0	0	2	0	0	0
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	6.07	48	0.71	12	3	0	1	100	1	50	3	20	0	0
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	7.47	60	0.87	17	3	0	0	0	2	100	2	0	0	0
178	3,14,20,22,28,43,44,55,67,70,76,78,81	2.37	16	2.25	61	4	50	1	100	0	0	3	20	0	0
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	6.39	51	0.47	4	3	0	1	100	0	0	3	20	0	0
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	7.47	60	0.95	20	3	0	0	0	2	100	2	0	0	0
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	6.39	51	0.54	7	3	0	1	100	0	0	3	20	0	0
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	47	0.55	7	3	0	1	100	1	50	3	20	0	0
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3.86	29	2.49	69	4	50	0	0	0	0	2	0	0	0
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	10.58	87	0.76	14	3	0	0	0	1	50	6	80	0	0
203	3,7,8,13,28,43,44,55,67,70,76,81	3.05	22	2.21	60	4	50	1	100	0	0	3	20	0	0
15	2,10,20,29,43,44,55,67,70,76	3.86	29	2.16	59	5	100	0	0	0	0	2	0	0	0
501	14,20,29,43,44,59,66,67,70,78,79	2.70	19	2.77	78	4	50	1	100	0	0	3	20	0	0
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	48	0.55	7	3	0	1	100	0	0	3	20	0	0
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	7.56	61	0.87	17	3	0	0	0	1	50	2	0	0	0
53	2,8,11,16,23,25,34,47,48,52,65,67,81	8.93	73	0.53	6	3	0	0	0	2	100	2	0	0	0
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	5.98	47	0.47	4	3	0	1	100	1	50	3	20	0	0
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	7.56	61	0.95	20	3	0	0	0	1	50	2	0	0	0
77	2,8,14,20,22,28,43,44,55,67,70,76,78	3.86	29	2.41	67	4	50	0	0	0	0	2	0	0	0
498	11,14,20,29,43,44,59,66,67,70,79,81,83	2.70	19	2.84	80	4	50	1	100	0	0	3	20	0	0
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	3.86	29	2.49	69	4	50	0	0	0	0	2	0	0	0
502	14,20,29,42,43,57,58,66,67,70,78,79	0.84	3	2.28	62	4	50	1	100	0	0	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	6.07	48	0.47	4	3	0	1	100	0	0	3	20	0	0
19	2,7,13,28,43,44,59,66,67,70	4.54	35	2.75	77	4	50	0	0	0	0	2	0	0	0
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	7.47	60	0.63	9	3	0	0	0	1	50	2	0	0	0
519	8,10,20,29,43,44,55,67,70,76,79	2.70	19	2.14	58	5	100	1	100	0	0	3	20	0	0
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	7.47	60	0.71	12	3	0	0	0	1	50	2	0	0	0
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	9.02	74	0.53	6	3	0	0	0	1	50	2	0	0	0
137	3,11,14,20,29,43,44,59,66,67,70,83	2.37	16	2.85	81	4	50	1	100	0	0	3	20	0	0
12	2,10,20,22,28,43,44,55,67,70,76	3.86	29	2.16	59	5	100	0	0	0	0	2	0	0	0
507	14,20,22,28,43,44,59,66,67,70,78,79	2.70	19	2.77	78	4	50	1	100	0	0	3	20	0	0
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	0.84	3	2.36	65	4	50	1	100	0	0	3	20	0	0
9	2,10,15,19,30,33,45,47,48,52,65,67	7.47	60	0.38	2	4	50	0	0	1	50	2	0	0	0
182	3,14,20,29,43,44,59,66,67,70,78,81	2.37	16	2.77	78	4	50	1	100	0	0	3	20	0	0
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	2.70	19	2.84	80	4	50	1	100	0	0	3	20	0	0
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	7.56	61	0.63	9	3	0	0	0	0	0	2	0	0	0
526	7,8,13,28,43,44,59,66,67,70,79	3.37	25	2.72	77	4	50	1	100	0	0	3	20	0	0
135	3,11,14,20,29,42,43,57,58,66,67,70,83	0.51	0	2.36	65	4	50	1	100	0	0	3	20	0	0
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	7.56	61	0.71	12	3	0	0	0	0	0	2	0	0	0
17	2,7,13,28,42,43,57,58,66,67,70	2.68	19	2.26	62	4	50	0	0	0	0	2	0	0	0
522	8,10,20,22,28,43,44,55,67,70,76,79	2.70	19	2.14	58	5	100	1	100	0	0	3	20	0	0
219	3,8,10,20,29,43,44,55,67,70,76,81	2.37	16	2.14	58	5	100	1	100	0	0	3	20	0	0
134	3,11,14,20,22,28,43,44,59,66,67,70,83	2.37	16	2.85	81	4	50	1	100	0	0	3	20	0	0
508	14,20,22,28,42,43,57,58,66,67,70,78,79	0.84	3	2.28	62	4	50	1	100	0	0	3	20	0	0
180	3,14,20,29,42,43,57,58,66,67,70,78,81	0.51	0	2.28	63	4	50	1	100	0	0	3	20	0	0
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	7.56	61	0.38	2	4	50	0	0	0	0	2	0	0	0
81	2,8,14,20,29,43,44,59,66,67,70,78	3.86	29	2.93	83	4	50	0	0	0	0	2	0	0	0
510	8,10,15,19,30,33,45,47,48,52,65,67,79	6.31	50	0.36	1	4	50	1	100	1	50	3	20	0	0
179	3,14,20,22,28,43,44,59,66,67,70,78,81	2.37	16	2.77	78	4	50	1	100	0	0	3	20	0	0
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	0.84	3	2.36	65	4	50	1	100	0	0	3	20	0	0
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3.86	29	3.01	86	4	50	0	0	0	0	2	0	0	0
527	7,8,13,28,42,43,57,58,66,67,70,79	1.51	9	2.24	61	4	50	1	100	0	0	3	20	0	0
204	3,7,8,13,28,43,44,59,66,67,70,81	3.05	22	2.72	77	4	50	1	100	0	0	3	20	0	0
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	9.41	77	0.97	20	3	0	1	100	1	50	7	100	0	0
79	2,8,14,20,29,42,43,57,58,66,67,70,78	2.00	13	2.44	68	4	50	0	0	0	0	2	0	0	0
216	3,8,10,20,22,28,43,44,55,67,70,76,81	2.37	16	2.14	58	5	100	1	100	0	0	3	20	0	0
16	2,10,20,29,43,44,59,66,67,70	3.86	29	2.68	75	5	100	0	0	0	0	2	0	0	0
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	0.51	0	2.36	65	4	50	1	100	0	0	3	20	0	0
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	9.41	77	1.05	23	3	0	1	100	1	50	7	100	0	0
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	6.39	51	0.36	1	4	50	1	100	0	0	3	20	0	0
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	6.39	51	0.85	17	3	0	1	100	1	50	3	20	0	0
78	2,8,14,20,22,28,43,44,59,66,67,70,78	3.86	29	2.93	83	4	50	0	0	0	0	2	0	0	0
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	6.07	48	0.85	17	3	0	1	100	1	50	3	20	0	0
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	2.00	13	2.52	70	4	50	0	0	0	0	2	0	0	0
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	0.51	0	2.28	63	4	50	1	100	0	0	3	20	0	0
438	23,25,34,47,48,52,65,67,78,79,82	7.76	63	0.74	13	3	0	1	100	2	100	3	20	0	0
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	7.76	63	0.82	16	3	0	1	100	2	100	3	20	0	0
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	5.98	47	0.36	1	4	50	1	100	1	50	3	20	0	0
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	3.86	29	3.01	86	4	50	0	0	0	0	2	0	0	0
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	6.31	50	0.45	4	3	0	1	100	1	50	3	20	0	0
14	2,10,20,29,42,43,57,58,66,67,70	2.00	13	2.20	60	5	100	0	0	0	0	2	0	0	0
202	3,7,8,13,28,42,43,57,58,66,67,70,81	1.19	6	2.24	61	4	50	1	100	0	0	3	20	0	0
429	11,16,23,25,34,47,48,52,53,69,79,80,81	10.87	90	0.63	10	3	0	1	100	1	50	7	100	0	0
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	9.08	74	1.05	23	3	0	1	100	1	50	7	100	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
520	8,10,20,29,43,44,59,66,67,70,79	2.70	19	2.65	74	5	100	1	100	0	0	3	20	0	0
13	2,10,20,22,28,43,44,59,66,67,70	3.86	29	2.68	75	5	100	0	0	0	0	2	0	0	0
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	6.07	48	0.36	1	4	50	1	100	0	0	3	20	0	0
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	7.85	64	0.74	13	3	0	1	100	1	50	3	20	0	0
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	2.00	13	2.44	68	4	50	0	0	0	0	2	0	0	0
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	47	0.46	4	3	0	1	100	1	50	3	20	0	0
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	7.85	64	0.82	16	3	0	1	100	1	50	3	20	0	0
152	3,11,16,23,25,34,47,48,52,53,69,80	10.54	87	0.64	10	3	0	1	100	1	50	7	100	0	0
172	3,11,23,25,34,47,48,52,65,67,77,82,83	7.44	60	0.82	16	3	0	1	100	2	100	3	20	0	0
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	9.41	77	0.73	13	3	0	1	100	0	0	7	100	0	0
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	6.39	51	0.45	4	3	0	1	100	0	0	3	20	0	0
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	9.41	77	0.81	15	3	0	1	100	0	0	7	100	0	0
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	9.08	74	0.97	21	3	0	1	100	1	50	7	100	0	0
521	8,10,20,29,42,43,57,58,66,67,70,79	0.84	3	2.17	59	5	100	1	100	0	0	3	20	0	0
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	2.00	13	2.52	70	4	50	0	0	0	0	2	0	0	0
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	48	0.46	4	3	0	1	100	0	0	3	20	0	0
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	7.53	61	0.82	16	3	0	1	100	1	50	3	20	0	0
523	8,10,20,22,28,43,44,59,66,67,70,79	2.70	19	2.65	74	5	100	1	100	0	0	3	20	0	0
220	3,8,10,20,29,43,44,59,66,67,70,81	2.37	16	2.66	74	5	100	1	100	0	0	3	20	0	0
11	2,10,20,22,28,42,43,57,58,66,67,70	2.00	13	2.20	60	5	100	0	0	0	0	2	0	0	0
199	3,23,25,34,47,48,52,65,67,78,81,82	7.44	60	0.74	13	3	0	1	100	2	100	3	20	0	0
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	10.58	87	1.13	26	3	0	0	0	1	50	6	80	0	0
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	10.58	87	1.21	28	3	0	0	0	1	50	6	80	0	0
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	7.56	61	1.01	22	3	0	0	0	1	50	2	0	0	0
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	9.08	74	0.81	15	3	0	1	100	0	0	7	100	0	0
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	7.53	61	0.74	13	3	0	1	100	1	50	3	20	0	0
218	3,8,10,20,29,42,43,57,58,66,67,70,81	0.51	0	2.17	59	5	100	1	100	0	0	3	20	0	0
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	8.93	73	0.98	21	3	0	0	0	2	100	2	0	0	0
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	7.47	60	0.62	9	3	0	0	0	1	50	2	0	0	0
524	8,10,20,22,28,42,43,57,58,66,67,70,79	0.84	3	2.17	59	5	100	1	100	0	0	3	20	0	0
217	3,8,10,20,22,28,43,44,59,66,67,70,81	2.37	16	2.66	74	5	100	1	100	0	0	3	20	0	0
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	12.03	100	0.80	15	3	0	0	0	1	50	6	80	0	0
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	9.08	74	0.73	13	3	0	1	100	0	0	7	100	0	0
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	9.02	74	0.90	18	3	0	0	0	1	50	2	0	0	0
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	9.02	74	0.98	21	3	0	0	0	1	50	2	0	0	0
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	10.58	87	0.89	18	3	0	0	0	0	0	6	80	0	0
462	18,19,30,33,45,47,48,52,65,67,77,78,79	6.31	50	0.83	16	3	0	1	100	1	50	3	20	0	0
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	7.56	61	0.62	9	3	0	0	0	0	0	2	0	0	0
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	10.58	87	0.97	21	3	0	0	0	0	0	6	80	0	0
458	11,18,19,30,33,45,47,48,52,65,67,77,83	6.31	50	0.91	18	3	0	1	100	1	50	3	20	0	0
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	0.51	0	2.17	59	5	100	1	100	0	0	3	20	0	0
7	2,10,15,19,30,33,45,47,48,52,53,69,80	10.58	87	0.65	10	4	50	0	0	0	0	6	80	0	0
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	6.39	51	0.83	16	3	0	1	100	0	0	3	20	0	0
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	6.39	51	0.91	18	3	0	1	100	0	0	3	20	0	0
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	5.98	47	0.91	18	3	0	1	100	1	50	3	20	0	0
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	9.41	77	0.62	9	4	50	1	100	0	0	7	100	0	0
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	6.07	48	0.91	18	3	0	1	100	0	0	3	20	0	0
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	6.39	51	1.22	29	3	0	1	100	1	50	3	20	0	0
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	47	0.83	16	3	0	1	100	1	50	3	20	0	0
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	6.39	51	1.30	31	3	0	1	100	1	50	3	20	0	0
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	48	0.83	16	3	0	1	100	0	0	3	20	0	0
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	7.47	60	0.99	21	3	0	0	0	1	50	2	0	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	7.47	60	1.07	24	3	0	0	0	1	50	2	0	0	0
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	6.07	48	1.30	31	3	0	1	100	1	50	3	20	0	0
437	23,25,34,47,48,52,53,69,77,78,79,80,82	10.87	90	1.01	22	3	0	1	100	1	50	7	100	0	0
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	10.87	90	1.09	24	3	0	1	100	1	50	7	100	0	0
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	7.85	64	0.88	18	3	0	1	100	1	50	3	20	0	0
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	2.70	19	2.41	67	4	50	1	100	0	0	3	20	0	0
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	9.08	74	0.62	9	4	50	1	100	0	0	7	100	0	0
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	9.41	77	0.72	12	3	0	1	100	0	0	7	100	0	0
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	6.07	48	1.22	29	3	0	1	100	1	50	3	20	0	0
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	7.53	61	0.89	18	3	0	1	100	1	50	3	20	0	0
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	6.39	51	0.98	21	3	0	1	100	0	0	3	20	0	0
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	7.56	61	0.99	21	3	0	0	0	0	0	2	0	0	0
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	7.56	61	1.07	24	3	0	0	0	0	0	2	0	0	0
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	2.37	16	2.41	67	4	50	1	100	0	0	3	20	0	0
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	9.08	74	0.72	12	3	0	1	100	0	0	7	100	0	0
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	6.39	51	1.06	23	3	0	1	100	0	0	3	20	0	0
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	10.54	87	1.09	24	3	0	1	100	1	50	7	100	0	0
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	2.70	19	2.41	67	4	50	1	100	0	0	3	20	0	0
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	7.56	61	1.38	34	3	0	0	0	1	50	2	0	0	0
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	48	1.06	23	3	0	1	100	0	0	3	20	0	0
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	10.54	87	1.01	22	3	0	1	100	1	50	7	100	0	0
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	7.56	61	1.46	36	3	0	0	0	1	50	2	0	0	0
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	2.37	16	2.41	67	4	50	1	100	0	0	3	20	0	0
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	6.07	48	0.99	21	3	0	1	100	0	0	3	20	0	0
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	12.03	100	1.17	27	3	0	0	0	1	50	6	80	0	0
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	12.03	100	1.25	29	3	0	0	0	1	50	6	80	0	0
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	9.02	74	1.05	23	3	0	0	0	1	50	2	0	0	0
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	3.86	29	2.57	72	4	50	0	0	0	0	2	0	0	0
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	10.58	87	0.88	18	3	0	0	0	0	0	6	80	0	0
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	7.56	61	1.15	26	3	0	0	0	0	0	2	0	0	0
5	2,10,15,19,21,29,43,44,55,67,70,76	3.86	29	2.25	61	5	100	0	0	0	0	2	0	0	0
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	7.56	61	1.22	29	3	0	0	0	0	0	2	0	0	0
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	2.70	19	2.93	83	4	50	1	100	0	0	3	20	0	0
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	9.41	77	1.09	24	3	0	1	100	0	0	7	100	0	0
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	3.86	29	2.57	72	4	50	0	0	0	0	2	0	0	0
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	9.41	77	1.17	27	3	0	1	100	0	0	7	100	0	0
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	7.56	61	0.90	18	4	50	0	0	0	0	2	0	0	0
513	8,10,15,19,21,29,43,44,55,67,70,76,79	2.70	19	2.22	61	5	100	1	100	0	0	3	20	0	0
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	2.37	16	2.93	83	4	50	1	100	0	0	3	20	0	0
2	2,10,15,19,21,22,28,43,44,55,67,70,76	3.86	29	2.25	61	5	100	0	0	0	0	2	0	0	0
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	0.84	3	2.45	68	4	50	1	100	0	0	3	20	0	0
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	2.70	19	2.93	83	4	50	1	100	0	0	3	20	0	0
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	9.08	74	1.17	27	3	0	1	100	0	0	7	100	0	0
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	0.51	0	2.45	68	4	50	1	100	0	0	3	20	0	0
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	6.39	51	0.87	17	4	50	1	100	0	0	3	20	0	0
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	2.70	19	2.22	61	5	100	1	100	0	0	3	20	0	0
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	2.37	16	2.93	83	4	50	1	100	0	0	3	20	0	0
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	2.37	16	2.22	61	5	100	1	100	0	0	3	20	0	0
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	9.08	74	1.10	24	3	0	1	100	0	0	7	100	0	0
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	2.70	19	2.32	64	4	50	1	100	0	0	3	20	0	0
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	0.84	3	2.45	68	4	50	1	100	0	0	3	20	0	0
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	7.85	64	1.26	30	3	0	1	100	1	50	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	3.86	29	3.09	88	4	50	0	0	0	0	2	0	0	0
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	16	2.32	64	4	50	1	100	0	0	3	20	0	0
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	48	0.87	17	4	50	1	100	0	0	3	20	0	0
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	10.58	87	1.26	30	3	0	0	0	0	0	6	80	0	0
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	10.58	87	1.33	32	3	0	0	0	0	0	6	80	0	0
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	7.85	64	1.34	32	3	0	1	100	1	50	3	20	0	0
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	0.51	0	2.45	68	4	50	1	100	0	0	3	20	0	0
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	2.37	16	2.22	61	5	100	1	100	0	0	3	20	0	0
6	2,10,15,19,21,29,43,44,59,66,67,70	3.86	29	2.76	78	5	100	0	0	0	0	2	0	0	0
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	6.39	51	0.97	20	3	0	1	100	0	0	3	20	0	0
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	2.00	13	2.61	73	4	50	0	0	0	0	2	0	0	0
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	2.70	19	2.32	64	4	50	1	100	0	0	3	20	0	0
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	6.07	48	0.97	21	3	0	1	100	0	0	3	20	0	0
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	7.53	61	1.34	32	3	0	1	100	1	50	3	20	0	0
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	3.86	29	3.09	88	4	50	0	0	0	0	2	0	0	0
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	16	2.32	64	4	50	1	100	0	0	3	20	0	0
4	2,10,15,19,21,29,42,43,57,58,66,67,70	2.00	13	2.28	62	5	100	0	0	0	0	2	0	0	0
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	7.53	61	1.26	30	3	0	1	100	1	50	3	20	0	0
514	8,10,15,19,21,29,43,44,59,66,67,70,79	2.70	19	2.74	77	5	100	1	100	0	0	3	20	0	0
3	2,10,15,19,21,22,28,43,44,59,66,67,70	3.86	29	2.76	78	5	100	0	0	0	0	2	0	0	0
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	3.86	29	2.48	69	4	50	0	0	0	0	2	0	0	0
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	2.00	13	2.61	73	4	50	0	0	0	0	2	0	0	0
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	0.84	3	2.26	62	5	100	1	100	0	0	3	20	0	0
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	9.02	74	1.42	35	3	0	0	0	1	50	2	0	0	0
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	2.70	19	2.74	77	5	100	1	100	0	0	3	20	0	0
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	2.37	16	2.74	77	5	100	1	100	0	0	3	20	0	0
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	2.00	13	2.28	62	5	100	0	0	0	0	2	0	0	0
482	18,19,21,29,43,44,55,67,70,76,77,78,79	2.70	19	2.70	76	4	50	1	100	0	0	3	20	0	0
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	9.02	74	1.50	37	3	0	0	0	1	50	2	0	0	0
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	7.56	61	1.13	26	3	0	0	0	0	0	2	0	0	0
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	2.70	19	2.84	80	4	50	1	100	0	0	3	20	0	0
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	2.70	19	2.77	78	4	50	1	100	0	0	3	20	0	0
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	3.86	29	2.48	69	4	50	0	0	0	0	2	0	0	0
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	16	2.84	80	4	50	1	100	0	0	3	20	0	0
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	0.51	0	2.26	62	5	100	1	100	0	0	3	20	0	0
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	6.39	51	1.34	32	3	0	1	100	0	0	3	20	0	0
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	0.84	3	2.26	62	5	100	1	100	0	0	3	20	0	0
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	2.37	16	2.74	77	5	100	1	100	0	0	3	20	0	0
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	16	2.78	78	4	50	1	100	0	0	3	20	0	0
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	0.84	3	2.36	65	4	50	1	100	0	0	3	20	0	0
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	2.70	19	2.70	76	4	50	1	100	0	0	3	20	0	0
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	6.39	51	1.42	35	3	0	1	100	0	0	3	20	0	0
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0.51	0	2.36	65	4	50	1	100	0	0	3	20	0	0

		Ecology						Cultural							
Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI + hydric soils within ROW (in acres)	Normalized Score for Area of NWI + hydric soils within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	2.70	19	2.84	80	4	50	1	100	0	0	3	20	0	0
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	16	2.70	76	4	50	1	100	0	0	3	20	0	0
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	16	2.84	80	4	50	1	100	0	0	3	20	0	0
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	48	1.43	35	3	0	1	100	0	0	3	20	0	0
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	0.51	0	2.26	62	5	100	1	100	0	0	3	20	0	0
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	16	2.78	78	4	50	1	100	0	0	3	20	0	0
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	2.37	16	2.78	78	4	50	1	100	0	0	3	20	0	0
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	6.07	48	1.35	32	3	0	1	100	0	0	3	20	0	0
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	3.86	29	2.86	81	4	50	0	0	0	0	2	0	0	0
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	0.84	3	2.36	65	4	50	1	100	0	0	3	20	0	0
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	16	2.70	76	4	50	1	100	0	0	3	20	0	0
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	3.86	29	3.00	86	4	50	0	0	0	0	2	0	0	0
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0.51	0	2.36	65	4	50	1	100	0	0	3	20	0	0
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	3.86	29	2.94	83	4	50	0	0	0	0	2	0	0	0
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	7.56	61	1.51	38	3	0	0	0	0	0	2	0	0	0
483	18,19,21,29,43,44,59,66,67,70,77,78,79	2.70	19	3.21	92	4	50	1	100	0	0	3	20	0	0
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	2.00	13	2.52	70	4	50	0	0	0	0	2	0	0	0
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	3.86	29	2.86	81	4	50	0	0	0	0	2	0	0	0
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	7.56	61	1.59	40	3	0	0	0	0	0	2	0	0	0
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	2.70	19	3.29	95	4	50	1	100	0	0	3	20	0	0
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	3.86	29	3.00	86	4	50	0	0	0	0	2	0	0	0
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	3.86	29	2.94	83	4	50	0	0	0	0	2	0	0	0
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	0.84	3	2.73	77	4	50	1	100	0	0	3	20	0	0
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	2.37	16	3.29	95	4	50	1	100	0	0	3	20	0	0
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	2.70	19	3.21	92	4	50	1	100	0	0	3	20	0	0
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	0.84	3	2.81	79	4	50	1	100	0	0	3	20	0	0
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	16	3.21	92	4	50	1	100	0	0	3	20	0	0
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	2.70	19	3.29	95	4	50	1	100	0	0	3	20	0	0
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	2.00	13	2.52	70	4	50	0	0	0	0	2	0	0	0
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0.51	0	2.81	79	4	50	1	100	0	0	3	20	0	0
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	2.37	16	3.29	95	4	50	1	100	0	0	3	20	0	0
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	0.84	3	2.73	77	4	50	1	100	0	0	3	20	0	0
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0.51	0	2.73	77	4	50	1	100	0	0	3	20	0	0
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	3.86	29	3.37	97	4	50	0	0	0	0	2	0	0	0
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	16	3.21	92	4	50	1	100	0	0	3	20	0	0
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	0.84	3	2.81	79	4	50	1	100	0	0	3	20	0	0
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	3.86	29	3.45	100	4	50	0	0	0	0	2	0	0	0
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	2.00	13	2.89	82	4	50	0	0	0	0	2	0	0	0
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0.51	0	2.81	79	4	50	1	100	0	0	3	20	0	0
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	3.86	29	3.37	97	4	50	0	0	0	0	2	0	0	0
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	2.00	13	2.97	85	4	50	0	0	0	0	2	0	0	0
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0.51	0	2.73	77	4	50	1	100	0	0	3	20	0	0
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	3.86	29	3.45	100	4	50	0	0	0	0	2	0	0	0
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	2.00	13	2.89	82	4	50	0	0	0	0	2	0	0	0
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	2.00	13	2.97	85	4	50	0	0	0	0	2	0	0	0
	MIN	0.51	0	0.33	0	3	0	0	0	0	0	2	0	0	0
	MAX	12.03	100	3.45	100	5	100	1	100	2	100	7	100	0	0
	RANGE	11.52	100	3.12	100	2	100	1	100	2	100	5	100	0	0

Routes	Study Segments	Land Use															
		Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	12	12.79	30	8.57	25	3.90	31	1	37	21	44.53	27	0	0	0	0
149	3,11,16,23,25,31,33,45,47,48,52,65,67	16	17.44	35	10.52	23	3.30	30	1	42	42	33.85	18	0	0	0	0
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	12	12.79	30	8.57	25	3.90	32	2	39	29	50.11	32	0	0	0	0
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	16	17.44	35	10.52	23	3.30	31	1	43	46	39.42	23	0	0	0	0
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	13	13.95	33	9.74	22	3.00	28	1	43	46	44.01	27	0	0	0	0
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	13	13.95	33	9.74	22	3.00	29	1	45	54	49.59	32	0	0	0	0
500	14,20,29,43,44,55,67,70,76,78,79	2	1.16	11	1.17	16	1.20	18	0	38	25	83.89	62	1	100	0	0
450	23,25,31,33,45,47,48,52,65,67,77,78,82	16	17.44	33	9.74	23	3.30	27	1	43	46	30.79	15	0	0	0	0
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	16	17.44	33	9.74	23	3.30	27	1	41	38	38.70	22	0	0	0	0
497	11,14,20,29,43,44,55,67,70,76,79,81,83	2	1.16	11	1.17	16	1.20	18	0	37	21	91.80	69	1	100	0	0
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	12	12.79	31	8.96	26	4.20	32	2	38	25	44.53	27	0	0	0	0
18	2,7,13,28,43,44,55,67,70,76	2	1.16	12	1.56	15	0.90	16	0	39	29	85.35	63	1	100	0	0
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	16	17.44	33	9.74	23	3.30	28	1	45	54	36.37	20	0	0	0	0
430	11,16,23,25,34,47,48,52,65,67,79,81	13	13.95	47	15.19	54	12.60	73	5	36	17	37.94	21	0	0	0	0
136	3,11,14,20,29,43,44,55,67,70,76,83	6	5.81	16	3.12	14	0.60	17	0	42	42	81.11	59	1	100	0	0
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	16	17.44	33	9.74	23	3.30	28	1	43	46	44.28	27	0	0	0	0
506	14,20,22,28,43,44,55,67,70,76,78,79	4	3.49	9	0.39	17	1.50	20	1	38	25	81.48	60	1	100	0	0
151	3,11,16,23,25,31,33,45,47,52,53,69,80	16	17.44	36	10.91	24	3.60	31	1	43	46	33.85	18	0	0	0	0
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	20	22.09	38	11.69	21	2.70	26	1	47	63	28.01	13	0	0	0	0
181	3,14,20,29,43,44,55,67,70,76,78,81	6	5.81	16	3.12	14	0.60	17	0	43	46	73.20	52	1	100	0	0
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	4	3.49	9	0.39	17	1.50	20	1	37	21	89.39	67	1	100	0	0
154	3,11,16,23,25,34,47,48,52,65,67	17	18.60	52	17.14	52	12.00	72	5	41	38	27.26	12	0	0	0	0
470	14,15,19,30,33,45,47,48,52,65,67,78,79	23	25.58	53	17.53	39	8.10	24	1	34	8	59.39	40	0	0	0	0
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	20	22.09	38	11.69	21	2.70	27	1	48	67	33.59	18	0	0	0	0
525	7,8,13,28,43,44,55,67,70,76,79	1	0.00	11	1.17	20	2.40	21	1	35	13	95.71	72	1	100	0	0
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	23	25.58	53	17.53	39	8.10	24	1	32	0	67.30	47	0	0	0	0
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	20	22.09	38	11.69	21	2.70	26	1	49	71	20.10	6	0	0	0	0
133	3,11,14,20,22,28,43,44,55,67,70,76,83	8	8.14	14	2.34	15	0.90	19	1	42	42	78.70	57	1	100	0	0
155	3,11,16,23,25,34,47,48,52,67,70,76,84	17	18.60	52	17.14	52	12.00	73	5	42	42	32.84	17	0	0	0	0
431	11,16,23,25,34,47,48,52,67,70,76,84	17	18.60	52	17.14	52	12.00	73	5	42	42	32.84	17	0	0	0	0
80	2,8,14,20,29,43,44,55,67,70,76,78	3	2.33	14	2.34	13	0.30	15	0	44	50	83.37	61	1	100	0	0
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	20	22.09	38	11.69	21	2.70	27	1	50	75	25.68	11	0	0	0	0
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	17	18.60	36	10.91	20	2.40	24	1	49	71	30.27	15	0	0	0	0
178	3,14,20,22,28,43,44,55,67,70,76,78,81	8	8.14	14	2.34	15	0.90	19	1	43	46	70.79	50	1	100	0	0
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	23	25.58	53	17.53	39	8.10	25	1	36	17	64.97	45	0	0	0	0
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	17	18.60	36	10.91	20	2.40	24	1	47	63	38.18	22	0	0	0	0
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	23	25.58	53	17.53	39	8.10	25	1	34	8	72.88	52	0	0	0	0
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	27	30.23	58	19.48	37	7.50	23	1	38	25	56.61	38	0	0	0	0
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3	2.33	14	2.34	13	0.30	15	0	43	46	91.28	68	1	100	0	0
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	13	13.95	34	10.13	23	3.30	29	1	44	50	44.01	27	0	0	0	0
203	3,7,8,13,28,43,44,55,67,70,76,81	5	4.65	16	3.12	18	1.80	20	1	39	29	85.02	63	1	100	0	0
15	2,10,20,29,43,44,55,67,70,76	4	3.49	11	1.17	12	0.00	13	0	41	38	83.86	62	1	100	0	0
501	14,20,29,43,44,59,66,67,70,78,79	2	1.16	19	4.29	22	3.00	21	1	40	33	83.38	61	1	100	0	0
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	27	30.23	58	19.48	37	7.50	24	1	39	29	62.19	43	0	0	0	0
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	17	18.60	36	10.91	20	2.40	25	1	51	79	35.85	20	0	0	0	0
53	2,8,11,16,23,25,34,47,48,52,65,67,81	14	15.12	50	16.36	51	11.70	70	4	42	42	37.42	21	0	0	0	0
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	27	30.23	58	19.48	37	7.50	23	1	40	33	48.70	31	0	0	0	0
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	17	18.60	36	10.91	20	2.40	25	1	49	71	43.76	27	0	0	0	0
77	2,8,14,20,22,28,43,44,55,67,70,76,78	5	4.65	12	1.56	14	0.60	17	0	44	50	80.96	59	1	100	0	0
498	11,14,20,29,43,44,59,66,67,70,79,81,83	2	1.16	19	4.29	22	3.00	21	1	39	29	91.30	68	1	100	0	0
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	5	4.65	12	1.56	14	0.60	17	0	43	46	88.87	66	1	100	0	0
502	14,20,29,42,43,57,58,66,67,70,78,79	7	6.98	15	2.73	26	4.20	22	1	44	50	101.05	77	1	100	0	0

**Institutional land use includes schools, churches, and hospitals
**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	27	30.23	58	19.48	37	7.50	24	1	41	38	54.28	36	0	0	0	0
19	2,7,13,28,43,44,59,66,67,70	2	1.16	20	4.68	21	2.70	19	1	41	38	84.84	63	1	100	0	0
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	24	26.74	56	18.70	36	7.20	21	1	40	33	58.87	40	0	0	0	0
519	8,10,20,29,43,44,55,67,70,76,79	3	2.33	10	0.78	17	1.50	18	0	37	21	94.16	71	1	100	0	0
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	24	26.74	56	18.70	36	7.20	21	1	38	25	66.78	47	0	0	0	0
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	14	15.12	50	16.36	51	11.70	71	4	44	50	43.00	26	0	0	0	0
137	3,11,14,20,29,43,44,59,66,67,70,83	6	5.81	24	6.23	20	2.40	20	1	44	50	80.61	59	1	100	0	0
12	2,10,20,22,28,43,44,55,67,70,76	6	5.81	9	0.39	13	0.30	15	0	41	38	81.45	60	1	100	0	0
507	14,20,22,28,43,44,59,66,67,70,78,79	4	3.49	17	3.51	23	3.30	23	1	40	33	80.98	59	1	100	0	0
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	7	6.98	15	2.73	26	4.20	22	1	43	46	108.96	84	1	100	0	0
9	2,10,15,19,30,33,45,47,48,52,65,67	25	27.91	53	17.53	35	6.90	21	1	36	17	59.38	40	0	0	0	0
182	3,14,20,29,43,44,59,66,67,70,78,81	6	5.81	24	6.23	20	2.40	20	1	45	54	72.70	52	1	100	0	0
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	4	3.49	17	3.51	23	3.30	23	1	39	29	88.89	66	1	100	0	0
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	24	26.74	56	18.70	36	7.20	22	1	42	42	64.45	45	0	0	0	0
526	7,8,13,28,43,44,59,66,67,70,79	1	0.00	19	4.29	26	4.20	24	1	37	21	95.21	72	1	100	0	0
135	3,11,14,20,29,42,43,57,58,66,67,70,83	11	11.63	20	4.68	24	3.60	21	1	48	67	98.27	75	1	100	0	0
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	24	26.74	56	18.70	36	7.20	22	1	40	33	72.36	52	0	0	0	0
17	2,7,13,28,42,43,57,58,66,67,70	7	6.98	16	3.12	25	3.90	20	1	46	58	102.50	78	1	100	0	0
522	8,10,20,22,28,43,44,55,67,70,76,79	5	4.65	8	0.00	18	1.80	20	1	37	21	91.75	69	1	100	0	0
219	3,8,10,20,29,43,44,55,67,70,76,81	7	6.98	15	2.73	15	0.90	17	0	41	38	83.47	62	1	100	0	0
134	3,11,14,20,22,28,43,44,59,66,67,70,83	8	8.14	22	5.45	21	2.70	22	1	44	50	78.20	57	1	100	0	0
508	14,20,22,28,42,43,57,58,66,67,70,78,79	9	9.30	13	1.95	27	4.50	24	1	45	54	98.64	75	1	100	0	0
180	3,14,20,29,42,43,57,58,66,67,70,78,81	11	11.63	20	4.68	24	3.60	21	1	49	71	90.36	68	1	100	0	0
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	25	27.91	53	17.53	35	6.90	22	1	38	25	64.96	45	0	0	0	0
81	2,8,14,20,29,43,44,59,66,67,70,78	3	2.33	22	5.45	19	2.10	18	0	46	58	82.86	61	1	100	0	0
510	8,10,15,19,30,33,45,47,48,52,65,67,79	24	26.74	52	17.14	40	8.40	26	1	32	0	69.68	49	0	0	0	0
179	3,14,20,22,28,43,44,59,66,67,70,78,81	8	8.14	22	5.45	21	2.70	22	1	45	54	70.29	50	1	100	0	0
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	9	9.30	13	1.95	27	4.50	24	1	44	50	106.55	82	1	100	0	0
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3	2.33	22	5.45	19	2.10	18	0	45	54	90.77	68	1	100	0	0
527	7,8,13,28,42,43,57,58,66,67,70,79	6	5.81	15	2.73	30	5.40	25	1	42	42	112.87	87	1	100	0	0
204	3,7,8,13,28,43,44,59,66,67,70,81	5	4.65	24	6.23	24	3.60	23	1	41	38	84.52	62	1	100	0	0
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	16	17.44	34	10.13	24	3.60	28	1	44	50	30.79	15	0	0	0	0
79	2,8,14,20,29,42,43,57,58,66,67,70,78	8	8.14	18	3.90	23	3.30	19	1	50	75	100.52	77	1	100	0	0
216	3,8,10,20,22,28,43,44,55,67,70,76,81	9	9.30	13	1.95	16	1.20	19	1	41	38	81.06	59	1	100	0	0
16	2,10,20,29,43,44,59,66,67,70	4	3.49	19	4.29	18	1.80	16	0	43	46	83.35	61	1	100	0	0
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	13	13.95	18	3.90	25	3.90	23	1	49	71	95.86	72	1	100	0	0
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	16	17.44	34	10.13	24	3.60	28	1	42	42	38.70	22	0	0	0	0
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	24	26.74	52	17.14	40	8.40	27	1	34	8	75.26	54	0	0	0	0
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	12	12.79	38	11.69	33	6.30	36	2	45	54	68.10	48	1	100	0	0
78	2,8,14,20,22,28,43,44,59,66,67,70,78	5	4.65	20	4.68	20	2.40	20	1	46	58	80.46	59	1	100	0	0
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	16	17.44	43	13.64	31	5.70	35	2	49	71	57.41	39	1	100	0	0
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	8	8.14	18	3.90	23	3.30	19	1	49	71	108.43	83	1	100	0	0
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	13	13.95	18	3.90	25	3.90	23	1	50	75	87.95	65	1	100	0	0
438	23,25,34,47,48,52,65,67,78,79,82	17	18.60	50	16.36	52	12.00	69	4	42	42	24.20	9	0	0	0	0
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	17	18.60	50	16.36	52	12.00	69	4	40	33	32.11	16	0	0	0	0
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	28	31.40	57	19.09	38	7.80	25	1	37	21	59.00	40	0	0	0	0
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	5	4.65	20	4.68	20	2.40	20	1	45	54	88.37	66	1	100	0	0
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	37	41.86	71	24.55	39	8.10	26	1	32	0	65.89	46	0	0	0	0
14	2,10,20,29,42,43,57,58,66,67,70	9	9.30	15	2.73	22	3.00	17	0	47	63	101.01	77	1	100	0	0
202	3,7,8,13,28,42,43,57,58,66,67,70,81	10	10.47	20	4.68	28	4.80	24	1	46	58	102.18	78	1	100	0	0
429	11,16,23,25,34,47,48,52,53,69,79,80,81	13	13.95	48	15.58	55	12.90	74	5	37	21	37.94	21	0	0	0	0
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	20	22.09	39	12.08	22	3.00	27	1	48	67	28.01	13	0	0	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
520	8,10,20,29,43,44,59,66,67,70,79	3	2.33	18	3.90	23	3.30	21	1	39	29	93.65	70	1	100	0	0
13	2,10,20,22,28,43,44,59,66,67,70	6	5.81	17	3.51	19	2.10	18	0	43	46	80.94	59	1	100	0	0
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	28	31.40	57	19.09	38	7.80	26	1	38	25	64.57	45	0	0	0	0
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	17	18.60	50	16.36	52	12.00	70	4	44	50	29.78	14	0	0	0	0
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	10	10.47	16	3.12	24	3.60	21	1	51	79	98.12	74	1	100	0	0
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	41	46.51	76	26.49	37	7.50	25	1	37	21	55.20	37	0	0	0	0
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	17	18.60	50	16.36	52	12.00	70	4	42	42	37.69	21	0	0	0	0
152	3,11,16,23,25,34,47,48,52,53,69,80	17	18.60	53	17.53	53	12.30	73	5	42	42	27.26	12	0	0	0	0
172	3,11,23,25,34,47,48,52,65,67,77,82,83	21	23.26	55	18.31	50	11.40	68	4	46	58	21.43	7	0	0	0	0
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	23	25.58	54	17.92	40	8.40	25	1	35	13	59.39	40	0	0	0	0
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	37	41.86	71	24.55	39	8.10	27	1	34	8	71.47	51	0	0	0	0
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	23	25.58	54	17.92	40	8.40	25	1	33	4	67.30	47	0	0	0	0
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	20	22.09	39	12.08	22	3.00	27	1	50	75	20.10	6	0	0	0	0
521	8,10,20,29,42,43,57,58,66,67,70,79	8	8.14	14	2.34	27	4.50	22	1	43	46	111.31	86	1	100	0	0
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	10	10.47	16	3.12	24	3.60	21	1	50	75	106.03	81	1	100	0	0
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	41	46.51	76	26.49	37	7.50	26	1	38	25	60.78	42	0	0	0	0
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	21	23.26	55	18.31	50	11.40	69	4	47	63	27.00	12	0	0	0	0
523	8,10,20,22,28,43,44,59,66,67,70,79	5	4.65	16	3.12	24	3.60	23	1	39	29	91.24	68	1	100	0	0
220	3,8,10,20,29,43,44,59,66,67,70,81	7	6.98	23	5.84	21	2.70	20	1	43	46	82.96	61	1	100	0	0
11	2,10,20,22,28,42,43,57,58,66,67,70	11	11.63	13	1.95	23	3.30	19	1	48	67	98.60	75	1	100	0	0
199	3,23,25,34,47,48,52,65,67,78,81,82	21	23.26	55	18.31	50	11.40	68	4	48	67	13.51	0	0	0	0	0
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	17	18.60	37	11.30	21	2.70	25	1	50	75	30.27	15	0	0	0	0
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	17	18.60	37	11.30	21	2.70	25	1	48	67	38.18	22	0	0	0	0
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	13	13.95	41	12.86	30	5.40	33	2	51	79	67.58	48	1	100	0	0
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	27	30.23	59	19.87	38	7.80	24	1	39	29	56.61	38	0	0	0	0
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	21	23.26	55	18.31	50	11.40	69	4	49	71	19.09	5	0	0	0	0
218	3,8,10,20,29,42,43,57,58,66,67,70,81	12	12.79	19	4.29	25	3.90	21	1	47	63	100.62	77	1	100	0	0
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	18	19.77	53	17.53	49	11.10	66	4	46	58	31.59	16	0	0	0	0
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	38	43.02	74	25.71	36	7.20	23	1	38	25	65.37	46	0	0	0	0
524	8,10,20,22,28,42,43,57,58,66,67,70,79	10	10.47	12	1.56	28	4.80	24	1	44	50	108.91	84	1	100	0	0
217	3,8,10,20,22,28,43,44,59,66,67,70,81	9	9.30	21	5.06	22	3.00	22	1	43	46	80.55	59	1	100	0	0
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	14	15.12	51	16.75	52	12.00	71	4	43	46	37.42	21	0	0	0	0
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	27	30.23	59	19.87	38	7.80	24	1	41	38	48.70	31	0	0	0	0
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	18	19.77	53	17.53	49	11.10	67	4	50	75	29.26	14	0	0	0	0
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	18	19.77	53	17.53	49	11.10	67	4	48	67	37.17	21	0	0	0	0
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	24	26.74	57	19.09	37	7.50	22	1	41	38	58.87	40	0	0	0	0
462	18,19,30,33,45,47,48,52,65,67,77,78,79	37	41.86	72	24.94	41	8.70	23	1	36	17	52.15	34	0	0	0	0
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	38	43.02	74	25.71	36	7.20	24	1	40	33	70.95	51	0	0	0	0
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	24	26.74	57	19.09	37	7.50	22	1	39	29	66.78	47	0	0	0	0
458	11,18,19,30,33,45,47,48,52,65,67,77,83	37	41.86	72	24.94	41	8.70	23	1	34	8	60.06	41	0	0	0	0
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	14	15.12	17	3.51	26	4.20	23	1	48	67	98.22	74	1	100	0	0
7	2,10,15,19,30,33,45,47,48,52,53,69,80	25	27.91	54	17.92	36	7.20	22	1	37	21	59.38	40	0	0	0	0
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	37	41.86	72	24.94	41	8.70	24	1	38	25	57.73	39	0	0	0	0
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	37	41.86	72	24.94	41	8.70	24	1	36	17	65.64	46	0	0	0	0
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	41	46.51	77	26.88	39	8.10	22	1	40	33	49.37	32	0	0	0	0
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	24	26.74	53	17.53	41	8.70	27	1	33	4	69.69	49	0	0	0	0
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	41	46.51	77	26.88	39	8.10	23	1	41	38	54.95	36	0	0	0	0
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	16	17.44	41	12.86	31	5.70	32	2	50	75	54.36	36	1	100	0	0
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	41	46.51	77	26.88	39	8.10	22	1	42	42	41.46	25	0	0	0	0
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	16	17.44	41	12.86	31	5.70	32	2	49	71	62.27	43	1	100	0	0
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	41	46.51	77	26.88	39	8.10	23	1	43	46	47.04	29	0	0	0	0
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	38	43.02	75	26.10	38	7.80	20	1	42	42	51.63	34	0	0	0	0

**Institutional land use includes schools, churches, and hospitals
**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	38	43.02	75	26.10	38	7.80	20	1	40	33	59.54	40	0	0	0	0
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	20	22.09	46	14.81	29	5.10	31	1	54	92	51.58	33	1	100	0	0
437	23,25,34,47,48,52,53,69,77,78,79,80,82	17	18.60	51	16.75	53	12.30	70	4	43	46	24.20	9	0	0	0	0
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	17	18.60	51	16.75	53	12.30	70	4	41	38	32.11	16	0	0	0	0
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	13	13.95	55	18.31	62	15.00	78	5	44	50	61.51	42	1	100	0	0
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	19	20.93	52	17.14	34	6.60	16	0	34	8	107.69	83	1	100	0	0
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	28	31.40	58	19.48	39	8.10	26	1	38	25	59.00	40	0	0	0	0
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	37	41.86	72	24.94	40	8.40	27	1	33	4	65.89	46	0	0	0	0
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	20	22.09	46	14.81	29	5.10	31	1	55	96	43.67	27	1	100	0	0
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	17	18.60	60	20.26	60	14.40	77	5	48	67	50.82	33	1	100	0	0
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	23	25.58	61	20.65	47	10.50	29	1	41	38	82.96	61	1	100	0	0
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	38	43.02	75	26.10	38	7.80	21	1	44	50	57.21	38	0	0	0	0
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	38	43.02	75	26.10	38	7.80	21	1	42	42	65.12	45	0	0	0	0
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	23	25.58	57	19.09	32	6.00	15	0	39	29	97.00	73	1	100	0	0
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	41	46.51	77	26.88	38	7.80	26	1	38	25	55.20	37	0	0	0	0
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	23	25.58	61	20.65	47	10.50	29	1	40	33	90.87	68	1	100	0	0
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	21	23.26	56	18.70	51	11.70	69	4	47	63	21.43	7	0	0	0	0
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	21	23.26	50	16.36	35	6.90	18	0	34	8	105.29	81	1	100	0	0
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	17	18.60	44	14.03	28	4.80	29	1	56	100	53.84	35	1	100	0	0
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	27	30.23	66	22.60	45	9.90	28	1	45	54	80.18	59	1	100	0	0
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	21	23.26	56	18.70	51	11.70	69	4	49	71	13.51	0	0	0	0	0
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	17	18.60	44	14.03	28	4.80	29	1	55	96	61.75	42	1	100	0	0
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	25	27.91	55	18.31	33	6.30	17	0	39	29	94.61	71	1	100	0	0
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	27	30.23	66	22.60	45	9.90	28	1	46	58	72.27	52	1	100	0	0
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	18	19.77	54	17.92	50	11.40	67	4	49	71	23.68	9	0	0	0	0
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	18	19.77	54	17.92	50	11.40	67	4	47	63	31.59	16	0	0	0	0
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	14	15.12	58	19.48	59	14.10	75	5	50	75	60.99	42	1	100	0	0
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	20	22.09	55	18.31	31	5.70	13	0	40	33	107.17	82	1	100	0	0
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	38	43.02	75	26.10	37	7.50	24	1	39	29	65.37	46	0	0	0	0
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	24	26.74	64	21.82	44	9.60	26	1	47	63	82.44	61	1	100	0	0
5	2,10,15,19,21,29,43,44,55,67,70,76	21	23.26	52	17.14	30	5.40	13	0	38	25	99.77	76	1	100	0	0
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	24	26.74	64	21.82	44	9.60	26	1	46	58	90.35	68	1	100	0	0
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	19	20.93	60	20.26	40	8.40	19	1	36	17	107.18	82	1	100	0	0
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	37	41.86	73	25.32	42	9.00	24	1	37	21	52.15	34	0	0	0	0
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	22	24.42	53	17.53	32	6.00	15	0	40	33	104.77	80	1	100	0	0
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	37	41.86	73	25.32	42	9.00	24	1	35	13	60.06	41	0	0	0	0
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	25	27.91	61	20.65	43	9.30	26	1	44	50	82.95	61	1	100	0	0
513	8,10,15,19,21,29,43,44,55,67,70,76,79	20	22.09	51	16.75	35	6.90	18	0	34	8	110.07	85	1	100	0	0
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	23	25.58	65	22.21	38	7.80	18	0	41	38	96.49	73	1	100	0	0
2	2,10,15,19,21,22,28,43,44,55,67,70,76	23	25.58	50	16.36	31	5.70	15	0	38	25	97.37	74	1	100	0	0
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	24	26.74	56	18.70	44	9.60	20	1	40	33	124.84	98	1	100	0	0
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	21	23.26	58	19.48	41	8.70	21	1	36	17	104.79	80	1	100	0	0
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	41	46.51	78	27.27	40	8.40	23	1	41	38	49.37	32	0	0	0	0
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	28	31.40	61	20.65	42	9.00	19	1	45	54	114.16	89	1	100	0	0
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	24	26.74	60	20.26	48	10.80	31	1	40	33	93.25	70	1	100	0	0
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	22	24.42	49	15.97	36	7.20	20	1	34	8	107.68	83	1	100	0	0
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	25	27.91	63	21.43	39	8.10	20	1	41	38	94.10	71	1	100	0	0
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	24	26.74	56	18.70	33	6.30	17	0	38	25	99.38	76	1	100	0	0
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	41	46.51	78	27.27	40	8.40	23	1	43	46	41.46	25	0	0	0	0
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	33	37.21	70	24.16	34	6.60	18	0	34	8	106.28	82	1	100	0	0
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	26	29.07	54	17.92	45	9.90	22	1	41	38	122.45	96	1	100	0	0
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	17	18.60	58	19.48	60	14.40	74	5	49	71	47.77	30	1	100	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	20	22.09	63	21.43	37	7.50	16	0	42	42	106.66	82	1	100	0	0
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	37	41.86	75	26.10	32	6.00	17	0	38	25	95.59	72	1	100	0	0
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	28	31.40	65	22.21	46	10.20	30	1	44	50	82.56	61	1	100	0	0
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	38	43.02	76	26.49	39	8.10	21	1	43	46	51.63	34	0	0	0	0
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	38	43.02	76	26.49	39	8.10	21	1	41	38	59.54	40	0	0	0	0
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	17	18.60	58	19.48	60	14.40	74	5	48	67	55.68	37	1	100	0	0
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	30	33.72	59	19.87	43	9.30	21	1	46	58	111.76	86	1	100	0	0
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	26	29.07	54	17.92	34	6.60	19	1	38	25	96.99	73	1	100	0	0
6	2,10,15,19,21,29,43,44,59,66,67,70	21	23.26	60	20.26	36	7.20	16	0	40	33	99.26	75	1	100	0	0
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	37	41.86	79	27.66	47	10.50	31	1	40	33	89.46	67	1	100	0	0
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	25	27.91	59	19.87	41	8.70	17	0	46	58	124.32	97	1	100	0	0
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	35	39.53	68	23.38	35	6.90	20	1	34	8	103.88	79	1	100	0	0
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	41	46.51	84	29.61	45	9.90	30	1	44	50	78.77	57	1	100	0	0
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	21	23.26	63	21.43	58	13.80	73	5	53	88	44.99	28	1	100	0	0
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	22	24.42	61	20.65	38	7.80	18	0	42	42	104.27	80	1	100	0	0
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	39	44.19	73	25.32	33	6.30	19	1	38	25	93.19	70	1	100	0	0
4	2,10,15,19,21,29,42,43,57,58,66,67,70	26	29.07	56	18.70	40	8.40	17	0	44	50	116.92	91	1	100	0	0
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	21	23.26	63	21.43	58	13.80	73	5	54	92	37.08	21	1	100	0	0
514	8,10,15,19,21,29,43,44,59,66,67,70,79	20	22.09	59	19.87	41	8.70	21	1	36	17	109.56	84	1	100	0	0
3	2,10,15,19,21,22,28,43,44,59,66,67,70	23	25.58	58	19.48	37	7.50	18	0	40	33	96.87	73	1	100	0	0
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	34	38.37	73	25.32	31	5.70	15	0	40	33	105.75	81	1	100	0	0
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	27	30.23	57	19.09	42	9.00	19	1	47	63	121.93	95	1	100	0	0
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	25	27.91	55	18.31	45	9.90	22	1	40	33	127.22	100	1	100	0	0
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	18	19.77	61	20.65	57	13.50	71	4	55	96	47.25	30	1	100	0	0
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	22	24.42	57	19.09	42	9.00	23	1	36	17	107.17	82	1	100	0	0
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	24	26.74	64	21.82	39	8.10	20	1	40	33	98.87	75	1	100	0	0
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	28	31.40	54	17.92	41	8.70	19	1	45	54	114.53	89	1	100	0	0
482	18,19,21,29,43,44,55,67,70,76,77,78,79	33	37.21	71	24.55	36	7.20	15	0	37	21	92.54	69	1	100	0	0
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	18	19.77	61	20.65	57	13.50	71	4	54	92	55.16	37	1	100	0	0
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	38	43.02	82	28.83	44	9.60	28	1	46	58	88.94	66	1	100	0	0
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	33	37.21	78	27.27	40	8.40	21	1	36	17	105.77	81	1	100	0	0
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	33	37.21	71	24.55	36	7.20	15	0	36	17	100.44	76	1	100	0	0
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	36	40.70	71	24.55	32	6.00	17	0	40	33	103.36	79	1	100	0	0
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	37	41.86	83	29.22	38	7.80	20	1	40	33	95.08	72	1	100	0	0
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	29	32.56	60	20.26	43	9.30	21	1	44	50	116.54	91	1	100	0	0
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	37	41.86	80	28.05	49	11.10	28	1	43	46	75.72	55	1	100	0	0
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	27	30.23	53	17.53	46	10.20	24	1	41	38	124.83	98	1	100	0	0
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	26	29.07	62	21.04	40	8.40	22	1	40	33	96.48	73	1	100	0	0
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	37	41.86	76	26.49	34	6.60	14	0	41	38	89.76	67	1	100	0	0
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	38	43.02	74	25.71	44	9.60	22	1	40	33	123.43	97	1	100	0	0
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	35	39.53	69	23.77	37	7.50	17	0	37	21	90.14	67	1	100	0	0
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	37	41.86	80	28.05	49	11.10	28	1	42	42	83.63	62	1	100	0	0
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	42	47.67	79	27.66	42	9.00	21	1	44	50	112.74	87	1	100	0	0

**Institutional land use includes schools, churches, and hospitals
**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Land Use															
Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000-ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	35	39.53	76	26.49	41	8.70	23	1	36	17	103.38	79	1	100	0	0
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	37	41.86	76	26.49	34	6.60	14	0	42	42	81.84	60	1	100	0	0
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	39	44.19	81	28.44	39	8.10	22	1	40	33	92.69	70	1	100	0	0
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	41	46.51	85	30.00	47	10.50	27	1	47	63	72.94	52	1	100	0	0
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	31	34.88	58	19.48	44	9.60	23	1	45	54	114.14	88	1	100	0	0
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	39	44.19	74	25.71	35	6.90	16	0	41	38	87.36	65	1	100	0	0
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	39	44.19	74	25.71	35	6.90	16	0	41	38	87.36	65	1	100	0	0
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	41	46.51	85	30.00	47	10.50	27	1	48	67	65.03	45	1	100	0	0
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	34	38.37	74	25.71	33	6.30	12	0	43	46	92.01	69	1	100	0	0
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	40	45.35	72	24.94	45	9.90	24	1	41	38	121.04	95	1	100	0	0
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	39	44.19	74	25.71	35	6.90	16	0	42	42	79.45	58	1	100	0	0
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	34	38.37	81	28.44	37	7.50	18	0	42	42	105.25	81	1	100	0	0
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	44	50.00	77	26.88	43	9.30	23	1	45	54	110.35	85	1	100	0	0
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	34	38.37	74	25.71	33	6.30	12	0	42	42	99.92	76	1	100	0	0
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	38	43.02	83	29.22	46	10.20	25	1	49	71	75.20	54	1	100	0	0
483	18,19,21,29,43,44,59,66,67,70,77,78,79	33	37.21	79	27.66	42	9.00	18	0	39	29	92.03	69	1	100	0	0
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	39	44.19	77	26.88	41	8.70	19	1	46	58	122.91	96	1	100	0	0
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	36	40.70	72	24.94	34	6.60	14	0	43	46	89.62	67	1	100	0	0
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	38	43.02	83	29.22	46	10.20	25	1	48	67	83.11	61	1	100	0	0
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	33	37.21	79	27.66	42	9.00	18	0	38	25	99.94	76	1	100	0	0
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	36	40.70	79	27.66	38	7.80	20	1	42	42	102.85	79	1	100	0	0
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	36	40.70	72	24.94	34	6.60	14	0	42	42	97.53	74	1	100	0	0
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	38	43.02	75	26.10	46	10.20	19	1	43	46	109.69	85	1	100	0	0
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	37	41.86	84	29.61	40	8.40	17	0	43	46	89.25	67	1	100	0	0
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	35	39.53	77	26.88	43	9.30	20	1	39	29	89.63	67	1	100	0	0
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	38	43.02	75	26.10	46	10.20	19	1	42	42	117.60	92	1	100	0	0
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	37	41.86	84	29.61	40	8.40	17	0	44	50	81.34	60	1	100	0	0
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	35	39.53	77	26.88	43	9.30	20	1	38	25	97.54	74	1	100	0	0
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	41	46.51	75	26.10	42	9.00	21	1	47	63	120.52	94	1	100	0	0
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	42	47.67	80	28.05	44	9.60	18	0	47	63	106.91	82	1	100	0	0
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	39	44.19	82	28.83	41	8.70	19	1	43	46	86.86	64	1	100	0	0
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	40	45.35	73	25.32	47	10.50	21	1	44	50	107.29	82	1	100	0	0
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	42	47.67	80	28.05	44	9.60	18	0	48	67	99.00	75	1	100	0	0
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	34	38.37	82	28.83	39	8.10	15	0	45	54	91.51	69	1	100	0	0
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	39	44.19	82	28.83	41	8.70	19	1	44	50	78.94	58	1	100	0	0
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	40	45.35	73	25.32	47	10.50	21	1	43	46	115.21	89	1	100	0	0
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	34	38.37	82	28.83	39	8.10	15	0	44	50	99.42	76	1	100	0	0
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	39	44.19	78	27.27	43	9.30	16	0	49	71	109.17	84	1	100	0	0
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	44	50.00	78	27.27	45	9.90	20	1	48	67	104.52	80	1	100	0	0
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	36	40.70	80	28.05	40	8.40	17	0	45	54	89.11	66	1	100	0	0
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	39	44.19	78	27.27	43	9.30	16	0	48	67	117.08	91	1	100	0	0
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	44	50.00	78	27.27	45	9.90	20	1	49	71	96.61	73	1	100	0	0
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	36	40.70	80	28.05	40	8.40	17	0	44	50	97.02	73	1	100	0	0
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	41	46.51	76	26.49	44	9.60	18	0	50	75	106.77	82	1	100	0	0
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	41	46.51	76	26.49	44	9.60	18	0	49	71	114.68	89	1	100	0	0
	MIN	1	0.00	8	0.00	12	0.00	12	0	32	0	13.51	0	0	0	0	0
	MAX	44	50.00	85	30.00	62	15.00	78	5	56	100	127.22	100	1	100	0	0
	RANGE	43	50.00	77	30.00	50	15.00	66	5	24	100	113.71	100	1	100	0	0

**Institutional land use includes schools, churches, and hospitals
**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	0	0	6	40	0.00	0	5.88	2	0.00	40	3.89	26	8.37	6	1.13	5
149	3,11,16,23,25,31,33,45,47,48,52,65,67	0	0	5	30	0.00	0	5.27	5	0.00	40	5.30	0	8.33	5	1.07	0
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	0	0	6	40	0.00	0	4.86	7	0.00	40	2.70	49	8.54	9	1.13	5
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	0	0	5	30	0.00	0	4.25	10	0.00	40	4.10	23	8.49	8	1.07	0
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	0	0	7	50	0.00	0	3.85	11	0.00	40	3.89	26	8.94	17	2.16	100
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	0	0	7	50	0.00	0	2.83	16	0.00	40	2.70	49	9.10	21	2.16	100
500	14,20,29,43,44,55,67,70,76,78,79	0	0	4	20	0.00	0	3.21	15	0.00	40	0.00	100	9.45	28	1.13	5
450	23,25,31,33,45,47,48,52,65,67,77,78,82	0	0	7	50	0.00	0	5.88	2	0.00	40	2.89	46	8.37	6	1.13	5
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	0	0	9	70	0.00	0	5.86	2	0.00	40	3.33	37	8.47	8	1.13	5
497	11,14,20,29,43,44,55,67,70,76,79,81,83	0	0	6	40	0.00	0	3.20	15	0.00	40	0.44	92	9.55	30	1.13	5
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	0	0	8	60	0.00	0	5.19	5	0.43	0	3.43	35	9.28	24	1.13	5
18	2,7,13,28,43,44,55,67,70,76	0	0	5	30	0.00	0	0.76	26	0.00	40	0.00	100	9.66	32	2.16	100
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	0	0	7	50	0.00	0	4.86	7	0.00	40	1.69	68	8.53	9	1.13	5
430	11,16,23,25,34,47,48,52,65,67,79,81	0	0	4	20	0.00	0	6.23	0	0.00	40	3.89	26	8.14	1	1.13	5
136	3,11,14,20,29,43,44,55,67,70,76,83	0	0	5	30	0.00	0	2.59	18	0.00	40	1.85	65	9.50	29	1.07	0
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	0	0	9	70	0.00	0	4.84	7	0.00	40	2.13	60	8.63	11	1.13	5
506	14,20,22,28,43,44,55,67,70,76,78,79	0	0	5	30	0.00	0	3.21	15	0.00	40	0.00	100	9.71	33	1.13	5
151	3,11,16,23,25,31,33,45,47,52,53,69,80	0	0	7	50	0.00	0	4.58	8	0.43	0	4.84	9	9.23	23	1.07	0
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	0	0	8	60	0.00	0	5.26	5	0.00	40	4.73	11	8.42	7	1.07	0
181	3,14,20,29,43,44,55,67,70,76,78,81	0	0	5	30	0.00	0	2.60	17	0.00	40	1.40	74	9.52	29	1.07	0
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	0	0	7	50	0.00	0	3.20	15	0.00	40	0.44	92	9.80	35	1.13	5
154	3,11,16,23,25,34,47,48,52,65,67	0	0	3	10	0.00	0	5.62	3	0.00	40	5.30	0	8.09	0	1.07	0
470	14,15,19,30,33,45,47,48,52,65,67,78,79	0	0	5	30	0.00	0	4.81	7	0.00	40	2.34	56	8.61	11	1.13	5
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	0	0	8	60	0.00	0	4.23	10	0.00	40	3.53	33	8.58	10	1.07	0
525	7,8,13,28,43,44,55,67,70,76,79	0	0	6	40	0.00	0	2.79	17	0.00	40	0.00	100	10.26	44	1.13	5
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	0	0	7	50	0.00	0	4.80	7	0.00	40	2.78	48	8.71	13	1.13	5
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	0	0	8	60	0.00	0	5.27	5	0.00	40	4.29	19	8.43	7	1.07	0
133	3,11,14,20,22,28,43,44,55,67,70,76,83	0	0	6	40	0.00	0	2.59	18	0.00	40	1.85	65	9.75	34	1.07	0
155	3,11,16,23,25,34,47,48,52,67,70,76,84	0	0	3	10	0.00	0	4.59	8	0.00	40	4.10	23	8.25	3	1.07	0
431	11,16,23,25,34,47,48,52,67,70,76,84	0	0	3	10	0.00	0	4.59	8	0.00	40	4.10	23	8.25	3	1.07	0
80	2,8,14,20,29,43,44,55,67,70,76,78	0	0	5	30	0.00	0	1.18	24	0.00	40	0.00	100	10.02	39	2.16	100
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	0	0	8	60	0.00	0	4.25	10	0.00	40	3.09	42	8.60	10	1.07	0
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	0	0	8	60	0.00	0	3.85	11	0.00	40	2.89	46	8.93	17	2.16	100
178	3,14,20,22,28,43,44,55,67,70,76,78,81	0	0	6	40	0.00	0	2.60	17	0.00	40	1.40	74	9.77	34	1.07	0
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	0	0	5	30	0.00	0	3.79	12	0.00	40	1.14	78	8.78	14	1.13	5
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	0	0	10	80	0.00	0	3.83	12	0.00	40	3.33	37	9.03	19	2.16	100
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	0	0	7	50	0.00	0	3.77	12	0.00	40	1.58	70	8.87	16	1.13	5
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	6	40	0.00	0	4.19	10	0.00	40	4.18	21	8.66	12	1.07	0
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	0	0	7	50	0.00	0	1.17	24	0.00	40	0.44	92	10.11	41	2.16	100
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	0	0	9	70	0.00	0	3.16	15	0.43	0	3.43	35	9.84	36	2.16	100
203	3,7,8,13,28,43,44,55,67,70,76,81	0	0	7	50	0.00	0	2.18	19	0.00	40	1.40	74	10.32	46	1.07	0
15	2,10,20,29,43,44,55,67,70,76	0	0	4	20	0.00	0	0.76	26	0.00	40	0.00	100	9.10	21	2.16	100
501	14,20,29,43,44,59,66,67,70,78,79	0	0	2	0	0.00	0	2.45	18	0.00	40	0.00	100	9.17	22	1.13	5
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	6	40	0.00	0	3.16	15	0.00	40	2.99	44	8.82	15	1.07	0
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	0	0	8	60	0.00	0	2.83	16	0.00	40	1.69	68	9.10	21	2.16	100
53	2,8,11,16,23,25,34,47,48,52,65,67,81	0	0	5	30	0.00	0	4.20	10	0.00	40	3.89	26	8.70	13	2.16	100
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	0	0	6	40	0.00	0	4.20	10	0.00	40	3.74	29	8.68	12	1.07	0
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	0	0	10	80	0.00	0	2.81	16	0.00	40	2.13	60	9.19	23	2.16	100
77	2,8,14,20,22,28,43,44,55,67,70,76,78	0	0	6	40	0.00	0	1.18	24	0.00	40	0.00	100	10.27	45	2.16	100
498	11,14,20,29,43,44,59,66,67,70,79,81,83	0	0	4	20	0.00	0	2.44	18	0.00	40	0.44	92	9.26	24	1.13	5
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	0	0	8	60	0.00	0	1.17	24	0.00	40	0.44	92	10.36	47	2.16	100
502	14,20,29,42,43,57,58,66,67,70,78,79	0	0	3	10	0.00	0	2.45	18	0.00	40	0.00	100	11.62	72	1.13	5

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	0	0	6	40	0.00	0	3.18	15	0.00	40	2.54	52	8.84	15	1.07	0
19	2,7,13,28,43,44,59,66,67,70	0	0	3	10	0.00	0	0.00	30	0.00	40	0.00	100	9.37	26	2.16	100
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	0	0	6	40	0.00	0	2.78	17	0.00	40	2.34	56	9.17	22	2.16	100
519	8,10,20,29,43,44,55,67,70,76,79	0	0	5	30	0.00	0	2.79	17	0.00	40	0.00	100	9.71	33	1.13	5
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	0	0	8	60	0.00	0	2.76	17	0.00	40	2.78	48	9.27	24	2.16	100
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	0	0	5	30	0.00	0	3.17	15	0.00	40	2.70	49	8.86	16	2.16	100
137	3,11,14,20,29,43,44,59,66,67,70,83	0	0	3	10	0.00	0	1.83	21	0.00	40	1.85	65	9.22	23	1.07	0
12	2,10,20,22,28,43,44,55,67,70,76	0	0	5	30	0.00	0	0.76	26	0.00	40	0.00	100	9.36	26	2.16	100
507	14,20,22,28,43,44,59,66,67,70,78,79	0	0	3	10	0.00	0	2.45	18	0.00	40	0.00	100	9.42	27	1.13	5
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	0	0	5	30	0.00	0	2.44	18	0.00	40	0.44	92	11.71	74	1.13	5
9	2,10,15,19,30,33,45,47,48,52,65,67	0	0	5	30	0.00	0	2.36	19	0.00	40	2.34	56	8.26	4	2.16	100
182	3,14,20,29,43,44,59,66,67,70,78,81	0	0	3	10	0.00	0	1.84	21	0.00	40	1.40	74	9.23	23	1.07	0
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	0	0	5	30	0.00	0	2.44	18	0.00	40	0.44	92	9.52	29	1.13	5
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	0	0	6	40	0.00	0	1.76	22	0.00	40	1.14	78	9.34	26	2.16	100
526	7,8,13,28,43,44,59,66,67,70,79	0	0	4	20	0.00	0	2.03	20	0.00	40	0.00	100	9.97	39	1.13	5
135	3,11,14,20,29,42,43,57,58,66,67,70,83	0	0	4	20	0.00	0	1.83	21	0.00	40	1.85	65	11.67	73	1.07	0
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	0	0	8	60	0.00	0	1.74	22	0.00	40	1.58	70	9.43	28	2.16	100
17	2,7,13,28,42,43,57,58,66,67,70	0	0	4	20	0.00	0	0.00	30	0.00	40	0.00	100	11.82	76	2.16	100
522	8,10,20,22,28,43,44,55,67,70,76,79	0	0	6	40	0.00	0	2.79	17	0.00	40	0.00	100	9.96	38	1.13	5
219	3,8,10,20,29,43,44,55,67,70,76,81	0	0	6	40	0.00	0	2.18	19	0.00	40	1.40	74	9.77	34	1.07	0
134	3,11,14,20,22,28,43,44,59,66,67,70,83	0	0	4	20	0.00	0	1.83	21	0.00	40	1.85	65	9.47	28	1.07	0
508	14,20,22,28,42,43,57,58,66,67,70,78,79	0	0	4	20	0.00	0	2.45	18	0.00	40	0.00	100	11.87	77	1.13	5
180	3,14,20,29,42,43,57,58,66,67,70,78,81	0	0	4	20	0.00	0	1.84	21	0.00	40	1.40	74	11.68	74	1.07	0
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	0	0	5	30	0.00	0	1.33	24	0.00	40	1.14	78	8.43	7	2.16	100
81	2,8,14,20,29,43,44,59,66,67,70,78	0	0	3	10	0.00	0	0.42	28	0.00	40	0.00	100	9.73	34	2.16	100
510	8,10,15,19,30,33,45,47,48,52,65,67,79	0	0	6	40	0.00	0	4.39	9	0.00	40	2.34	56	8.87	16	1.13	5
179	3,14,20,22,28,43,44,59,66,67,70,78,81	0	0	4	20	0.00	0	1.84	21	0.00	40	1.40	74	9.48	29	1.07	0
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	0	0	6	40	0.00	0	2.44	18	0.00	40	0.44	92	11.97	79	1.13	5
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	0	0	5	30	0.00	0	0.41	28	0.00	40	0.44	92	9.83	36	2.16	100
527	7,8,13,28,42,43,57,58,66,67,70,79	0	0	5	30	0.00	0	2.03	20	0.00	40	0.00	100	12.42	89	1.13	5
204	3,7,8,13,28,43,44,59,66,67,70,81	0	0	5	30	0.00	0	1.42	23	0.00	40	1.40	74	10.04	40	1.07	0
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	0	0	9	70	0.00	0	5.19	5	0.43	0	2.43	54	9.28	24	1.13	5
79	2,8,14,20,29,42,43,57,58,66,67,70,78	0	0	4	20	0.00	0	0.42	28	0.00	40	0.00	100	12.18	84	2.16	100
216	3,8,10,20,22,28,43,44,55,67,70,76,81	0	0	7	50	0.00	0	2.18	19	0.00	40	1.40	74	10.02	40	1.07	0
16	2,10,20,29,43,44,59,66,67,70	0	0	2	0	0.00	0	0.00	30	0.00	40	0.00	100	8.82	15	2.16	100
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	0	0	5	30	0.00	0	1.83	21	0.00	40	1.85	65	11.92	78	1.07	0
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	0	0	11	90	0.00	0	5.17	5	0.43	0	2.87	46	9.37	26	1.13	5
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	0	0	6	40	0.00	0	3.37	14	0.00	40	1.14	78	9.03	19	1.13	5
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	0	0	6	40	0.00	0	5.59	3	0.00	40	2.70	49	9.78	35	1.13	5
78	2,8,14,20,22,28,43,44,59,66,67,70,78	0	0	4	20	0.00	0	0.42	28	0.00	40	0.00	100	9.98	39	2.16	100
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	0	0	5	30	0.00	0	4.99	6	0.00	40	4.10	23	9.73	34	1.07	0
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	0	0	6	40	0.00	0	0.41	28	0.00	40	0.44	92	12.28	86	2.16	100
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	0	0	5	30	0.00	0	1.84	21	0.00	40	1.40	74	11.93	79	1.07	0
438	23,25,34,47,48,52,65,67,78,79,82	0	0	5	30	0.00	0	6.22	0	0.00	40	2.89	46	8.13	1	1.13	5
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	0	0	7	50	0.00	0	6.21	0	0.00	40	3.33	37	8.23	3	1.13	5
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	0	0	7	50	0.00	0	3.78	12	0.00	40	3.74	29	8.93	17	1.07	0
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	0	0	6	40	0.00	0	0.41	28	0.00	40	0.44	92	10.08	41	2.16	100
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	0	0	6	40	0.00	0	5.36	4	0.00	40	3.37	36	8.75	13	1.13	5
14	2,10,20,29,42,43,57,58,66,67,70	0	0	3	10	0.00	0	0.00	30	0.00	40	0.00	100	11.27	65	2.16	100
202	3,7,8,13,28,42,43,57,58,66,67,70,81	0	0	6	40	0.00	0	1.42	23	0.00	40	1.40	74	12.49	90	1.07	0
429	11,16,23,25,34,47,48,52,53,69,79,80,81	0	0	6	40	0.00	0	5.53	3	0.43	0	3.43	35	9.04	20	1.13	5
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	0	0	10	80	0.00	0	4.56	8	0.43	0	4.27	19	9.32	25	1.07	0

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
520	8,10,20,29,43,44,59,66,67,70,79	0	0	3	10	0.00	0	2.03	20	0.00	40	0.00	100	9.42	27	1.13	5
13	2,10,20,22,28,43,44,59,66,67,70	0	0	3	10	0.00	0	0.00	30	0.00	40	0.00	100	9.07	20	2.16	100
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	0	0	7	50	0.00	0	2.76	17	0.00	40	2.54	52	9.09	21	1.07	0
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	0	0	5	30	0.00	0	5.20	5	0.00	40	1.69	68	8.30	4	1.13	5
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	0	0	5	30	0.00	0	0.42	28	0.00	40	0.00	100	12.43	89	2.16	100
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	5	30	0.00	0	4.75	7	0.00	40	4.78	10	8.70	12	1.07	0
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	0	0	7	50	0.00	0	5.19	5	0.00	40	2.13	60	8.39	6	1.13	5
152	3,11,16,23,25,34,47,48,52,53,69,80	0	0	5	30	0.00	0	4.92	6	0.43	0	4.84	9	8.99	19	1.07	0
172	3,11,23,25,34,47,48,52,65,67,77,82,83	0	0	6	40	0.00	0	5.60	3	0.00	40	4.73	11	8.18	2	1.07	0
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	0	0	7	50	0.00	0	4.12	10	0.43	0	1.88	65	9.52	29	1.13	5
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	0	0	6	40	0.00	0	4.33	9	0.00	40	2.17	59	8.91	17	1.13	5
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	0	0	9	70	0.00	0	4.10	10	0.43	0	2.32	56	9.61	31	1.13	5
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	0	0	10	80	0.00	0	4.58	8	0.43	0	3.83	28	9.34	26	1.07	0
521	8,10,20,29,42,43,57,58,66,67,70,79	0	0	4	20	0.00	0	2.03	20	0.00	40	0.00	100	11.87	78	1.13	5
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	0	0	7	50	0.00	0	0.41	28	0.00	40	0.44	92	12.53	91	2.16	100
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	5	30	0.00	0	3.72	12	0.00	40	3.58	32	8.86	16	1.07	0
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	0	0	6	40	0.00	0	4.58	8	0.00	40	3.53	33	8.35	5	1.07	0
523	8,10,20,22,28,43,44,59,66,67,70,79	0	0	4	20	0.00	0	2.03	20	0.00	40	0.00	100	9.67	32	1.13	5
220	3,8,10,20,29,43,44,59,66,67,70,81	0	0	4	20	0.00	0	1.42	23	0.00	40	1.40	74	9.49	29	1.07	0
11	2,10,20,22,28,42,43,57,58,66,67,70	0	0	4	20	0.00	0	0.00	30	0.00	40	0.00	100	11.52	70	2.16	100
199	3,23,25,34,47,48,52,65,67,78,81,82	0	0	6	40	0.00	0	5.61	3	0.00	40	4.29	19	8.20	2	1.07	0
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	0	0	10	80	0.00	0	3.15	15	0.43	0	2.43	54	9.84	36	2.16	100
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	0	0	12	100	0.00	0	3.14	15	0.43	0	2.87	46	9.93	38	2.16	100
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	0	0	7	50	0.00	0	3.56	13	0.00	40	2.70	49	10.34	46	2.16	100
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	0	0	8	60	0.00	0	3.49	13	0.43	0	3.72	30	9.57	30	1.07	0
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	0	0	6	40	0.00	0	4.59	8	0.00	40	3.09	42	8.36	6	1.07	0
218	3,8,10,20,29,42,43,57,58,66,67,70,81	0	0	5	30	0.00	0	1.42	23	0.00	40	1.40	74	11.94	79	1.07	0
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	0	0	8	60	0.00	0	4.18	10	0.00	40	3.33	37	8.79	14	2.16	100
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	0	0	7	50	0.00	0	3.32	14	0.00	40	3.37	36	9.31	25	2.16	100
524	8,10,20,22,28,42,43,57,58,66,67,70,79	0	0	5	30	0.00	0	2.03	20	0.00	40	0.00	100	12.12	83	1.13	5
217	3,8,10,20,22,28,43,44,59,66,67,70,81	0	0	5	30	0.00	0	1.42	23	0.00	40	1.40	74	9.74	34	1.07	0
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	0	0	7	50	0.00	0	3.50	13	0.43	0	3.43	35	9.60	31	2.16	100
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	0	0	8	60	0.00	0	3.51	13	0.43	0	3.28	38	9.58	31	1.07	0
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	0	0	6	40	0.00	0	3.17	15	0.00	40	1.69	68	8.86	16	2.16	100
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	0	0	8	60	0.00	0	3.16	15	0.00	40	2.13	60	8.96	18	2.16	100
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	0	0	8	60	0.00	0	2.09	20	0.43	0	1.88	65	10.08	41	2.16	100
462	18,19,30,33,45,47,48,52,65,67,77,78,79	0	0	5	30	0.00	0	5.35	4	0.00	40	2.34	56	8.64	11	1.13	5
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	0	0	7	50	0.00	0	2.30	19	0.00	40	2.17	59	9.47	28	2.16	100
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	0	0	10	80	0.00	0	2.07	20	0.43	0	2.32	56	10.18	43	2.16	100
458	11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	7	50	0.00	0	5.34	4	0.00	40	2.78	48	8.74	13	1.13	5
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	0	0	6	40	0.00	0	1.42	23	0.00	40	1.40	74	12.19	84	1.07	0
7	2,10,15,19,30,33,45,47,48,52,53,69,80	0	0	7	50	0.00	0	1.66	22	0.43	0	1.88	65	9.17	22	2.16	100
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	0	0	5	30	0.00	0	4.33	9	0.00	40	1.14	78	8.80	15	1.13	5
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	0	0	7	50	0.00	0	4.32	9	0.00	40	1.58	70	8.90	17	1.13	5
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	6	40	0.00	0	4.73	7	0.00	40	4.18	21	8.69	12	1.07	0
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	0	0	8	60	0.00	0	3.69	12	0.43	0	1.88	65	9.77	34	1.13	5
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	0	0	6	40	0.00	0	3.71	12	0.00	40	2.99	44	8.85	16	1.07	0
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	0	0	7	50	0.00	0	5.59	3	0.00	40	1.69	68	9.77	35	1.13	5
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	6	40	0.00	0	4.74	7	0.00	40	3.74	29	8.70	13	1.07	0
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	0	0	9	70	0.00	0	5.58	3	0.00	40	2.13	60	9.87	36	1.13	5
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	6	40	0.00	0	3.72	12	0.00	40	2.54	52	8.86	16	1.07	0
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	0	0	6	40	0.00	0	3.32	14	0.00	40	2.34	56	9.20	23	2.16	100

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	0	0	8	60	0.00	0	3.31	14	0.00	40	2.78	48	9.30	25	2.16	100
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	0	0	8	60	0.00	0	4.97	6	0.00	40	3.53	33	9.82	35	1.07	0
437	23,25,34,47,48,52,53,69,77,78,79,80,82	0	0	7	50	0.00	0	5.53	3	0.43	0	2.43	54	9.04	19	1.13	5
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	0	0	9	70	0.00	0	5.52	3	0.43	0	2.87	46	9.14	21	1.13	5
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	0	0	4	20	0.00	0	5.94	1	0.00	40	2.70	49	9.54	30	1.13	5
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	0	0	8	60	0.00	0	3.20	15	0.00	40	0.44	92	9.96	38	1.13	5
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	0	0	9	70	0.00	0	3.09	15	0.43	0	3.28	38	9.84	36	1.07	0
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	0	0	8	60	0.00	0	4.66	8	0.43	0	2.91	45	9.65	32	1.13	5
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	8	60	0.00	0	4.98	6	0.00	40	3.09	42	9.84	36	1.07	0
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	0	0	3	10	0.00	0	5.33	4	0.00	40	4.10	23	9.49	29	1.07	0
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	0	0	5	30	0.00	0	4.52	8	0.00	40	1.14	78	10.01	39	1.13	5
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	0	0	6	40	0.00	0	2.30	19	0.00	40	1.14	78	9.36	26	2.16	100
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	0	0	8	60	0.00	0	2.29	19	0.00	40	1.58	70	9.46	28	2.16	100
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	0	0	7	50	0.00	0	2.59	18	0.00	40	1.85	65	9.91	37	1.07	0
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	0	0	7	50	0.00	0	4.05	10	0.43	0	4.31	19	9.60	31	1.07	0
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	0	0	7	50	0.00	0	4.51	8	0.00	40	1.58	70	10.11	41	1.13	5
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	0	0	8	60	0.00	0	4.91	6	0.43	0	4.27	19	9.09	20	1.07	0
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	0	0	9	70	0.00	0	3.20	15	0.00	40	0.44	92	10.21	43	1.13	5
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	0	0	8	60	0.00	0	3.56	13	0.00	40	1.69	68	10.33	46	2.16	100
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	6	40	0.00	0	3.90	11	0.00	40	2.99	44	10.06	40	1.07	0
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	0	0	8	60	0.00	0	4.92	6	0.43	0	3.83	28	9.10	21	1.07	0
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	0	0	10	80	0.00	0	3.55	13	0.00	40	2.13	60	10.43	48	2.16	100
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	0	0	8	60	0.00	0	2.59	18	0.00	40	1.85	65	10.16	42	1.07	0
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	0	0	6	40	0.00	0	3.91	11	0.00	40	2.54	52	10.08	41	1.07	0
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	0	0	8	60	0.00	0	3.50	13	0.43	0	2.43	54	9.60	31	2.16	100
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	0	0	10	80	0.00	0	3.49	13	0.43	0	2.87	46	9.70	33	2.16	100
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	0	0	5	30	0.00	0	3.91	11	0.00	40	2.70	49	10.10	41	2.16	100
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	0	0	9	70	0.00	0	1.17	24	0.00	40	0.44	92	10.52	50	2.16	100
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	0	0	9	70	0.00	0	2.63	17	0.43	0	2.91	45	10.21	44	2.16	100
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	0	0	6	40	0.00	0	2.49	18	0.00	40	1.14	78	10.58	51	2.16	100
5	2,10,15,19,21,29,43,44,55,67,70,76	0	0	6	40	0.00	0	0.76	26	0.00	40	0.00	100	9.51	29	2.16	100
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	0	0	8	60	0.00	0	2.48	18	0.00	40	1.58	70	10.67	53	2.16	100
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	0	0	6	40	0.00	0	2.44	18	0.00	40	0.44	92	9.67	32	1.13	5
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	0	0	7	50	0.00	0	4.66	8	0.43	0	1.88	65	9.54	30	1.13	5
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	0	0	10	80	0.00	0	1.17	24	0.00	40	0.44	92	10.77	55	2.16	100
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	0	0	9	70	0.00	0	4.65	8	0.43	0	2.32	56	9.64	32	1.13	5
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	0	0	5	30	0.00	0	2.07	20	0.00	40	1.14	78	9.67	32	2.16	100
513	8,10,15,19,21,29,43,44,55,67,70,76,79	0	0	7	50	0.00	0	2.79	17	0.00	40	0.00	100	10.12	42	1.13	5
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	0	0	5	30	0.00	0	1.83	21	0.00	40	1.85	65	9.62	31	1.07	0
2	2,10,15,19,21,22,28,43,44,55,67,70,76	0	0	7	50	0.00	0	0.76	26	0.00	40	0.00	100	9.76	34	2.16	100
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	0	0	7	50	0.00	0	2.44	18	0.00	40	0.44	92	12.12	83	1.13	5
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	0	0	7	50	0.00	0	2.44	18	0.00	40	0.44	92	9.92	38	1.13	5
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	0	0	8	60	0.00	0	4.04	11	0.43	0	3.72	30	9.59	31	1.07	0
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	0	0	6	40	0.00	0	1.83	21	0.00	40	1.85	65	12.07	82	1.07	0
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	0	0	6	40	0.00	0	4.10	10	0.00	40	1.14	78	10.27	45	1.13	5
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	0	0	8	60	0.00	0	2.79	17	0.00	40	0.00	100	10.37	47	1.13	5
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	0	0	6	40	0.00	0	1.83	21	0.00	40	1.85	65	9.87	37	1.07	0
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	0	0	8	60	0.00	0	2.18	19	0.00	40	1.40	74	10.18	43	1.07	0
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	0	0	8	60	0.00	0	4.05	10	0.43	0	3.28	38	9.61	31	1.07	0
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	0	0	7	50	0.00	0	3.76	12	0.00	40	1.03	80	9.99	39	1.13	5
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	0	0	8	60	0.00	0	2.44	18	0.00	40	0.44	92	12.37	88	1.13	5
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	0	0	5	30	0.00	0	5.94	1	0.00	40	1.69	68	9.54	30	1.13	5

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	0	0	7	50	0.00	0	0.41	28	0.00	40	0.44	92	10.23	44	2.16	100
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	6	40	0.00	0	3.15	15	0.00	40	2.44	54	9.95	38	1.07	0
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	7	50	0.00	0	3.49	13	0.00	40	2.54	52	10.33	46	1.07	0
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	0	0	8	60	0.00	0	2.63	17	0.43	0	1.88	65	10.10	41	2.16	100
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	0	0	10	80	0.00	0	2.62	17	0.43	0	2.32	56	10.20	43	2.16	100
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	0	0	7	50	0.00	0	5.92	1	0.00	40	2.13	60	9.63	32	1.13	5
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	0	0	7	50	0.00	0	1.83	21	0.00	40	1.85	65	12.32	87	1.07	0
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	0	0	9	70	0.00	0	2.18	19	0.00	40	1.40	74	10.43	48	1.07	0
6	2,10,15,19,21,29,43,44,59,66,67,70	0	0	4	20	0.00	0	0.00	30	0.00	40	0.00	100	9.23	23	2.16	100
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	0	0	6	40	0.00	0	5.07	6	0.00	40	2.17	59	10.15	42	1.13	5
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	0	0	8	60	0.00	0	0.41	28	0.00	40	0.44	92	12.68	94	2.16	100
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	0	0	8	60	0.00	0	3.76	12	0.00	40	1.03	80	10.25	44	1.13	5
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	0	0	5	30	0.00	0	4.46	9	0.00	40	3.58	32	10.10	41	1.07	0
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	0	0	6	40	0.00	0	5.31	4	0.00	40	3.53	33	9.58	31	1.07	0
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	0	0	8	60	0.00	0	0.41	28	0.00	40	0.44	92	10.49	49	2.16	100
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	7	50	0.00	0	3.15	15	0.00	40	2.44	54	10.20	43	1.07	0
4	2,10,15,19,21,29,42,43,57,58,66,67,70	0	0	5	30	0.00	0	0.00	30	0.00	40	0.00	100	11.68	73	2.16	100
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	0	0	6	40	0.00	0	5.33	4	0.00	40	3.09	42	9.60	31	1.07	0
514	8,10,15,19,21,29,43,44,59,66,67,70,79	0	0	5	30	0.00	0	2.03	20	0.00	40	0.00	100	9.83	36	1.13	5
3	2,10,15,19,21,22,28,43,44,59,66,67,70	0	0	5	30	0.00	0	0.00	30	0.00	40	0.00	100	9.48	28	2.16	100
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	0	0	8	60	0.00	0	1.73	22	0.00	40	1.03	80	10.56	51	2.16	100
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	0	0	9	70	0.00	0	0.41	28	0.00	40	0.44	92	12.93	99	2.16	100
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	0	0	6	40	0.00	0	2.03	20	0.00	40	0.00	100	12.28	86	1.13	5
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	0	0	6	40	0.00	0	3.91	11	0.00	40	1.69	68	10.10	41	2.16	100
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	0	0	6	40	0.00	0	2.03	20	0.00	40	0.00	100	10.08	41	1.13	5
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	0	0	6	40	0.00	0	1.42	23	0.00	40	1.40	74	9.89	37	1.07	0
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	0	0	6	40	0.00	0	0.00	30	0.00	40	0.00	100	11.93	79	2.16	100
482	18,19,21,29,43,44,55,67,70,76,77,78,79	0	0	6	40	0.00	0	3.76	12	0.00	40	0.00	100	9.89	37	1.13	5
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	0	0	8	60	0.00	0	3.89	11	0.00	40	2.13	60	10.19	43	2.16	100
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	0	0	7	50	0.00	0	3.04	15	0.00	40	2.17	59	10.71	54	2.16	100
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	0	0	5	30	0.00	0	3.00	16	0.00	40	1.03	80	9.71	33	1.13	5
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	0	0	8	60	0.00	0	3.74	12	0.00	40	0.44	92	9.98	39	1.13	5
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	0	0	9	70	0.00	0	1.73	22	0.00	40	1.03	80	10.81	56	2.16	100
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	4	20	0.00	0	2.39	18	0.00	40	2.44	54	9.66	32	1.07	0
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	0	0	7	50	0.00	0	1.42	23	0.00	40	1.40	74	12.34	87	1.07	0
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	0	0	5	30	0.00	0	5.07	6	0.00	40	1.14	78	10.04	40	1.13	5
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	0	0	7	50	0.00	0	2.03	20	0.00	40	0.00	100	12.53	91	1.13	5
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	0	0	7	50	0.00	0	1.42	23	0.00	40	1.40	74	10.14	42	1.07	0
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	7	50	0.00	0	3.13	15	0.00	40	1.85	65	9.93	38	1.07	0
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	0	0	6	40	0.00	0	3.00	16	0.00	40	1.03	80	12.16	83	1.13	5
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	0	0	7	50	0.00	0	3.76	12	0.00	40	0.00	100	10.14	42	1.13	5
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	0	0	7	50	0.00	0	5.05	6	0.00	40	1.58	70	10.14	42	1.13	5
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	0	0	5	30	0.00	0	2.39	18	0.00	40	2.44	54	12.11	82	1.07	0

		Technical															
Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	0	0	6	40	0.00	0	3.00	16	0.00	40	1.03	80	9.96	38	1.13	5
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	7	50	0.00	0	3.15	15	0.00	40	1.40	74	9.95	38	1.07	0
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	5	30	0.00	0	2.39	18	0.00	40	2.44	54	9.91	37	1.07	0
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	6	40	0.00	0	4.44	9	0.00	40	2.99	44	10.09	41	1.07	0
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	0	0	8	60	0.00	0	1.42	23	0.00	40	1.40	74	12.59	92	1.07	0
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	8	60	0.00	0	3.13	15	0.00	40	1.85	65	10.19	43	1.07	0
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	0	0	8	60	0.00	0	3.13	15	0.00	40	1.85	65	10.19	43	1.07	0
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	0	0	6	40	0.00	0	4.46	9	0.00	40	2.54	52	10.10	41	1.07	0
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	0	0	7	50	0.00	0	1.73	22	0.00	40	0.00	100	10.45	48	2.16	100
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	0	0	7	50	0.00	0	3.00	16	0.00	40	1.03	80	12.41	89	1.13	5
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	8	60	0.00	0	3.15	15	0.00	40	1.40	74	10.20	43	1.07	0
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	0	0	6	40	0.00	0	0.97	25	0.00	40	1.03	80	10.27	45	2.16	100
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	0	0	6	40	0.00	0	2.39	18	0.00	40	2.44	54	12.36	87	1.07	0
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	0	0	9	70	0.00	0	1.71	22	0.00	40	0.44	92	10.54	50	2.16	100
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	0	0	6	40	0.00	0	3.04	15	0.00	40	1.14	78	10.60	51	2.16	100
483	18,19,21,29,43,44,59,66,67,70,77,78,79	0	0	4	20	0.00	0	3.00	16	0.00	40	0.00	100	9.60	31	1.13	5
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	0	0	7	50	0.00	0	0.97	25	0.00	40	1.03	80	12.72	95	2.16	100
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	0	0	8	60	0.00	0	1.73	22	0.00	40	0.00	100	10.70	53	2.16	100
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	0	0	8	60	0.00	0	3.02	15	0.00	40	1.58	70	10.70	53	2.16	100
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	0	0	6	40	0.00	0	2.98	16	0.00	40	0.44	92	9.70	33	1.13	5
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	0	0	7	50	0.00	0	0.97	25	0.00	40	1.03	80	10.52	50	2.16	100
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	0	0	10	80	0.00	0	1.71	22	0.00	40	0.44	92	10.80	55	2.16	100
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	0	0	5	30	0.00	0	3.00	16	0.00	40	0.00	100	12.05	81	1.13	5
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	0	0	5	30	0.00	0	2.37	19	0.00	40	1.85	65	9.65	32	1.07	0
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	0	0	5	30	0.00	0	3.00	16	0.00	40	0.00	100	9.85	36	1.13	5
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	0	0	7	50	0.00	0	2.98	16	0.00	40	0.44	92	12.15	83	1.13	5
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	5	30	0.00	0	2.39	18	0.00	40	1.40	74	9.66	32	1.07	0
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	0	0	7	50	0.00	0	2.98	16	0.00	40	0.44	92	9.95	38	1.13	5
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	0	0	8	60	0.00	0	0.97	25	0.00	40	1.03	80	12.97	100	2.16	100
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	0	0	6	40	0.00	0	2.37	19	0.00	40	1.85	65	12.10	82	1.07	0
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	0	0	6	40	0.00	0	2.37	19	0.00	40	1.85	65	9.90	37	1.07	0
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	0	0	6	40	0.00	0	3.00	16	0.00	40	0.00	100	12.30	86	1.13	5
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	0	0	6	40	0.00	0	2.39	18	0.00	40	1.40	74	12.11	82	1.07	0
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	0	0	5	30	0.00	0	0.96	25	0.00	40	0.00	100	10.16	42	2.16	100
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	6	40	0.00	0	2.39	18	0.00	40	1.40	74	9.91	37	1.07	0
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	0	0	8	60	0.00	0	2.98	16	0.00	40	0.44	92	12.40	88	1.13	5
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	0	0	7	50	0.00	0	0.95	25	0.00	40	0.44	92	10.26	44	2.16	100
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	0	0	6	40	0.00	0	0.96	25	0.00	40	0.00	100	12.61	93	2.16	100
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	0	0	7	50	0.00	0	2.37	19	0.00	40	1.85	65	12.35	87	1.07	0
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	0	0	6	40	0.00	0	0.96	25	0.00	40	0.00	100	10.41	48	2.16	100
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	0	0	8	60	0.00	0	0.95	25	0.00	40	0.44	92	12.71	95	2.16	100
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	0	0	7	50	0.00	0	2.39	18	0.00	40	1.40	74	12.36	88	1.07	0
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	0	0	8	60	0.00	0	0.95	25	0.00	40	0.44	92	10.51	50	2.16	100
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	0	0	7	50	0.00	0	0.96	25	0.00	40	0.00	100	12.86	98	2.16	100
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	0	0	9	70	0.00	0	0.95	25	0.00	40	0.44	92	12.96	100	2.16	100
	MIN	0	0	2	0	0	0	0.00	0	0.00	0	0.00	0	8.09	0	1.07	0
	MAX	0	0	12	100	0	0	6.23	30	0.43	40	5.30	100	12.97	100	2.16	100
	RANGE	0	0	10	100	0	0	6.23	30	0.43	40	5.30	100	4.88	100	1.09	100

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
442	11,16,23,25,31,33,45,47,48,52,65,67,79,81	25.1	69.0	20.5	24.2	27.5	1
149	3,11,16,23,25,31,33,45,47,48,52,65,67	23.8	69.0	26.7	16.4	28.0	2
443	11,16,23,25,31,33,45,47,48,52,67,70,76,79,81,84	25.5	54.0	22.1	31.6	28.2	3
150	3,11,16,23,25,31,33,45,47,48,52,67,70,76,84	24.1	54.0	27.6	23.8	28.4	4
48	2,8,11,16,23,25,31,33,45,47,48,52,65,67	31.8	30.0	25.0	34.6	29.4	5
49	2,8,11,16,23,25,31,33,45,47,48,52,67,70,76,81,84	32.1	15.0	26.5	42.0	30.1	6
500	14,20,29,43,44,55,67,70,76,78,79	37.9	39.0	19.2	46.1	32.2	7
450	23,25,31,33,45,47,48,52,65,67,77,78,82	28.7	69.0	26.6	30.4	32.2	8
446	11,23,25,31,33,45,47,48,52,65,67,77,79,81,82,83	29.5	69.0	25.7	31.7	32.4	9
497	11,14,20,29,43,44,55,67,70,76,79,81,83	38.7	39.0	19.0	47.3	32.5	10
441	11,16,23,25,31,33,45,47,52,53,69,79,80,81	41.2	70.0	21.6	23.0	32.6	11
18	2,7,13,28,43,44,55,67,70,76	45.7	0.0	19.9	55.9	32.8	12
451	23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	29.1	54.0	28.1	37.8	33.0	13
430	11,16,23,25,34,47,48,52,65,67,79,81	31.8	69.0	31.4	20.0	33.0	14
136	3,11,14,20,29,43,44,55,67,70,76,83	37.3	39.0	25.2	39.5	33.0	15
447	11,23,25,31,33,45,47,48,52,67,70,76,77,79,81,82,83,84	29.9	54.0	27.2	39.0	33.1	16
506	14,20,22,28,43,44,55,67,70,76,78,79	37.9	39.0	20.3	48.4	33.1	17
151	3,11,16,23,25,31,33,45,47,52,53,69,80	39.8	70.0	27.8	15.2	33.1	18
168	3,11,23,25,31,33,45,47,48,52,65,67,77,82,83	28.1	69.0	32.5	23.9	33.1	19
181	3,14,20,29,43,44,55,67,70,76,78,81	36.5	39.0	25.4	41.6	33.4	20
503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	38.7	39.0	20.1	49.6	33.4	21
154	3,11,16,23,25,34,47,48,52,65,67	30.4	69.0	37.6	12.2	33.5	22
470	14,15,19,30,33,45,47,48,52,65,67,78,79	26.4	54.0	34.5	32.1	33.6	23
169	3,11,23,25,31,33,45,47,48,52,67,70,76,77,82,83,84	28.5	54.0	33.5	31.2	33.6	24
525	7,8,13,28,43,44,55,67,70,76,79	40.4	39.0	18.0	52.1	33.7	25
466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	27.2	54.0	33.6	33.3	33.7	26
195	3,23,25,31,33,45,47,48,52,65,67,77,78,81,82	27.3	69.0	33.4	26.0	33.7	27
133	3,11,14,20,22,28,43,44,55,67,70,76,83	37.3	39.0	26.3	41.8	33.9	28
155	3,11,16,23,25,34,47,48,52,67,70,76,84	30.8	54.0	38.5	19.6	34.0	29
431	11,16,23,25,34,47,48,52,67,70,76,84	30.8	54.0	38.5	19.6	34.0	29
80	2,8,14,20,29,43,44,55,67,70,76,78	44.5	0.0	23.7	56.5	34.1	31
196	3,23,25,31,33,45,47,48,52,67,70,76,77,78,81,82,84	27.7	54.0	34.4	33.3	34.1	32
20	2,8,,23,25,31,33,45,47,48,52,65,67,77,78,82	35.4	30.0	31.1	40.8	34.2	33
178	3,14,20,22,28,43,44,55,67,70,76,78,81	36.5	39.0	26.5	43.9	34.2	34
471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	26.8	39.0	36.1	39.4	34.3	35
67	2,8,11,23,25,31,33,45,47,48,52,65,67,77,81,82,83	36.1	30.0	30.2	42.1	34.3	36
467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	27.6	39.0	35.2	40.7	34.4	37
130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	25.8	54.0	40.5	25.5	34.4	38
35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	45.3	0.0	23.4	57.7	34.5	39
50	2,8,11,16,23,25,31,33,45,47,52,53,69,80,81	47.8	31.0	26.0	33.4	34.5	40
203	3,7,8,13,28,43,44,55,67,70,76,81	39.0	39.0	23.6	47.6	34.6	41
15	2,10,20,29,43,44,55,67,70,76	52.1	0.0	21.6	52.7	34.8	42
501	14,20,29,43,44,59,66,67,70,78,79	42.9	39.0	23.6	43.1	34.8	43
131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	26.2	39.0	41.4	32.9	34.9	44
94	2,8,23,25,31,33,45,47,48,52,67,70,76,77,78,82,84	35.7	15.0	32.6	48.2	34.9	45
53	2,8,11,16,23,25,34,47,48,52,65,67,81	38.4	30.0	35.8	30.4	35.0	46
175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	25.0	54.0	41.4	27.6	35.0	47
68	2,8,11,23,25,31,33,45,47,48,52,67,70,76,77,81,82,83,84	36.5	15.0	31.7	49.4	35.0	48
77	2,8,14,20,22,28,43,44,55,67,70,76,78	44.5	0.0	24.8	58.8	35.0	49
498	11,14,20,29,43,44,59,66,67,70,79,81,83	43.6	39.0	23.3	44.4	35.2	50
32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	45.3	0.0	24.5	60.0	35.4	51
502	14,20,29,42,43,57,58,66,67,70,78,79	30.1	39.0	30.1	52.2	35.4	52

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	25.4	39.0	42.3	35.0	35.4	53
19	2,7,13,28,43,44,59,66,67,70	50.7	0.0	24.2	52.9	35.5	54
74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	33.0	15.0	39.0	42.5	35.5	55
519	8,10,20,29,43,44,55,67,70,76,79	46.8	39.0	19.7	48.9	35.6	56
29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	33.8	15.0	38.1	43.7	35.6	57
54	2,8,11,16,23,25,34,47,48,52,67,70,76,81,84	38.8	15.0	37.4	37.8	35.7	58
137	3,11,14,20,29,43,44,59,66,67,70,83	42.2	39.0	29.5	36.5	35.7	59
12	2,10,20,22,28,43,44,55,67,70,76	52.1	0.0	22.7	55.0	35.7	60
507	14,20,22,28,43,44,59,66,67,70,78,79	42.9	39.0	24.6	45.4	35.7	61
499	11,14,20,29,42,43,57,58,66,67,70,79,81,83	30.9	39.0	29.9	53.4	35.8	62
9	2,10,15,19,30,33,45,47,48,52,65,67	40.7	15.0	36.3	38.7	36.0	63
182	3,14,20,29,43,44,59,66,67,70,78,81	41.5	39.0	29.8	38.7	36.0	64
504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	43.6	39.0	24.4	46.6	36.1	65
75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	33.4	0.0	40.5	49.8	36.2	66
526	7,8,13,28,43,44,59,66,67,70,79	45.4	39.0	22.4	49.1	36.3	67
135	3,11,14,20,29,42,43,57,58,66,67,70,83	29.5	39.0	36.1	45.6	36.3	68
30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	34.2	0.0	39.6	51.1	36.3	69
17	2,7,13,28,42,43,57,58,66,67,70	38.0	0.0	31.4	62.0	36.3	70
522	8,10,20,22,28,43,44,55,67,70,76,79	46.8	39.0	20.8	51.2	36.5	71
219	3,8,10,20,29,43,44,55,67,70,76,81	45.4	39.0	25.3	44.4	36.5	72
134	3,11,14,20,22,28,43,44,59,66,67,70,83	42.2	39.0	30.6	38.8	36.6	73
508	14,20,22,28,42,43,57,58,66,67,70,78,79	30.1	39.0	31.9	54.4	36.6	74
180	3,14,20,29,42,43,57,58,66,67,70,78,81	28.8	39.0	36.4	47.7	36.6	75
10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	41.0	0.0	37.9	46.0	36.7	76
81	2,8,14,20,29,43,44,59,66,67,70,78	49.5	0.0	28.0	53.5	36.8	77
510	8,10,15,19,30,33,45,47,48,52,65,67,79	35.4	54.0	34.5	34.8	36.8	78
179	3,14,20,22,28,43,44,59,66,67,70,78,81	41.5	39.0	30.9	40.9	36.9	79
505	11,14,20,22,28,42,43,57,58,66,67,70,79,81,83	30.9	39.0	31.6	55.7	36.9	80
36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	50.3	0.0	27.7	54.8	37.1	81
527	7,8,13,28,42,43,57,58,66,67,70,79	32.6	39.0	29.6	58.1	37.2	82
204	3,7,8,13,28,43,44,59,66,67,70,81	44.0	39.0	27.9	44.6	37.2	83
449	23,25,31,33,45,47,48,52,53,69,77,78,79,80,82	44.8	70.0	27.7	29.2	37.3	84
79	2,8,14,20,29,42,43,57,58,66,67,70,78	36.8	0.0	34.6	62.6	37.4	85
216	3,8,10,20,22,28,43,44,55,67,70,76,81	45.4	39.0	26.4	46.7	37.4	86
16	2,10,20,29,43,44,59,66,67,70	57.1	0.0	25.9	49.7	37.4	87
132	3,11,14,20,22,28,42,43,57,58,66,67,70,83	29.5	39.0	37.8	47.8	37.4	88
445	11,23,25,3,31,33,45,47,48,52,53,69,77,79,80,81,82,83	45.5	70.0	26.8	30.5	37.5	89
511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	35.7	39.0	36.0	42.2	37.5	90
444	11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,79,81,84	30.5	54.0	40.1	34.5	37.5	91
78	2,8,14,20,22,28,43,44,59,66,67,70,78	49.5	0.0	29.1	55.8	37.6	92
148	3,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,84	29.1	54.0	45.7	26.7	37.7	93
34	2,8,11,14,20,29,42,43,57,58,66,67,70,81,83	37.5	0.0	34.3	63.8	37.7	94
177	3,14,20,22,28,42,43,57,58,66,67,70,78,81	28.8	39.0	38.1	50.0	37.7	95
438	23,25,34,47,48,52,65,67,78,79,82	35.4	69.0	37.5	26.3	37.8	96
434	11,23,25,34,47,48,52,65,67,77,79,81,82,83	36.2	69.0	36.6	27.5	37.9	97
213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	34.0	54.0	40.7	30.4	37.9	98
33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	50.2	0.0	28.8	57.0	38.0	99
454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	26.3	54.0	47.6	28.4	38.0	100
14	2,10,20,29,42,43,57,58,66,67,70	44.4	0.0	32.5	58.8	38.1	101
202	3,7,8,13,28,42,43,57,58,66,67,70,81	31.3	39.0	35.2	53.7	38.1	102
429	11,16,23,25,34,47,48,52,53,69,79,80,81	47.8	70.0	32.5	18.8	38.1	103
166	3,11,23,25,3,31,33,45,47,48,52,53,69,77,80,82,83	44.1	70.0	33.6	22.6	38.2	104

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
520	8,10,20,29,43,44,59,66,67,70,79	51.8	39.0	24.0	45.9	38.2	105
13	2,10,20,22,28,43,44,59,66,67,70	57.1	0.0	27.0	52.0	38.3	106
214	3,8,10,15,19,30,33,45,47,48,52,67,70,76,81,84	34.4	39.0	41.6	37.8	38.4	107
439	23,25,34,47,48,52,67,70,76,77,78,79,82,84	35.8	54.0	39.0	33.7	38.5	108
76	2,8,14,20,22,28,42,43,57,58,66,67,70,78	36.8	0.0	36.3	64.8	38.5	109
146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	24.9	54.0	53.9	20.6	38.5	110
435	23,25,34,47,48,52,67,70,76,77,79,81,82,83,84	36.5	54.0	38.1	34.9	38.6	111
152	3,11,16,23,25,34,47,48,52,53,69,80	46.4	70.0	38.7	11.0	38.6	112
172	3,11,23,25,34,47,48,52,65,67,77,82,83	34.8	69.0	43.4	19.7	38.6	113
469	14,15,19,30,33,45,47,48,52,53,69,78,79,80	42.4	55.0	35.6	30.8	38.7	114
455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	26.7	39.0	49.2	35.8	38.7	115
465	11,14,15,19,30,33,45,47,48,52,53,69,79,80,81,83	43.2	55.0	34.7	32.1	38.8	116
193	3,23,25,31,33,45,47,48,52,53,69,77,78,80,81,82	43.4	70.0	34.5	24.8	38.8	117
521	8,10,20,29,42,43,57,58,66,67,70,79	39.1	39.0	30.6	54.9	38.9	118
31	2,8,11,14,20,22,28,42,43,57,58,66,67,70,81,83	37.5	0.0	36.0	66.1	38.9	119
147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	25.3	39.0	54.8	28.0	39.0	120
201	3,23,25,34,47,48,52,67,70,76,77,82,83,84	35.2	54.0	44.3	27.1	39.1	121
523	8,10,20,22,28,43,44,59,66,67,70,79	51.8	39.0	25.1	48.2	39.1	122
220	3,8,10,20,29,43,44,59,66,67,70,81	50.4	39.0	29.6	41.5	39.2	123
11	2,10,20,22,28,42,43,57,58,66,67,70	44.4	0.0	34.2	61.0	39.2	124
199	3,23,25,34,47,48,52,65,67,78,81,82	34.0	69.0	44.3	21.8	39.2	125
92	2,8,23,25,31,33,45,47,48,52,53,69,77,78,80,82	51.4	31.0	32.1	39.6	39.3	126
65	2,8,11,23,25,3,31,33,45,47,48,52,53,69,77,80,81,82,83	52.1	31.0	31.2	40.9	39.4	127
47	2,8,11,16,23,25,31,33,45,47,48,52,55,59,66,67,70,81,84	37.1	15.0	44.5	44.9	39.4	128
128	3,11,14,15,19,30,33,45,47,48,52,53,69,80,83	41.8	55.0	41.6	24.3	39.5	129
200	3,23,25,34,47,48,52,67,70,76,77,78,81,82,84	34.4	54.0	45.2	29.2	39.7	130
218	3,8,10,20,29,42,43,57,58,66,67,70,81	37.7	39.0	36.2	50.5	39.8	131
71	2,8,11,23,25,34,47,48,52,65,67,77,81,82,83	42.8	30.0	41.0	37.9	39.8	132
45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	32.9	15.0	52.1	38.8	40.0	133
524	8,10,20,22,28,42,43,57,58,66,67,70,79	39.1	39.0	32.3	57.2	40.0	134
217	3,8,10,20,22,28,43,44,59,66,67,70,81	50.4	39.0	30.7	43.7	40.0	135
51	2,8,11,16,23,25,34,47,48,52,53,69,80,81	54.5	31.0	36.9	29.2	40.1	136
173	3,14,15,19,30,33,45,47,48,52,53,69,78,80,81	41.1	55.0	42.5	26.4	40.1	137
97	2,8,23,25,34,47,48,52,67,70,76,77,78,82,84	42.4	15.0	43.5	44.1	40.4	138
98	2,8,23,25,34,47,48,52,67,70,76,77,81,82,83,84	43.2	15.0	42.6	45.3	40.5	139
72	2,8,14,15,19,30,33,45,47,48,52,53,69,78,80	49.1	16.0	40.1	41.2	40.6	140
462	18,19,30,33,45,47,48,52,65,67,77,78,79	29.9	54.0	50.0	31.5	40.7	141
46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	33.3	0.0	53.6	46.2	40.7	142
27	2,8,11,14,15,19,30,33,45,47,48,52,53,69,80,81,83	49.8	16.0	39.2	42.5	40.7	143
458	11,18,19,30,33,45,47,48,52,65,67,77,83	30.7	54.0	49.1	32.7	40.8	144
215	3,8,10,20,22,28,42,43,57,58,66,67,70,81	37.7	39.0	37.9	52.7	40.9	145
7	2,10,15,19,30,33,45,47,48,52,53,69,80	56.7	16.0	37.4	37.5	41.1	146
463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	30.3	39.0	51.5	38.9	41.4	147
459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	31.0	39.0	50.6	40.1	41.5	148
164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	29.3	54.0	55.9	24.9	41.5	149
509	8,10,15,19,30,33,45,47,48,52,53,69,79,80	51.4	55.0	35.6	33.6	41.9	150
165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	29.7	39.0	56.8	32.3	42.0	151
452	23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	34.1	54.0	45.6	40.7	42.0	152
191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	28.5	54.0	56.8	27.0	42.1	153
448	11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,79,81,82,83,84	34.8	54.0	45.3	42.0	42.4	154
192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	28.9	39.0	57.7	34.4	42.5	155
90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	36.5	15.0	54.4	41.9	42.6	156

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	37.3	15.0	53.5	43.1	42.7	157
167	3,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,82,83,84	33.5	54.0	51.5	34.2	42.9	158
437	23,25,34,47,48,52,53,69,77,78,79,80,82	51.4	70.0	38.6	25.1	42.9	159
433	11,23,25,34,47,48,52,53,69,77,78,79,81,82,83	52.2	70.0	37.7	26.3	43.0	160
432	11,16,23,25,34,47,48,52,55,59,66,67,70,79,81,84	37.2	54.0	51.0	30.3	43.0	161
473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	39.5	39.0	42.4	51.6	43.0	162
211	3,8,10,15,19,30,33,45,47,48,52,53,69,80,81	50.0	55.0	41.8	29.2	43.0	163
453	11,16,18,19,30,33,45,47,48,52,53,69,79,80,81,82	42.3	55.0	48.7	27.2	43.1	164
194	3,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,81,82,84	32.7	54.0	51.8	36.3	43.2	165
153	3,11,16,23,25,34,47,48,52,55,59,66,67,70,84	35.8	54.0	56.6	22.5	43.3	166
472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	31.8	39.0	53.5	42.4	43.3	167
91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	36.9	0.0	56.0	49.3	43.3	168
64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	37.7	0.0	55.1	50.5	43.4	169
126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	38.1	39.0	48.6	43.8	43.5	170
144	3,11,16,18,19,30,33,45,47,48,52,53,69,80,82	40.9	55.0	54.9	19.4	43.6	171
468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	32.5	39.0	53.2	43.6	43.7	172
170	3,11,23,25,34,47,48,52,53,69,77,8,82,83	50.8	70.0	44.5	18.5	43.7	173
485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	39.5	39.0	43.5	53.8	43.9	174
93	2,8,23,25,31,33,45,47,48,52,55,59,66,67,70,77,78,82,84	40.7	15.0	50.0	51.1	43.9	175
129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	31.2	39.0	59.4	35.8	44.2	176
197	3,23,25,34,47,48,52,53,69,77,78,80,81,82	50.0	70.0	45.4	20.6	44.3	177
66	2,8,11,23,25,31,33,45,47,48,52,55,59,66,67,70,77,81,82,83,84	41.5	15.0	49.7	52.4	44.3	178
123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	38.1	39.0	49.7	46.0	44.4	179
174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	30.4	39.0	59.7	37.9	44.5	180
95	2,8,23,25,34,47,48,52,53,69,77,78,80,82	58.0	31.0	43.0	35.5	44.8	181
69	2,8,11,23,25,34,47,48,52,53,69,77,81,82,83	58.8	31.0	42.1	36.7	44.9	182
52	2,8,11,16,23,25,34,47,48,52,55,59,66,67,70,81,84	43.8	15.0	55.4	40.7	45.0	183
25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	46.1	0.0	46.8	62.0	45.0	184
43	2,8,11,16,18,19,30,33,45,47,48,52,53,69,80,81,82	49.0	16.0	53.2	37.6	45.1	185
73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	38.4	0.0	57.9	52.8	45.2	186
5	2,10,15,19,21,29,43,44,55,67,70,76	53.0	0.0	45.1	57.0	45.3	187
28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,84	39.2	0.0	57.7	54.0	45.6	188
474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	44.4	39.0	46.7	48.6	45.6	189
461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	45.9	55.0	51.1	30.3	45.8	190
22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	46.1	0.0	47.9	64.2	45.8	191
457	11,18,19,30,33,45,47,48,52,53,69,77,79,80,81,83	46.7	55.0	50.2	31.5	45.9	192
8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	46.0	0.0	55.9	49.0	46.0	193
513	8,10,15,19,21,29,43,44,55,67,70,76,79	47.7	39.0	43.2	53.1	46.1	194
127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	43.1	39.0	52.9	40.8	46.1	195
2	2,10,15,19,21,22,28,43,44,55,67,70,76	53.0	0.0	46.2	59.2	46.2	196
475	11,14,15,19,21,29,42,43,57,58,66,67,70,79,81,83	31.7	39.0	53.3	57.6	46.3	197
486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	44.4	39.0	47.8	50.9	46.5	198
162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	45.3	55.0	57.0	23.7	46.6	199
125	3,11,14,15,19,21,29,42,43,57,58,66,67,70,83	30.3	39.0	59.5	49.8	46.8	200
512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	40.7	39.0	54.1	45.1	46.8	201
516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	47.7	39.0	44.3	55.4	47.0	202
124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	43.1	39.0	54.0	43.1	47.0	203
209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	46.3	39.0	48.8	48.7	47.0	204
189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	44.5	55.0	57.9	25.8	47.2	205
476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	38.6	39.0	56.4	46.7	47.4	206
487	11,14,15,19,21,22,28,42,43,57,58,66,67,70,79,81,83	31.7	39.0	55.0	59.9	47.4	207
440	23,25,34,47,48,52,55,59,66,67,70,77,78,79,82,84	40.8	54.0	56.4	36.6	47.5	208

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	51.1	0.0	51.1	59.0	47.6	209
142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	37.2	39.0	62.0	38.9	47.6	210
212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	39.3	39.0	59.6	40.7	47.7	211
88	2,8,18,19,30,33,45,47,48,52,53,69,77,78,80	52.5	16.0	55.5	40.7	47.7	212
61	2,8,11,18,19,30,33,45,47,48,52,53,69,77,80,81,83	53.3	16.0	54.6	41.9	47.8	213
436	11,23,25,34,47,48,52,55,59,66,67,70,77,79,81,82,83,84	41.5	54.0	56.2	37.8	47.9	214
122	3,11,14,15,19,21,22,28,42,43,57,58,66,67,70,83	30.3	39.0	61.2	52.1	47.9	215
206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	46.3	39.0	49.9	50.9	47.9	216
6	2,10,15,19,21,29,43,44,59,66,67,70	57.9	0.0	49.4	54.0	47.9	217
456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	31.7	39.0	67.2	38.7	48.0	218
24	2,8,11,14,15,19,21,29,42,43,57,58,66,67,70,81,83	38.4	0.0	57.7	68.0	48.2	219
488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	38.6	39.0	57.5	49.0	48.3	220
145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	30.3	39.0	72.8	30.9	48.3	221
171	3,11,23,25,34,47,48,52,55,59,66,67,70,77,82,83,84	40.1	54.0	62.4	30.0	48.4	222
23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	51.1	0.0	52.2	61.3	48.5	223
139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	37.2	39.0	63.1	41.2	48.5	224
4	2,10,15,19,21,29,42,43,57,58,66,67,70	45.2	0.0	56.0	63.0	48.6	225
198	3,23,25,34,47,48,52,55,59,66,67,70,77,78,81,82,84	39.4	54.0	62.6	32.1	48.7	226
514	8,10,15,19,21,29,43,44,59,66,67,70,79	52.6	39.0	47.5	50.2	48.7	227
3	2,10,15,19,21,22,28,43,44,59,66,67,70	57.9	0.0	50.5	56.3	48.8	228
41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	45.2	0.0	60.8	57.1	49.3	229
21	2,8,11,14,15,19,21,22,28,42,43,57,58,66,67,70,81,83	38.4	0.0	59.5	70.3	49.3	230
515	8,10,15,19,21,29,42,43,57,58,66,67,70,79	39.9	39.0	54.1	59.2	49.4	231
96	2,8,23,25,34,47,48,52,55,59,66,67,70,77,78,82,84	47.4	15.0	60.9	47.0	49.5	232
517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	52.6	39.0	48.6	52.4	49.6	233
210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	51.2	39.0	53.1	45.7	49.7	234
1	2,10,15,19,21,22,28,42,43,57,58,66,67,70	45.2	0.0	57.7	65.3	49.7	235
482	18,19,21,29,43,44,55,67,70,76,77,78,79	42.2	39.0	58.1	49.8	49.8	236
70	2,8,11,23,25,34,47,48,52,55,59,66,67,70,77,81,82,83,84	48.1	15.0	60.6	48.2	49.8	237
44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	38.3	0.0	71.7	49.1	50.0	238
477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	43.6	39.0	60.7	43.8	50.0	239
479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	42.9	39.0	57.8	51.0	50.1	240
38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	45.2	0.0	61.9	59.4	50.2	241
143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	42.2	39.0	66.3	35.9	50.3	242
208	3,8,10,15,19,21,29,42,43,57,58,66,67,70,81	38.5	39.0	59.7	54.7	50.3	243
464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	35.3	39.0	68.9	41.8	50.4	244
518	8,10,15,19,21,22,28,42,43,57,58,66,67,70,79	39.9	39.0	55.8	61.5	50.5	245
207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	51.2	39.0	54.2	48.0	50.5	246
160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	41.6	39.0	64.0	43.2	50.6	247
478	11,16,18,19,21,29,42,43,57,58,66,67,70,79,81,82	30.9	39.0	67.3	52.8	50.6	248
494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	42.2	39.0	59.2	52.0	50.6	249
460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	36.0	39.0	68.7	43.0	50.8	250
141	3,11,16,18,19,21,29,42,43,57,58,66,67,70,82	29.5	39.0	72.9	45.0	50.9	251

Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score	Rank
489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	43.6	39.0	61.8	46.0	50.9	252
187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	40.8	39.0	64.3	45.3	50.9	253
140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	42.2	39.0	67.4	38.2	51.1	254
163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	34.6	39.0	74.9	35.2	51.3	255
205	3,8,10,15,19,21,22,28,42,43,57,58,66,67,70,81	38.5	39.0	61.4	57.0	51.4	256
157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	41.6	39.0	65.1	45.5	51.5	257
491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	41.6	39.0	65.1	45.5	51.5	257
190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	33.9	39.0	75.2	37.3	51.6	259
86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	48.8	0.0	62.6	60.2	51.7	260
490	11,16,18,19,21,22,28,42,43,57,58,66,67,70,79,81,82	30.9	39.0	69.0	55.1	51.8	261
184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	40.8	39.0	65.4	47.6	51.8	262
42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	50.2	0.0	65.1	54.2	51.9	263
138	3,11,16,18,19,21,22,28,42,43,57,58,66,67,70,82	29.5	39.0	74.6	47.2	52.0	264
59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	49.6	0.0	62.3	61.4	52.1	265
89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	41.9	0.0	73.4	52.2	52.4	266
483	18,19,21,29,43,44,59,66,67,70,77,78,79	47.2	39.0	62.4	46.8	52.4	267
40	2,8,11,16,18,19,21,29,42,43,57,58,66,67,70,81,82	37.5	0.0	71.7	63.2	52.6	268
83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	48.8	0.0	63.7	62.4	52.6	269
62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,84	42.6	0.0	73.1	53.4	52.7	270
480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	47.9	39.0	62.1	48.0	52.7	271
39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	50.2	0.0	66.2	56.4	52.8	272
56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	49.6	0.0	63.4	63.7	53.0	273
484	18,19,21,29,42,43,57,58,66,67,70,77,78,79	34.4	39.0	69.0	55.8	53.0	274
161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	46.5	39.0	68.4	40.2	53.2	275
495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	47.2	39.0	63.5	49.1	53.3	276
481	11,18,19,21,29,42,43,57,58,66,67,70,77,79,81,83	35.2	39.0	68.7	57.1	53.4	277
188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	45.8	39.0	68.6	42.3	53.6	278
492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	47.9	39.0	63.2	50.3	53.6	279
37	2,8,11,16,18,19,21,22,28,42,43,57,58,66,67,70,81,82	37.5	0.0	73.5	65.5	53.7	280
159	3,11,18,19,21,29,42,43,57,58,66,67,70,77,83	33.8	39.0	75.0	49.2	53.9	281
158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	46.5	39.0	69.4	42.5	54.1	282
496	18,19,21,22,28,42,43,57,58,66,67,70,77,78,79	34.4	39.0	70.7	58.1	54.1	283
186	3,18,19,21,29,42,43,57,58,66,67,70,77,78,81	33.1	39.0	75.2	51.4	54.2	284
87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	53.8	0.0	66.9	57.2	54.3	285
185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	45.8	39.0	69.7	44.6	54.4	286
493	11,18,19,21,22,28,42,43,57,58,66,67,70,77,79,81,83	35.2	39.0	70.5	59.3	54.5	287
60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	54.5	0.0	66.6	58.4	54.7	288
85	2,8,18,19,21,29,42,43,57,58,66,67,70,77,78	41.1	0.0	73.5	66.2	55.0	289
156	3,11,18,19,21,22,28,42,43,57,58,66,67,70,77,83	33.8	39.0	76.7	51.5	55.0	290
84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	53.8	0.0	68.0	59.5	55.2	291
58	2,8,11,18,19,21,29,42,43,57,58,66,67,70,77,81,83	41.8	0.0	73.2	67.5	55.3	292
183	3,18,19,21,22,28,42,43,57,58,66,67,70,77,78,81	33.1	39.0	76.9	53.6	55.3	293
57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	54.5	0.0	67.7	60.7	55.6	294
82	2,8,18,19,21,22,28,42,43,57,58,66,67,70,77,78	41.1	0.0	75.2	68.5	56.1	295
55	2,8,11,18,19,21,22,28,42,43,57,58,66,67,70,77,81,83	41.8	0.0	74.9	69.7	56.5	296

MIN
MAX
RANGE

Appendix F. Second Round Scoring Results

Appendix F: Second Round Route Scoring

			Ecology						Cultural							
Rank	Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI within ROW (in acres)	Normalized Score for Area of NWI within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
1	266	4,17,32,37,63,74,75,80	0.69	0	2.41	47	3	33	0	0	1	50	5	60	0	0
2	306	4,9,11,14,20,29,43,44,55,67,70,76,83	2.37	17	2.80	58	3	33	0	0	0	0	2	0	0	0
3	266 (Mod)	4,17,32,37,63,74,75(mod),80(mod)	3.80	31	2.85	59	3	33	0	0	0	0	5	60	0	0
4	307	4,9,11,14,20,29,43,44,59,66,67,70,83	2.37	17	3.32	72	2	0	0	0	0	0	2	0	0	0
5	500	14,20,29,43,44,55,67,70,76,78,79	2.70	20	2.55	51	3	33	1	100	0	0	3	20	0	0
6	354	4,9,14,20,29,43,44,55,67,70,76,78,81	2.37	17	2.72	56	3	33	0	0	0	0	2	0	0	0
7	133	3,11,14,20,22,28,43,44,55,67,70,76,83	2.37	17	2.65	54	3	33	1	100	0	0	3	20	0	0
8	149	3,11,16,23,25,31,33,45,47,48,52,65,67	5.98	54	0.65	0	3	33	1	100	2	100	3	20	0	0
9	178	3,14,20,22,28,43,44,55,67,70,76,78,81	2.37	17	2.57	52	3	33	1	100	0	0	3	20	0	0
10	136	3,11,14,20,29,43,44,55,67,70,76,83	2.37	17	2.65	54	4	67	1	100	0	0	3	20	0	0
11	203	3,7,8,13,28,43,44,55,67,70,76,81	3.05	24	2.54	51	3	33	1	100	0	0	3	20	0	0
12	219	3,8,10,20,29,43,44,55,67,70,76,81	2.37	17	2.93	61	3	33	1	100	0	0	3	20	0	0
13	242	3,9,17,32,37,63,74,75,80	1.00	3	3.84	86	3	33	1	100	1	50	6	80	0	0
14	519	8,10,20,29,43,44,55,67,70,76,79	2.70	20	2.90	61	3	33	1	100	0	0	3	20	0	0
15	497	11,14,20,29,43,44,55,67,70,76,79,81,83	2.70	20	2.63	53	4	67	1	100	0	0	3	20	0	0
16	181	3,14,20,29,43,44,55,67,70,76,78,81	2.37	17	2.58	52	4	67	1	100	0	0	3	20	0	0
17	303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	2.37	17	2.80	58	4	67	0	0	0	0	2	0	0	0
18	498	11,14,20,29,43,44,59,66,67,70,79,81,83	2.70	20	3.15	67	3	33	1	100	0	0	3	20	0	0
19	501	14,20,29,43,44,59,66,67,70,78,79	2.70	20	3.07	65	3	33	1	100	0	0	3	20	0	0
20	522	8,10,20,22,28,43,44,55,67,70,76,79	2.70	20	2.90	61	3	33	1	100	0	0	3	20	0	0
21	355	4,9,14,20,29,43,44,59,66,67,70,78,81	2.37	17	3.24	70	3	33	0	0	0	0	2	0	0	0
22	304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	2.37	17	3.32	72	3	33	0	0	0	0	2	0	0	0
23	12	2,10,20,22,28,43,44,55,67,70,76	3.86	32	3.30	71	3	33	0	0	0	0	2	0	0	0
24	503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	2.70	20	2.63	53	4	67	1	100	0	0	3	20	0	0
25	506	14,20,22,28,43,44,55,67,70,76,78,79	2.70	20	2.55	51	4	67	1	100	0	0	3	20	0	0
26	351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	2.37	17	2.72	56	4	67	0	0	0	0	2	0	0	0
27	35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3.86	32	3.17	68	3	33	0	0	0	0	2	0	0	0
28	80	2,8,14,20,29,43,44,55,67,70,76,78	3.86	32	3.09	66	3	33	0	0	0	0	2	0	0	0
29	410	9,17,32,37,63,74,75,79,80,81	1.33	6	3.81	85	3	33	1	100	1	50	6	80	0	0
30	525	7,8,13,28,43,44,55,67,70,76,79	3.37	27	2.52	50	4	67	1	100	0	0	3	20	0	0
31	507	14,20,22,28,43,44,59,66,67,70,78,79	2.70	20	3.07	65	3	33	1	100	0	0	3	20	0	0
32	276	4,7,8,9,13,28,43,44,55,67,70,76,81	3.05	24	2.69	55	4	67	0	0	0	0	2	0	0	0
33	352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	2.37	17	3.24	70	3	33	0	0	0	0	2	0	0	0
34	18	2,7,13,28,43,44,55,67,70,76	4.54	39	2.92	61	4	67	0	0	0	0	2	0	0	0
35	15	2,10,20,29,43,44,55,67,70,76	3.86	32	3.30	71	4	67	0	0	0	0	2	0	0	0
36	137	3,11,14,20,29,43,44,59,66,67,70,83	2.37	17	3.17	68	4	67	1	100	0	0	3	20	0	0
37	18 (Mod)	2(mod),7(mod),13(mod),28,43,44,55,67,70,76	3.18	25	2.72	56	4	67	0	0	0	0	2	0	0	0
38	77	2,8,14,20,22,28,43,44,55,67,70,76,78	3.86	32	3.09	66	3	33	0	0	0	0	2	0	0	0
39	149 (Mod2)	Mod. #2 to Route 149 (scored as complete new route)	5.17	45	0.86	6	3	33	1	100	0	0	3	20	0	0
40	216	3,8,10,20,22,28,43,44,55,67,70,76,81	2.37	17	2.93	61	4	67	1	100	0	0	3	20	0	0
41	19	2,7,13,28,43,44,59,66,67,70	4.54	39	3.44	75	3	33	0	0	0	0	2	0	0	0
42	182	3,14,20,29,43,44,59,66,67,70,78,81	2.37	17	3.09	66	4	67	1	100	0	0	3	20	0	0
43	134	3,11,14,20,22,28,43,44,59,66,67,70,83	2.37	17	3.17	68	4	67	1	100	0	0	3	20	0	0
44	504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	2.70	20	3.15	67	4	67	1	100	0	0	3	20	0	0
45	179	3,14,20,22,28,43,44,59,66,67,70,78,81	2.37	17	3.09	66	4	67	1	100	0	0	3	20	0	0
46	204	3,7,8,13,28,43,44,59,66,67,70,81	3.05	24	3.06	65	4	67	1	100	0	0	3	20	0	0
47	32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	3.86	32	3.17	68	4	67	0	0	0	0	2	0	0	0
48	273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3.05	24	2.69	55	4	67	0	0	0	0	2	0	0	0
49	526	7,8,13,28,43,44,59,66,67,70,79	3.37	27	3.03	64	4	67	1	100	0	0	3	20	0	0
50	277	4,7,8,9,13,28,43,44,59,66,67,70,81	3.05	24	3.21	69	4	67	0	0	0	0	2	0	0	0
51	520	8,10,20,29,43,44,59,66,67,70,79	2.70	20	3.42	75	4	67	1	100	0	0	3	20	0	0
52	16	2,10,20,29,43,44,59,66,67,70	3.86	32	3.82	85	4	67	0	0	0	0	2	0	0	0
53	119	2,8,9,17,32,37,63,74,75,80,81	2.50	18	4.36	100	3	33	0	0	1	50	5	60	0	0
54	217	3,8,10,20,22,28,43,44,59,66,67,70,81	2.37	17	3.44	75	4	67	1	100	0	0	3	20	0	0
55	523	8,10,20,22,28,43,44,59,66,67,70,79	2.70	20	3.42	75	4	67	1	100	0	0	3	20	0	0
56	13	2,10,20,22,28,43,44,59,66,67,70	3.86	32	3.82	85	4	67	0	0	0	0	2	0	0	0
57	36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3.86	32	3.69	82	4	67	0	0	0	0	2	0	0	0
58	81	2,8,14,20,29,43,44,59,66,67,70,78	3.86	32	3.61	80	4	67	0	0	0	0	2	0	0	0
59	220	3,8,10,20,29,43,44,59,66,67,70,81	2.37	17	3.44	75	5	100	1	100	0	0	3	20	0	0
60	78	2,8,14,20,22,28,43,44,59,66,67,70,78	3.86	32	3.61	80	4	67	0	0	0	0	2	0	0	0
61	176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	6.07	54	0.74	2	3	33	1	100	0	0	3	20	0	0
62	511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	6.39	58	1.06	11	3	33	1	100	0	0	3	20	0	0

			Ecology						Cultural							
Rank	Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI within ROW (in acres)	Normalized Score for Area of NWI within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
63	301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	54	0.96	8	4	67	0	0	0	0	2	0	0	0
64	10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	7.56	70	1.46	22	3	33	0	0	0	0	2	0	0	0
65	123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	2.37	17	2.74	56	3	33	1	100	0	0	3	20	0	0
66	467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	6.39	58	0.79	4	4	67	1	100	0	0	3	20	0	0
67	300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	54	0.96	8	4	67	0	0	1	50	2	0	0	0
68	270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	6.66	60	1.07	11	3	33	0	0	1	50	2	0	0	0
69	466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	6.31	57	0.79	4	4	67	1	100	1	50	3	20	0	0
70	33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	3.86	32	3.69	82	5	100	0	0	0	0	2	0	0	0
71	356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	5.98	54	0.88	6	4	67	0	0	1	50	2	0	0	0
72	274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3.05	24	3.21	69	5	100	0	0	0	0	2	0	0	0
73	471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	6.39	58	0.71	2	4	67	1	100	0	0	3	20	0	0
74	470	14,15,19,30,33,45,47,48,52,65,67,78,79	6.31	57	0.71	2	4	67	1	100	1	50	3	20	0	0
75	288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	5.98	54	1.23	16	3	33	0	0	1	50	2	0	0	0
76	126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	2.37	17	2.74	56	4	67	1	100	0	0	3	20	0	0
77	30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	7.56	70	1.33	18	3	33	0	0	0	0	2	0	0	0
78	131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	6.07	54	0.81	4	5	100	1	100	0	0	3	20	0	0
79	149 (Mod1)	Mod. #1 to Route 149 (scored as complete new route)	6.14	55	2.77	57	4	67	1	100	0	0	3	20	0	0
80	29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	7.47	69	1.33	18	3	33	0	0	1	50	2	0	0	0
81	513	8,10,15,19,21,29,43,44,55,67,70,76,79	2.70	20	2.99	63	3	33	1	100	0	0	3	20	0	0
82	75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	7.56	70	1.25	16	3	33	0	0	0	0	2	0	0	0
83	130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	5.98	54	0.81	4	5	100	1	100	1	50	3	20	0	0
84	473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	2.70	20	2.71	56	4	67	1	100	0	0	3	20	0	0
85	74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	7.47	69	1.25	16	3	33	0	0	1	50	2	0	0	0
86	510	8,10,15,19,30,33,45,47,48,52,65,67,79	6.31	57	1.06	11	4	67	1	100	1	50	3	20	0	0
87	210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	2.37	17	3.53	78	2	0	1	100	0	0	3	20	0	0
88	213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	5.98	54	1.09	12	4	67	1	100	1	50	3	20	0	0
89	271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	6.75	61	1.07	11	4	67	0	0	0	0	2	0	0	0
90	289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	6.07	54	1.23	16	4	67	0	0	0	0	2	0	0	0
91	485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	2.70	20	2.71	56	4	67	1	100	0	0	3	20	0	0
92	349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	6.07	54	0.88	6	5	100	0	0	0	0	2	0	0	0
93	175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	5.98	54	0.74	2	5	100	1	100	1	50	3	20	0	0
94	147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	54	0.77	3	4	67	1	100	0	0	3	20	0	0
95	312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	17	2.84	59	3	33	0	0	0	0	2	0	0	0
96	209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	2.37	17	3.01	64	4	67	1	100	0	0	3	20	0	0
97	146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	54	0.77	3	4	67	1	100	1	50	3	20	0	0
98	486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	2.70	20	3.23	70	3	33	1	100	0	0	3	20	0	0
99	127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	2.37	17	3.26	70	4	67	1	100	0	0	3	20	0	0
100	5	2,10,15,19,21,29,43,44,55,67,70,76	3.86	32	3.39	74	4	67	0	0	0	0	2	0	0	0
101	317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	6.07	54	0.92	7	4	67	0	0	0	0	2	0	0	0
102	22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	3.86	32	3.26	70	3	33	0	0	0	0	2	0	0	0
103	455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	6.39	58	0.74	2	4	67	1	100	0	0	3	20	0	0
104	316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	5.98	54	0.92	7	4	67	0	0	1	50	2	0	0	0
105	9	2,10,15,19,30,33,45,47,48,52,65,67	7.47	69	1.46	22	5	100	0	0	1	50	2	0	0	0
106	454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	6.31	57	0.74	2	4	67	1	100	1	50	3	20	0	0
107	206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	2.37	17	3.01	64	4	67	1	100	0	0	3	20	0	0
108	474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	2.70	20	3.23	70	4	67	1	100	0	0	3	20	0	0
109	516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	2.70	20	2.99	63	4	67	1	100	0	0	3	20	0	0
110	124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	2.37	17	3.26	70	4	67	1	100	0	0	3	20	0	0
111	2	2,10,15,19,21,22,28,43,44,55,67,70,76	3.86	32	3.39	74	4	67	0	0	0	0	2	0	0	0
112	25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	3.86	32	3.26	70	4	67	0	0	0	0	2	0	0	0
113	129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	54	1.33	18	3	33	1	100	0	0	3	20	0	0
114	46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	7.56	70	1.28	17	3	33	0	0	0	0	2	0	0	0
115	458	11,18,19,30,33,45,47,48,52,65,67,77,83	6.31	57	1.22	15	3	33	1	100	1	50	3	20	0	0
116	139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	17	2.69	55	4	67	1	100	0	0	3	20	0	0
117	313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	17	3.36	73	3	33	0	0	0	0	2	0	0	0
118	476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	2.70	20	2.67	54	4	67	1	100	0	0	3	20	0	0
119	192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	54	1.17	14	3	33	1	100	0	0	3	20	0	0
120	7	2,10,15,19,30,33,45,47,48,52,53,69,80	10.58	100	1.88	33	2	0	0	0	0	0	6	80	0	0
121	309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	2.37	17	2.84	59	4	67	0	0	0	0	2	0	0	0
122	514	8,10,15,19,21,29,43,44,59,66,67,70,79	2.70	20	3.50	77	4	67	1	100	0	0	3	20	0	0
123	366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	54	1.32	18	3	33	0	0	1	50	2	0	0	0
124	329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	17	3.32	72	3	33	0	0	0	0	2	0	0	0

			Ecology						Cultural							
Rank	Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI within ROW (in acres)	Normalized Score for Area of NWI within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
125	6	2,10,15,19,21,29,43,44,59,66,67,70	3.86	32	3.91	88	4	67	0	0	0	0	2	0	0	0
126	23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	3.86	32	3.77	84	3	33	0	0	0	0	2	0	0	0
127	142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	2.37	17	2.69	55	5	100	1	100	0	0	3	20	0	0
128	165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	6.07	54	1.25	16	4	67	1	100	0	0	3	20	0	0
129	207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	2.37	17	3.53	78	4	67	1	100	0	0	3	20	0	0
130	41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	3.86	32	3.21	69	3	33	0	0	0	0	2	0	0	0
131	164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	5.98	54	1.25	16	4	67	1	100	1	50	3	20	0	0
132	482	18,19,21,29,43,44,55,67,70,76,77,78,79	2.70	20	3.07	65	3	33	1	100	0	0	3	20	0	0
133	517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	2.70	20	3.50	77	4	67	1	100	0	0	3	20	0	0
134	363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	17	3.24	70	3	33	0	0	0	0	2	0	0	0
135	334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	6.07	54	1.39	20	4	67	0	0	0	0	2	0	0	0
136	143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	2.37	17	3.21	69	4	67	1	100	0	0	3	20	0	0
137	45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	7.47	69	1.28	17	4	67	0	0	1	50	2	0	0	0
138	157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	17	3.17	68	3	33	1	100	0	0	3	20	0	0
139	212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	54	1.60	26	3	33	1	100	0	0	3	20	0	0
140	459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	6.39	58	1.22	15	4	67	1	100	0	0	3	20	0	0
141	299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	6.07	54	1.48	22	4	67	0	0	0	0	2	0	0	0
142	333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	5.98	54	1.39	20	4	67	0	0	1	50	2	0	0	0
143	269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	6.75	61	1.59	25	3	33	0	0	0	0	2	0	0	0
144	463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	6.39	58	1.14	13	4	67	1	100	0	0	3	20	0	0
145	468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	6.39	58	1.31	18	4	67	1	100	0	0	3	20	0	0
146	472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	6.39	58	1.23	16	4	67	1	100	0	0	3	20	0	0
147	462	18,19,30,33,45,47,48,52,65,67,77,78,79	6.31	57	1.14	13	4	67	1	100	1	50	3	20	0	0
148	174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	6.07	54	1.25	16	4	67	1	100	0	0	3	20	0	0
149	367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	6.07	54	1.32	18	4	67	0	0	0	0	2	0	0	0
150	184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	17	3.09	66	3	33	1	100	0	0	3	20	0	0
151	191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	5.98	54	1.17	14	4	67	1	100	1	50	3	20	0	0
152	140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	17	3.21	69	4	67	1	100	0	0	3	20	0	0
153	160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	2.37	17	3.17	68	4	67	1	100	0	0	3	20	0	0
154	477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	2.70	20	3.19	68	4	67	1	100	0	0	3	20	0	0
155	310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	2.37	17	3.36	73	4	67	0	0	0	0	2	0	0	0
156	488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	2.70	20	2.67	54	5	100	1	100	0	0	3	20	0	0
157	63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	7.47	69	1.76	30	3	33	0	0	1	50	2	0	0	0
158	90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	7.47	69	1.68	28	3	33	0	0	1	50	2	0	0	0
159	479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	2.70	20	3.15	67	4	67	1	100	0	0	3	20	0	0
160	187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	2.37	17	3.09	66	4	67	1	100	0	0	3	20	0	0
161	326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	2.37	17	3.32	72	4	67	0	0	0	0	2	0	0	0
162	491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	2.37	17	3.17	68	4	67	1	100	0	0	3	20	0	0
163	489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	2.70	20	3.18	68	4	67	1	100	0	0	3	20	0	0
164	3	2,10,15,19,21,22,28,43,44,59,66,67,70	3.86	32	3.91	88	5	100	0	0	0	0	2	0	0	0
165	315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	6.07	54	1.43	21	3	33	0	0	0	0	2	0	0	0
166	26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	3.86	32	3.77	84	5	100	0	0	0	0	2	0	0	0
167	42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	3.86	32	3.73	83	3	33	0	0	0	0	2	0	0	0
168	483	18,19,21,29,43,44,59,66,67,70,77,78,79	2.70	20	3.58	79	3	33	1	100	0	0	3	20	0	0
169	8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	7.56	70	1.98	36	4	67	0	0	0	0	2	0	0	0
170	38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	3.86	32	3.21	69	4	67	0	0	0	0	2	0	0	0
171	494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	2.70	20	3.07	65	4	67	1	100	0	0	3	20	0	0
172	360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	2.37	17	3.24	70	4	67	0	0	0	0	2	0	0	0
173	59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	3.86	32	3.69	82	3	33	0	0	0	0	2	0	0	0
174	64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	7.56	70	1.76	30	4	67	0	0	0	0	2	0	0	0
175	145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	6.07	54	1.28	17	4	67	1	100	0	0	3	20	0	0
176	91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	7.56	70	1.68	28	4	67	0	0	0	0	2	0	0	0
177	330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	2.36	17	3.84	86	4	67	0	0	0	0	2	0	0	0
178	161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	2.37	17	3.69	82	4	67	1	100	0	0	3	20	0	0
179	73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	7.56	70	1.77	30	4	67	0	0	0	0	2	0	0	0
180	512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	6.39	58	1.58	25	5	100	1	100	0	0	3	20	0	0
181	480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	2.70	20	3.66	81	4	67	1	100	0	0	3	20	0	0
182	456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	6.39	58	1.26	16	4	67	1	100	0	0	3	20	0	0
183	364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	17	3.76	84	4	67	0	0	0	0	2	0	0	0
184	57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	3.86	32	4.20	96	2	0	0	0	0	0	2	0	0	0
185	278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	6.07	54	1.75	30	5	100	0	0	0	0	2	0	0	0
186	327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	2.37	17	3.84	86	4	67	0	0	0	0	2	0	0	0

			Ecology						Cultural							
Rank	Routes	Study Segments	Area of Woodlots within ROW (in acres)	Normalized Score for Area of Woodlots within ROW	Area of NWI within ROW (in acres)	Normalized Score for Area of NWI within ROW	NHD Stream Crossing	Normalized Score for NHD Stream Crossing	NRHP-listed and eligible resources within 1,000-ft of centerline	Normalized Score for NRHP-listed and eligible resources within 1,000-ft of centerline	Known Archaeology Sites within 75-ft of centerline	Normalized Score for Known Archaeology Sites within 75-ft of centerline	OHI Historic Structures within 1,000-ft of centerline	Normalized Score for OHI Historic Structures within 1,000-ft of centerline	Cemeteries within 75-ft of centerline	Normalized Score for Cemeteries within 75-ft of centerline
187	158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	2.37	17	3.69	82	4	67	1	100	0	0	3	20	0	0
188	84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	3.86	32	4.13	94	2	0	0	0	0	0	2	0	0	0
189	86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	3.86	32	3.61	80	4	67	0	0	0	0	2	0	0	0
190	39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	3.86	32	3.73	83	4	67	0	0	0	0	2	0	0	0
191	495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	2.70	20	3.58	79	4	67	1	100	0	0	3	20	0	0
192	332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	54	1.91	34	3	33	0	0	0	0	2	0	0	0
193	361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	17	3.76	84	4	67	0	0	0	0	2	0	0	0
194	28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,8	7.56	70	1.85	32	5	100	0	0	0	0	2	0	0	0
195	464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	6.39	58	1.66	27	3	33	1	100	0	0	3	20	0	0
196	56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	3.86	32	3.69	82	4	67	0	0	0	0	2	0	0	0
197	83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	3.86	32	3.61	80	4	67	0	0	0	0	2	0	0	0
198	188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	2.37	17	3.61	80	5	100	1	100	0	0	3	20	0	0
199	492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	2.70	20	3.66	81	5	100	1	100	0	0	3	20	0	0
200	185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	2.37	17	3.61	80	5	100	1	100	0	0	3	20	0	0
201	162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	9.08	85	1.66	27	4	67	1	100	0	0	7	100	0	0
202	44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	7.56	70	1.80	31	4	67	0	0	0	0	2	0	0	0
203	460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	6.39	58	1.74	29	4	67	1	100	0	0	3	20	0	0
204	190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	6.07	54	1.68	28	4	67	1	100	0	0	3	20	0	0
205	368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	6.07	54	1.83	32	4	67	0	0	0	0	2	0	0	0
206	163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	6.07	54	1.76	30	5	100	1	100	0	0	3	20	0	0
207	60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	3.86	32	4.21	96	5	100	0	0	0	0	2	0	0	0
208	87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	3.86	32	4.13	94	5	100	0	0	0	0	2	0	0	0
209	461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	9.41	88	1.55	24	5	100	1	100	0	0	7	100	0	0
210	189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	9.08	85	1.58	25	5	100	1	100	0	0	7	100	0	0
211	62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,8	7.56	70	2.28	44	4	67	0	0	0	0	2	0	0	0
212	89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	7.56	70	2.20	42	5	100	0	0	0	0	2	0	0	0
		MIN	1	0	1	0	2	0	0	0	0	0	2	0	0	0
		MAX	11	100	4	100	5	100	1	100	2	100	7	100	0	0
		RANGE	10	100	4	100	3	100	1	100	2	100	5	100	0	0

			Land Use															
Rank	Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000 ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
1	266	4,17,32,37,63,74,75,80	3	2.50	6	0.00	14	1.27	12	0	34	11	66.49	43	2	100	0	0
2	306	4,9,11,14,20,29,43,44,55,67,70,76,83	2	1.25	11	1.90	9	0.00	12	0	41	50	95.09	80	2	100	0	0
3	266 (Mod)	4,17,32,37,63,74,75(mod),80(mod)	3	2.50	9	1.14	13	1.02	16	1	33	6	91.77	76	2	100	0	0
4	307	4,9,11,14,20,29,43,44,59,66,67,70,83	2	1.25	19	4.94	15	1.53	15	1	43	61	94.59	79	2	100	0	0
5	500	14,20,29,43,44,55,67,70,76,78,79	2	1.25	11	1.90	16	1.78	18	1	38	33	83.89	65	1	50	0	0
6	354	4,9,14,20,29,43,44,55,67,70,76,78,81	2	1.25	11	1.90	9	0.00	12	0	42	56	87.18	70	2	100	0	0
7	133	3,11,14,20,22,28,43,44,55,67,70,76,83	8	8.75	14	3.04	15	1.53	19	1	42	56	78.70	59	1	50	0	0
8	149	3,11,16,23,25,31,33,45,47,48,52,65,67	16	18.75	35	11.01	23	3.56	30	3	42	56	33.85	0	0	0	0	0
9	178	3,14,20,22,28,43,44,55,67,70,76,78,81	8	8.75	14	3.04	15	1.53	19	1	43	61	70.79	48	1	50	0	0
10	136	3,11,14,20,29,43,44,55,67,70,76,83	6	6.25	16	3.80	14	1.27	17	1	42	56	81.11	62	1	50	0	0
11	203	3,7,8,13,28,43,44,55,67,70,76,81	5	5.00	16	3.80	18	2.29	20	1	39	39	85.02	67	1	50	0	0
12	219	3,8,10,20,29,43,44,55,67,70,76,81	7	7.50	15	3.42	15	1.53	17	1	41	50	83.47	65	1	50	0	0
13	242	3,9,17,32,37,63,74,75,80	7	7.50	13	2.66	21	3.05	19	1	38	33	59.93	34	1	50	0	0
14	519	8,10,20,29,43,44,55,67,70,76,79	3	2.50	10	1.52	17	2.03	18	1	37	28	94.16	79	1	50	0	0
15	497	11,14,20,29,43,44,55,67,70,76,79,81,83	2	1.25	11	1.90	16	1.78	18	1	37	28	91.80	76	1	50	0	0
16	181	3,14,20,29,43,44,55,67,70,76,78,81	6	6.25	16	3.80	14	1.27	17	1	43	61	73.20	51	1	50	0	0
17	303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	4	3.75	9	1.14	10	0.25	14	1	41	50	92.68	77	2	100	0	0
18	498	11,14,20,29,43,44,59,66,67,70,79,81,83	2	1.25	19	4.94	22	3.31	21	2	39	39	91.30	75	1	50	0	0
19	501	14,20,29,43,44,59,66,67,70,78,79	2	1.25	19	4.94	22	3.31	21	2	40	44	83.38	65	1	50	0	0
20	522	8,10,20,22,28,43,44,55,67,70,76,79	5	5.00	8	0.76	18	2.29	20	1	37	28	91.75	76	1	50	0	0
21	355	4,9,14,20,29,43,44,59,66,67,70,78,81	2	1.25	19	4.94	15	1.53	15	1	44	67	86.67	69	2	100	0	0
22	304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	4	3.75	17	4.18	16	1.78	17	1	43	61	92.18	76	2	100	0	0
23	12	2,10,20,22,28,43,44,55,67,70,76	6	6.25	9	1.14	13	1.02	15	1	41	50	81.45	62	1	50	0	0
24	503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	4	3.75	9	1.14	17	2.03	20	1	37	28	89.39	73	1	50	0	0
25	506	14,20,22,28,43,44,55,67,70,76,78,79	4	3.75	9	1.14	17	2.03	20	1	38	33	81.48	62	1	50	0	0
26	351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	4	3.75	9	1.14	10	0.25	14	1	42	56	84.77	66	2	100	0	0
27	35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	3	2.50	14	3.04	13	1.02	15	1	43	61	91.28	75	1	50	0	0
28	80	2,8,14,20,29,43,44,55,67,70,76,78	3	2.50	14	3.04	13	1.02	15	1	44	67	83.37	65	1	50	0	0
29	410	9,17,32,37,63,74,75,79,80,81	3	2.50	8	0.76	23	3.56	20	1	36	22	70.62	48	1	50	0	0
30	525	7,8,13,28,43,44,55,67,70,76,79	1	0.00	11	1.90	20	2.80	21	2	35	17	95.71	81	1	50	0	0
31	507	14,20,22,28,43,44,59,66,67,70,78,79	4	3.75	17	4.18	23	3.56	23	2	40	44	80.98	62	1	50	0	0
32	276	4,7,8,9,13,28,43,44,55,67,70,76,81	1	0.00	11	1.90	13	1.02	15	1	39	39	99.01	85	2	100	0	0
33	352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	4	3.75	17	4.18	16	1.78	17	1	44	67	84.27	66	2	100	0	0
34	18	2,7,13,28,43,44,55,67,70,76	2	1.25	12	2.28	15	1.53	16	1	39	39	85.35	67	1	50	0	0
35	15	2,10,20,29,43,44,55,67,70,76	4	3.75	11	1.90	12	0.76	13	1	41	50	83.86	65	1	50	0	0
36	137	3,11,14,20,29,43,44,59,66,67,70,83	6	6.25	24	6.84	20	2.80	20	1	44	67	80.61	61	1	50	0	0
37	18 (Mod)	2(mod),7(mod),13(mod),28,43,44,55,67,70,76	4	3.75	14	3.04	21	3.05	22	2	42	56	100.67	87	1	50	0	0
38	77	2,8,14,20,22,28,43,44,55,67,70,76,78	5	5.00	12	2.28	14	1.27	17	1	44	67	80.96	62	1	50	0	0
39	149 (Mod2)	Mod. #2 to Route 149 (scored as complete new route)	9	10.00	56	18.99	64	13.98	34	3	45	72	86.90	69	0	0	0	0
40	216	3,8,10,20,22,28,43,44,55,67,70,76,81	9	10.00	13	2.66	16	1.78	19	1	41	50	81.06	62	1	50	0	0
41	19	2,7,13,28,43,44,59,66,67,70	2	1.25	20	5.32	21	3.05	19	1	41	50	84.84	67	1	50	0	0
42	182	3,14,20,29,43,44,59,66,67,70,78,81	6	6.25	24	6.84	20	2.80	20	1	45	72	72.70	51	1	50	0	0
43	134	3,11,14,20,22,28,43,44,59,66,67,70,83	8	8.75	22	6.08	21	3.05	22	2	44	67	78.20	58	1	50	0	0
44	504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	4	3.75	17	4.18	23	3.56	23	2	39	39	88.89	72	1	50	0	0
45	179	3,14,20,22,28,43,44,59,66,67,70,78,81	8	8.75	22	6.08	21	3.05	22	2	45	72	70.29	48	1	50	0	0
46	204	3,7,8,13,28,43,44,59,66,67,70,81	5	5.00	24	6.84	24	3.81	23	2	41	50	84.52	66	1	50	0	0
47	32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	5	5.00	12	2.28	14	1.27	17	1	43	61	88.87	72	1	50	0	0
48	273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	3	2.50	13	2.66	13	1.02	14	1	42	56	105.75	94	2	100	0	0
49	526	7,8,13,28,43,44,59,66,67,70,79	1	0.00	19	4.94	26	4.32	24	2	37	28	95.21	80	1	50	0	0
50	277	4,7,8,9,13,28,43,44,59,66,67,70,81	1	0.00	19	4.94	19	2.54	18	1	41	50	98.50	84	2	100	0	0
51	520	8,10,20,29,43,44,59,66,67,70,79	3	2.50	18	4.56	23	3.56	21	2	39	39	93.65	78	1	50	0	0
52	16	2,10,20,29,43,44,59,66,67,70	4	3.75	19	4.94	18	2.29	16	1	43	61	83.35	65	1	50	0	0
53	119	2,8,9,17,32,37,63,74,75,80,81	4	3.75	11	1.90	20	2.80	18	1	42	56	70.10	47	1	50	0	0
54	217	3,8,10,20,22,28,43,44,59,66,67,70,81	9	10.00	21	5.70	22	3.31	22	2	43	61	80.55	61	1	50	0	0
55	523	8,10,20,22,28,43,44,59,66,67,70,79	5	5.00	16	3.80	24	3.81	23	2	39	39	91.24	75	1	50	0	0
56	13	2,10,20,22,28,43,44,59,66,67,70	6	6.25	17	4.18	19	2.54	18	1	43	61	80.94	61	1	50	0	0
57	36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	3	2.50	22	6.08	19	2.54	18	1	45	72	90.77	74	1	50	0	0
58	81	2,8,14,20,29,43,44,59,66,67,70,78	3	2.50	22	6.08	19	2.54	18	1	46	78	82.86	64	1	50	0	0
59	220	3,8,10,20,29,43,44,59,66,67,70,81	7	7.50	23	6.46	21	3.05	20	1	43	61	82.96	64	1	50	0	0
60	78	2,8,14,20,22,28,43,44,59,66,67,70,78	5	5.00	20	5.32	20	2.80	20	1	46	78	80.46	61	1	50	0	0
61	176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	27	32.50	58	19.75	37	7.12	24	2	41	50	54.28	27	0	0	0	0
62	511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	24	28.75	52	17.47	40	7.88	27	2	34	11	75.26	54	0	0	0	0

**Institutional land use includes schools, churches, and hospitals
**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

			Land Use															
Rank	Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000 ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
63	301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	23	27.50	53	17.85	32	5.85	19	1	40	44	76.17	55	1	50	0	0
64	10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	25	30.00	53	17.85	35	6.61	22	2	38	33	64.96	41	0	0	0	0
65	123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	25	30.00	55	18.61	33	6.10	17	1	39	39	94.61	79	1	50	0	0
66	467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	23	27.50	53	17.85	39	7.63	25	2	34	11	72.88	51	0	0	0	0
67	300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	23	27.50	53	17.85	32	5.85	18	1	38	33	70.59	48	1	50	0	0
68	270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	10	11.25	33	10.25	38	7.37	44	4	44	67	86.86	69	1	50	0	0
69	466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	23	27.50	53	17.85	39	7.63	24	2	32	0	67.30	44	0	0	0	0
70	33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	5	5.00	20	5.32	20	2.80	20	1	45	72	88.37	71	1	50	0	0
71	356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	23	27.50	53	17.85	32	5.85	18	1	39	39	58.20	32	1	50	0	0
72	274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	3	2.50	21	5.70	19	2.54	17	1	44	67	105.24	93	2	100	0	0
73	471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	23	27.50	53	17.85	39	7.63	25	2	36	22	64.97	41	0	0	0	0
74	470	14,15,19,30,33,45,47,48,52,65,67,78,79	23	27.50	53	17.85	39	7.63	24	2	34	11	59.39	33	0	0	0	0
75	288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	24	28.75	52	17.47	33	6.10	20	1	38	33	72.97	51	1	50	0	0
76	126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	23	27.50	57	19.37	32	5.85	15	1	39	39	97.00	82	1	50	0	0
77	30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	24	28.75	56	18.99	36	6.86	22	2	40	44	72.36	50	0	0	0	0
78	131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	27	32.50	58	19.75	37	7.12	24	2	39	39	62.19	37	0	0	0	0
79	149 (Mod1)	Mod. #1 to Route 149 (scored as complete new route)	8	8.75	56	18.99	68	15.00	39	4	38	33	70.52	48	0	0	0	0
80	29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	24	28.75	56	18.99	36	6.86	21	2	38	33	66.78	43	0	0	0	0
81	513	8,10,15,19,21,29,43,44,55,67,70,76,79	20	23.75	51	17.09	35	6.61	18	1	34	11	110.07	100	1	50	0	0
82	75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	24	28.75	56	18.99	36	6.86	22	2	42	56	64.45	40	0	0	0	0
83	130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	27	32.50	58	19.75	37	7.12	23	2	38	33	56.61	30	0	0	0	0
84	473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	19	22.50	52	17.47	34	6.36	16	1	34	11	107.69	96	1	50	0	0
85	74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	24	28.75	56	18.99	36	6.86	21	2	40	44	58.87	33	0	0	0	0
86	510	8,10,15,19,30,33,45,47,48,52,65,67,79	24	28.75	52	17.47	40	7.88	26	2	32	0	69.68	47	0	0	0	0
87	210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	24	28.75	64	22.03	39	7.63	20	1	40	44	98.87	85	1	50	0	0
88	213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	28	33.75	57	19.37	38	7.37	25	2	37	28	59.00	33	0	0	0	0
89	271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	10	11.25	33	10.25	38	7.37	45	5	46	78	92.44	77	1	50	0	0
90	289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	24	28.75	52	17.47	33	6.10	21	2	40	44	78.55	58	1	50	0	0
91	485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	21	25.00	50	16.71	35	6.61	18	1	34	11	105.29	93	1	50	0	0
92	349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	23	27.50	53	17.85	32	5.85	19	1	41	50	68.26	45	1	50	0	0
93	175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	27	32.50	58	19.75	37	7.12	23	2	40	44	48.70	19	0	0	0	0
94	147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	41	50.00	76	26.58	37	7.12	26	2	38	33	60.78	35	0	0	0	0
95	312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	33	40.00	70	24.30	27	4.58	12	0	38	33	109.57	99	2	100	0	0
96	209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	24	28.75	56	18.99	33	6.10	17	1	38	33	99.38	86	1	50	0	0
97	146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	41	50.00	76	26.58	37	7.12	25	2	37	28	55.20	28	0	0	0	0
98	486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	21	25.00	58	19.75	41	8.14	21	2	36	22	104.79	93	1	50	0	0
99	127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	23	27.50	65	22.41	38	7.37	18	1	41	50	96.49	82	1	50	0	0
100	5	2,10,15,19,21,29,43,44,55,67,70,76	21	25.00	52	17.47	30	5.34	13	1	38	33	99.77	86	1	50	0	0
101	317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	37	45.00	71	24.68	32	5.85	21	2	40	44	74.76	53	1	50	0	0
102	22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	22	26.25	53	17.85	32	5.85	15	1	40	44	104.77	93	1	50	0	0
103	455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	37	45.00	71	24.68	39	7.63	27	2	34	11	71.47	49	0	0	0	0
104	316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	37	45.00	71	24.68	32	5.85	20	1	38	33	69.18	46	1	50	0	0
105	9	2,10,15,19,30,33,45,47,48,52,65,67	25	30.00	53	17.85	35	6.61	21	2	36	22	59.38	33	0	0	0	0
106	454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	37	45.00	71	24.68	39	7.63	26	2	32	0	65.89	42	0	0	0	0
107	206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	26	31.25	54	18.23	34	6.36	19	1	38	33	96.99	82	1	50	0	0
108	474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	19	22.50	60	20.51	40	7.88	19	1	36	22	107.18	96	1	50	0	0
109	516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	22	26.25	49	16.33	36	6.86	20	1	34	11	107.68	96	1	50	0	0
110	124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	25	30.00	63	21.65	39	7.63	20	1	41	50	94.10	79	1	50	0	0
111	2	2,10,15,19,21,22,28,43,44,55,67,70,76	23	27.50	50	16.71	31	5.59	15	1	38	33	97.37	83	1	50	0	0
112	25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	20	23.75	55	18.61	31	5.59	13	1	40	44	107.17	96	1	50	0	0
113	129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	27	32.50	66	22.78	45	9.15	28	2	45	72	80.18	61	1	50	0	0
114	46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	38	46.25	74	25.82	36	6.86	24	2	40	44	70.95	48	0	0	0	0
115	458	11,18,19,30,33,45,47,48,52,65,67,77,83	37	45.00	72	25.06	41	8.14	23	2	34	11	60.06	34	0	0	0	0
116	139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	39	47.50	73	25.44	33	6.10	19	1	38	33	93.19	77	1	50	0	0
117	313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	33	40.00	78	27.34	33	6.10	15	1	40	44	109.06	98	2	100	0	0
118	476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	33	40.00	70	24.30	34	6.36	18	1	34	11	106.28	95	1	50	0	0
119	192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	41	50.00	77	26.96	39	7.63	23	2	43	61	47.04	17	0	0	0	0
120	7	2,10,15,19,30,33,45,47,48,52,53,69,80	25	30.00	54	18.23	36	6.86	22	2	37	28	59.38	33	0	0	0	0
121	309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	35	42.50	68	23.54	28	4.83	14	1	38	33	107.17	96	2	100	0	0
122	514	8,10,15,19,21,29,43,44,59,66,67,70,79	20	23.75	59	20.13	41	8.14	21	2	36	22	109.56	99	1	50	0	0
123	366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	37	45.00	72	25.06	34	6.36	17	1	41	50	55.44	28	1	50	0	0
124	329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	33	40.00	71	24.68	29	5.08	9	0	40	44	103.74	91	2	100	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

			Land Use															
Rank	Routes	Study Segments	Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000 ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
125	6	2,10,15,19,21,29,43,44,59,66,67,70	21	25.00	60	20.51	36	6.86	16	1	40	44	99.26	85	1	50	0	0
126	23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	22	26.25	61	20.89	38	7.37	18	1	42	56	104.27	92	1	50	0	0
127	142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	37	45.00	75	26.20	32	5.85	17	1	38	33	95.59	81	1	50	0	0
128	165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	41	50.00	77	26.96	39	7.63	23	2	41	50	54.95	28	0	0	0	0
129	207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	26	31.25	62	21.27	40	7.88	22	2	40	44	96.48	82	1	50	0	0
130	41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	34	41.25	73	25.44	31	5.59	15	1	40	44	105.75	94	1	50	0	0
131	164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	41	50.00	77	26.96	39	7.63	22	2	40	44	49.37	20	0	0	0	0
132	482	18,19,21,29,43,44,55,67,70,76,77,78,79	33	40.00	71	24.68	36	6.86	15	1	37	28	92.54	77	1	50	0	0
133	517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	22	26.25	57	19.37	42	8.39	23	2	36	22	107.17	96	1	50	0	0
134	363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	33	40.00	71	24.68	29	5.08	9	0	41	50	95.82	81	2	100	0	0
135	334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	37	45.00	72	25.06	34	6.36	18	1	42	56	68.93	46	1	50	0	0
136	143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	37	45.00	83	29.24	38	7.37	20	1	40	44	95.08	80	1	50	0	0
137	45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	38	46.25	74	25.82	36	6.86	23	2	38	33	65.37	41	0	0	0	0
138	157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	39	47.50	74	25.82	35	6.61	16	1	41	50	87.36	70	1	50	0	0
139	212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	28	33.75	65	22.41	46	9.41	30	3	44	67	82.56	64	1	50	0	0
140	459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	37	45.00	72	25.06	41	8.14	24	2	36	22	65.64	42	0	0	0	0
141	299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	23	27.50	61	20.89	40	7.88	23	2	45	72	94.16	79	2	100	0	0
142	333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	37	45.00	72	25.06	34	6.36	17	1	40	44	63.35	39	1	50	0	0
143	269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	10	11.25	41	13.29	46	9.41	49	5	50	100	110.43	100	2	100	0	0
144	463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	37	45.00	72	25.06	41	8.14	24	2	38	33	57.73	31	0	0	0	0
145	468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,84	23	27.50	61	20.89	47	9.66	29	3	40	44	90.87	74	1	50	0	0
146	472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	23	27.50	61	20.89	47	9.66	29	3	41	50	82.96	64	1	50	0	0
147	462	18,19,30,33,45,47,48,52,65,67,77,78,79	37	45.00	72	25.06	41	8.14	23	2	36	22	52.15	24	0	0	0	0
148	174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	27	32.50	66	22.78	45	9.15	28	2	46	78	72.27	50	1	50	0	0
149	367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	37	45.00	72	25.06	34	6.36	18	1	43	61	61.02	35	1	50	0	0
150	184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	39	47.50	74	25.82	35	6.61	16	1	42	56	79.45	60	1	50	0	0
151	191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	41	50.00	77	26.96	39	7.63	22	2	42	56	41.46	10	0	0	0	0
152	140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	39	47.50	81	28.48	39	7.63	22	2	40	44	92.69	77	1	50	0	0
153	160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	37	45.00	76	26.58	34	6.36	14	1	41	50	89.76	73	1	50	0	0
154	477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	33	40.00	78	27.34	40	7.88	21	2	36	22	105.77	94	1	50	0	0
155	310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	35	42.50	76	26.58	34	6.36	17	1	40	44	106.67	95	2	100	0	0
156	488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	35	42.50	68	23.54	35	6.61	20	1	34	11	103.88	91	1	50	0	0
157	63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	38	46.25	75	26.20	38	7.37	20	1	40	44	59.54	34	0	0	0	0
158	90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	38	46.25	75	26.20	38	7.37	20	1	42	56	51.63	23	0	0	0	0
159	479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	33	40.00	71	24.68	36	6.86	15	1	36	22	100.44	87	1	50	0	0
160	187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	37	45.00	76	26.58	34	6.36	14	1	42	56	81.84	63	1	50	0	0
161	326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	35	42.50	69	23.92	30	5.34	11	0	40	44	101.34	88	2	100	0	0
162	491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	39	47.50	74	25.82	35	6.61	16	1	41	50	87.36	70	1	50	0	0
163	489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	35	42.50	76	26.58	41	8.14	23	2	36	22	103.38	91	1	50	0	0
164	3	2,10,15,19,21,22,28,43,44,59,66,67,70	23	27.50	58	19.75	37	7.12	18	1	40	44	96.87	82	1	50	0	0
165	315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	37	45.00	79	27.72	40	7.88	25	2	45	72	92.75	77	2	100	0	0
166	26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	20	23.75	63	21.65	37	7.12	16	1	42	56	106.66	95	1	50	0	0
167	42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	34	41.25	81	28.48	37	7.12	18	1	42	56	105.25	93	1	50	0	0
168	483	18,19,21,29,43,44,59,66,67,70,77,78,79	33	40.00	79	27.72	42	8.39	18	1	39	39	92.03	76	1	50	0	0
169	8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	25	30.00	61	20.89	43	8.64	26	2	44	67	82.95	64	1	50	0	0
170	38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	36	43.75	71	24.68	32	5.85	17	1	40	44	103.36	91	1	50	0	0
171	494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	35	42.50	69	23.92	37	7.12	17	1	37	28	90.14	74	1	50	0	0
172	360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	35	42.50	69	23.92	30	5.34	11	0	41	50	93.43	78	2	100	0	0
173	59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	34	41.25	74	25.82	33	6.10	12	0	42	56	99.92	86	1	50	0	0
174	64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	38	46.25	75	26.20	38	7.37	21	2	42	56	65.12	41	0	0	0	0
175	145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	41	50.00	84	29.62	45	9.15	30	3	44	67	78.77	59	1	50	0	0
176	91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	38	46.25	75	26.20	38	7.37	21	2	44	67	57.21	31	0	0	0	0
177	330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	33	40.00	79	27.72	35	6.61	12	0	42	56	103.22	91	2	100	0	0
178	161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	37	45.00	84	29.62	40	7.88	17	1	43	61	89.25	72	1	50	0	0
179	73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	24	28.75	64	22.03	44	8.90	26	2	47	83	82.44	63	1	50	0	0
180	512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	24	28.75	60	20.51	48	9.92	31	3	40	44	93.25	78	1	50	0	0
181	480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	33	40.00	79	27.72	42	8.39	18	1	38	33	99.94	86	1	50	0	0
182	456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	37	45.00	79	27.72	47	9.66	31	3	40	44	89.46	73	1	50	0	0
183	364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	33	40.00	79	27.72	35	6.61	12	0	43	61	95.32	80	2	100	0	0
184	57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	36	43.75	80	28.10	40	7.88	17	1	44	67	97.02	82	1	50	0	0
185	278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	24	28.75	60	20.51	41	8.14	25	2	45	72	96.54	82	2	100	0	0
186	327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	35	42.50	77	26.96	36	6.86	14	1	42	56	100.83	87	2	100	0	0

**Institutional land use includes schools, churches, and hospitals

**Other sensitive land uses include parks, preserves, managed areas, conservation sites, golf courses, and airports.

Rank	Routes	Study Segments	Land Use															
			Residences within 250-ft of centerline	Normalized Score for Residences within 250-ft of centerline (weighted 50%)	Residences between 250-500-ft of centerline	Normalized Score for Residences between 250-500-ft of centerline (weighted 30%)	Residences between 500-750-ft of centerline	Normalized Score for Residences between 500-750-ft of centerline (weighted 15%)	Residences between 750-1,000-ft of centerline	Normalized Score for Residences between 750-1,000-ft of centerline (weighted 5%)	Property Owners Crossed by ROW	Normalized Score for Property Owners Crossed by ROW	Ag. District Lands Crossed by ROW (acres)	Normalized Score for Ag. District Lands Crossed by ROW	Other Sensitive Land Uses within 1,000-ft**	Normalized Score for Linear Feet of Other Sensitive Land Uses within 1,000-ft	Institutional Land Uses within 1,000 ft of centerline**	Normalized Score for Institutional Land Uses within 1,000-ft of centerline
187	158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	39	47.50	82	28.86	41	8.14	19	1	43	61	86.86	69	1	50	0	0
188	84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	36	43.75	80	28.10	40	7.88	17	1	45	72	89.11	72	1	50	0	0
189	86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	34	41.25	74	25.82	33	6.10	12	0	43	61	92.01	76	1	50	0	0
190	39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	36	43.75	79	27.72	38	7.37	20	1	42	56	102.85	90	1	50	0	0
191	495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	35	42.50	77	26.96	43	8.64	20	1	39	39	89.63	73	1	50	0	0
192	332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	37	45.00	80	28.10	42	8.39	22	2	47	83	86.92	69	2	100	0	0
193	361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	35	42.50	77	26.96	36	6.86	14	1	43	61	92.92	77	2	100	0	0
194	28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,8	24	28.75	64	22.03	44	8.90	26	2	46	78	90.35	74	1	50	0	0
195	464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	37	45.00	80	28.10	49	10.17	28	2	43	61	75.72	55	1	50	0	0
196	56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	36	43.75	72	25.06	34	6.36	14	1	42	56	97.53	83	1	50	0	0
197	83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	36	43.75	72	25.06	34	6.36	14	1	43	61	89.62	73	1	50	0	0
198	188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	37	45.00	84	29.62	40	7.88	17	1	44	67	81.34	62	1	50	0	0
199	492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	35	42.50	77	26.96	43	8.64	20	1	38	33	97.54	83	1	50	0	0
200	185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	39	47.50	82	28.86	41	8.14	19	1	44	67	78.94	59	1	50	0	0
201	162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	41	50.00	78	27.34	40	7.88	23	2	41	50	49.37	20	0	0	0	0
202	44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	38	46.25	82	28.86	44	8.90	28	2	46	78	88.94	72	1	50	0	0
203	460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,84	37	45.00	80	28.10	49	10.17	28	2	42	56	83.63	65	1	50	0	0
204	190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	41	50.00	85	30.00	47	9.66	27	2	48	89	65.03	41	1	50	0	0
205	368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	37	45.00	80	28.10	42	8.39	22	2	48	89	79.01	59	2	100	0	0
206	163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	41	50.00	85	30.00	47	9.66	27	2	47	83	72.94	51	1	50	0	0
207	60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	34	41.25	82	28.86	39	7.63	15	1	44	67	99.42	86	1	50	0	0
208	87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	34	41.25	82	28.86	39	7.63	15	1	45	72	91.51	75	1	50	0	0
209	461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	37	45.00	73	25.44	42	8.39	24	2	37	28	52.15	24	0	0	0	0
210	189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	41	50.00	78	27.34	40	7.88	23	2	43	61	41.46	10	0	0	0	0
211	62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,8	38	46.25	83	29.24	46	9.41	25	2	48	89	83.11	64	1	50	0	0
212	89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	38	46.25	83	29.24	46	9.41	25	2	49	94	75.20	54	1	50	0	0
		MIN	1	0	6	0	9	0	9	0	32	0	34	0	0	0	0	0
		MAX	41	50	85	30	68	15	49	5	50	100	110	100	2	100	0	0
		RANGE	40	50	79	30	59	15	40	5	18	100	77	100	2	100	0	0

**Institutional land use includes schools, churches, and hospitals
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			Technical															
Rank	Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
1	266	4,17,32,37,63,74,75,80	0	0	4	25	7.56	0	0.00	30	2.90	21	0.00	100	9.47	23	0.15	0
2	306	4,9,11,14,20,29,43,44,55,67,70,76,83	0	0	6	50	2.03	22	1.91	20	1.22	34	0.44	85	10.81	49	0.15	0
3	266 (Mod)	4,17,32,37,63,74,75(mod),80(mod)	0	0	7	63	7.09	2	0.00	30	2.94	20	0.00	100	9.48	23	0.15	0
4	307	4,9,11,14,20,29,43,44,59,66,67,70,83	0	0	4	25	2.03	22	0.44	28	0.98	36	0.44	85	10.53	44	0.15	0
5	500	14,20,29,43,44,55,67,70,76,78,79	0	0	4	25	0.00	30	3.98	8	0.78	38	0.00	100	9.45	23	1.13	49
6	354	4,9,14,20,29,43,44,55,67,70,76,78,81	0	0	6	50	2.03	22	1.93	19	0.78	38	0.00	100	10.83	50	0.15	0
7	133	3,11,14,20,22,28,43,44,55,67,70,76,83	0	0	6	50	0.00	30	3.33	12	2.65	23	1.86	38	9.75	29	1.07	46
8	149	3,11,16,23,25,31,33,45,47,48,52,65,67	0	0	5	38	0.00	30	5.41	0	5.42	0	3.02	0	8.33	1	1.07	46
9	178	3,14,20,22,28,43,44,55,67,70,76,78,81	0	0	6	50	0.00	30	3.35	12	2.21	26	1.42	53	9.77	29	1.07	46
10	136	3,11,14,20,29,43,44,55,67,70,76,83	0	0	5	38	0.00	30	3.33	12	2.65	23	1.86	38	9.50	24	1.07	46
11	203	3,7,8,13,28,43,44,55,67,70,76,81	0	0	7	63	0.00	30	2.89	14	2.21	26	1.42	53	10.32	40	1.07	46
12	219	3,8,10,20,29,43,44,55,67,70,76,81	0	0	6	50	0.00	30	2.89	14	2.21	26	1.42	53	9.77	29	1.07	46
13	242	3,9,17,32,37,63,74,75,80	0	0	5	38	5.56	8	1.42	22	4.31	9	1.42	53	10.86	50	1.07	46
14	519	8,10,20,29,43,44,55,67,70,76,79	0	0	5	38	0.00	30	3.52	11	0.78	38	0.00	100	9.71	28	1.13	49
15	497	11,14,20,29,43,44,55,67,70,76,79,81,83	0	0	6	50	0.00	30	3.96	8	1.22	34	0.44	85	9.55	25	1.13	49
16	181	3,14,20,29,43,44,55,67,70,76,78,81	0	0	5	38	0.00	30	3.35	12	2.21	26	1.42	53	9.52	24	1.07	46
17	303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	0	0	7	63	2.03	22	1.91	20	1.22	34	0.44	85	11.07	54	0.15	0
18	498	11,14,20,29,43,44,59,66,67,70,79,81,83	0	0	4	25	0.00	30	2.49	16	0.98	36	0.44	85	9.26	19	1.13	49
19	501	14,20,29,43,44,59,66,67,70,78,79	0	0	2	0	0.00	30	2.51	16	0.54	40	0.00	100	9.17	17	1.13	49
20	522	8,10,20,22,28,43,44,55,67,70,76,79	0	0	6	50	0.00	30	3.52	11	0.78	38		100	9.96	33	1.13	49
21	355	4,9,14,20,29,43,44,59,66,67,70,78,81	0	0	4	25	2.03	22	0.46	27	0.54	40	0.00	100	10.54	44	0.15	0
22	304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	0	0	5	38	2.03	22	0.44	28	0.98	36	0.44	85	10.78	49	0.15	0
23	12	2,10,20,22,28,43,44,55,67,70,76	0	0	5	38	0.00	30	1.47	22	0.78	38	0.00	100	9.36	21	2.16	100
24	503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	0	0	7	63	0.00	30	3.96	8	1.22	34	0.44	85	9.80	30	1.13	49
25	506	14,20,22,28,43,44,55,67,70,76,78,79	0	0	5	38	0.00	30	3.98	8	0.78	38	0.00	100	9.71	28	1.13	49
26	351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	0	0	7	63	2.03	22	1.93	19	0.78	38	0.00	100	11.08	54	0.15	0
27	35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	0	0	7	63	0.00	30	1.91	20	1.22	34	0.44	85	10.11	36	2.16	100
28	80	2,8,14,20,29,43,44,55,67,70,76,78	0	0	5	38	0.00	30	1.93	19	0.78	38	0.00	100	10.02	34	2.16	100
29	410	9,17,32,37,63,74,75,79,80,81	0	0	6	50	5.56	8	2.05	19	2.88	21	0.00	100	10.91	51	1.13	49
30	525	7,8,13,28,43,44,55,67,70,76,79	0	0	6	50	0.00	30	3.52	11	0.78	38	0.00	100	10.26	39	1.13	49
31	507	14,20,22,28,43,44,59,66,67,70,78,79	0	0	3	13	0.00	30	2.51	16	0.54	40		100	9.42	22	1.13	49
32	276	4,7,8,9,13,28,43,44,55,67,70,76,81	0	0	8	75	2.03	22	1.47	22	0.78	38	0.00	100	11.63	65	0.15	0
33	352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	0	0	5	38	2.03	22	0.46	27	0.54	40		100	10.79	49	0.15	0
34	18	2,7,13,28,43,44,55,67,70,76	0	0	5	38	0.00	30	1.47	22	0.78	38	0.00	100	9.66	27	2.16	100
35	15	2,10,20,29,43,44,55,67,70,76	0	0	4	25	0.00	30	1.47	22	0.78	38	0.00	100	9.10	16	2.16	100
36	137	3,11,14,20,29,43,44,59,66,67,70,83	0	0	3	13	0.00	30	1.86	20	2.41	25	1.86	38	9.22	18	1.07	46
37	18 (Mod)	2(mod),7(mod),13(mod),28,43,44,55,67,70,76	0	0	6	50	0.00	30	1.54	22	0.83	38	0.00	100	9.30	20	2.16	100
38	77	2,8,14,20,22,28,43,44,55,67,70,76,78	0	0	6	50	0.00	30	1.93	19	0.78	38		100	10.27	39	2.16	100
39	149 (Mod2)	Mod. #2 to Route 149 (scored as complete new route)	0	0	6	50	0.00	30	4.01	8	4.08	11	2.47	18	8.52	5	1.07	46
40	216	3,8,10,20,22,28,43,44,55,67,70,76,81	0	0	7	63	0.00	30	2.89	14	2.21	26	1.42	53	10.02	34	1.07	46
41	19	2,7,13,28,43,44,59,66,67,70	0	0	3	13	0.00	30	0.00	30	0.54	40		100	9.37	21	2.16	100
42	182	3,14,20,29,43,44,59,66,67,70,78,81	0	0	3	13	0.00	30	1.88	20	1.97	28	1.42	53	9.23	19	1.07	46
43	134	3,11,14,20,22,28,43,44,59,66,67,70,83	0	0	4	25	0.00	30	1.86	20	2.41	25	1.86	38	9.47	23	1.07	46
44	504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	0	0	5	38	0.00	30	2.49	16	0.98	36	0.44	85	9.52	24	1.13	49
45	179	3,14,20,22,28,43,44,59,66,67,70,78,81	0	0	4	25	0.00	30	1.88	20	1.97	28	1.42	53	9.48	24	1.07	46
46	204	3,7,8,13,28,43,44,59,66,67,70,81	0	0	5	38	0.00	30	1.42	22	1.97	28	1.42	53	10.04	34	1.07	46
47	32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	0	0	8	75	0.00	30	1.91	20	1.22	34	0.44	85	10.36	41	2.16	100
48	273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	0	0	9	88	2.03	22	1.47	22	0.78	38	0.00	100	12.10	74	0.15	0
49	526	7,8,13,28,43,44,59,66,67,70,79	0	0	4	25	0.00	30	2.05	19	0.54	40	0.00	100	9.97	33	1.13	49
50	277	4,7,8,9,13,28,43,44,59,66,67,70,81	0	0	6	50	2.03	22	0.00	30	0.54	40	0.00	100	11.35	60	0.15	0
51	520	8,10,20,29,43,44,59,66,67,70,79	0	0	3	13	0.00	30	2.05	19	0.54	40	0.00	100	9.42	22	1.13	49
52	16	2,10,20,29,43,44,59,66,67,70	0	0	2	0	0.00	30	0.00	30	0.54	40	0.00	100	8.82	11	2.16	100
53	119	2,8,9,17,32,37,63,74,75,80,81	0	0	7	63	5.56	8	0.00	30	2.88	21	0.00	100	11.47	62	2.16	100
54	217	3,8,10,20,22,28,43,44,59,66,67,70,81	0	0	5	38	0.00	30	1.42	22	1.97	28	1.42	53	9.74	28	1.07	46
55	523	8,10,20,22,28,43,44,59,66,67,70,79	0	0	4	25	0.00	30	2.05	19	0.54	40	0.00	100	9.67	27	1.13	49
56	13	2,10,20,22,28,43,44,59,66,67,70	0	0	3	13	0.00	30	0.00	30	0.54	40	0.00	100	9.07	16	2.16	100
57	36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	0	0	5	38	0.00	30	0.44	28	0.98	36	0.44	85	9.83	30	2.16	100
58	81	2,8,14,20,29,43,44,59,66,67,70,78	0	0	3	13	0.00	30	0.46	27	0.54	40	0.00	100	9.73	28	2.16	100
59	220	3,8,10,20,29,43,44,59,66,67,70,81	0	0	4	25	0.00	30	1.42	22	1.97	28	1.42	53	9.49	24	1.07	46
60	78	2,8,14,20,22,28,43,44,59,66,67,70,78	0	0	4	25	0.00	30	0.46	27	0.54	40	0.00	100	9.98	33	2.16	100
61	176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	0	0	6	50	0.00	30	3.92	9	3.36	17	1.42	53	8.84	11	1.07	46
62	511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	0	0	6	50	0.00	30	4.08	8	1.93	29	0.00	100	9.03	15	1.13	49
63	301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	7	63	2.03	22	2.48	16	2.37	25	0.44	85	10.14	36	0.15	0
64	10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	0	0	5	38	0.00	30	2.04	19	1.93	29	0.00	100	8.43	3	2.16	100
65	123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	0	0	8	75	0.00	30	3.33	12	2.65	23	1.86	38	10.16	37	1.07	46
66	467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	0	0	7	63	0.00	30	4.52	5	2.37	25	0.44	85	8.87	12	1.13	49
67	300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	7	63	2.03	22	2.83	14	2.84	21	0.44	85	9.97	33	0.15	0
68	270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	0	0	9	88	2.03	22	2.39	17	2.40	25	0.00	100	11.98	72	0.15	0

			Technical															
Rank	Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
69	466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	0	0	7	63	0.00	30	4.88	3	2.83	21	0.44	85	8.71	9	1.13	49
70	33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	0	0	6	50	0.00	30	0.44	28	0.98	36	0.44	85	10.08	35	2.16	100
71	356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	0	0	6	50	2.03	22	2.86	14	2.40	25	0.00	100	9.69	28	0.15	0
72	274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	0	0	7	63	2.03	22	0.00	30	0.54	40	0.00	100	11.82	69	0.15	0
73	471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	0	0	5	38	0.00	30	4.55	5	1.93	29	0.00	100	8.78	10	1.13	49
74	470	14,15,19,30,33,45,47,48,52,65,67,78,79	0	0	5	38	0.00	30	4.90	3	2.39	25	0.00	100	8.61	7	1.13	49
75	288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	0	0	8	75	2.03	22	2.39	17	2.40	25	0.00	100	10.24	38	0.15	0
76	126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	0	0	7	63	0.00	30	3.33	12	2.65	23	1.86	38	9.91	32	1.07	46
77	30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	0	0	8	75	0.00	30	2.48	16	2.37	25	0.44	85	9.43	23	2.16	100
78	131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	0	0	6	50	0.00	30	3.90	9	3.80	13	1.86	38	8.82	11	1.07	46
79	149 (Mod1)	Mod. #1 to Route 149 (scored as complete new route)	0	0	9	88	0.00	30	3.19	13	4.10	11	2.01	34	8.69	8	1.07	46
80	29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	0	0	8	75	0.00	30	2.83	14	2.83	21	0.44	85	9.27	19	2.16	100
81	513	8,10,15,19,21,29,43,44,55,67,70,76,79	0	0	7	63	0.00	30	3.52	11	0.78	38	0.00	100	10.12	36	1.13	49
82	75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	0	0	6	50	0.00	30	2.50	16	1.93	29	0.00	100	9.34	21	2.16	100
83	130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	0	0	6	50	0.00	30	4.25	7	4.27	9	1.86	38	8.66	8	1.07	46
84	473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	0	0	8	75	0.00	30	3.96	8	1.22	34	0.44	85	9.96	33	1.13	49
85	74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	0	0	6	50	0.00	30	2.86	14	2.39	25	0.00	100	9.17	18	2.16	100
86	510	8,10,15,19,30,33,45,47,48,52,65,67,79	0	0	6	50	0.00	30	4.44	6	2.39	25	0.00	100	8.87	12	1.13	49
87	210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	0	0	6	50	0.00	30	1.42	22	1.97	28	1.42	53	9.89	31	1.07	46
88	213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	0	0	7	63	0.00	30	3.81	9	3.83	13	1.42	53	8.93	13	1.07	46
89	271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	0	0	10	100	2.03	22	2.04	19	1.93	29	0.00	100	12.20	76	0.15	0
90	289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	0	0	8	75	2.03	22	2.04	19	1.93	29	0.00	100	10.41	41	0.15	0
91	485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	0	0	9	88	0.00	30	3.96	8	1.22	34	0.44	85	10.21	38	1.13	49
92	349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	0	0	7	63	2.03	22	2.50	16	1.93	29	0.00	100	10.15	36	0.15	0
93	175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	0	0	6	50	0.00	30	4.28	7	3.83	13	1.42	53	8.68	8	1.07	46
94	147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	5	38	0.00	30	4.50	5	4.40	8	2.46	18	8.86	12	1.07	46
95	312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	7	63	2.03	22	2.51	16	1.82	30	1.04	66	11.26	58	0.15	0
96	209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	0	0	8	75	0.00	30	2.89	14	2.21	26	1.42	53	10.18	37	1.07	46
97	146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	5	38	0.00	30	4.85	3	4.86	5	2.46	18	8.70	8	1.07	46
98	486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	0	0	7	63	0.00	30	2.49	16	0.98	36	0.44	85	9.92	32	1.13	49
99	127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	0	0	5	38	0.00	30	1.86	20	2.41	25	1.86	38	9.62	26	1.07	46
100	5	2,10,15,19,21,29,43,44,55,67,70,76	0	0	6	50	0.00	30	1.47	22	0.78	38	0.00	100	9.51	24	2.16	100
101	317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	0	0	6	50	2.03	22	3.08	13	2.97	20	1.04	66	10.17	37	0.15	0
102	22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	0	0	10	100	0.00	30	1.91	20	1.22	34	0.44	85	10.77	48	2.16	100
103	455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	0	0	6	50	0.00	30	5.12	2	2.97	20	1.04	66	8.91	12	1.13	49
104	316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	0	0	6	50	2.03	22	3.43	11	3.44	16	1.04	66	10.01	34	0.15	0
105	9	2,10,15,19,30,33,45,47,48,52,65,67	0	0	5	38	0.00	30	2.39	17	2.39	25	0.00	100	8.26	0	2.16	100
106	454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	0	0	6	50	0.00	30	5.48	0	3.43	16	1.04	66	8.75	9	1.13	49
107	206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	0	0	9	88	0.00	30	2.89	14	2.21	26	1.42	53	10.43	42	1.07	46
108	474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	0	0	6	50	0.00	30	2.49	16	0.98	36	0.44	85	9.67	27	1.13	49
109	516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	0	0	8	75	0.00	30	3.52	11	0.78	38	0.00	100	10.37	41	1.13	49
110	124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	0	0	6	50	0.00	30	1.86	20	2.41	25	1.86	38	9.87	31	1.07	46
111	2	2,10,15,19,21,22,28,43,44,55,67,70,76	0	0	7	63	0.00	30	1.47	22	0.78	38	0.00	100	9.76	29	2.16	100
112	25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	0	0	9	88	0.00	30	1.91	20	1.22	34	0.44	85	10.52	44	2.16	100
113	129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	6	50	0.00	30	3.95	8	3.56	15	1.86	38	10.06	35	1.07	46
114	46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	0	0	7	63	0.00	30	3.08	13	2.97	20	1.04	66	9.47	23	2.16	100
115	458	11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	7	63	0.00	30	5.46	0	2.83	21	0.44	85	8.74	9	1.13	49
116	139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	7	63	0.00	30	3.93	8	3.25	18	2.46	18	10.20	37	1.07	46
117	313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	5	38	2.03	22	1.04	24	1.58	31	1.04	66	10.97	52	0.15	0
118	476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	0	0	7	63	0.00	30	4.56	5	1.82	30	1.04	66	9.99	33	1.13	49
119	192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	6	50	0.00	30	4.50	5	3.36	17	1.42	53	8.86	12	1.07	46
120	7	2,10,15,19,30,33,45,47,48,52,53,69,80	0	0	7	63	0.00	30	1.69	21	2.32	25	0.00	100	9.17	17	2.16	100
121	309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	0	0	8	75	2.03	22	2.51	16	1.82	30	1.04	66	11.51	63	0.15	0
122	514	8,10,15,19,21,29,43,44,59,66,67,70,79	0	0	5	38	0.00	30	2.05	19	0.54	40	0.00	100	9.83	30	1.13	49
123	366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	7	63	2.03	22	3.43	11	2.40	25	0.00	100	10.01	34	0.15	0
124	329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	8	75	2.03	22	2.49	16	1.22	34	0.44	85	11.25	58	0.15	0
125	6	2,10,15,19,21,29,43,44,59,66,67,70	0	0	4	25	0.00	30	0.00	30	0.54	40	0.00	100	9.23	19	2.16	100
126	23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	0	0	8	75	0.00	30	0.44	28	0.98	36	0.44	85	10.49	43	2.16	100
127	142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	0	0	6	50	0.00	30	3.93	8	3.25	18	2.46	18	9.95	32	1.07	46
128	165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	0	0	6	50	0.00	30	4.47	6	3.80	13	1.86	38	8.85	11	1.07	46
129	207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	0	0	7	63	0.00	30	1.42	22	1.97	28	1.42	53	10.14	36	1.07	46
130	41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	0	0	8	75	0.00	30	2.51	16	1.82	30	1.04	66	10.56	44	2.16	100
131	164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	0	0	6	50	0.00	30	4.83	4	4.27	9	1.86	38	8.69	8	1.07	46
132	482	18,19,21,29,43,44,55,67,70,76,77,78,79	0	0	6	50	0.00	30	4.56	5	0.78	38	0.00	100	9.89	31	1.13	49
133	517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	0	0	6	50	0.00	30	2.05	19	0.54	40	0.00	100	10.08	35	1.13	49
134	363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	8	75	2.03	22	2.51	16	0.78	38	0.00	100	11.26	58	0.15	0
135	334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	0	0	7	63	2.03	22	3.05	13	2.37	25	0.44	85	10.16	37	0.15	0
136	143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	0	0	4	25	0.00	30	2.46	17	3.01	20	2.46	18	9.66	27	1.07	46

			Technical															
Rank	Routes	Study Segments	Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
137	45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	0	0	7	63	0.00	30	3.43	11	3.43	16	1.04	66	9.31	20	2.16	100
138	157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	8	75	0.00	30	3.91	9	2.65	23	1.86	38	10.19	37	1.07	46
139	212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	7	63	0.00	30	3.51	11	3.12	19	1.42	53	10.33	40	1.07	46
140	459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	0	0	7	63	0.00	30	5.10	2	2.37	25	0.44	85	8.90	12	1.13	49
141	299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	0	0	7	63	2.03	22	2.53	16	2.13	27	0.44	85	11.37	60	0.15	0
142	333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	0	0	7	63	2.03	22	3.41	11	2.84	21	0.44	85	10.00	34	0.15	0
143	269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	10	100	2.03	22	2.09	19	1.69	31	0.00	100	13.44	100	0.15	0
144	463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	0	0	5	38	0.00	30	5.12	2	1.93	29	0.00	100	8.80	10	1.13	49
145	468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,8	0	0	7	63	0.00	30	4.58	5	2.13	27	0.44	85	10.11	36	1.13	49
146	472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	0	0	5	38	0.00	30	4.60	5	1.69	31	0.00	100	10.01	34	1.13	49
147	462	18,19,30,33,45,47,48,52,65,67,77,78,79	0	0	5	38	0.00	30	5.48	0	2.39	25	0.00	100	8.64	7	1.13	49
148	174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	0	0	6	50	0.00	30	3.98	8	3.12	19	1.42	53	10.08	35	1.07	46
149	367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	0	0	7	63	2.03	22	3.08	13	1.93	29	0.00	100	10.17	37	0.15	0
150	184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	8	75	0.00	30	3.93	8	2.21	26	1.42	53	10.20	37	1.07	46
151	191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	0	0	6	50	0.00	30	4.85	3	3.83	13	1.42	53	8.70	8	1.07	46
152	140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	5	38	0.00	30	2.46	17	3.01	20	2.46	18	9.91	32	1.07	46
153	160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	0	0	7	63	0.00	30	3.91	9	2.65	23	1.86	38	9.93	32	1.07	46
154	477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	0	0	5	38	0.00	30	3.09	13	1.58	31	1.04	66	9.71	28	1.13	49
155	310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	0	0	6	50	2.03	22	1.04	24	1.58	31	1.04	66	11.22	57	0.15	0
156	488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	0	0	8	75	0.00	30	4.56	5	1.82	30	1.04	66	10.25	38	1.13	49
157	63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	0	0	8	75	0.00	30	3.41	11	2.83	21	0.44	85	9.30	20	2.16	100
158	90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	0	0	6	50	0.00	30	3.43	11	2.39	25	0.00	100	9.20	18	2.16	100
159	479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	0	0	8	75	0.00	30	4.53	5	1.22	34	0.44	85	9.98	33	1.13	49
160	187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	0	0	7	63	0.00	30	3.93	8	2.21	26	1.42	53	9.95	33	1.07	46
161	326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	0	0	9	88	2.03	22	2.49	16	1.22	34	0.44	85	11.50	62	0.15	0
162	491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	0	0	8	75	0.00	30	3.91	9	2.65	23	1.86	38	10.19	37	1.07	46
163	489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	0	0	6	50	0.00	30	3.09	13	1.58	31	1.04	66	9.96	33	1.13	49
164	3	2,10,15,19,21,22,28,43,44,59,66,67,70	0	0	5	38	0.00	30	0.00	30	0.54	40	0.00	100	9.48	23	2.16	100
165	315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	0	0	6	50	2.03	22	3.13	13	2.73	22	1.04	66	11.41	61	0.15	0
166	26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	0	0	7	63	0.00	30	0.44	28	0.98	36	0.44	85	10.23	38	2.16	100
167	42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	0	0	6	50	0.00	30	1.04	24	1.58	31	1.04	66	10.27	39	2.16	100
168	483	18,19,21,29,43,44,59,66,67,70,77,78,79	0	0	4	25	0.00	30	3.09	13	0.54	40	0.00	100	9.60	26	1.13	49
169	8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	0	0	5	38	0.00	30	2.09	19	1.69	31	0.00	100	9.67	27	2.16	100
170	38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	0	0	9	88	0.00	30	2.51	16	1.82	30	1.04	66	10.81	49	2.16	100
171	494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	0	0	7	63	0.00	30	4.56	5	0.78	38	0.00	100	10.14	36	1.13	49
172	360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	0	0	9	88	2.03	22	2.51	16	0.78	38	0.00	100	11.51	63	0.15	0
173	59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	0	0	9	88	0.00	30	2.49	16	1.22	34	0.44	85	10.54	44	2.16	100
174	64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	0	0	8	75	0.00	30	3.05	13	2.37	25	0.44	85	9.46	23	2.16	100
175	145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	0	0	5	38	0.00	30	4.55	5	4.16	10	2.46	18	10.10	35	1.07	46
176	91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	0	0	6	50	0.00	30	3.08	13	1.93	29	0.00	100	9.36	21	2.16	100
177	330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	0	0	6	50	2.03	22	1.02	24	0.98	36	0.44	85	10.96	52	0.15	0
178	161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	0	0	5	38	0.00	30	2.44	17	2.41	25	1.86	38	9.65	27	1.07	46
179	73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	0	0	6	50	0.00	30	2.56	16	1.69	31	0.00	100	10.58	45	2.16	100
180	512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	0	0	6	50	0.00	30	4.14	7	1.69	31	0.00	100	10.27	39	1.13	49
181	480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	0	0	6	50	0.00	30	3.06	13	0.98	36	0.44	85	9.70	28	1.13	49
182	456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	0	0	6	50	0.00	30	5.18	2	2.73	22	1.04	66	10.15	36	1.13	49
183	364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	6	50	2.03	22	1.04	24	0.54	40	0.00	100	10.97	52	0.15	0
184	57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	0	0	8	75	0.00	30	1.02	24	0.98	36	0.44	85	10.51	43	2.16	100
185	278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	0	0	8	75	2.03	22	2.09	19	1.69	31	0.00	100	11.64	65	0.15	0
186	327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	0	0	7	63	2.03	22	1.02	24	0.98	36	0.44	85	11.21	57	0.15	0
187	158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	0	0	6	50	0.00	30	2.44	17	2.41	25	1.86	38	9.90	32	1.07	46
188	84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	0	0	6	50	0.00	30	1.04	24	0.54	40	0.00	100	10.41	42	2.16	100
189	86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	0	0	7	63	0.00	30	2.51	16	0.78	38	0.00	100	10.45	42	2.16	100
190	39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	0	0	7	63	0.00	30	1.04	24	1.58	31	1.04	66	10.52	44	2.16	100
191	495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	0	0	5	38	0.00	30	3.09	13	0.54	40	0.00	100	9.85	31	1.13	49
192	332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	7	63	2.03	22	3.11	13	2.13	27	0.44	85	11.40	61	0.15	0
193	361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	7	63	2.03	22	1.04	24	0.54	40	0.00	100	11.23	57	0.15	0
194	28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,8	0	0	8	75	0.00	30	2.53	16	2.13	27	0.44	85	10.67	47	2.16	100
195	464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	0	0	5	38	0.00	30	5.18	2	1.69	31	0.00	100	10.04	34	1.13	49
196	56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	0	0	10	100	0.00	30	2.49	16	1.22	34	0.44	85	10.80	49	2.16	100
197	83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	0	0	8	75	0.00	30	2.51	16	0.78	38	0.00	100	10.70	47	2.16	100
198	188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	0	0	5	38	0.00	30	2.46	17	1.97	28	1.42	53	9.66	27	1.07	46
199	492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	0	0	7	63	0.00	30	3.06	13	0.98	36	0.44	85	9.95	33	1.13	49
200	185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	0	0	6	50	0.00	30	2.46	17	1.97	28	1.42	53	9.91	32	1.07	46
201	162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	0	0	8	75	0.00	30	4.13	7	4.19	10	1.86	38	9.59	26	1.07	46
202	44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	0	0	7	63	0.00	30	3.13	13	2.73	22	1.04	66	10.71	47	2.16	100
203	460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,8	0	0	7	63	0.00	30	5.16	2	2.13	27	0.44	85	10.14	36	1.13	49

Rank	Routes	Study Segments	Technical															
			Interstate Highway Crossings	Normalized Score for Interstate Highway Crossings	Turn Angles Greater than or Equal to 45 Degrees	Normalized Score for Turn Angles Greater than or Equal to 45 Degrees	Length of Segment Paralleling limited Access Highway (in miles)	Normalized Score for Length of Segment Paralleling limited Access Highway (weighted 30%)	Length of Segment Paralleling Railroad Corridor (in miles)	Normalized Score for Length of Segment Paralleling Railroad Corridor (weighted 30%)	Length of Segment Paralleling Existing Transmission Line (in miles)	Normalized Score for Length of Segment Paralleling Existing Transmission Line (weighted 40%)	Length Rebuild Existing Transmission Line (in miles)	Normailized Score for Length Rebuild Existing Transmission Line (in miles)	Length of Route (in miles)	Normalized Score for Length of Route	Endpoint Distance from FE Fulton Substation	Normalized Score for Endpoint Distance from FE Fulton Substation
204	190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	0	0	6	50	0.00	30	4.55	5	3.12	19	1.42	53	10.10	36	1.07	46
205	368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	0	0	7	63	2.03	22	3.13	13	1.69	31	0.00	100	11.41	61	0.15	0
206	163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	0	0	6	50	0.00	30	4.53	5	3.56	15	1.86	38	10.09	35	1.07	46
207	60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	0	0	7	63	0.00	30	1.02	24	0.98	36	0.44	85	10.26	39	2.16	100
208	87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	0	0	5	38	0.00	30	1.04	24	0.54	40	0.00	100	10.16	37	2.16	100
209	461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	0	0	7	63	0.00	30	4.78	4	2.32	25	0.00	100	9.54	25	1.13	49
210	189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	0	0	8	75	0.00	30	4.15	7	3.75	14	1.42	53	9.61	26	1.07	46
211	62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,8	0	0	8	75	0.00	30	3.11	13	2.13	27	0.44	85	10.70	47	2.16	100
212	89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	0	0	6	50	0.00	30	3.13	13	1.69	31	0.00	100	10.60	45	2.16	100
		MIN	0	0	2	0	0	0	0	0	1	0	0	0	8	0	0	0
		MAX	0	0	10	100	8	30	5	30	5	40	3	100	13	100	2	100
		RANGE	0	0	8	100	8	30	5	30	5	40	3	100	5	100	2	100

Rank	Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score
1	266	4,17,32,37,63,74,75,80	20.9	27.0	16.3	44.9	24.5
2	306	4,9,11,14,20,29,43,44,55,67,70,76,83	32.6	0.0	23.6	55.2	30.3
3	266 (Mod)	4,17,32,37,63,74,75(mod),80(mod)	40.2	12.0	17.9	50.9	30.6
4	307	4,9,11,14,20,29,43,44,59,66,67,70,83	30.1	0.0	28.2	53.1	30.9
5	500	14,20,29,43,44,55,67,70,76,78,79	32.2	39.0	16.9	53.7	31.1
6	354	4,9,14,20,29,43,44,55,67,70,76,78,81	31.9	0.0	23.9	59.8	31.1
7	133	3,11,14,20,22,28,43,44,55,67,70,76,83	31.4	39.0	25.0	39.8	31.3
8	149	3,11,16,23,25,31,33,45,47,48,52,65,67	33.4	69.0	29.9	15.7	32.0
9	178	3,14,20,22,28,43,44,55,67,70,76,78,81	30.7	39.0	25.3	44.4	32.1
10	136	3,11,14,20,29,43,44,55,67,70,76,83	38.0	39.0	23.8	37.2	32.3
11	203	3,7,8,13,28,43,44,55,67,70,76,81	33.9	39.0	21.7	48.5	32.4
12	219	3,8,10,20,29,43,44,55,67,70,76,81	33.6	39.0	23.8	45.0	32.5
13	242	3,9,17,32,37,63,74,75,80	34.1	66.0	20.4	38.5	32.7
14	519	8,10,20,29,43,44,55,67,70,76,79	35.0	39.0	17.4	57.0	32.8
15	497	11,14,20,29,43,44,55,67,70,76,79,81,83	39.5	39.0	16.6	53.2	33.0
16	181	3,14,20,29,43,44,55,67,70,76,78,81	37.5	39.0	24.1	41.8	33.1
17	303	4,9,11,14,20,22,28,43,44,55,67,70,76,83	39.2	0.0	24.8	57.8	33.3
18	498	11,14,20,29,43,44,59,66,67,70,79,81,83	37.0	39.0	21.2	51.1	33.7
19	501	14,20,29,43,44,59,66,67,70,78,79	36.4	39.0	21.5	51.6	33.7
20	522	8,10,20,22,28,43,44,55,67,70,76,79	35.0	39.0	18.6	59.6	33.8
21	355	4,9,14,20,29,43,44,59,66,67,70,78,81	36.1	0.0	28.5	57.7	33.8
22	304	4,9,11,14,20,22,28,43,44,59,66,67,70,83	36.8	0.0	29.4	55.7	33.9
23	12	2,10,20,22,28,43,44,55,67,70,76	44.2	0.0	21.1	61.3	33.9
24	503	11,14,20,22,28,43,44,55,67,70,76,79,81,83	39.5	39.0	17.8	55.8	34.0
25	506	14,20,22,28,43,44,55,67,70,76,78,79	38.8	39.0	18.1	56.3	34.1
26	351	4,9,14,20,22,28,43,44,55,67,70,76,78,81	38.6	0.0	25.1	62.4	34.1
27	35	2,8,11,14,20,29,43,44,55,67,70,76,81,83	43.1	0.0	22.3	62.1	34.3
28	80	2,8,14,20,29,43,44,55,67,70,76,78	42.5	0.0	22.6	62.6	34.3
29	410	9,17,32,37,63,74,75,79,80,81	35.4	66.0	15.7	54.5	34.4
30	525	7,8,13,28,43,44,55,67,70,76,79	42.0	39.0	15.3	60.4	34.7
31	507	14,20,22,28,43,44,59,66,67,70,78,79	36.4	39.0	22.7	54.2	34.7
32	276	4,7,8,9,13,28,43,44,55,67,70,76,81	41.8	0.0	22.3	66.5	34.7
33	352	4,9,14,20,22,28,43,44,59,66,67,70,78,81	36.1	0.0	29.7	60.3	34.8
34	18	2,7,13,28,43,44,55,67,70,76	51.2	0.0	17.8	62.2	34.9
35	15	2,10,20,29,43,44,55,67,70,76	50.8	0.0	19.9	58.7	34.9
36	137	3,11,14,20,29,43,44,59,66,67,70,83	42.2	39.0	28.4	35.1	35.0
37	18 (Mod)	2(mod),7(mod),13(mod),28,43,44,55,67,70,76	42.7	0.0	24.6	62.8	35.2
38	77	2,8,14,20,22,28,43,44,55,67,70,76,78	42.5	0.0	23.8	65.2	35.3
39	149 (Mod2)	Mod. #2 to Route 149 (scored as complete new route)	31.0	39.0	42.0	27.3	35.5
40	216	3,8,10,20,22,28,43,44,55,67,70,76,81	40.3	39.0	25.0	47.6	35.5
41	19	2,7,13,28,43,44,59,66,67,70	48.7	0.0	22.3	60.1	35.6
42	182	3,14,20,29,43,44,59,66,67,70,78,81	41.6	39.0	28.7	39.7	35.8
43	134	3,11,14,20,22,28,43,44,59,66,67,70,83	42.2	39.0	29.6	37.7	35.9
44	504	11,14,20,22,28,43,44,59,66,67,70,79,81,83	43.7	39.0	22.4	53.7	36.7
45	179	3,14,20,22,28,43,44,59,66,67,70,78,81	41.6	39.0	29.9	42.3	36.8
46	204	3,7,8,13,28,43,44,59,66,67,70,81	44.8	39.0	26.2	46.4	37.1
47	32	2,8,11,14,20,22,28,43,44,55,67,70,76,81,83	49.8	0.0	23.5	64.7	37.3
48	273	4,7,8,9,13,22,29,43,44,55,67,70,76,81	41.8	0.0	27.1	69.7	37.3
49	526	7,8,13,28,43,44,59,66,67,70,79	46.1	39.0	19.9	58.3	37.4
50	277	4,7,8,9,13,28,43,44,59,66,67,70,81	46.0	0.0	26.9	64.4	37.4
51	520	8,10,20,29,43,44,59,66,67,70,79	45.9	39.0	22.0	54.9	37.4
52	16	2,10,20,29,43,44,59,66,67,70	55.0	0.0	24.5	56.6	37.6
53	119	2,8,9,17,32,37,63,74,75,80,81	45.8	27.0	21.4	63.4	37.7
54	217	3,8,10,20,22,28,43,44,59,66,67,70,81	44.4	39.0	29.6	45.5	38.2
55	523	8,10,20,22,28,43,44,59,66,67,70,79	45.9	39.0	23.2	57.5	38.4
56	13	2,10,20,22,28,43,44,59,66,67,70	55.0	0.0	25.7	59.2	38.6
57	36	2,8,11,14,20,29,43,44,59,66,67,70,81,83	54.0	0.0	26.9	60.0	38.9
58	81	2,8,14,20,29,43,44,59,66,67,70,78	53.3	0.0	27.2	60.5	39.0
59	220	3,8,10,20,29,43,44,59,66,67,70,81	51.1	39.0	28.4	42.9	39.2
60	78	2,8,14,20,22,28,43,44,59,66,67,70,78	53.3	0.0	28.4	63.1	40.0
61	176	3,14,15,19,30,33,45,47,48,52,67,70,76,78,81,84	34.6	39.0	45.6	38.5	40.2
62	511	8,10,15,19,30,33,45,47,48,52,67,70,76,79,84	38.8	39.0	38.2	53.7	41.6
63	301	4,9,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	43.1	0.0	45.9	52.0	41.7
64	10	2,10,15,19,30,33,45,47,48,52,67,70,76,84	48.0	0.0	40.7	55.5	41.8
65	123	3,11,14,15,19,21,22,28,43,44,55,67,70,76,83	32.1	39.0	48.2	44.7	41.8
66	467	11,14,15,19,30,33,45,47,48,52,67,70,76,79,81,83,84	43.3	39.0	37.2	50.0	41.8
67	300	4,9,11,14,15,19,30,33,45,47,48,52,65,67,83	42.6	15.0	43.8	50.1	41.8
68	270	4,7,8,9,13,21,22,30,33,45,47,48,52,65,67	40.2	15.0	38.4	64.8	41.9

Rank	Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score
69	466	11,14,15,19,30,33,45,47,48,52,65,67,79,81,83	42.9	54.0	35.1	48.1	41.9
70	33	2,8,11,14,20,22,28,43,44,59,66,67,70,81,83	60.6	0.0	28.1	62.6	41.9
71	356	4,9,15,15,30,33,45,47,48,52,65,67,78,81	42.0	15.0	43.8	51.9	42.0
72	274	4,7,8,9,13,22,29,43,44,59,66,67,70,81	52.6	0.0	31.7	67.7	42.0
73	471	14,15,19,30,33,45,47,48,52,67,70,76,78,79,84	42.7	39.0	38.4	50.5	42.1
74	470	14,15,19,30,33,45,47,48,52,65,67,78,79	42.2	54.0	36.2	48.6	42.3
75	288	4,8,9,10,15,19,30,33,45,47,48,52,65,67,81	38.1	15.0	44.8	57.9	42.4
76	126	3,11,14,15,19,21,29,43,44,55,67,70,76,83	38.7	39.0	47.0	42.1	42.8
77	30	2,8,11,14,15,19,30,33,45,47,48,52,67,70,76,81,83,84	46.9	0.0	42.9	58.8	43.0
78	131	3,11,14,15,19,30,33,45,47,48,52,67,70,76,83,84	48.5	39.0	44.4	34.0	43.0
79	149 (Mod1)	Mod. #1 to Route 149 (scored as complete new route)	58.0	39.0	35.3	38.4	43.1
80	29	2,8,11,14,15,19,30,33,45,47,48,52,65,67,81,83	46.5	15.0	40.8	56.9	43.2
81	513	8,10,15,19,21,29,43,44,55,67,70,76,79	35.7	39.0	40.8	61.9	43.3
82	75	2,8,14,15,19,30,33,45,47,48,52,67,70,76,78,84	46.3	0.0	44.1	59.3	43.4
83	130	3,11,14,15,19,30,33,45,47,48,52,65,67,83	48.1	54.0	43.2	32.1	43.5
84	473	11,14,15,19,21,29,43,44,55,67,70,76,79,81,83	40.1	39.0	39.8	58.1	43.5
85	74	2,8,14,15,19,30,33,45,47,48,52,65,67,78	45.8	15.0	42.0	57.4	43.5
86	510	8,10,15,19,30,33,45,47,48,52,65,67,79	45.1	54.0	36.1	51.8	43.7
87	210	3,8,10,15,19,21,29,43,44,59,66,67,70,81	31.8	39.0	51.8	47.9	43.7
88	213	3,8,10,15,19,30,33,45,47,48,52,65,67,81	43.7	54.0	43.3	39.9	43.8
89	271	4,7,8,9,13,21,22,30,33,45,47,48,52,67,70,76,81,84	47.4	0.0	40.5	68.8	44.2
90	289	4,8,9,10,15,19,30,33,45,47,48,52,67,70,76,81,84	45.2	0.0	46.9	59.8	44.3
91	485	11,14,15,19,21,22,28,43,44,55,67,70,76,79,81,83	40.1	39.0	41.0	60.8	44.5
92	349	4,9,14,15,19,30,33,45,47,52,67,70,76,78,81,84	49.1	0.0	46.2	56.6	44.5
93	175	3,14,15,19,30,33,45,47,48,52,65,67,78,81	47.5	54.0	44.3	36.6	44.7
94	147	3,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	41.5	39.0	58.3	25.2	44.7
95	312	4,9,11,16,18,19,21,29,43,44,55,67,70,76,82	32.9	0.0	61.5	51.4	44.7
96	209	3,8,10,15,19,21,29,43,44,55,67,70,76,81	40.9	39.0	47.2	49.9	45.0
97	146	3,11,16,18,19,30,33,45,47,48,52,65,67,82	41.1	54.0	57.0	23.3	45.2
98	486	11,14,15,19,21,22,28,43,44,59,66,67,70,79,81,83	37.7	39.0	45.6	58.7	45.2
99	127	3,11,14,15,19,21,29,43,44,59,66,67,70,83	42.9	39.0	51.6	40.0	45.4
100	5	2,10,15,19,21,29,43,44,55,67,70,76	51.5	0.0	43.3	63.6	45.5
101	317	4,9,11,16,18,19,30,33,45,47,48,52,67,70,76,82,84	42.7	0.0	60.6	43.2	45.7
102	22	2,8,11,14,15,19,21,22,28,43,44,55,67,70,76,81,83	43.8	0.0	46.7	69.6	45.8
103	455	11,16,18,19,30,33,45,47,48,52,67,70,76,79,81,82,84	42.9	39.0	51.9	41.2	45.8
104	316	4,9,11,16,18,19,30,33,45,47,48,52,65,67,82	42.3	15.0	58.5	41.3	45.8
105	9	2,10,15,19,30,33,45,47,48,52,65,67	60.9	15.0	38.6	53.5	45.9
106	454	11,16,18,19,30,33,45,47,48,52,65,67,79,81,82	42.5	54.0	49.8	39.3	45.9
107	206	3,8,10,15,19,21,22,28,43,44,55,67,70,76,81	40.9	39.0	48.4	52.5	46.0
108	474	11,14,15,19,21,29,43,44,59,66,67,70,79,81,83	44.3	39.0	44.4	56.1	46.2
109	516	8,10,15,19,21,22,28,43,44,55,67,70,76,79	42.4	39.0	42.0	64.5	46.3
110	124	3,11,14,15,19,21,22,28,43,44,59,66,67,70,83	42.9	39.0	52.8	42.7	46.4
111	2	2,10,15,19,21,22,28,43,44,55,67,70,76	51.5	0.0	44.5	66.2	46.5
112	25	2,8,11,14,15,19,21,29,43,44,55,67,70,76,81,83	50.5	0.0	45.5	67.0	46.8
113	129	3,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	39.4	39.0	58.9	38.0	46.9
114	46	2,8,11,16,18,19,30,33,45,47,48,52,67,70,76,81,82,84	46.5	0.0	57.6	50.1	47.0
115	458	11,18,19,30,33,45,47,48,52,65,67,77,83	39.7	54.0	51.3	47.4	47.3
116	139	3,11,16,18,19,21,22,28,43,44,55,67,70,76,82	38.3	39.0	62.1	36.0	47.4
117	313	4,9,11,16,18,19,21,29,43,44,59,66,67,70,82	37.1	0.0	66.1	49.3	47.4
118	476	11,16,18,19,21,29,43,44,55,67,70,76,79,81,82	39.8	39.0	54.5	49.4	47.5
119	192	3,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	38.1	39.0	61.8	37.8	47.6
120	7	2,10,15,19,30,33,45,47,48,52,53,69,80	59.9	16.0	39.9	61.0	47.7
121	309	4,9,11,16,18,19,21,22,28,43,44,55,67,70,76,82	39.6	0.0	62.7	54.0	47.7
122	514	8,10,15,19,21,29,43,44,59,66,67,70,79	46.5	39.0	45.4	59.8	48.0
123	366	4,9,18,19,30,33,45,47,48,52,65,67,77,78,81	38.8	15.0	60.4	53.9	48.1
124	329	4,9,11,18,19,21,29,43,44,55,67,70,76,77,83	36.8	0.0	63.1	59.4	48.2
125	6	2,10,15,19,21,29,43,44,59,66,67,70	55.8	0.0	47.9	61.5	48.2
126	23	2,8,11,14,15,19,21,22,28,43,44,59,66,67,70,81,83	48.0	0.0	51.3	67.5	48.4
127	142	3,11,16,18,19,21,29,43,44,55,67,70,76,82	45.0	39.0	60.9	33.4	48.4
128	165	3,11,18,19,30,33,45,47,48,52,67,70,76,77,83,84	45.4	39.0	60.7	33.2	48.4
129	207	3,8,10,15,19,21,22,28,43,44,59,66,67,70,81	45.1	39.0	53.0	50.5	48.7
130	41	2,8,11,16,18,19,21,29,43,44,55,67,70,76,81,82	43.4	0.0	60.2	58.2	48.7
131	164	3,11,18,19,30,33,45,47,48,52,65,67,77,83	44.9	54.0	59.4	31.3	48.9
132	482	18,19,21,29,43,44,55,67,70,76,77,78,79	36.4	39.0	56.4	57.9	49.0
133	517	8,10,15,19,21,22,28,43,44,59,66,67,70,79	46.5	39.0	46.6	62.4	49.0
134	363	4,9,18,19,21,29,43,44,55,67,70,76,77,78,81	36.1	0.0	63.4	64.0	49.0
135	334	4,9,11,18,19,30,33,45,47,48,52,67,70,76,77,78,83,84	46.5	0.0	62.2	51.3	49.1
136	143	3,11,16,18,19,21,29,43,44,59,66,67,70,82	42.5	39.0	65.5	31.3	49.1

Rank	Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score
137	45	2,8,11,16,18,19,30,33,45,47,48,52,65,67,81,82	52.7	15.0	55.5	48.2	49.1
138	157	3,11,18,19,21,22,28,43,44,55,67,70,76,77,83	35.6	39.0	64.5	44.0	49.2
139	212	3,8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,81,84	41.6	39.0	59.1	45.8	49.2
140	459	11,18,19,30,33,45,47,48,52,67,70,76,77,79,81,83,84	46.8	39.0	53.5	49.3	49.2
141	299	4,9,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,83,84	47.3	0.0	59.6	56.0	49.2
142	333	4,9,11,18,19,30,33,45,47,48,52,56,67,77,83	46.1	15.0	60.0	49.4	49.2
143	269	4,7,8,9,13,21,22,30,33,45,47,48,52,55,59,66,67,70,81,84	44.9	0.0	53.4	72.8	49.4
144	463	18,19,30,33,45,47,48,52,67,70,76,77,78,79,84	46.1	39.0	54.6	49.8	49.5
145	468	11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,79,81,83,8	47.5	39.0	51.7	54.0	49.6
146	472	14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,79,84	46.9	39.0	52.0	54.5	49.7
147	462	18,19,30,33,45,47,48,52,65,67,77,78,79	45.7	54.0	52.5	47.9	49.7
148	174	3,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,81,84	45.4	39.0	59.3	42.5	49.7
149	367	4,9,18,19,30,33,45,47,48,52,67,70,76,77,78,81,84	46.0	0.0	62.5	55.8	49.9
150	184	3,18,19,21,22,28,43,44,55,67,70,76,77,78,81	34.9	39.0	64.8	48.6	50.0
151	191	3,18,19,30,33,45,47,48,52,65,67,77,78,81	44.3	54.0	60.6	35.9	50.1
152	140	3,11,16,18,19,21,22,28,43,44,59,66,67,70,82	42.5	39.0	66.6	33.9	50.1
153	160	3,11,18,19,21,29,43,44,55,67,70,76,77,83	42.2	39.0	63.3	41.4	50.2
154	477	11,16,18,19,21,29,43,44,59,66,67,70,79,81,82	44.0	39.0	59.1	47.3	50.2
155	310	4,9,11,16,18,19,21,22,28,43,44,59,66,67,70,82	43.8	0.0	67.3	51.9	50.4
156	488	11,16,18,19,21,22,28,43,44,55,67,70,76,79,81,82	46.5	39.0	55.7	52.0	50.5
157	63	2,8,11,18,19,30,33,45,47,48,52,65,67,77,81,83	50.0	15.0	57.1	56.2	50.6
158	90	2,8,18,19,30,33,45,47,48,52,65,67,77,78	49.3	15.0	58.2	56.7	50.9
159	479	11,18,19,21,29,43,44,55,67,70,76,77,79,81,83	43.7	39.0	56.1	57.4	50.9
160	187	3,18,19,21,29,43,44,55,67,70,76,77,78,81	41.6	39.0	63.6	46.0	51.0
161	326	4,9,11,18,19,21,22,28,43,44,55,67,70,76,77,83	43.4	0.0	64.3	62.0	51.2
162	491	11,18,19,21,22,28,43,44,55,67,70,76,77,79,81,83	42.2	39.0	64.5	44.0	51.2
163	489	11,16,18,19,21,22,28,43,44,59,66,67,70,79,81,82	43.9	39.0	60.3	49.9	51.2
164	3	2,10,15,19,21,22,28,43,44,59,66,67,70	62.4	0.0	49.1	64.1	51.2
165	315	4,9,11,16,18,19,30,33,45,47,48,52,55,59,66,67,70,82,84	40.2	0.0	74.2	47.2	51.2
166	26	2,8,11,14,15,19,21,29,43,44,59,66,67,70,81,83	61.3	0.0	50.1	64.9	51.4
167	42	2,8,11,16,18,19,21,29,43,44,59,66,67,70,81,82	47.6	0.0	64.8	56.2	51.4
168	483	18,19,21,29,43,44,59,66,67,70,77,78,79	40.5	39.0	61.0	55.8	51.6
169	8	2,10,15,19,30,33,45,47,48,52,55,59,66,67,70,84	58.8	0.0	55.2	59.5	51.6
170	38	2,8,11,16,18,19,21,22,28,43,44,55,67,70,76,81,82	50.1	0.0	61.4	60.8	51.7
171	494	18,19,21,22,28,43,44,55,67,70,76,77,78,79	43.1	39.0	57.6	60.5	51.9
172	360	4,9,18,19,21,22,28,43,44,55,67,70,76,77,78,81	42.8	0.0	64.6	66.6	52.0
173	59	2,8,11,18,19,21,29,43,44,55,67,70,76,77,81,83	47.3	0.0	61.8	66.3	52.2
174	64	2,8,11,18,19,30,33,45,47,48,52,67,70,76,77,81,83,84	57.1	0.0	59.2	58.1	52.4
175	145	3,11,16,18,19,30,33,45,47,48,52,59,66,67,70,82,84	45.6	39.0	72.8	29.2	52.5
176	91	2,8,18,19,30,33,45,47,48,52,67,70,76,77,78,84	56.4	0.0	60.3	58.6	52.8
177	330	4,9,11,18,19,21,29,44,59,66,67,70,77,83	47.6	0.0	67.7	57.4	52.8
178	161	3,11,18,19,21,29,43,44,59,66,67,70,77,83	46.4	39.0	67.9	39.3	52.8
179	73	2,8,14,15,19,30,33,45,47,48,52,55,59,66,67,70,78,84	57.1	0.0	57.8	63.3	52.9
180	512	8,10,15,19,30,33,45,47,48,52,55,59,66,67,70,79,84	56.4	39.0	52.7	57.7	53.4
181	480	11,18,19,21,29,43,44,59,66,67,70,77,79,81,83	47.8	39.0	60.7	55.3	53.6
182	456	11,16,18,19,30,33,45,47,48,52,59,66,67,70,79,81,82,84	47.1	39.0	66.4	45.2	53.6
183	364	4,9,18,19,21,29,43,44,59,66,67,70,77,78,81	47.0	0.0	68.0	61.9	53.7
184	57	2,8,11,18,19,21,22,28,43,44,59,66,67,70,77,81,83	44.8	0.0	67.6	66.8	53.8
185	278	4,8,9,10,15,18,19,30,33,45,47,48,52,55,59,66,67,70,81,84	56.1	0.0	60.6	63.8	53.8
186	327	4,9,11,18,19,21,22,28,44,59,66,67,70,77,83	47.6	0.0	68.9	60.0	53.8
187	158	3,11,18,19,21,22,28,43,44,59,66,67,70,77,83	46.4	39.0	69.1	41.9	53.8
188	84	2,8,18,19,21,22,28,43,44,59,66,67,70,77,78	44.2	0.0	67.9	67.3	53.9
189	86	2,8,18,19,21,29,43,44,55,67,70,76,77,78	53.3	0.0	62.1	66.8	54.2
190	39	2,8,11,16,18,19,21,22,28,43,44,59,66,67,70,81,82	54.3	0.0	66.0	58.8	54.4
191	495	18,19,21,22,28,43,44,59,66,67,70,77,78,79	47.2	39.0	62.2	58.4	54.6
192	332	4,9,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	44.1	0.0	75.8	55.3	54.6
193	361	4,9,18,19,21,22,28,43,44,59,66,67,70,77,78,81	47.0	0.0	69.2	64.5	54.7
194	28	2,8,11,14,15,19,30,33,45,47,48,52,55,59,66,67,70,81,83,8	64.5	0.0	57.4	62.8	54.9
195	464	18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,79,84	43.7	39.0	68.3	53.8	55.1
196	56	2,8,11,18,19,21,22,28,43,44,55,67,70,76,77,81,83	54.0	0.0	63.0	68.9	55.2
197	83	2,8,18,19,21,22,28,43,44,55,67,70,76,77,78	53.3	0.0	63.3	69.4	55.2
198	188	3,18,19,21,29,43,44,59,66,67,70,77,78,81	52.4	39.0	68.2	43.9	55.7
199	492	11,18,19,21,22,28,43,44,59,66,67,70,77,79,81,83	54.5	39.0	61.8	58.0	56.6
200	185	3,18,19,21,22,28,43,44,59,66,67,70,77,78,81	52.4	39.0	69.4	46.5	56.7
201	162	3,11,18,19,30,33,45,47,48,52,53,69,77,80,83	64.0	55.0	60.7	38.8	56.7
202	44	2,8,11,16,18,19,30,33,45,47,48,52,59,66,67,70,81,82,84	57.4	0.0	72.1	54.1	56.9
203	460	11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,79,81,83,8	51.0	39.0	68.0	53.3	57.0

Rank	Routes	Study Segments	Normalized Ecological Score (30%)	Normalized Cultural Score (10%)	Normalized Land Use Score (40%)	Normalized Technical Score (20%)	Final Score
204	190	3,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,81,84	48.9	39.0	75.5	41.8	57.1
205	368	4,9,18,19,30,33,47,48,52,55,59,66,67,70,77,78,81,84	50.1	0.0	76.2	59.8	57.5
206	163	3,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,83,84	56.2	39.0	75.2	37.3	58.3
207	60	2,8,11,18,19,21,29,43,44,59,66,67,70,77,81,83	64.8	0.0	66.4	64.2	58.8
208	87	2,8,18,19,21,29,43,44,59,66,67,70,77,78	64.2	0.0	66.7	64.7	58.9
209	461	18,19,30,33,45,47,48,52,53,69,77,78,79,80	71.4	55.0	53.8	55.3	59.5
210	189	3,18,19,30,33,45,47,48,52,53,69,77,78,80,81	70.0	55.0	61.8	43.4	59.9
211	62	2,8,11,18,19,30,33,45,47,48,52,55,59,66,67,70,77,81,83,8	61.3	0.0	73.7	62.1	60.3
212	89	2,8,18,19,30,33,45,47,48,52,55,59,66,67,70,77,78,84	67.3	0.0	74.0	62.6	62.3

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Summary: Application Application - Part 1 of 3 electronically filed by Ms. Devan K. Flahive on behalf of American Transmission Systems Incorporated